

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO

LOCATION.--Lat 40° 56'15", long 106° 20'16", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.11, T.11 N., R.80 W., Jackson County, Hydrologic Unit 10180001, on right bank 1,000 ft downstream from bridge on State Highway 125, 0.7 mi upstream from Camp Creek, 4.2 mi northwest of Northgate, and 4.4 mi south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 mi².

PERIOD OF RECORD.--May to November 1904 (published as "near Pinkhampton"), May 1915 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1916-21, 1929(M), 1930-32. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,810.39 ft above NGVD of 1929. See WSP 1730 for history of changes prior to April 8, 1918. April 8, 1918 to August 21, 1961, water-stage recorder at site 0.7 mi downstream at datum 3.36 ft lower. August 22, 1961 to September 18, 1984, at site 650 ft upstream at same datum. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 130,000 acres of hay meadows upstream from station. Transbasin diversions upstream from station to Cache la Poudre River basin.

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	34	e51	e101	e57	e63	e67	e306	426	2,590	526	245	97
2	36	e51	e101	e54	e63	e68	e397	370	3,130	475	210	98
3	44	e49	e100	e57	e61	e71	e456	301	3,300	435	188	92
4	64	e52	e98	e57	e60	e73	396	249	2,800	408	176	93
5	70	e55	e95	e56	e53	e72	350	239	2,340	360	180	95
6	59	e64	e93	e54	e48	e78	319	254	1,900	314	172	85
7	57	e74	e91	e54	e45	e79	274	247	1,770	301	146	96
8	53	e75	e87	e56	e48	e85	237	227	1,620	305	129	109
9	52	e70	e84	e51	e54	e91	241	227	1,360	281	128	107
10	50	e68	e84	e45	e60	e105	294	266	1,240	262	131	109
11	56	e65	e89	e44	e63	e105	393	302	1,570	297	114	105
12	53	e62	e86	e45	e67	e120	484	326	2,000	294	107	100
13	50	e71	e89	e46	e70	e141	510	291	2,150	293	113	92
14	49	e69	e91	e49	e70	e183	526	247	1,840	265	110	86
15	49	e66	e94	e49	e68	e205	590	229	1,570	255	99	81
16	48	e67	e89	e49	e67	e219	561	263	1,520	249	88	77
17	48	e77	e86	e47	e67	e212	487	332	1,480	266	103	72
18	47	e84	e85	e47	e66	e202	419	411	1,380	272	155	67
19	47	e87	e77	e52	e66	e198	360	548	1,350	343	188	66
20	45	e98	e68	e55	e67	e195	297	601	1,610	389	185	69
21	47	e101	e67	e53	e69	e205	261	526	1,640	359	131	70
22	47	e104	e64	e50	e67	e232	244	489	1,410	317	112	69
23	50	e106	e57	e51	e63	e290	291	498	1,180	281	107	66
24	53	e101	e57	e54	e61	e266	323	531	1,030	295	101	64
25	56	e98	e53	e53	e62	e275	338	667	1,030	280	117	62
26	57	e96	e52	e55	e64	e295	367	943	1,030	257	117	59
27	60	e90	e52	e60	e67	e280	410	1,120	873	252	117	52
28	61	e98	e54	e57	e66	e228	516	1,250	700	315	102	50
29	61	e102	e57	e55	---	e191	502	1,470	596	279	97	51
30	50	e101	e58	e56	---	e198	455	1,770	556	271	90	53
31	e49	---	e56	e60	---	e220	---	2,090	---	280	90	---
TOTAL	1,602	2,352	2,415	1,628	1,745	5,249	11,604	17,710	48,565	9,776	4,148	2,392
MEAN	51.7	78.4	77.9	52.5	62.3	169	387	571	1,619	315	134	79.7
MAX	70	106	101	60	70	295	590	2,090	3,300	526	245	109
MIN	34	49	52	44	45	67	237	227	556	249	88	50
AC-FT	3,180	4,670	4,790	3,230	3,460	10,410	23,020	35,130	96,330	19,390	8,230	4,740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2003, BY WATER YEAR (WY)

MEAN	159	151	104	83.5	88.9	176	743	1,121	1,459	627	261	147
MAX	538	366	215	177	199	722	2,444	3,649	3,296	2,367	763	712
(WY)	(1962)	(1962)	(1998)	(1984)	(1986)	(1986)	(1962)	(1984)	(1983)	(1957)	(1983)	(1997)
MIN	31.7	54.2	33.9	27.5	35.7	47.8	131	96.1	89.4	26.7	33.3	23.8
(WY)	(1935)	(1935)	(1977)	(1977)	(1933)	(1964)	(1981)	(2002)	(1934)	(1934)	(2002)	(1934)

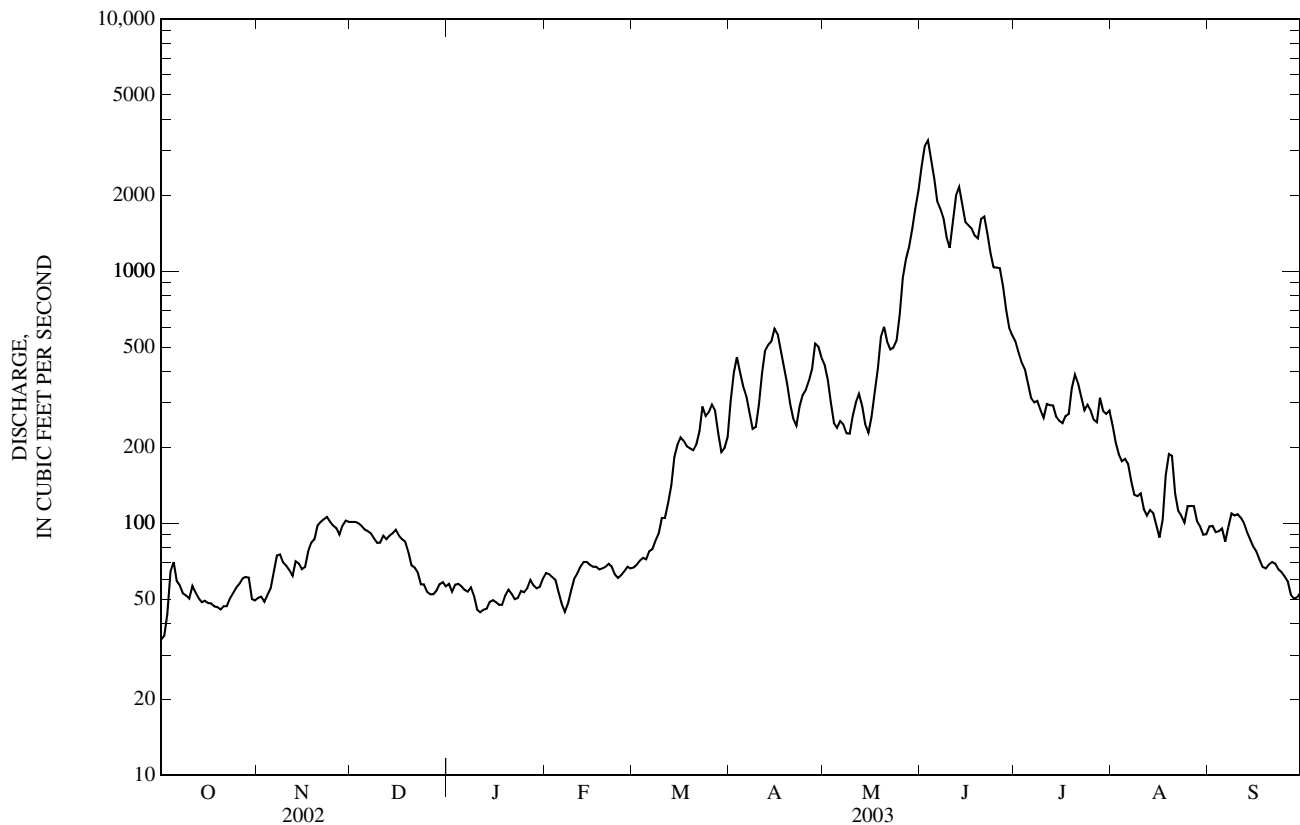
06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1904 - 2003	
ANNUAL TOTAL	32,273		109,186		--	
ANNUAL MEAN	88.4		299		428	
HIGHEST ANNUAL MEAN	--		--		878	1917
LOWEST ANNUAL MEAN	--		--		91.5	2002
HIGHEST DAILY MEAN	526 ^e	Apr 5	3,300	Jun 3	6,450	Jun 10, 1923
LOWEST DAILY MEAN	15	Sep 6,7	34	Oct 1	15	Sep 6,7 2002
ANNUAL SEVEN-DAY MINIMUM	16	Sep 2	47	Jan 10	16	Sep 2, 2002
MAXIMUM PEAK FLOW	--		3,410	Jun 3	6,720 ^a	Jun 11, 1923
MAXIMUM PEAK STAGE	--		5.91	Jun 3	9.65 ^b	Apr 25, 1980
ANNUAL RUNOFF (AC-FT)	64,010		216,600		310,000	
10 PERCENT EXCEEDS	159		598		1,200	
50 PERCENT EXCEEDS	72		100		160	
90 PERCENT EXCEEDS	33		51		68	

a Gage height, 6.34 ft, site and datum then in use.

b Backwater from ice, site and datum then in use.

e Estimated.



06622700 NORTH BRUSH CREEK NEAR SARATOGA, WY

LOCATION.--Lat 41°22'13", long 106°31'12", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.16 N., R.81 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, on right bank 0.2 mi upstream from bridge on logging road, 0.5 mi downstream from Lincoln Creek, 1.6 mi upstream from South Brush Creek, and 16 mi southeast of Saratoga.

DRAINAGE AREA.--37.4 mi².

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,020 ft above NGVD of 1929, from topographic map. Prior to June 17, 1971, at site 0.02 mi downstream at different datum. June 17, 1971 to August 2, 1984, at site 0.2 mi downstream at different datum. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No diversion upstream from 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	6.3	e6.4	7.7	7.8	7.8	7.3	12	27	752	102	11	8.4
2	6.4	e6.7	7.7	7.4	8.0	e7.3	13	25	623	94	9.8	7.6
3	9.2	e6.8	7.4	7.7	e7.8	7.7	12	27	505	82	9.9	8.1
4	9.7	e6.8	7.5	7.7	e7.6	7.6	e11	30	395	72	12	8.6
5	10	e7.1	7.7	7.7	e7.1	7.7	e11	27	301	65	9.8	7.6
6	10	e7.5	7.4	7.4	e6.9	7.6	11	25	249	59	9.0	8.2
7	11	e7.7	7.3	e7.4	e6.6	7.3	11	26	220	55	9.0	8.1
8	12	e7.8	7.1	e7.6	e6.6	7.4	e12	25	212	49	9.2	8.0
9	11	7.9	6.9	7.7	e7.0	7.4	e13	23	269	44	8.8	12
10	10	7.9	6.8	e7.4	e7.2	7.4	e15	22	369	39	8.1	23
11	11	7.9	7.2	e7.6	e7.3	7.6	20	20	364	35	7.9	22
12	8.9	7.7	7.4	7.9	7.4	7.7	24	23	314	33	8.5	18
13	8.6	7.9	7.5	7.9	7.8	e8.1	27	34	293	30	9.1	13
14	8.0	8.1	7.4	7.6	e8.1	e8.6	31	44	286	26	8.5	10
15	7.8	8.0	7.4	7.5	e8.0	9.1	32	55	295	23	7.4	9.3
16	7.2	7.8	7.5	7.4	7.8	9.6	26	79	289	21	7.6	8.3
17	7.3	8.0	7.9	7.5	7.5	9.1	23	114	263	19	9.9	9.0
18	7.3	7.9	7.8	e7.4	7.5	e8.9	21	140	258	20	12	12
19	7.4	7.9	7.7	e7.6	e7.4	e7.9	18	147	239	18	11	13
20	7.8	8.0	7.5	e7.7	e7.5	e7.9	19	137	243	28	8.8	16
21	7.5	8.0	7.8	e7.8	e7.8	e8.6	20	159	204	22	7.8	14
22	7.6	7.9	7.8	7.9	8.0	9.1	21	215	177	16	7.9	11
23	7.9	8.1	7.6	7.8	7.7	8.9	20	304	163	15	8.5	9.6
24	7.7	8.1	7.5	e7.8	7.6	9.3	18	375	155	14	8.4	8.7
25	7.6	7.4	7.4	7.6	7.8	e9.2	21	410	155	13	12	8.2
26	7.9	e6.4	7.3	7.6	7.7	9.1	31	449	112	13	8.9	7.9
27	7.7	e7.0	7.4	7.6	7.5	e9.7	34	544	110	20	7.9	7.7
28	7.3	7.9	7.5	7.6	7.3	e9.5	31	697	115	14	7.7	7.8
29	8.1	7.7	7.6	7.7	---	e9.2	34	774	114	12	7.3	7.7
30	e7.3	7.5	7.3	7.8	---	e9.8	32	828	108	11	8.5	7.7
31	e6.4	---	7.4	7.9	---	10	---	982	---	11	9.8	---
TOTAL	259.9	227.8	231.4	237.0	210.3	261.6	624	6,787	8,152	1,075	282.0	320.5
MEAN	8.38	7.59	7.46	7.65	7.51	8.44	20.8	219	272	34.7	9.10	10.7
MAX	12	8.1	7.9	7.9	8.1	10	34	982	752	102	12	23
MIN	6.3	6.4	6.8	7.4	6.6	7.3	11	20	108	11	7.3	7.6
AC-FT	516	452	459	470	417	519	1,240	13,460	16,170	2,130	559	636

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2003, BY WATER YEAR (WY)

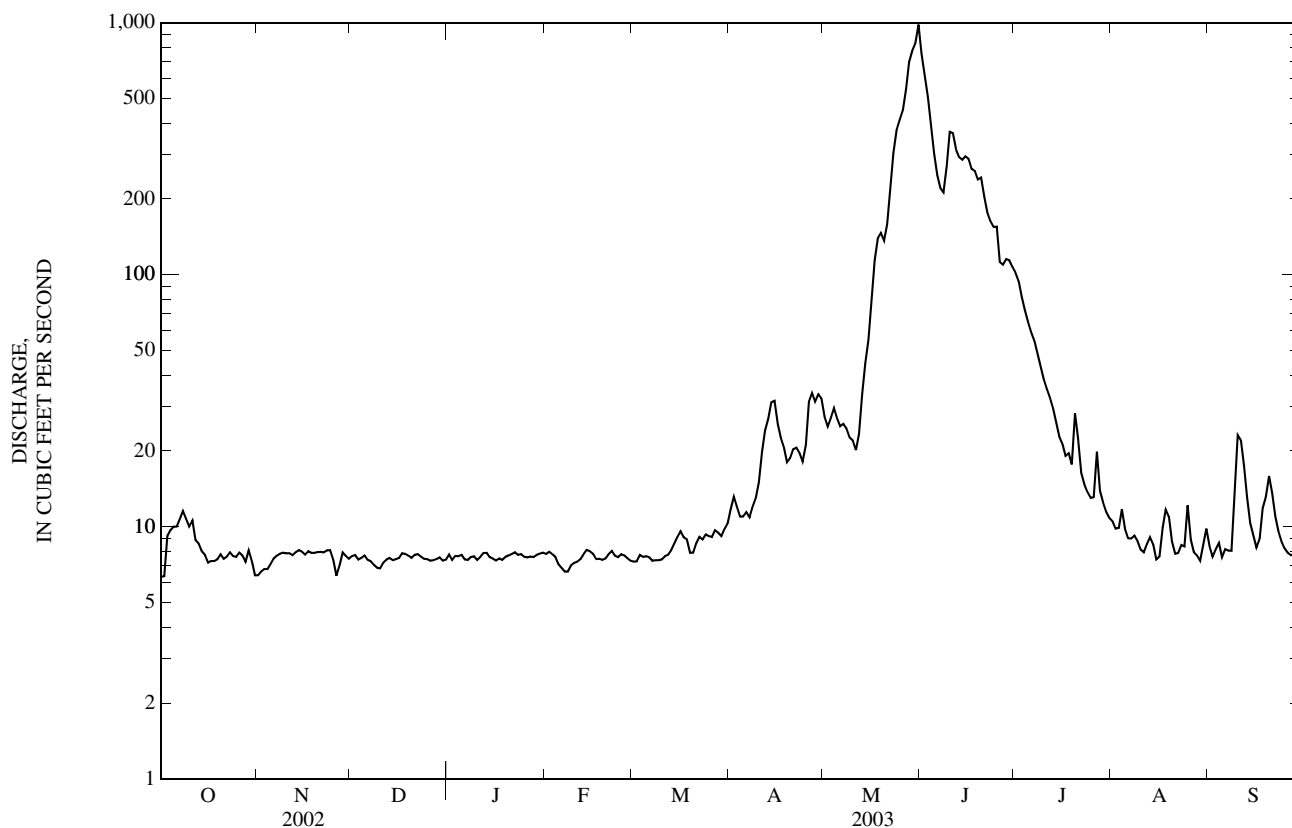
MEAN	13.8	11.4	9.96	9.22	9.16	10.4	23.4	168	254	54.7	13.4	12.4
MAX	38.7	21.3	15.1	14.0	12.7	20.1	73.4	272	534	224	29.5	27.2
(WY)	(1966)	(1962)	(1984)	(1999)	(1999)	(1966)	(1962)	(2000)	(1983)	(1983)	(1983)	(1965)
MIN	7.77	7.59	6.67	6.15	6.55	6.80	12.3	53.5	52.0	6.17	5.10	6.12
(WY)	(1990)	(2003)	(1991)	(1970)	(1970)	(1970)	(1993)	(1995)	(2002)	(2002)	(2002)	(2002)

06622700 NORTH BRUSH CREEK NEAR SARATOGA, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1961 - 2003	
ANNUAL TOTAL	6,365.2		18,668.5		--	
ANNUAL MEAN	17.4		51.1		49.2	
HIGHEST ANNUAL MEAN	--		--		82.0	
LOWEST ANNUAL MEAN	--		--		17.8	
HIGHEST DAILY MEAN	169	May 31	982	May 31	982	May 31, 2003
LOWEST DAILY MEAN	3.7	Aug 18,19	6.3	Oct 1	3.7	Aug 18,19, 2002
ANNUAL SEVEN-DAY MINIMUM	4.0	Aug 14	6.8	Oct 30	4.0	Aug 14, 2002
MAXIMUM PEAK FLOW	--		1,380	May 31	1,380	May 31, 2003
MAXIMUM PEAK STAGE	--		4.96	May 31	5.75 ^a	Jun 7, 1964
ANNUAL RUNOFF (AC-FT)	12,630		37,030		35,620	
10 PERCENT EXCEEDS	43		150		154	
50 PERCENT EXCEEDS	7.8		8.5		12	
90 PERCENT EXCEEDS	5.1		7.4		8.0	

a Site and datum then in use.

e Estimated.



06622900 SOUTH BRUSH CREEK NEAR SARATOGA, WY

LOCATION.--Lat 41° 20' 38", long 106° 31' 33", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.20, T.16 N., R.81 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, on left bank 300 ft upstream from culvert on State Highway 130, 1.6 mi upstream from North Brush Creek, and 17 mi southeast of Saratoga.

DRAINAGE AREA.--22.8 mi².

PERIOD OF RECORD.--May 1960 to September 1974, May 1976 to September 1977, May 1979 to current year (no winter records since 1972). All values of discharge greater than 200 ft³/s April, 1973 through September, 2002, are unreliable and should not be used.

GAGE.--Water-stage recorder. Elevation of gage is 8,100 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Transbasin diversion 0.3 mi upstream from station for irrigation in North Brush Creek basin.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by 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	---	---	---	---	---	---	e8.0	18	502	65	11	9.6
2	---	---	---	---	---	---	e9.0	17	514	112	9.6	8.8
3	---	---	---	---	---	---	e8.1	18	417	152	9.5	12
4	---	---	---	---	---	---	e8.1	20	269	121	15	13
5	---	---	---	---	---	---	e8.2	19	156	95	10	7.5
6	---	---	---	---	---	---	e8.7	18	104	73	9.3	7.3
7	---	---	---	---	---	---	e8.0	18	81	49	8.9	7.3
8	---	---	---	---	---	---	e13	18	83	21	9.1	7.2
9	---	---	---	---	---	---	e9.0	17	123	18	8.4	11
10	---	---	---	---	---	---	e8.6	16	182	18	7.9	18
11	---	---	---	---	---	---	e11	15	197	28	7.5	20
12	---	---	---	---	---	---	e16	17	167	37	7.5	18
13	---	---	---	---	---	---	e18	26	150	31	7.7	15
14	---	---	---	---	---	---	e21	37	192	27	7.5	13
15	---	---	---	---	---	---	e20	51	262	25	7.1	12
16	---	---	---	---	---	---	17	73	209	23	7.2	11
17	---	---	---	---	---	---	15	101	195	21	10	11
18	---	---	---	---	---	---	14	118	203	21	9.6	14
19	---	---	---	---	---	---	13	111	172	20	8.7	16
20	---	---	---	---	---	---	13	105	172	46	7.5	15
21	---	---	---	---	---	---	13	135	131	30	7.0	10
22	---	---	---	---	---	---	14	180	107	22	6.9	8.1
23	---	---	---	---	---	---	14	251	99	20	7.1	7.5
24	---	---	---	---	---	---	e13	306	95	19	8.7	7.0
25	---	---	---	---	---	---	e16	313	68	18	15	6.6
26	---	---	---	---	---	---	20	399	51	18	10	6.4
27	---	---	---	---	---	---	25	505	73	19	9.7	6.2
28	---	---	---	---	---	---	22	620	88	14	9.7	6.3
29	---	---	---	---	---	---	23	676	91	13	9.2	6.4
30	---	---	---	---	---	---	22	677	82	12	9.4	6.2
31	---	---	---	---	---	---	---	725	---	11	10	---
TOTAL	---	---	---	---	---	---	428.7	5,620	5,235	1,199	281.7	317.4
MEAN	---	---	---	---	---	---	14.3	181	174	38.7	9.09	10.6
MAX	---	---	---	---	---	---	25	725	514	152	15	20
MIN	---	---	---	---	---	---	8.0	15	51	11	6.9	6.2
AC-FT	---	---	---	---	---	---	850	11,150	10,380	2,380	559	630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2003, BY WATER YEAR (WY)*

MEAN	11.7	9.02	7.14	5.83	6.01	6.63	15.0	90.4	146	40.2	9.70	7.89
MAX	33.8	25.9	17.2	9.61	9.46	11.3	54.2	181	295	139	29.4	24.8
(WY)	(1962)	(1962)	(1962)	(1962)	(1962)	(1966)	(1962)	(2003)	(1968)	(1983)	(1983)	(1961)
MIN	3.59	5.41	4.04	2.40	3.71	4.61	7.53	34.9	20.9	1.26	1.10	1.27
(WY)	(1965)	(1964)	(1965)	(1965)	(1965)	(1963)	(1968)	(1982)	(1987)	(2001)	(2001)	(1998)

06622900 SOUTH BRUSH CREEK NEAR SARATOGA, WY—Continued

SUMMARY STATISTICS

FOR 2003 WATER YEAR*

WATER YEARS 1961 - 2003**

HIGHEST DAILY MEAN
 LOWEST DAILY MEAN
 MAXIMUM PEAK FLOW
 MAXIMUM PEAK STAGE

725 May 31
 6.2 Sep 30
 1,230 May 31
 3.65 May 31

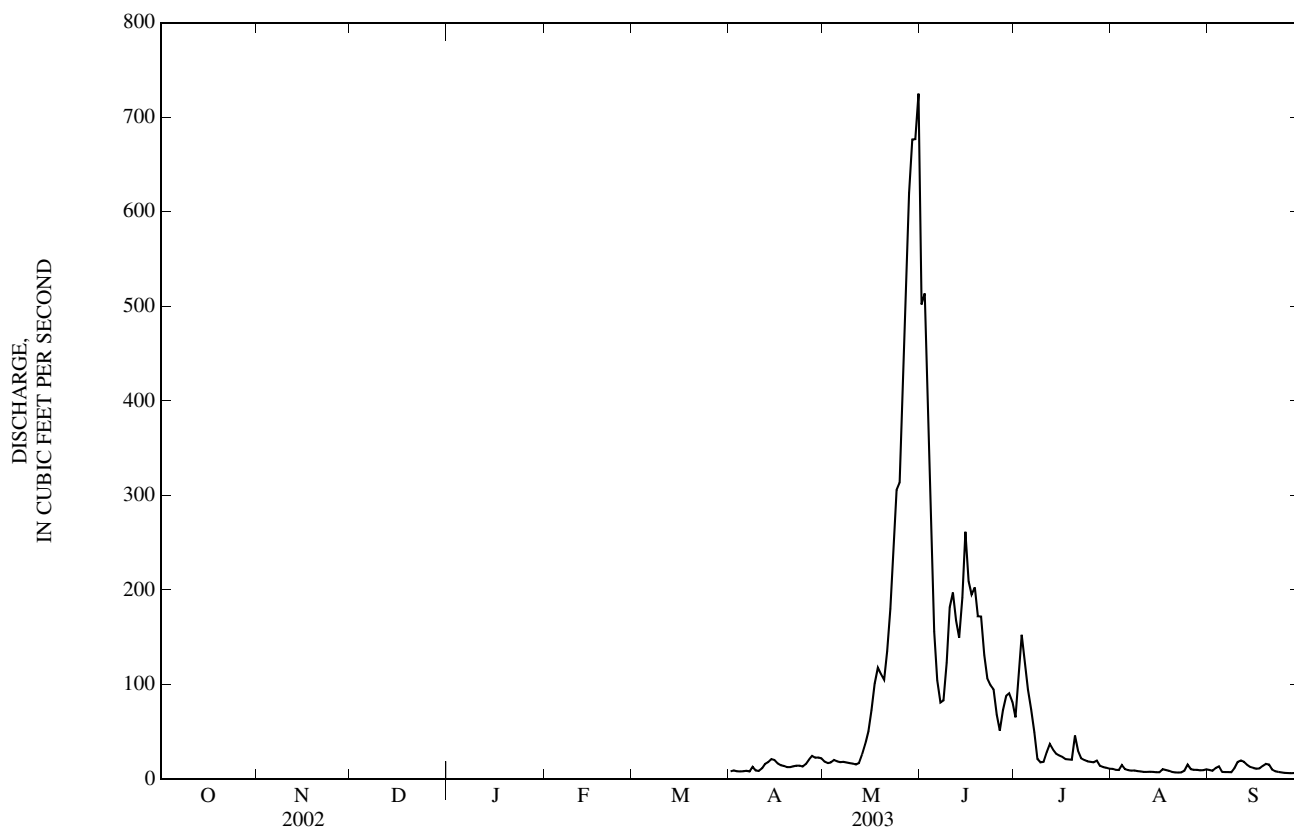
725^a May 31, 2003
 0.43 Aug 5, 2001
 1,230^a May 31, 2003
 4.09 Jun 10, 1965

* For period of operation.

** All values of discharge greater than 200 ft³/s April 1973, through September 2002 are unreliable and should not be used.

a May have been higher 1973-2002.

e Estimated.



06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY
(Hydrologic Benchmark Station)

LOCATION.--Lat 41°01'25", long 106°49'27", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.12 N., R.84 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, on left bank 0.6 mi upstream from Hog Park Creek and 13 mi south of Encampment.

DRAINAGE AREA.--72.7 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,270 ft above NGVD of 1929, from topographic map. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No diversion upstream from gage.

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	17	e14	17	13	e14	e13	e23	63	1,300	212	42	28
2	18	e14	17	13	13	e13	e25	57	1,120	194	39	26
3	29	e14	16	14	e12	14	e23	66	941	173	38	28
4	26	e15	16	14	e12	14	e21	70	830	157	43	31
5	25	e16	16	14	e12	14	e18	60	705	143	38	28
6	25	e18	16	13	e11	13	e17	52	598	132	35	34
7	25	e20	15	e13	e11	14	e16	51	555	123	34	34
8	27	e23	14	14	e12	13	e16	50	516	112	33	31
9	25	23	13	13	e13	13	e18	46	553	102	32	30
10	24	e21	13	13	e14	13	e21	44	653	96	31	36
11	24	e20	15	14	e14	13	e25	41	745	89	31	47
12	21	e18	17	14	e13	14	33	50	620	85	33	41
13	17	e20	17	14	e14	e14	43	87	580	79	33	33
14	18	19	17	14	e15	e15	58	132	637	75	33	29
15	17	17	16	13	e14	e16	68	166	601	71	29	27
16	17	e16	16	13	e13	17	64	202	589	68	31	26
17	16	e18	16	14	e13	15	54	296	549	67	60	27
18	16	19	16	e13	e13	e14	50	397	539	68	62	30
19	15	18	15	14	e13	e13	43	378	530	70	47	34
20	15	18	15	13	e13	e12	40	355	526	65	35	31
21	15	17	15	14	14	e12	47	386	473	68	31	27
22	15	e18	14	14	14	e14	54	440	442	60	30	25
23	18	e19	14	14	14	e17	45	537	405	54	39	24
24	17	17	14	14	14	e19	41	658	372	51	37	23
25	17	e15	13	14	14	e17	48	722	354	50	41	23
26	15	e13	13	14	14	e18	60	720	287	54	35	22
27	17	16	13	14	14	e18	73	859	263	50	32	22
28	16	16	13	14	e13	e16	79	990	255	46	29	21
29	16	16	13	14	---	e15	93	1,100	246	48	28	21
30	e15	16	13	14	---	e16	87	1,130	230	47	28	21
31	e14	---	13	13	---	e19	---	1,140	---	44	30	---
TOTAL	592	524	461	423	370	458	1,303	11,345	17,014	2,753	1,119	860
MEAN	19.1	17.5	14.9	13.6	13.2	14.8	43.4	366	567	88.8	36.1	28.7
MAX	29	23	17	14	15	19	93	1,140	1,300	212	62	47
MIN	14	13	13	13	11	12	16	41	230	44	28	21
AC-FT	1,170	1,040	914	839	734	908	2,580	22,500	33,750	5,460	2,220	1,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2003, BY WATER YEAR (WY)

MEAN	30.6	24.8	22.1	19.7	18.6	19.8	41.1	283	591	197	46.1	32.4
MAX	71.5	45.2	33.9	28.9	28.1	31.4	76.5	471	919	581	83.3	82.2
(WY)	(1998)	(1998)	(1998)	(1971)	(1971)	(1997)	(1989)	(2000)	(1997)	(1995)	(1995)	(1997)
MIN	17.5	15.6	11.7	10.9	10.8	10.9	19.3	120	162	29.5	15.6	17.8
(WY)	(1992)	(1978)	(1969)	(1969)	(1969)	(1969)	(1975)	(1995)	(2002)	(2002)	(2002)	(2002)

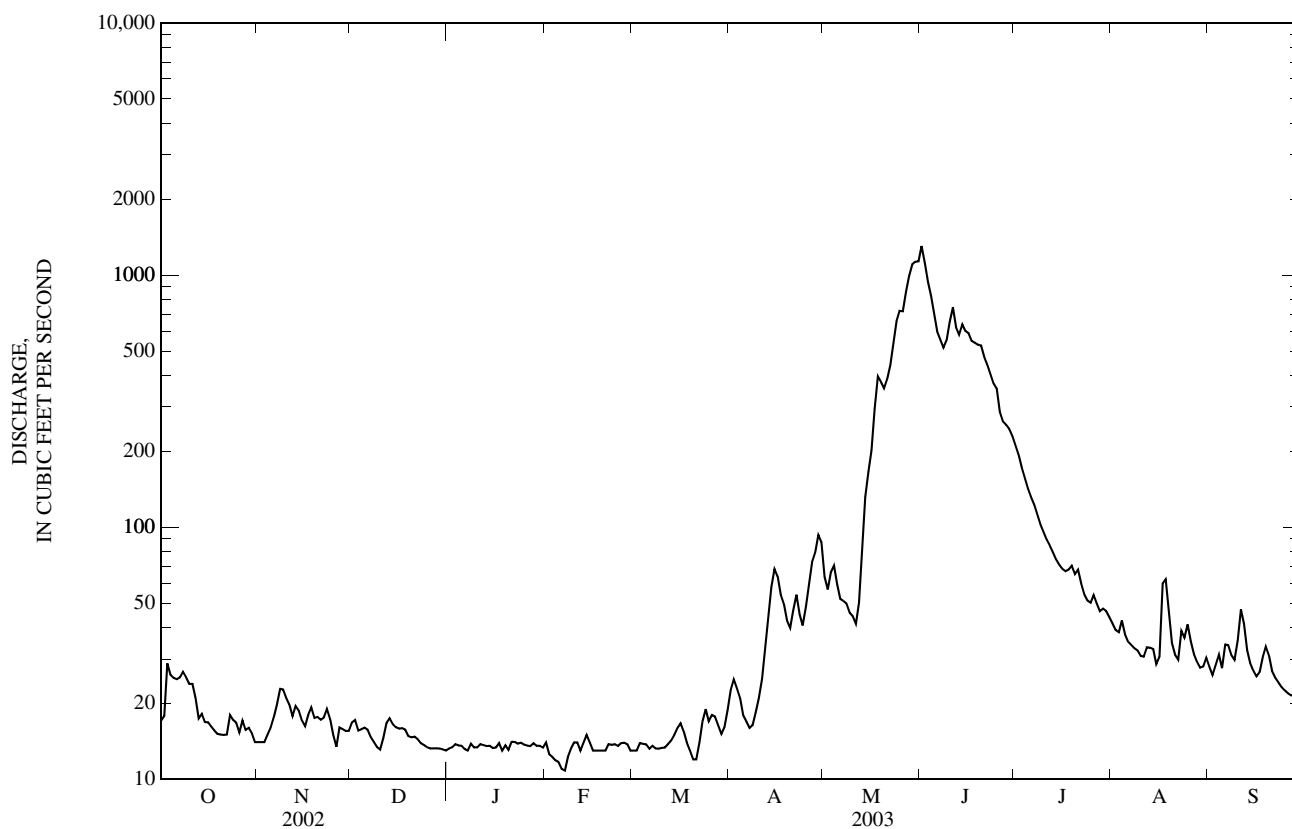
06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1965 - 2003	
ANNUAL TOTAL	16,489		37,222		--	
ANNUAL MEAN	45.2		102		111	
HIGHEST ANNUAL MEAN	--		--		159	1982
LOWEST ANNUAL MEAN	--		--		45.5	2002
HIGHEST DAILY MEAN	372	May 31	1,300	Jun 1	1,360	Jun 25, 1983
LOWEST DAILY MEAN	11	Sep 5,6	11 ^e	Feb 6,7	9.5	Dec 31, 1968
ANNUAL SEVEN-DAY MINIMUM	12	Sep 1	12	Feb 2	10	Mar 8, 1969
MAXIMUM PEAK FLOW	--		1,530	Jun 1	1,680 ^a	Jun 13, 1965
MAXIMUM PEAK STAGE	--		5.04	Jun 1	5.04 ^b	Jun 1, 2003
ANNUAL RUNOFF (AC-FT)	32,710		73,830		80,100	
10 PERCENT EXCEEDS	120		374		370	
50 PERCENT EXCEEDS	17		22		28	
90 PERCENT EXCEEDS	14		13		16	

a About June 13, 1965; from slope area measurement of peak flow, gage height not determined.

b Highest recorded.

e Estimated.



06625000 ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY

LOCATION.--Lat 41° 18' 12", long 106° 42' 53", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.15 N., R.83 W., Carbon County, Hydrologic Unit 10180002, on left bank 0.5 mi upstream from mouth and 8.0 mi northeast of Encampment.

DRAINAGE AREA.--265 mi².

PERIOD OF RECORD.--April 1940 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1710: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,970 ft above NGVD of 1929, from topographic map. Prior to June 28, 1961, water-stage recorder at site 660 ft upstream at datum 2.00 ft higher. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Five small reservoirs upstream from station for irrigation, total capacity, about 400 acre-ft. Slight regulation by Hog Park Creek Reservoir, capacity, about 2,970 acre-ft. Diversions for irrigation of about 8,800 acres upstream from station. Transbasin diversion upstream from station into Hog Park Creek (tributary to Encampment River) from North Fork Little Snake River for municipal, industrial, and irrigation uses began September 1964.

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	46	74	91	e57	70	e68	102	292	2,450	289	16	29
2	49	79	93	e58	66	e66	114	236	2,260	261	15	31
3	94	71	86	e63	e64	67	116	214	1,850	236	15	29
4	104	92	89	e68	e62	63	114	222	1,630	208	15	25
5	96	86	86	e69	e61	69	111	186	1,380	189	15	25
6	95	87	e85	e64	e59	61	110	157	1,200	176	16	30
7	82	84	e81	e63	e57	67	108	148	1,150	165	15	35
8	57	87	e78	e67	e56	62	104	146	993	131	14	31
9	56	92	e77	e62	e58	62	114	142	1,040	59	14	36
10	54	81	e75	e60	e61	66	124	143	1,100	59	14	39
11	54	80	e69	e67	e65	72	142	129	1,220	62	25	52
12	55	83	e66	e74	e70	77	159	119	1,030	55	30	58
13	51	82	e69	e75	e73	80	170	138	941	51	26	51
14	49	86	e71	e78	e76	83	204	207	950	47	25	44
15	47	87	75	e76	e75	83	243	309	926	41	21	41
16	49	95	e76	e70	e74	81	227	424	893	36	23	35
17	50	85	70	e67	e74	81	219	584	803	29	34	37
18	49	85	e63	e66	e70	69	209	797	753	31	47	50
19	48	86	e57	e67	e66	62	195	887	718	41	47	64
20	51	90	e55	e71	e66	68	181	871	724	42	35	61
21	51	89	e59	e71	e67	79	187	915	673	35	28	46
22	55	88	e59	e70	e68	78	228	997	602	30	25	43
23	65	92	e57	e69	e66	80	240	1,080	557	25	30	63
24	72	92	e55	e68	e62	93	212	1,290	495	21	37	79
25	72	82	e56	69	e64	99	196	1,420	505	21	39	78
26	67	e63	e54	67	e68	105	217	1,440	412	19	35	79
27	64	e63	e56	66	e70	101	256	1,650	360	21	33	79
28	64	e73	e58	69	e72	95	282	1,890	332	19	29	79
29	68	e85	e63	68	---	103	329	1,960	320	19	26	81
30	61	e91	e61	64	---	98	361	2,140	310	18	27	81
31	72	---	e55	67	---	97	---	2,300	---	17	28	---
TOTAL	1,947	2,510	2,145	2,090	1,860	2,435	5,574	23,433	28,577	2,453	799	1,511
MEAN	62.8	83.7	69.2	67.4	66.4	78.5	186	756	953	79.1	25.8	50.4
MAX	104	95	93	78	76	105	361	2,300	2,450	289	47	81
MIN	46	63	54	57	56	61	102	119	310	17	14	25
AC-FT	3,860	4,980	4,250	4,150	3,690	4,830	11,060	46,480	56,680	4,870	1,580	3,000

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

	78.7	78.9	69.6	62.2	63.1	71.3	150	762	1,164	276	66.5	55.3
MEAN												
MAX	167	156	131	122	115	117	352	1,258	2,029	942	178	174
(WY)	(1998)	(1998)	(1998)	(1998)	(1962)	(1989)	(1962)	(1952)	(1971)	(1995)	(1982)	(1997)
MIN	29.4	42.6	49.2	34.2	35.8	44.5	71.3	209	162	23.1	19.7	14.2
(WY)	(1980)	(1977)	(1964)	(1963)	(1955)	(1964)	(1944)	(2002)	(2002)	(2002)	(2002)	(1954)

06625000 ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY—Continued

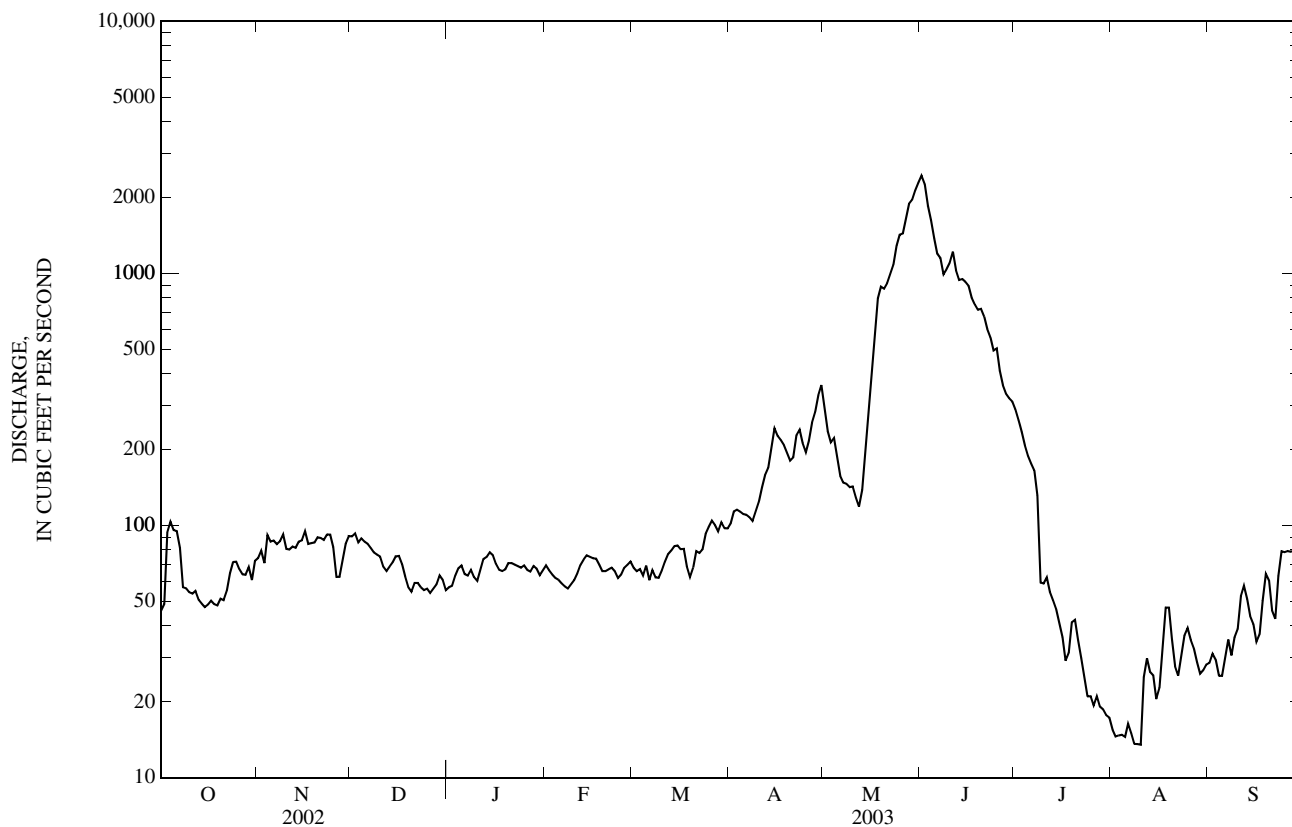
SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1941 - 2003	
ANNUAL TOTAL	30,351		75,334		--	
ANNUAL MEAN	83.2		206		241	
HIGHEST ANNUAL MEAN	--		--		375	
LOWEST ANNUAL MEAN	--		--		83.4	
HIGHEST DAILY MEAN	489	May 31	2,450	Jun 1	3,640	Jun 4, 1952
LOWEST DAILY MEAN	12	Sep 4-7	14	Aug 8-10	8 ^a	Sep 1, 1954
ANNUAL SEVEN-DAY MINIMUM	13	Sep 1	15	Aug 4	8.9	Aug 28, 1954
MAXIMUM PEAK FLOW	--		2,740	Jun 2	4,510 ^b	Jun 1, 1943
MAXIMUM PEAK STAGE	--		6.14	Jun 2	10.33 ^c	Jun 4, 1952
ANNUAL RUNOFF (AC-FT)	60,200		149,400		174,900	
10 PERCENT EXCEEDS	167		591		775	
50 PERCENT EXCEEDS	63		71		75	
90 PERCENT EXCEEDS	20		30		41	

a Minimum daily discharge for period of record, 5.2 ft³/s, Aug. 15, 16, 1940.

b Gage height, 10.25 ft, present datum.

c Present datum.

e Estimated.



06627800 JACK CREEK ABOVE COYOTE DRAW, NEAR SARATOGA, WY

LOCATION.--Lat 41°26'21", long 106°58'16", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.21, T.17 N., R.85 W., Carbon County, Hydrologic Unit 10180002, on left bank 1.2 mi upstream from Coyote Draw and Blydenburg and Morgan Ditches, 2.0 mi downstream from Gartman Creek, and 8.2 mi west of Saratoga.

DRAINAGE AREA.-- 109 mi².

PERIOD OF RECORD.--April 1990 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 7,050 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Diversions for irrigation of about 2,000 acres upstream from station.

COOPERATION.--Station operated and record provided by Office of the Wyoming State Engineer; record reviewed by 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	---	---	---	---	---	---	16	45	126	28	2.0	1.3
2	---	---	---	---	---	---	19	38	110	26	1.9	1.3
3	---	---	---	---	---	---	21	40	91	24	1.8	1.2
4	---	---	---	---	---	---	17	48	80	22	1.8	1.3
5	---	---	---	---	---	---	16	51	77	20	1.6	1.2
6	---	---	---	---	---	---	16	41	63	18	1.4	1.2
7	---	---	---	---	---	---	15	39	62	17	1.2	1.4
8	---	---	---	---	---	---	15	52	50	16	1.1	1.5
9	---	---	---	---	---	---	14	55	46	13	1.1	2.3
10	---	---	---	---	---	---	15	56	58	12	1.0	2.5
11	---	---	---	---	---	---	19	46	64	11	1.00	5.2
12	---	---	---	---	---	---	24	40	71	9.9	1.0	4.5
13	---	---	---	---	---	---	28	50	68	9.1	1.4	2.9
14	---	---	---	---	---	---	34	67	63	7.4	1.5	2.4
15	---	---	---	---	---	---	40	84	60	6.4	1.1	2.1
16	---	---	---	---	---	---	34	84	63	6.2	0.88	1.7
17	---	---	---	---	---	---	29	100	63	6.4	0.91	1.8
18	---	---	---	---	---	---	31	113	62	6.0	1.2	3.6
19	---	---	---	---	---	---	27	122	60	5.9	1.6	3.8
20	---	---	---	---	---	---	22	90	60	5.8	1.4	2.0
21	---	---	---	---	---	---	20	83	58	5.9	1.1	2.1
22	---	---	---	---	---	---	25	91	56	5.0	1.1	2.1
23	---	---	---	---	---	---	31	100	52	4.3	1.0	1.9
24	---	---	---	---	---	---	38	117	47	3.8	1.4	1.7
25	---	---	---	---	---	---	36	119	54	3.4	1.6	1.5
26	---	---	---	---	---	16	37	125	42	3.4	1.3	1.4
27	---	---	---	---	---	14	45	132	35	3.6	1.2	1.2
28	---	---	---	---	---	13	47	124	31	3.4	1.0	1.0
29	---	---	---	---	---	15	49	124	30	3.1	0.95	1.3
30	---	---	---	---	---	14	53	126	29	2.7	0.99	1.6
31	---	---	---	---	---	14	---	130	---	2.4	1.1	---
TOTAL	---	---	---	---	---	---	833	2,532	1,831	311.1	39.63	61.0
MEAN	---	---	---	---	---	---	27.8	81.7	61.0	10.0	1.28	2.03
MAX	---	---	---	---	---	---	53	132	126	28	2.0	5.2
MIN	---	---	---	---	---	---	14	38	29	2.4	0.88	1.0
AC-FT	---	---	---	---	---	---	1,650	5,020	3,630	617	79	121

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY)*

MEAN	---	---	---	---	---	---	29.5	98.8	89.1	22.5	6.25	5.23
MAX	---	---	---	---	---	---	44.0	175	230	84.0	14.0	10.9
(WY)	---	---	---	---	---	---	(1997)	(1997)	(1995)	(1995)	(1995)	(1997)
MIN	---	---	---	---	---	---	15.6	33.5	24.9	2.94	0.40	1.90
(WY)	---	---	---	---	---	---	(1991)	(2002)	(2002)	(2002)	(2002)	(2002)

06627800 JACK CREEK ABOVE COYOTE DRAW, NEAR SARATOGA, WY—Continued

SUMMARY STATISTICS

FOR 2003 WATER YEAR*

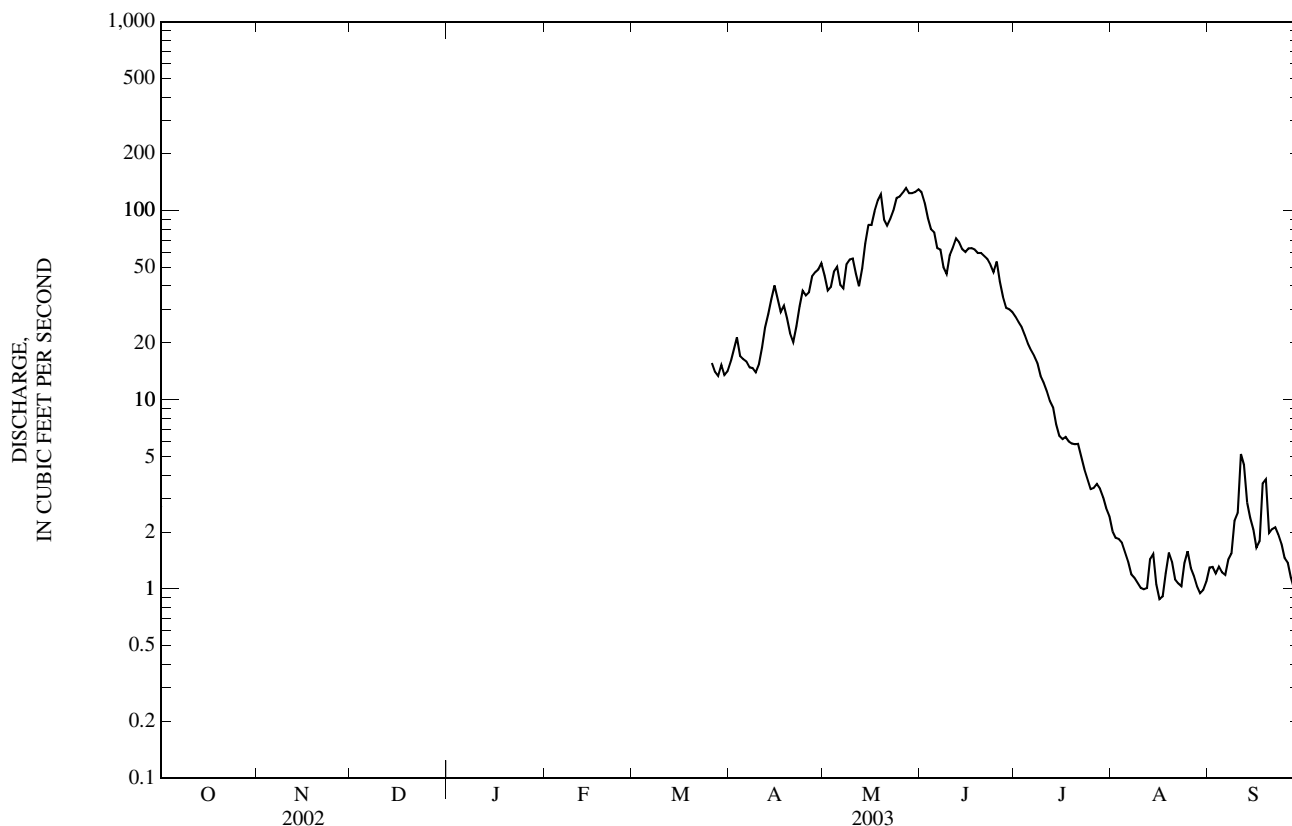
WATER YEARS 1990 - 2003*

HIGHEST DAILY MEAN
 LOWEST DAILY MEAN
 MAXIMUM PEAK FLOW
 MAXIMUM PEAK STAGE

132 May 27
 0.88 Aug 16
 148 May 27
 5.29 May 27

379 Jan 9, 1995
 0.00 Aug 17-29,
 2002
 461^a Jun 9, 1993
 7.22 Jun 9, 1995

* For period of operation.

^a Gage height, 7.08 ft.

06628900 PASS CREEK NEAR ELK MOUNTAIN, WY

LOCATION.--Lat 41° 35' 12", long 106° 36' 40", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 19 N., R. 82 W., Carbon County, Hydrologic Unit 10180002, on right bank 500 ft upstream from bridge on county road, 700 ft upstream from Brush Creek, 12 mi southwest of town of Elk Mountain, and 14 mi northeast of Saratoga.

DRAINAGE AREA.--91.5 mi². Area at mouth, 279 mi².

PERIOD OF RECORD.--April 1957 to current year (no winter records since 1992).

GAGE.--Water-stage recorder. Elevation of gage is 7,230 ft above NGVD of 1929, from topographic map. April 18, 1957 to October 6, 1966, 274 ft upstream at datum 6.00 ft higher. October 7, 1966 to September 23, 1987, at site 289 ft upstream at datum 6.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 6,300 acres upstream from station. Diversion to Kerr Ditch 7.5 mi upstream.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by U.S. Geological Survey.

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

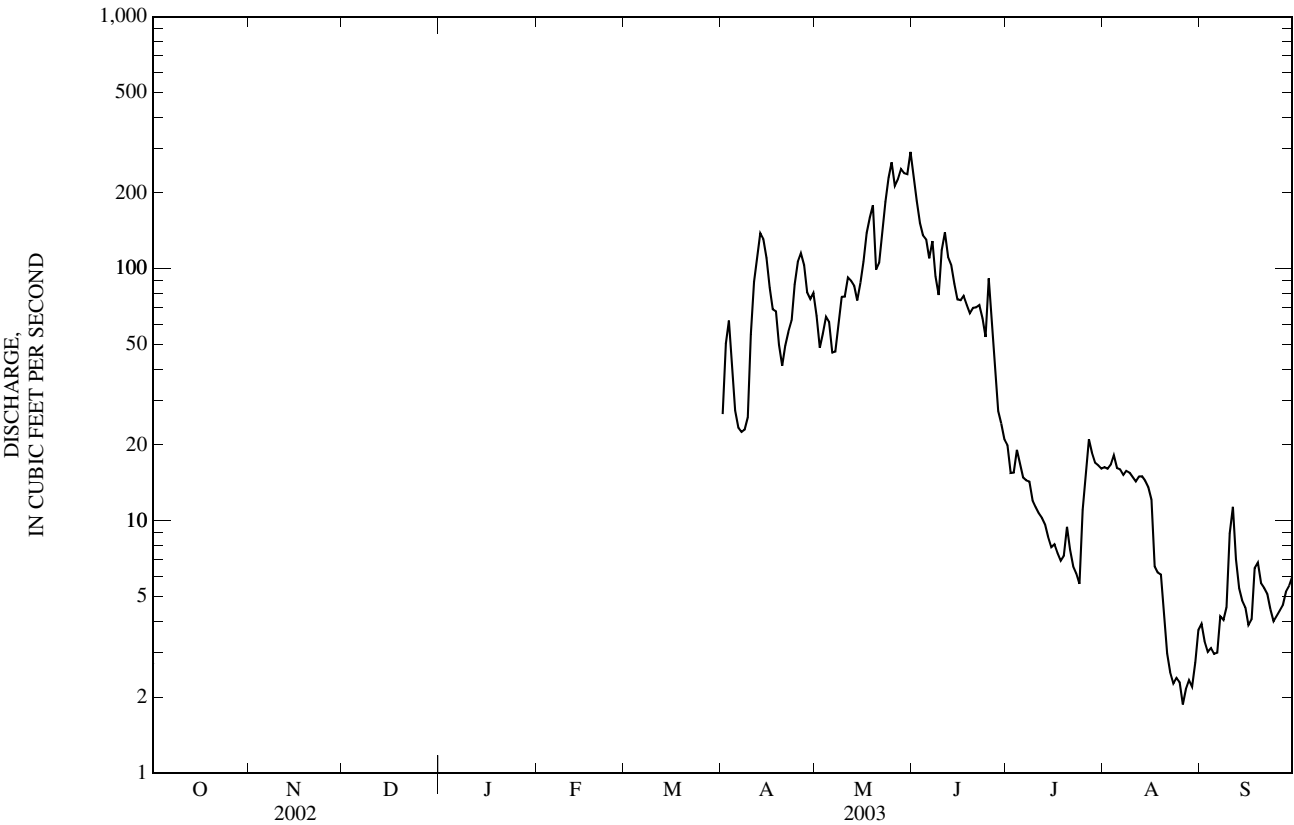
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	27	65	235	20	16	3.9
2	---	---	---	---	---	---	51	49	186	15	16	3.3
3	---	---	---	---	---	---	e62	55	152	16	17	3.0
4	---	---	---	---	---	---	e41	64	136	19	18	3.1
5	---	---	---	---	---	---	e27	62	131	17	16	3.0
6	---	---	---	---	---	---	e23	47	110	15	16	3.0
7	---	---	---	---	---	---	e23	47	129	14	15	4.2
8	---	---	---	---	---	---	e23	60	93	14	16	4.0
9	---	---	---	---	---	---	26	77	79	12	16	4.5
10	---	---	---	---	---	---	55	78	119	11	15	8.9
11	---	---	---	---	---	---	89	92	139	11	14	11
12	---	---	---	---	---	---	109	90	111	10	15	7.1
13	---	---	---	---	---	---	138	86	104	9.7	15	5.4
14	---	---	---	---	---	---	131	75	87	8.6	14	4.8
15	---	---	---	---	---	---	110	88	76	7.9	14	4.5
16	---	---	---	---	---	---	84	107	75	8.1	12	3.9
17	---	---	---	---	---	---	69	139	78	7.5	6.6	4.1
18	---	---	---	---	---	---	68	160	72	7.0	6.2	6.5
19	---	---	---	---	---	---	50	179	67	7.3	6.1	6.8
20	---	---	---	---	---	---	41	99	70	9.5	4.2	5.7
21	---	---	---	---	---	---	50	106	70	7.7	3.0	5.4
22	---	---	---	---	---	---	56	138	72	6.6	2.5	5.1
23	---	---	---	---	---	---	62	184	64	6.2	2.3	4.5
24	---	---	---	---	---	---	87	230	54	5.6	2.4	4.0
25	---	---	---	---	---	---	107	264	92	11	2.3	4.2
26	---	---	---	---	---	---	115	213	60	15	1.9	4.4
27	---	---	---	---	---	---	103	227	41	21	2.1	4.6
28	---	---	---	---	---	---	81	248	27	19	2.3	5.3
29	---	---	---	---	---	---	76	239	24	17	2.2	5.5
30	---	---	---	---	---	---	80	237	21	17	2.8	6.0
31	---	---	---	---	---	---	---	291	---	16	3.7	---
TOTAL	---	---	---	---	---	---	2,064	4,096	2,774	381.7	295.6	149.7
MEAN	---	---	---	---	---	---	68.8	132	92.5	12.3	9.54	4.99
MAX	---	---	---	---	---	---	138	291	235	21	18	11
MIN	---	---	---	---	---	---	23	47	21	5.6	1.9	3.0
AC-FT	---	---	---	---	---	---	4,090	8,120	5,500	757	586	297

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2003, BY WATER YEAR (WY)*

MEAN	12.1	11.8	10.2	9.56	10.2	18.1	64.4	174	127	29.4	12.3	9.89
MAX	20.5	24.9	17.6	15.3	23.6	44.5	151	540	360	85.9	31.9	23.8
(WY)	(1971)	(1974)	(1974)	(1984)	(1962)	(1960)	(1971)	(1984)	(1983)	(1983)	(1983)	(1982)
MIN	4.98	5.20	6.87	5.43	4.37	7.31	14.8	24.9	28.6	2.39	1.44	3.37
(WY)	(1964)	(1978)	(1978)	(1981)	(1982)	(1965)	(1966)	(2002)	(2002)	(2002)	(2002)	(1977)

SUMMARY STATISTICS	FOR 2003 WATER YEAR*		WATER YEARS 1957 -2 003*	
ANNUAL MEAN	--		41.12	
HIGHEST ANNUAL MEAN	--		86.4	1984
LOWEST ANNUAL MEAN	--		20.2	1959
HIGHEST DAILY MEAN	291	May 31	1,780	May 12, 1984
LOWEST DAILY MEAN	1.9	Aug 26	0.29	Aug 20, 2002
MAXIMUM PEAK FLOW	368	May 31	4,660 ^a	May 12, 1984
MAXIMUM PEAK STAGE	7.11	May 31	9.12 ^b	May 12, 1984
ANNUAL RUNOFF (AC-FT)	--		29,790	

* For period of operation.
a From rating curve extended above 1,600 ft³/s on basis of slope-area measurement of peak flow.
b From floodmarks, site and datum then in use.
c Estimated.



06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WY

LOCATION.--Lat 41° 52'20", long 107° 03'25", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.22 N., R.86 W., Carbon County, Hydrologic Unit 10180002, on left bank 6.5 mi northeast of Sinclair and 14 mi upstream from high-water line of Seminoe Reservoir at elevation 6,357 ft.

DRAINAGE AREA.--4,175 mi², of which 114 mi² probably is non-contributing.

PERIOD OF RECORD.--July 1939 to current year. Prior to October 1943, published as "near Parco."

REVISED RECORDS.--WDR-76-1: Drainage area.

GAGE.--Water-stage recorder. Sharp-crested weir since March 25, 1993. Datum of gage is 6,400.75 ft above NGVD of 1929. Wyoming State Engineer's Office data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 215,000 acres upstream from station. Transbasin diversions upstream from 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	86	e190	e300	e230	e290	e240	542	1,280	7,730	1,340	343	190
2	100	e210	e270	e250	e260	e250	632	1,080	8,350	1,250	348	197
3	131	e200	e250	e270	e240	e260	822	928	8,040	1,120	330	190
4	139	e190	e270	e250	e230	e250	895	826	7,570	1,010	312	189
5	232	e210	e250	e250	e220	e230	823	799	6,560	929	296	183
6	231	e220	e230	e230	e200	e260	749	742	5,280	857	275	182
7	237	e250	e220	e200	e220	e300	719	663	4,590	776	258	185
8	235	e230	e210	e250	e230	e320	651	643	4,180	720	247	201
9	216	e250	e200	e190	e250	e330	567	684	3,740	668	237	208
10	198	e260	e190	e240	e270	e320	560	760	3,560	576	225	222
11	191	e260	e190	e250	e250	e310	597	840	3,720	530	215	244
12	183	e240	e210	e240	e260	e330	728	838	4,080	511	209	253
13	176	e250	e220	e260	e270	e360	878	749	4,170	527	213	268
14	177	e260	e240	e290	e260	e380	969	770	4,250	507	200	255
15	174	e240	e250	e260	e250	e370	1,060	831	4,000	485	183	235
16	170	e250	e250	e220	e260	e360	1,210	975	3,650	455	184	213
17	167	e250	e260	e220	e250	e350	1,200	1,150	3,530	433	163	204
18	165	e250	e200	e230	e240	e340	1,050	1,610	3,350	409	183	206
19	169	e250	e140	e250	e240	e340	1,010	2,110	3,240	416	218	229
20	167	e260	e140	e280	e240	e400	872	2,330	3,160	430	258	251
21	165	e260	e170	e270	e250	452	782	2,290	3,320	503	266	245
22	167	e260	e220	e250	e240	477	716	2,330	3,230	539	251	231
23	170	e270	e230	e240	e220	541	772	2,470	2,950	482	224	212
24	187	e280	e210	e230	e180	592	869	2,840	2,570	425	209	211
25	200	e280	e180	e220	e220	734	938	3,280	2,430	379	210	212
26	205	e270	e190	e250	e250	748	911	3,590	2,380	395	216	209
27	202	e240	e200	e290	e260	776	1,000	4,030	2,160	399	210	206
28	200	e190	e250	e250	e250	744	1,060	4,810	1,890	403	203	205
29	209	e220	e300	e230	---	602	1,170	5,530	1,640	370	197	205
30	e200	e250	e250	e250	---	517	1,290	6,060	1,460	394	196	199
31	e160	---	e240	e260	---	564	---	6,580	---	373	186	---
TOTAL	5,609	7,240	6,930	7,600	6,800	13,047	26,042	64,418	120,780	18,611	7,265	6,440
MEAN	181	241	224	245	243	421	868	2,078	4,026	600	234	215
MAX	237	280	300	290	290	776	1,290	6,580	8,350	1,340	348	268
MIN	86	190	140	190	180	230	542	643	1,460	370	163	182
AC-FT	11,130	14,360	13,750	15,070	13,490	25,880	51,650	127,800	239,600	36,910	14,410	12,770

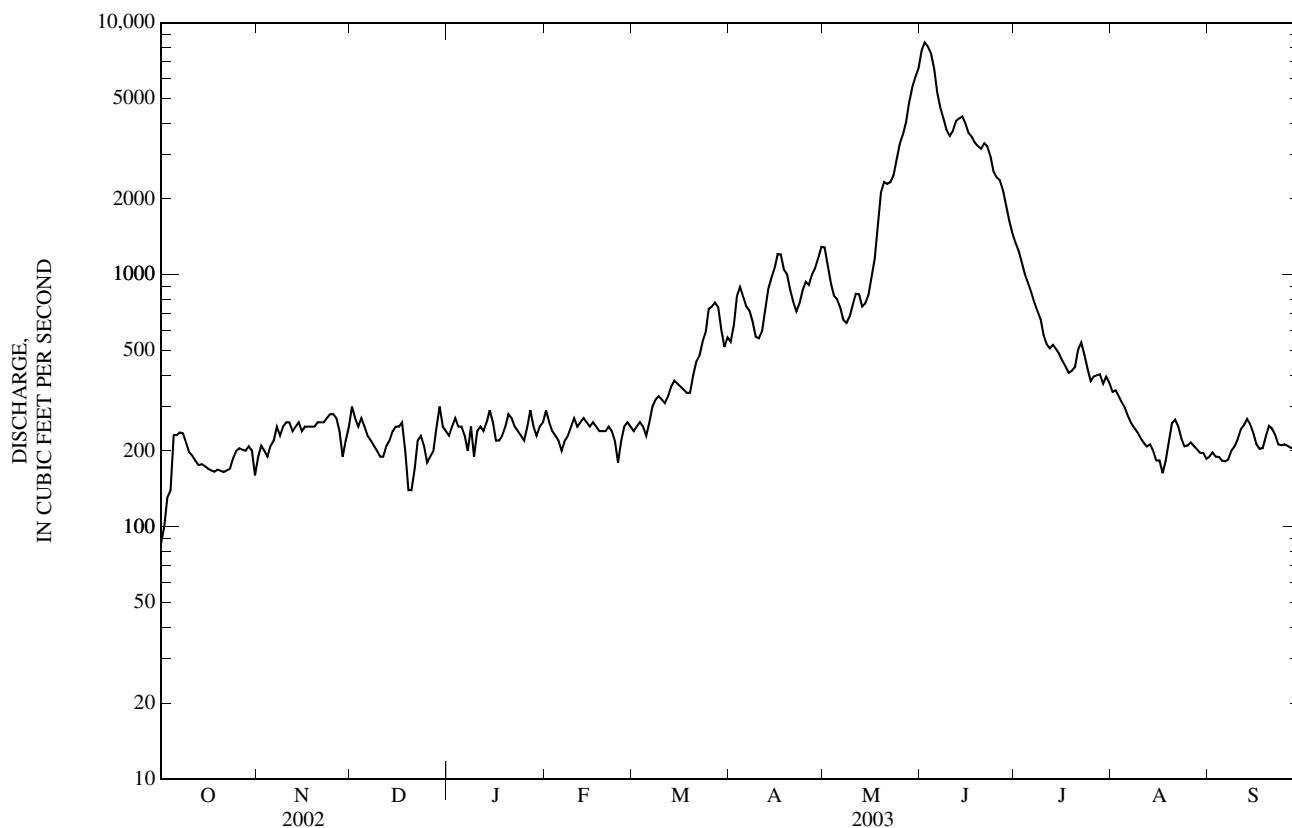
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

	MEAN	408	424	349	316	345	548	1,398	3,103	4,312	1,379	491	309
MAX	1,036	745	562	515	654	1,190	4,390	8,568	9,999	5,256	1,484	1,198	
(WY)	(1966)	(1966)	(1998)	(1998)	(1996)	(1986)	(1962)	(1984)	(1983)	(1983)	(1983)	(1997)	
MIN	157	240	224	181	191	205	492	384	471	107	67.9	59.7	
(WY)	(1957)	(1953)	(2003)	(1963)	(2002)	(1964)	(1995)	(2002)	(2002)	(2002)	(2002)	(2002)	

06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL TOTAL	94,571		290,782		--	
ANNUAL MEAN	259		797		1,118	
HIGHEST ANNUAL MEAN	--		--		2,169	1984
LOWEST ANNUAL MEAN	--		--		270	2002
HIGHEST DAILY MEAN	1,080	Apr 7	8,350	Jun 2	14,800	Jun 11, 1986
LOWEST DAILY MEAN	37	Sep 9	86	Oct 1	37	Sep 9, 2002
ANNUAL SEVEN-DAY MINIMUM	39	Sep 5	165	Oct 1	39	Sep 5, 2002
MAXIMUM PEAK FLOW	--		8,610	Jun 2	16,200	Jun 11, 1986
MAXIMUM PEAK STAGE	--		8.22	Jun 2	11.30	Jun 11, 1986
INSTANTANEOUS LOW FLOW	--		--		70	Sep 17, 1944
ANNUAL RUNOFF (AC-FT)	187,600		576,800		809,700	
10 PERCENT EXCEEDS	532		2,330		3,110	
50 PERCENT EXCEEDS	209		260		440	
90 PERCENT EXCEEDS	66		190		225	

e Estimated.



06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WY

LOCATION.--Lat 41°35'07", long 106°13'20", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, T.19 N., R.79 W., Carbon County, Hydrologic Unit 10180004, on left bank 200 ft upstream from point of diversion to King Canyon Canal, 0.4 mi downstream from Overland Creek, 1.0 mi southwest of Arlington, and 6.9 mi southwest of McFadden.

DRAINAGE AREA.--62.9 mi².

PERIOD OF RECORD.--October 1955 to current year. Prior to 1965, includes records for 06632500 Rock Creek at Arlington, adjusted for diversion by King Canyon Canal.

REVISED RECORDS.--WDR WY-86: 1985(m). WDR WY-87: 1985.

GAGE.--Water-stage recorder. Elevation of gage is 7,790 ft above NGVD of 1929, from topographic map. October 1955 to September 1965, records from 06625000, Rock Creek at Arlington, collected at non-equivalent site 500 ft downstream (see PERIOD OF RECORD). U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minor regulation by Sand Lake, capacity, 1,100 acre-ft, on Deep Creek, 12 mi upstream. No diversion upstream from 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	7.0	e7.2	8.3	e7.5	8.0	7.1	10	32	1,120	184	22	13
2	7.7	e7.2	8.3	e7.1	e8.4	e7.0	12	29	874	171	22	12
3	11	e7.4	e8.1	e7.1	e8.2	e7.2	12	31	711	156	22	12
4	11	e7.6	8.1	7.1	e8.0	7.3	e10	34	555	142	34	14
5	11	e8.2	e8.0	7.0	e7.8	e7.0	e9.2	35	416	131	24	12
6	11	8.6	e7.8	e7.1	e7.4	e7.1	e9.1	33	338	116	21	12
7	11	8.4	e7.6	e7.1	e6.8	e7.1	e8.8	33	302	106	20	12
8	11	8.4	e7.4	7.2	e6.6	7.2	e8.5	33	280	102	19	12
9	11	8.7	7.5	e7.2	e6.9	7.1	e10	32	394	93	18	15
10	9.8	e8.2	e7.7	e6.9	e7.1	7.2	e13	30	591	75	18	17
11	9.4	e8.0	e7.8	e6.9	e7.4	7.4	18	29	572	63	17	21
12	8.8	e7.3	8.1	e7.0	e7.5	7.6	e20	30	462	56	18	18
13	7.1	8.7	7.8	e7.0	e8.2	8.0	21	39	480	52	17	16
14	8.6	8.5	7.6	7.1	e8.6	8.9	25	49	467	48	16	14
15	7.7	7.5	7.6	e7.0	e8.4	e9.6	27	67	463	45	15	13
16	8.4	e7.4	e7.8	e6.8	7.8	10	24	89	462	43	16	12
17	7.6	8.1	7.5	e6.8	7.6	e11	22	128	402	41	21	13
18	7.7	e8.2	e7.5	e7.0	7.6	e10	22	168	470	41	19	16
19	6.9	e8.0	e7.4	e7.4	7.3	e8.5	20	168	448	40	18	16
20	7.0	e7.8	e7.4	e7.8	7.4	e7.6	19	148	391	51	16	18
21	7.2	8.3	e7.4	e7.9	7.3	e7.8	18	178	339	41	14	16
22	6.7	8.2	e7.4	7.3	7.4	e8.4	19	247	303	36	14	13
23	9.5	8.3	e7.3	7.3	7.5	e9.2	19	340	282	32	14	12
24	9.3	e8.1	e7.3	7.3	7.6	e9.2	20	433	288	30	14	11
25	9.4	e7.3	e7.5	7.5	7.5	e8.5	23	445	305	28	18	10
26	7.7	e6.8	e7.5	7.1	7.4	e8.5	31	539	228	29	15	9.8
27	10	e7.8	e7.5	7.2	7.3	e8.8	37	753	212	40	14	9.8
28	7.8	8.2	e7.7	7.5	7.1	e8.4	35	835	215	31	12	9.8
29	e9.6	8.1	e7.8	e7.2	---	e7.7	36	964	211	28	12	9.9
30	e8.2	8.2	e7.7	e7.2	---	e7.9	35	1,200	200	26	15	9.9
31	e7.4	---	e7.4	7.7	---	8.1	---	1,460	---	24	15	---
TOTAL	273.5	238.7	237.8	223.3	212.1	252.4	593.6	8,631	12,781	2,101	550	399.2
MEAN	8.82	7.96	7.67	7.20	7.58	8.14	19.8	278	426	67.8	17.7	13.3
MAX	11	8.7	8.3	7.9	8.6	11	37	1,460	1,120	184	34	21
MIN	6.7	6.8	7.3	6.8	6.6	7.0	8.5	29	200	24	12	9.8
AC-FT	542	473	472	443	421	501	1,180	17,120	25,350	4,170	1,090	792

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

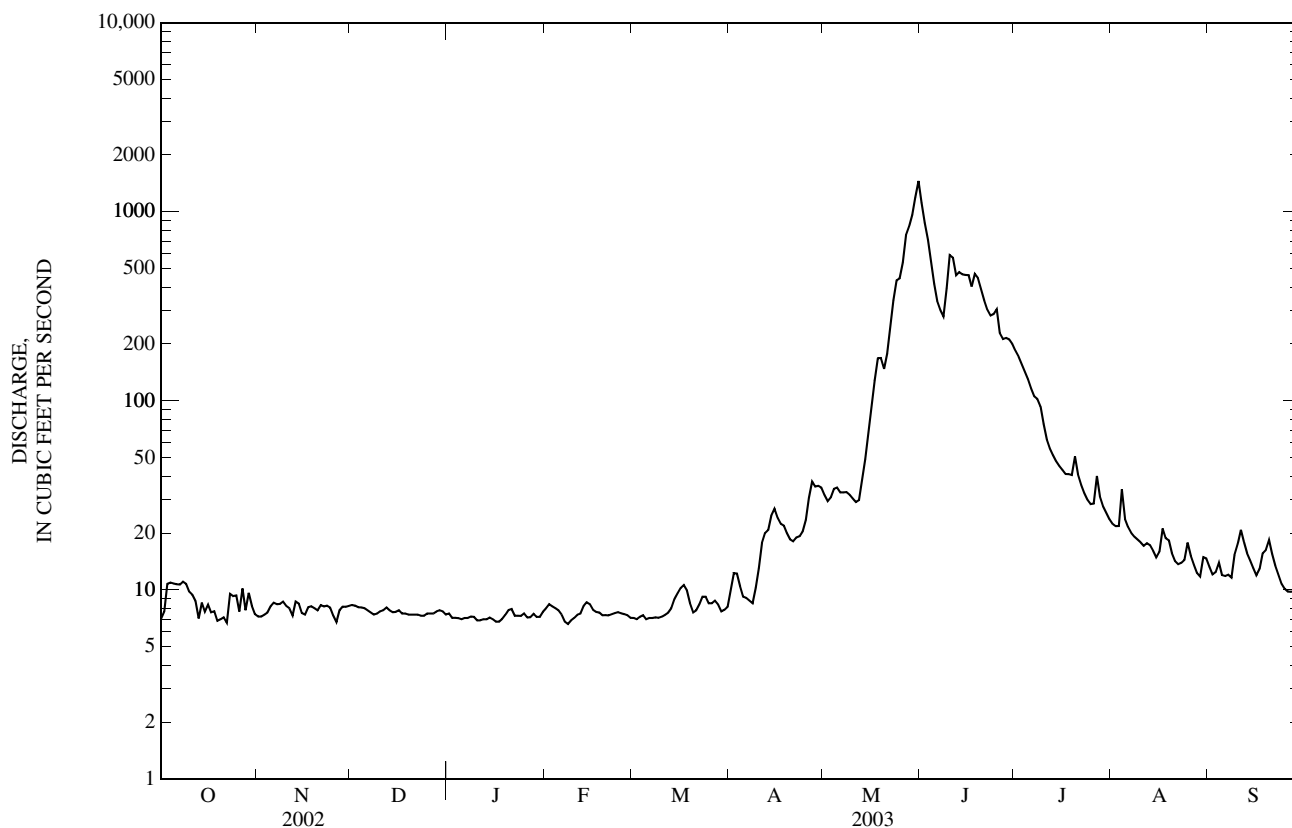
	MEAN	15.7	12.7	11.0	10.1	9.86	9.97	22.2	228	477	118	28.8	19.9
MAX		40.0	23.3	18.8	15.3	17.0	15.6	56.4	409	1,024	420	66.9	40.1
(WY)		(1983)	(1999)	(1973)	(1966)	(1974)	(1979)	(1962)	(1974)	(1971)	(1982)	(1982)	(1971)
MIN		7.71	5.65	6.64	6.01	5.56	6.65	10.9	59.3	141	21.3	9.39	7.19
(WY)		(1957)	(1955)	(1955)	(1955)	(1955)	(1955)	(1995)	(1968)	(2002)	(2002)	(2002)	(2002)

06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1955 - 2003	
ANNUAL TOTAL	11,162.9		26,493.6		--	
ANNUAL MEAN	30.6		72.6		80.3	
HIGHEST ANNUAL MEAN	--		--		142	
LOWEST ANNUAL MEAN	--		--		31.0	
HIGHEST DAILY MEAN	364	May 31	1,460	May 31	1,690	Jun 19, 1971
LOWEST DAILY MEAN	5.1	Sep 5	6.6 ^e	Feb 8	3.8	Nov 1, 1963
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 1	6.9	Jan 11	4.4	Nov 26, 1954
MAXIMUM PEAK FLOW	--		2,110	May 30	2,590 ^a	Jun 19, 1971
MAXIMUM PEAK STAGE	--		5.59	May 30	5.92	Jun 24, 1983
ANNUAL RUNOFF (AC-FT)	22,140		52,550		58,160	
10 PERCENT EXCEEDS	85		220		260	
50 PERCENT EXCEEDS	8.4		10		15	
90 PERCENT EXCEEDS	6.6		7.2		8.0	

a Gage height, 5.83 ft.

e Estimated.



06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY

LOCATION.--Lat 41° 57' 40", long 106° 12' 31", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.23 N., R.78 W., Carbon County, Hydrologic Unit 10180005, on right bank 50 ft downstream from Boles Spring, 3.9 mi downstream from State Highway 487, 4.3 mi north of Medicine Bow, and 8.7 mi downstream from Muddy Creek.

DRAINAGE AREA.--969 mi².

PERIOD OF RECORD.--October 1973 to current year. Records for October 1973 to September 1984 at site 5.5 mi upstream published as "near Medicine Bow" (station 06634600) do not include flow of Boles Spring. Discharge records considered equivalent except for low flow.

GAGE.--Water-stage recorder. Elevation of gage is 6,570 ft above NGVD of 1929, from topographic map. U.S. Geological Survey data collection platform with satellite telemetry at station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	2.0	e3.0	1.5	8.6	e6.5	40	165	67	20	0.53	0.23
2	3.7	1.9	e4.0	1.3	4.9	e5.6	42	193	78	15	0.51	0.23
3	4.9	1.4	e3.8	1.3	3.6	e6.0	37	207	63	13	0.53	0.22
4	7.1	1.1	e3.6	1.4	e2.5	e6.2	33	182	54	11	0.53	0.23
5	7.1	e1.0	e3.2	1.4	e1.8	e5.5	34	167	50	9.2	0.48	0.24
6	7.0	e1.4	e3.6	1.3	e1.4	e6.8	32	165	44	8.2	0.48	0.27
7	7.0	e2.0	e3.9	1.3	e1.0	e7.5	29	147	44	7.8	0.43	0.29
8	6.9	e3.0	e2.5	1.3	e1.5	e8.5	27	131	41	7.5	0.44	0.34
9	7.1	e5.0	e3.0	1.1	e1.4	e10	25	127	39	6.2	0.44	1.6
10	6.6	e3.0	e4.0	0.95	e1.6	e12	23	133	38	5.5	0.43	12
11	6.1	e3.4	e3.4	0.99	1.7	e14	21	117	33	5.1	0.39	43
12	5.7	e3.8	e2.9	1.0	2.0	e16	20	104	28	4.5	0.37	15
13	5.4	e4.5	e3.7	1.1	2.5	23	21	94	26	4.1	0.36	9.2
14	5.6	e3.6	e4.0	1.2	3.2	34	23	86	31	3.6	0.33	6.6
15	5.8	e3.0	e3.8	1.1	3.5	44	27	88	20	3.2	0.34	5.3
16	5.9	e2.5	e3.5	1.1	e3.0	53	34	96	19	2.9	0.35	4.5
17	5.5	e3.5	e3.0	0.93	e2.5	50	41	116	24	2.5	0.41	5.1
18	5.6	e2.5	e1.7	0.76	e2.8	7.1	43	147	23	2.1	0.40	7.6
19	5.5	e3.5	e3.0	0.73	e2.4	5.1	45	150	28	3.3	0.40	9.2
20	5.4	e4.0	3.4	0.83	e2.0	6.3	47	162	34	3.3	0.33	7.7
21	5.6	e4.5	3.4	0.95	e3.0	21	47	138	23	2.0	0.31	6.0
22	5.6	e5.0	3.0	1.1	e3.2	52	47	116	35	1.4	0.27	4.7
23	3.1	e3.5	2.4	1.2	e2.5	59	54	102	24	1.2	0.27	4.1
24	5.6	e2.5	2.1	e1.1	e2.0	66	78	94	18	1.0	0.25	3.9
25	5.8	e1.5	1.4	e1.3	e4.0	48	87	91	18	0.82	0.23	3.7
26	6.8	e2.5	0.92	2.0	e6.0	45	89	97	19	0.80	0.21	3.5
27	6.5	3.0	0.84	2.9	e7.0	38	112	110	15	1.7	0.22	3.3
28	6.4	2.7	1.1	4.1	e7.0	32	159	88	14	1.7	0.21	3.4
29	4.4	2.6	1.5	e3.0	---	26	171	75	19	1.1	0.24	3.2
30	2.8	e2.3	1.4	e3.2	---	27	166	67	35	0.82	0.73	3.0
31	2.5	---	1.3	6.5	---	34	---	72	---	0.68	0.59	---
TOTAL	172.4	86.2	86.36	49.94	88.6	775.1	1,654	3,827	1,004	151.22	12.01	167.65
MEAN	5.56	2.87	2.79	1.61	3.16	25.0	55.1	123	33.5	4.88	0.39	5.59
MAX	7.1	5.0	4.0	6.5	8.6	66	171	207	78	20	0.73	43
MIN	2.5	1.0	0.84	0.73	1.0	5.1	20	67	14	0.68	0.21	0.22
AC-FT	342	171	171	99	176	1,540	3,280	7,590	1,990	300	24	333

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

	MEAN	9.11	9.91	4.50	2.23	11.2	62.6	120	161	77.6	16.1	6.98	6.44
MAX	18.0	36.0	11.5	7.50	110	286	246	388	419	46.0	22.1	19.5	
(WY)	(1985)	(1999)	(1987)	(1997)	(1986)	(1997)	(1988)	(1995)	(1995)	(1995)	(1990)	(1985)	
MIN	3.51	2.87	1.11	0.56	0.48	8.96	28.5	21.2	4.90	1.38	0.39	0.89	
(WY)	(1997)	(2003)	(2001)	(2001)	(2001)	(2002)	(1992)	(1992)	(2002)	(2002)	(2003)	(1994)	

06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1985 - 2003	
ANNUAL TOTAL	4,456.82		8,074.48		--	
ANNUAL MEAN	12.2		22.1		40.7 ^a	
HIGHEST ANNUAL MEAN	--		--		90.1 1999	
LOWEST ANNUAL MEAN	--		--		12.7 1992	
HIGHEST DAILY MEAN	132	Apr 3	207	May 3	1,450	Mar 20, 1997
LOWEST DAILY MEAN	0.24	Aug 14	0.21	Aug 26, 28	0.12 ^b	Jan 24, 1998
ANNUAL SEVEN-DAY MINIMUM	0.28	Aug 10	0.23	Aug 23	0.16	Jan 23, 1998
MAXIMUM PEAK FLOW	--		216	May 3	9,500 ^c	May 17, 1978
MAXIMUM PEAK STAGE	--		3.03	May 3	14.10 ^d	May 17, 1978
ANNUAL RUNOFF (AC-FT)	8,840		16,020		29,510	
10 PERCENT EXCEEDS	45		76		122	
50 PERCENT EXCEEDS	2.9		4.4		8.1	
90 PERCENT EXCEEDS	0.62		0.53		1.3	

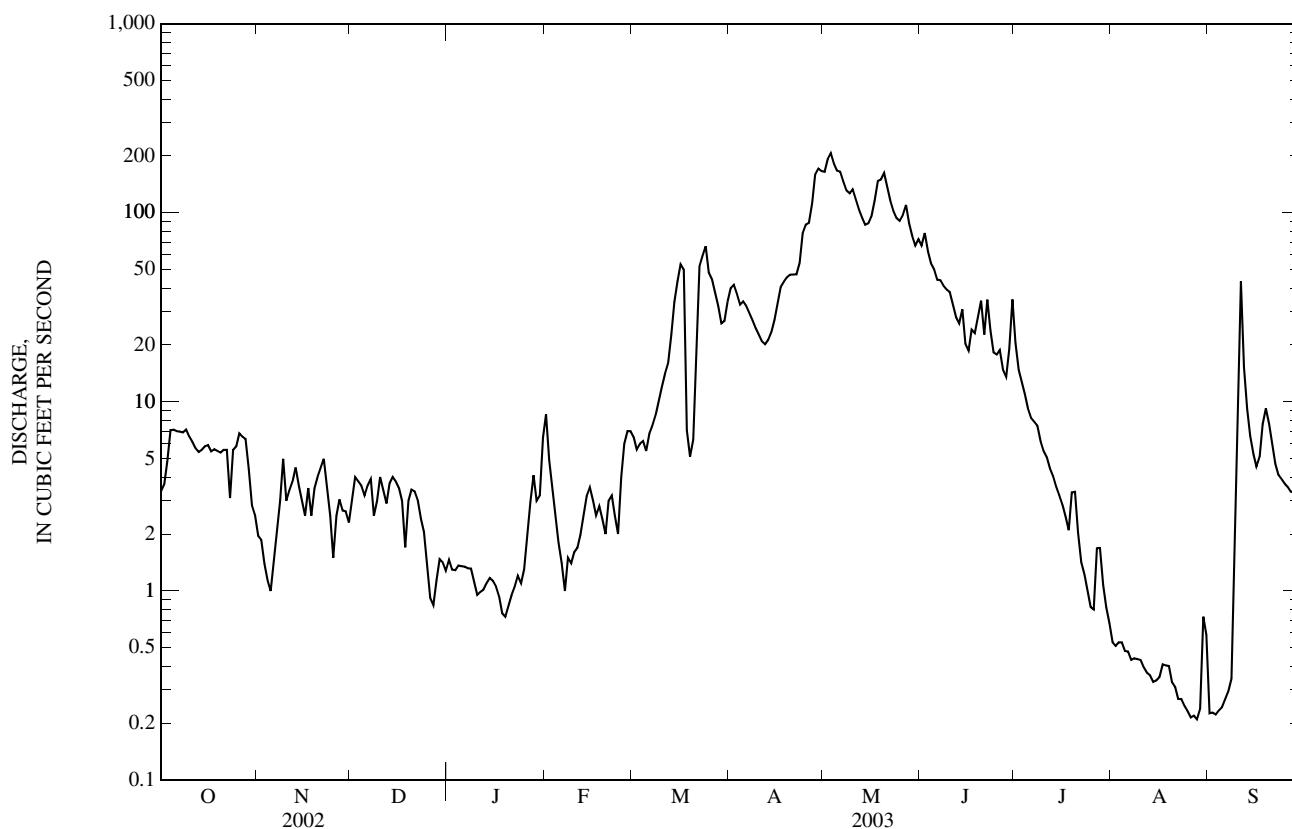
a Average discharge, water years 1974-2003, 49.7 ft³/s, unadjusted for flow from Boles Spring.

b No flow at times, water years 1974-1984, site and datum then in use.

c From slope-area measurement of peak flow.

d From floodmarks, site and datum then in use.

e Estimated.



06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WY

LOCATION.--Lat 42°00'35", long 106°30'45", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.24 N., R.81 W., Carbon County, Hydrologic Unit 10180004, on left bank 25 ft upstream from county highway bridge, 2.0 mi upstream from Troublesome Creek, 9.0 mi upstream from high-water line of Seminole Reservoir at elevation 6,357 ft, and 10 mi north of Hanna.

DRAINAGE AREA.--2,338 mi², of which 396 mi² probably is non-contributing.

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

REVISED RECORDS.--WSP 956: 1941(M), WSP 1440: 1940(M), 1941. WSP 1710: Drainage area. WDR WY-83-1: 1943.

GAGE.--Water-stage recorder. Concrete control since November 20, 1990. Datum of gage is 6,415.40 ft above NGVD of 1929. Wyoming State Engineer's Office data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Many small reservoirs upstream from station, total capacity, about 6,000 acre-ft, for irrigation. Diversions for irrigation of about 43,000 acres upstream from station.

COOPERATION.--Six discharge measurements provided by the Wyoming State Engineer's Office.

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	11	14	e24	e20	e28	e18	115	283	887	220	7.5	9.0
2	11	15	e24	e20	e19	e17	138	265	1,040	177	9.7	7.5
3	13	16	e23	e21	e15	e20	155	256	1,320	154	9.9	7.0
4	17	19	e25	e22	e17	e19	183	249	1,530	145	10	6.3
5	17	18	e25	e22	e14	e19	170	222	1,330	124	8.1	5.9
6	17	17	e25	e20	e14	e22	159	211	1,110	104	7.5	6.0
7	17	17	e22	e21	e12	e24	149	208	830	91	6.6	6.3
8	16	22	e21	e21	e17	e25	133	199	643	74	6.1	6.0
9	16	29	22	e20	e16	e27	119	178	511	64	5.6	6.4
10	15	15	22	e16	e17	e27	105	187	401	59	5.3	13
11	14	17	22	e19	e18	e29	100	197	345	52	5.2	20
12	14	24	22	e18	e18	e29	105	206	431	47	5.2	36
13	13	27	23	e20	e18	e28	122	233	524	40	5.0	25
14	14	31	24	e20	e22	e30	145	230	487	35	3.7	17
15	16	22	e23	e18	e20	e32	148	174	464	32	2.2	13
16	16	14	e21	e16	e18	e30	162	164	420	29	2.2	11
17	18	17	e22	e18	e20	e28	177	170	505	26	2.3	12
18	18	23	e21	e16	e17	e26	180	195	483	22	12	24
19	18	21	e20	e19	e16	29	171	271	429	21	14	28
20	18	25	e18	e20	e17	79	169	362	425	20	5.1	23
21	18	29	e21	e20	e19	144	160	388	454	18	4.2	19
22	18	30	e23	e21	e19	154	146	278	422	15	3.6	17
23	15	27	e16	e21	e16	155	152	247	405	12	3.6	17
24	19	24	e15	e19	e12	161	172	285	359	9.6	3.5	49
25	21	20	e17	e19	e15	169	263	379	381	8.1	3.3	34
26	24	e25	e16	e20	e15	156	359	471	411	9.3	3.3	23
27	22	e26	e21	e23	e18	160	338	489	474	10	2.8	21
28	21	e26	e20	e20	e18	152	358	534	373	10	2.6	20
29	17	e23	18	e19	---	133	361	618	317	9.7	2.8	18
30	14	e22	17	e21	---	119	322	676	260	8.9	6.3	17
31	13	---	e18	e22	---	115	---	811	---	8.2	38	---
TOTAL	511	655	651	612	485	2,176	5,536	9,636	17,971	1,654.8	207.2	517.4
MEAN	16.5	21.8	21.0	19.7	17.3	70.2	185	311	599	53.4	6.68	17.2
MAX	24	31	25	23	28	169	361	811	1,530	220	38	49
MIN	11	14	15	16	12	17	100	164	260	8.1	2.2	5.9
AC-FT	1,010	1,300	1,290	1,210	962	4,320	10,980	19,110	35,650	3,280	411	1,030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

MEAN	42.6	50.4	38.2	32.1	48.4	140	323	557	659	175	52.9	28.9
MAX	132	121	72.9	69.0	397	516	950	3,059	2,076	1,030	246	236
(WY)	(1963)	(1999)	(1974)	(1997)	(1962)	(1943)	(1983)	(1973)	(1983)	(1983)	(1983)	(1973)
MIN	9.65	16.3	8.70	7.76	10.0	20.4	66.4	45.6	32.8	5.71	1.53	3.78
(WY)	(1957)	(1940)	(1979)	(1979)	(1949)	(1944)	(1995)	(2002)	(2002)	(1939)	(2000)	(1956)

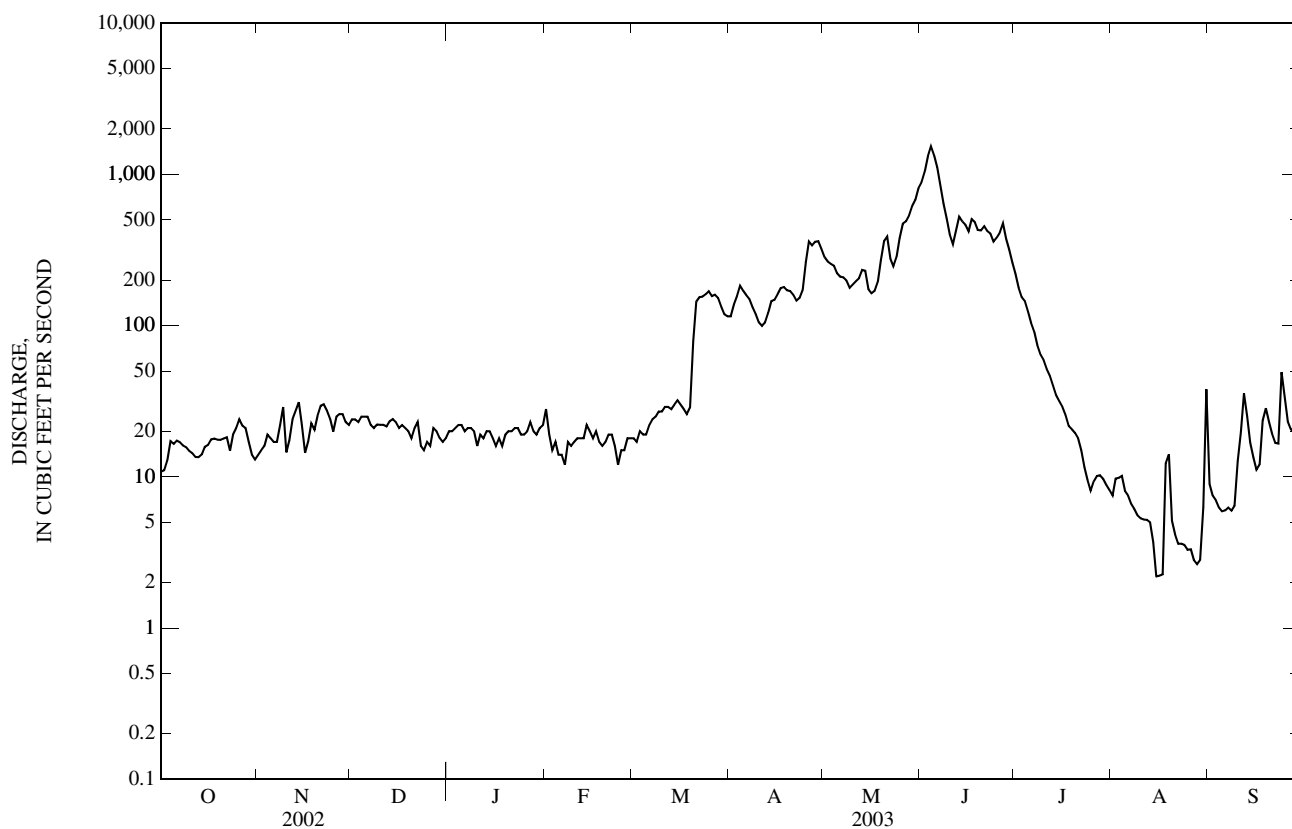
06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL TOTAL	12,952.22		40,612.4		--	
ANNUAL MEAN	35.5		111		179	
HIGHEST ANNUAL MEAN	--		--		531	
LOWEST ANNUAL MEAN	--		--		35.8	
HIGHEST DAILY MEAN	244	Apr 3	1,530	Jun 4	5,330	May 11, 1973
LOWEST DAILY MEAN	0.04	Aug 26	2.2	Aug 15-16	0.04	Aug 26, 2002
ANNUAL SEVEN-DAY MINIMUM	0.42	Aug 20	3.1	Aug 23	0.33	Aug 19, 2000
MAXIMUM PEAK FLOW	--		1,580	Jun 4	6,010 ^a	May 12, 1973
MAXIMUM PEAK STAGE	--		4.60	Jun 4	8.20 ^b	Feb 26, 1986
ANNUAL RUNOFF (AC-FT)	25,690		80,550		129,900	
10 PERCENT EXCEEDS	94		360		526	
50 PERCENT EXCEEDS	21		22		52	
90 PERCENT EXCEEDS	5.6		9.0		15	

a Gage height, 6.74 ft.

b From floodmarks, backwater from ice.

e Estimated.



06639000 SWEETWATER RIVER NEAR ALCOVA, WY

LOCATION.--Lat 42° 29' 24", long 107° 08' 00", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T. 29 N., R. 86 W., Natrona County, Hydrologic Unit 10180006, on left bank 270 ft upstream from State Highway 220, 0.2 mi southwest of Independence Rock, 7 mi upstream from high-water line of Pathfinder Reservoir at elevation 5,850 ft, and 22 mi southwest of Alcova.

DRAINAGE AREA.--2,338 mi². Area at site prior to April 1, 1992, 2,327 mi².

PERIOD OF RECORD.--August 1913 to September 1924, October 1938 to current year (no winter records during 1974, 1975, 1977-81, and since 1983). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1921, 1923-24. WSP 1710: Drainage area.

GAGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 5,890 ft above NGVD of 1929, from topographic map. August 28, 1913 to September 30, 1924, nonrecording gages at site 7.0 mi upstream at different datums. October 1, 1938 to March 31, 1992, at site 6.6 mi upstream at different datum. Bureau of Reclamation data collection platform with satellite telemetry at station.

REMARKS.--Records good. Several small reservoirs upstream from station, combined capacity, about 5,000 acre-ft, for irrigation. Diversions for irrigation of about 24,000 acres upstream from station.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by 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	---	---	---	---	---	---	82	127	65	64	13	9.3
2	---	---	---	---	---	---	79	134	71	60	12	8.7
3	---	---	---	---	---	---	80	121	85	56	12	9.1
4	---	---	---	---	---	---	80	108	92	49	12	10
5	---	---	---	---	---	---	87	104	92	41	11	10
6	---	---	---	---	---	---	99	102	92	32	10	11
7	---	---	---	---	---	---	110	93	92	33	11	11
8	---	---	---	---	---	---	113	89	90	33	10	9.8
9	---	---	---	---	---	---	105	82	88	30	10	4.4
10	---	---	---	---	---	---	100	80	80	26	10	4.8
11	---	---	---	---	---	---	94	78	72	23	9.9	4.1
12	---	---	---	---	---	---	90	76	64	19	9.5	3.6
13	---	---	---	---	---	---	92	69	53	17	9.0	3.6
14	---	---	---	---	---	---	119	73	41	14	8.5	3.5
15	---	---	---	---	---	---	137	54	33	25	8.2	3.3
16	---	---	---	---	---	---	143	52	32	24	8.0	3.2
17	---	---	---	---	---	---	149	50	53	22	8.0	4.3
18	---	---	---	---	---	---	164	48	97	21	8.1	4.9
19	---	---	---	---	---	---	190	50	47	20	8.5	4.4
20	---	---	---	---	---	---	179	49	36	19	8.1	4.1
21	---	---	---	---	---	---	162	49	33	17	7.9	4.1
22	---	---	---	---	---	---	149	51	32	16	7.6	4.0
23	---	---	---	---	---	---	143	52	35	15	7.3	3.8
24	---	---	---	---	---	---	138	50	38	16	7.4	3.8
25	---	---	---	---	---	---	125	49	48	18	7.6	4.0
26	---	---	---	---	---	---	116	48	60	17	7.3	4.0
27	---	---	---	---	---	---	114	43	51	17	7.2	4.1
28	---	---	---	---	---	---	114	38	51	16	6.9	4.2
29	---	---	---	---	---	---	114	39	65	15	6.8	4.3
30	---	---	---	---	---	---	116	48	69	15	9.0	4.4
31	---	---	---	---	---	---	---	57	---	14	10	---
TOTAL	---	---	---	---	---	---	3,583	2,163	1,857	804	281.8	167.8
MEAN	---	---	---	---	---	---	119	69.8	61.9	25.9	9.09	5.59
MAX	---	---	---	---	---	---	190	134	97	64	13	11
MIN	---	---	---	---	---	---	79	38	32	14	6.8	3.2
AC-FT	---	---	---	---	---	---	7,110	4,290	3,680	1,590	559	333

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2003, BY WATER YEAR (WY)*

MEAN	45.8	50.2	38.7	31.6	36.9	80.0	244	404	383	107	41.4	29.3
MAX	86.6	83.3	59.4	54.5	69.1	210	1,869	1,296	1,130	436	104	114
(WY)	(1916)	(1972)	(1972)	(1953)	(1968)	(1916)	(1924)	(1980)	(1983)	(1995)	(1998)	(1973)
MIN	16.0	20.0	20.0	10.8	12.3	33.0	74.4	20.7	12.6	5.01	0.92	1.90
(WY)	(1941)	(1961)	(1941)	(1962)	(1949)	(1924)	(1963)	(1940)	(1977)	(1940)	(1940)	(1940)

06639000 SWEETWATER RIVER NEAR ALCOVA, WY—Continued

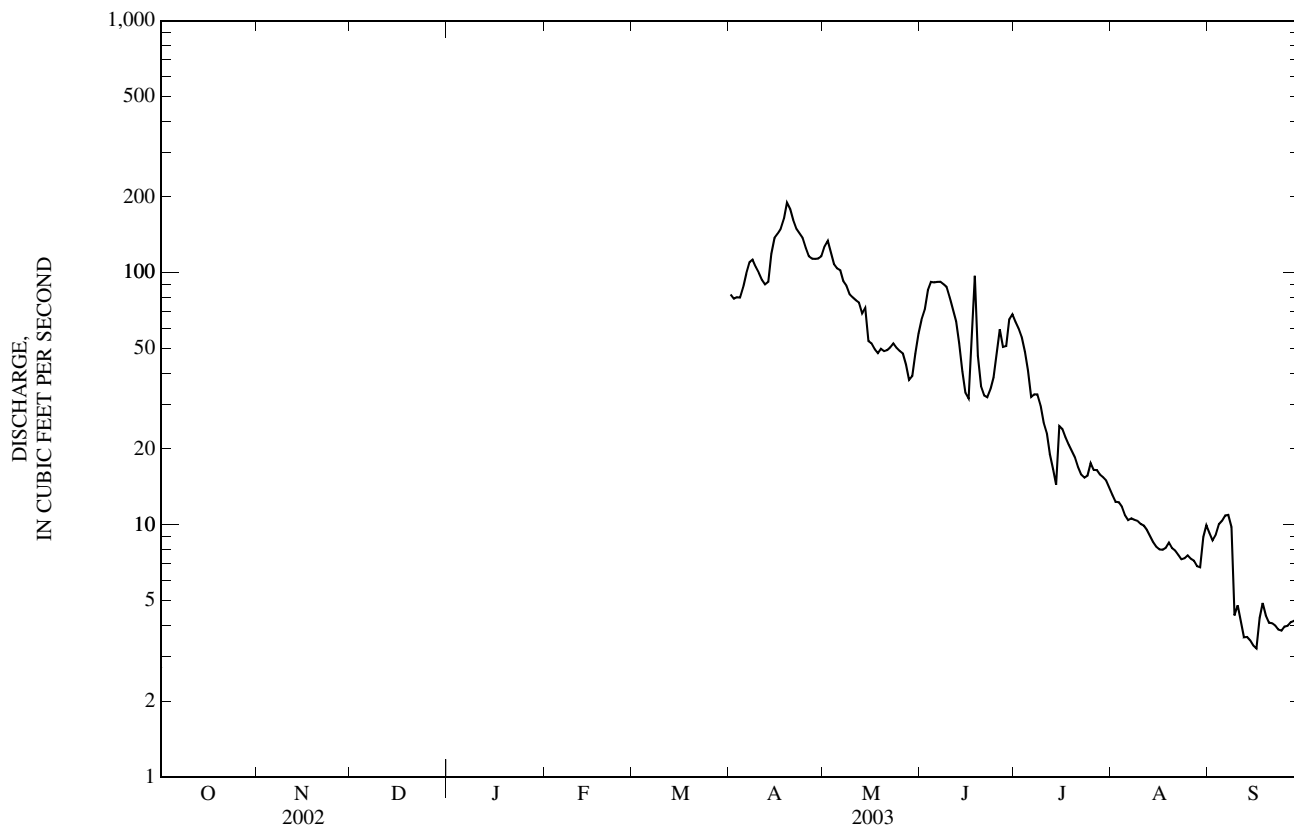
SUMMARY STATISTICS

FOR 2003 WATER YEAR*

WATER YEARS 1914 - 2003*

ANNUAL MEAN	--		126.0
HIGHEST ANNUAL MEAN	--		312 1924
LOWEST ANNUAL MEAN	--		25.8 1940
HIGHEST DAILY MEAN	190	Apr 19	4,290 Apr 13, 1924
LOWEST DAILY MEAN	3.2	Sep 16	0.50 Jul 30 to Aug 12, 1940
MAXIMUM PEAK FLOW	197	Apr 19	4,290 Apr 13, 1924
MAXIMUM PEAK STAGE	2.61	Apr 19	9.90 Apr 27, 1983
ANNUAL RUNOFF (AC-FT)	--		91,260

* For period of operation.



06645000 NORTH PLATTE RIVER BELOW CASPER, WY

LOCATION.--Lat 42° 51' 40", long 106° 12' 53", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.4, T.33 N., R.78 W., Natrona County, Hydrologic Unit 10180007, at New Mystery Bridge, 0.1 mi upstream from Claude Creek, 0.6 mi north of U.S. Highways 20 and 87, 5.8 mi east of city hall in Casper, and 9.5 mi downstream from Casper Creek.

DRAINAGE AREA.--12,574 mi², of which 831 mi² probably is noncontributing.

PERIOD OF RECORD.--Water years 1947-52, 1957-59, 1968-89, October 1990 to current year.

REVISED RECORDS.--WDR WY-76-1: Drainage area.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)
OCT 18...	1420	475	632	12.9	138	8.6	772	17.0	10.0	<0.04	0.39	0.022	0.06
MAR 14...	0920	434	630	10.4	105	8.4	895	19.5	7.5	0.11	0.29	0.012	0.04
JUN 12...	1005	1,350	632	7.1	87	8.4	654	20.5	16.0	<0.04	0.07	E.007	E.01
AUG 27...	1000	519	633	7.4	99	8.5	809	29.0	20.0	<0.04	0.10	<0.008	0.03
Date	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
OCT 18...	4	E.23	2.2	55	<0.06	94	E.03	<0.8	0.181	2.1	<10	<0.08	38
MAR 14...	<2	E.21	2.4	58	<0.06	97	E.02	<0.8	0.325	4.9	<10	2.19	42
JUN 12...	2	<0.30	2.2	53	<0.06	65	0.06	<0.8	0.260	2.0	<8	<0.08	35
AUG 27...	3	E.19	2.6	52	<0.06	104	E.03	<0.8	0.261	1.7	8	<0.08	47
Date	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Oil and grease, water, unfltrd freon extract mg/L (00556)	Uranium natural water, fltrd, ug/L (22703)		
OCT 18...	16.2	E.01	3.0	3.19	5.5	<0.2	630	<8	8	<7	10.0		
MAR 14...	58.9	<0.02	4.1	5.58	5.5	<0.2	722	<8	4	7	11.4		
JUN 12...	7.8	<0.02	3.2	2.28	2.3	<0.2	524	<6	8	<7	8.67		
AUG 27...	21.9	E.01	3.5	2.62	4.1	<0.2	684	<6	2	<7	10.5		

E -- Estimated value

PLATTE RIVER BASIN

06647500 BOX ELDER CREEK AT BOXELDER, WY

LOCATION.--Lat 42° 36'44", long 105° 51'29", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.31 N., R.75 W., Converse County, Hydrologic Unit 10180007, on left bank at Echo Mountain Ranch (old Boxelder Post Office), 0.8 mi downstream from Snowshoe Creek, and 17 mi south of Glenrock.

DRAINAGE AREA.--63.0 mi².

PERIOD OF RECORD.--April 1946 to September 1951, October 1961 to September 1967, October 1971 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,710 ft above NGVD of 1929, from topographic map. Prior to June 7, 1946, non-recording gage, and June 8, 1946 to July 21, 1976, water-stage recorder at site 400 ft downstream at different datum. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records poor. Diversions upstream from station for irrigation of about 60 acres, of which about 40 acres are downstream from 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	0.33	e0.70	e1.8	e1.4	e1.7	e1.2	e15	233	84	17	0.84	0.14
2	0.38	e0.80	e1.7	e1.3	e1.3	e1.1	e14	215	81	15	0.69	0.28
3	0.52	e0.92	e1.7	e1.5	e1.1	e1.2	e12	203	70	14	0.58	0.31
4	0.63	e1.1	e1.6	e1.5	e0.96	e1.1	e11	197	62	13	0.54	0.27
5	0.66	1.2	e1.6	e1.4	e0.86	e1.3	e13	183	57	11	0.77	0.21
6	0.59	1.4	e1.5	e1.3	e0.80	e1.5	e15	164	55	10	0.70	0.17
7	0.55	1.5	e1.4	e1.7	e1.0	e1.5	e17	151	58	9.8	0.63	0.17
8	0.66	1.6	e1.3	e1.5	e1.1	e1.4	e19	156	50	9.8	0.53	0.17
9	0.73	e1.5	e1.3	e1.3	e1.2	e2.3	e21	143	45	9.7	0.44	0.10
10	0.63	e1.3	e1.4	e1.1	e1.2	e2.8	36	140	44	9.1	0.43	0.48
11	0.62	e1.3	e1.6	e1.3	e1.3	e3.5	52	129	36	9.0	0.43	0.38
12	0.54	e1.4	e1.2	e1.5	e1.3	e4.7	67	125	31	8.6	0.49	0.20
13	0.54	e1.5	e1.2	e1.6	e1.3	e6.2	81	129	27	8.6	0.47	0.13
14	0.56	e1.4	e1.3	e1.5	e1.2	e8.4	96	142	25	8.3	0.40	0.08
15	0.54	e1.3	e1.4	e1.5	e1.1	e9.0	109	160	22	7.8	0.48	0.07
16	0.52	e1.2	e1.6	e1.6	e1.2	e8.0	110	194	22	7.5	0.34	0.05
17	0.54	e1.3	e1.4	e1.4	e1.3	e7.0	101	222	35	6.9	0.29	0.09
18	0.54	e1.4	e1.2	e1.3	e1.3	e6.4	97	247	25	6.2	0.23	0.25
19	0.56	1.6	e1.0	e1.5	e1.3	e6.6	101	234	22	6.3	0.37	0.23
20	0.58	1.8	e1.0	e1.6	e1.2	e7.0	95	203	24	5.8	0.61	0.26
21	0.58	1.9	e1.1	e1.3	e1.2	e8.0	97	181	19	5.2	0.40	0.29
22	0.60	2.0	e1.0	e1.1	e1.0	e9.0	105	168	19	4.4	0.33	0.36
23	0.65	e1.8	e0.96	e1.2	e0.90	e9.0	124	163	18	3.8	0.28	0.44
24	0.70	e1.7	e1.0	e1.4	e0.80	e9.0	251	166	26	3.3	0.24	0.44
25	0.75	e1.6	e1.2	e1.3	e0.90	e9.0	264	163	29	2.8	0.21	0.54
26	0.95	e1.4	e1.3	e1.5	e1.0	e8.0	277	154	24	2.5	0.18	0.55
27	0.75	e1.5	e1.5	e1.7	e1.2	e7.0	251	140	19	2.8	0.16	0.58
28	0.73	e1.6	e1.7	e1.6	e1.3	e6.4	227	126	17	2.1	0.14	0.54
29	e0.70	e1.8	e1.7	e1.5	---	e6.0	219	111	28	1.5	0.13	0.55
30	e0.66	e1.7	e1.6	e1.5	---	e7.0	246	106	22	1.1	0.12	0.68
31	e0.62	---	e1.5	e1.6	---	e8.0	---	125	---	0.99	0.14	---
TOTAL	18.91	43.22	42.76	44.5	32.02	168.6	3,143	5,173	1,096	223.89	12.59	9.01
MEAN	0.61	1.44	1.38	1.44	1.14	5.44	105	167	36.5	7.22	0.41	0.30
MAX	0.95	2.0	1.8	1.7	1.7	9.0	277	247	84	17	0.84	0.68
MIN	0.33	0.70	0.96	1.1	0.80	1.1	11	106	17	0.99	0.12	0.05
AC-FT	38	86	85	88	64	334	6,230	10,260	2,170	444	25	18

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

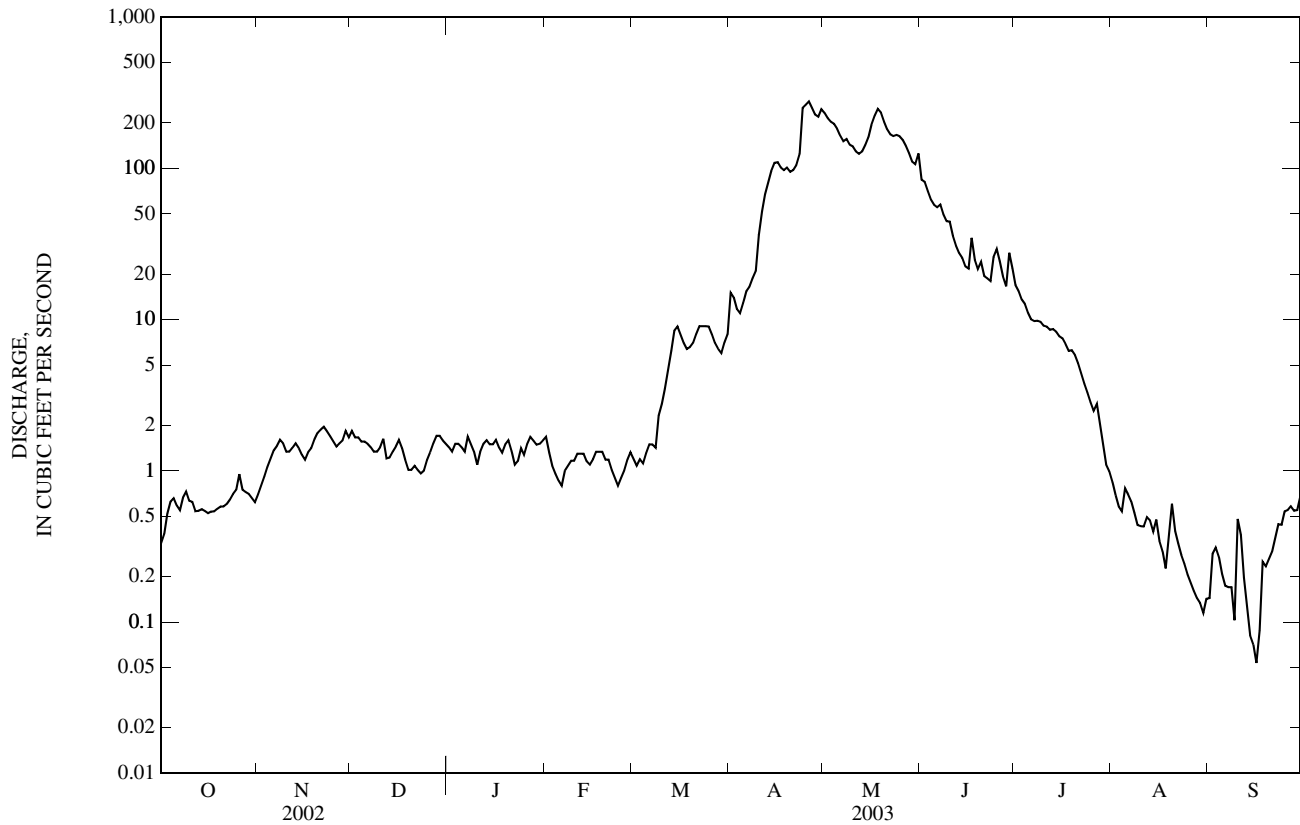
MEAN	2.67	3.75	2.84	2.51	2.78	8.97	80.6	234	76.2	8.78	1.64	0.85
MAX	20.8	29.7	15.0	8.12	9.25	31.8	220	562	332	48.8	12.3	4.11
(WY)	(1999)	(1999)	(1996)	(1997)	(1962)	(1997)	(1962)	(1973)	(1995)	(1947)	(1998)	(1973)
MIN	0.24	0.60	0.46	0.66	0.093	1.47	9.33	39.5	8.28	0.19	0.021	0.058
(WY)	(1965)	(1964)	(1964)	(1981)	(1966)	(1981)	(1981)	(1989)	(1985)	(2002)	(1989)	(1981)

06647500 BOX ELDER CREEK AT BOXELDER, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1946 - 2003	
ANNUAL TOTAL	3,419.27		10,007.50		--	
ANNUAL MEAN	9.37		27.4		35.6	
HIGHEST ANNUAL MEAN	--		--		85.8	
LOWEST ANNUAL MEAN	--		--		6.95	
HIGHEST DAILY MEAN	73	Apr 15	277	Apr 26	2,460	May 14, 1965
LOWEST DAILY MEAN	0.00	Aug 1, 2	0.05	Sep 16	0.00	Several days, some years
ANNUAL SEVEN-DAY MINIMUM	0.02	Jul 28	0.12	Sep 12	0.00	Some years
MAXIMUM PEAK FLOW	--		326	Apr 24	4,530	May 14, 1965
MAXIMUM PEAK STAGE	--		3.86	Apr 24	8.58 ^a	May 14, 1965
ANNUAL RUNOFF (AC-FT)	6,780		19,850		25,800	
10 PERCENT EXCEEDS	42		124		105	
50 PERCENT EXCEEDS	1.8		1.5		3.0	
90 PERCENT EXCEEDS	0.05		0.38		0.40	

a Site and datum then in use.

e Estimated.



06652000 NORTH PLATTE RIVER AT ORIN, WY

LOCATION.--Lat 42° 39' 10", long 105° 09' 32", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T. 31 N., R. 69 W., Converse County, Hydrologic Unit 10180008, on right bank 0.5 mi downstream from bridge on State Highway 319, 0.1 mi downstream from Shawnee Creek, and 1.5 mi east of Orin. Prior to Mar. 6, 1994, at site 0.3 mi upstream.

DRAINAGE AREA.--15,025 mi², of which 1,203 mi² probably is noncontributing.

PERIOD OF RECORD.--January, April to November 1895, April to October 1896, January 1897 to December 1898, April to November 1899, April to September 1917, April to September 1918, May to September 1924, April 1958 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Orin Junction" 1895, 1897-99 and as "at McKinley" 1917-18.

REVISED RECORDS.--WSP 1310: 1896, 1899. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder, and concrete weir since March 6, 1994. Elevation of gage is 4,660 ft above NGVD of 1929, from topographic map. January 1, 1895, to November 30, 1899, and May 1 to September 30, 1924, nonrecording gage at railroad bridge just upstream from State Highway 319 at different datum. April 1, 1917, to September 30, 1918, nonrecording gage at site 1.9 mi downstream at different datum. April 1958 to March 5, 1994, at site 0.3 mi upstream at different datum. Wyoming State Engineer's Office data collection platform with satellite telemetry at station.

REMARKS.--Records good. Major regulation began after completion of Pathfinder Reservoir in April 1909. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Twelve discharge measurements provided by the Wyoming State Engineer's Office.

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	505	557	515	506	494	635	934	2,460	989	2,820	2,340	621
2	522	538	516	480	494	546	980	2,370	1,040	2,800	2,340	576
3	542	513	515	503	501	529	988	2,160	984	2,760	2,340	542
4	555	503	515	568	504	546	930	1,990	903	2,700	2,380	539
5	541	521	508	567	486	490	836	1,830	874	2,660	2,350	533
6	528	502	506	569	471	450	788	1,700	868	2,560	2,330	543
7	519	513	509	525	465	508	780	1,550	915	2,550	2,240	569
8	518	516	512	522	371	642	797	1,490	1,190	2,520	1,890	587
9	518	520	504	532	347	576	763	1,500	1,230	2,460	1,470	594
10	520	526	496	479	456	528	740	1,490	1,190	2,400	1,050	635
11	518	522	504	398	431	521	777	1,470	1,190	2,370	912	654
12	513	508	505	352	447	514	938	1,390	1,170	2,360	880	645
13	519	532	487	395	497	515	1,280	1,290	1,400	2,340	845	609
14	531	516	496	505	523	509	1,410	1,170	1,720	2,340	823	611
15	523	516	514	529	569	516	1,430	1,120	2,000	2,350	840	574
16	514	527	499	521	550	549	1,440	1,150	2,100	2,350	890	542
17	524	521	494	423	530	604	1,420	1,180	2,160	2,360	1,010	554
18	530	509	490	440	503	812	1,370	1,230	2,560	2,260	1,110	602
19	529	513	499	451	493	1,450	1,340	1,280	2,260	2,240	1,080	656
20	541	521	484	425	486	1,470	1,360	1,270	2,210	2,270	1,020	612
21	550	513	397	524	489	1,410	1,330	1,220	2,230	2,270	984	575
22	547	522	409	522	491	1,470	1,290	1,130	2,660	2,250	896	562
23	537	499	473	434	500	1,440	1,350	1,070	2,770	2,300	802	555
24	538	505	401	317	351	992	2,430	1,030	2,930	2,310	734	546
25	553	522	224	460	352	872	3,350	1,030	2,850	2,320	686	538
26	558	499	248	531	325	819	2,910	1,030	2,820	2,310	597	535
27	539	441	331	555	475	818	2,580	1,030	2,790	2,360	523	528
28	548	493	391	573	611	780	2,350	932	2,780	2,390	513	526
29	571	536	526	552	---	716	2,180	885	2,830	2,380	503	537
30	563	557	634	516	---	712	2,150	835	2,900	2,350	530	530
31	570	---	520	502	---	760	---	836	---	2,350	576	---
TOTAL	16,584	15,481	14,622	15,176	13,212	23,699	43,221	42,118	56,513	75,060	37,484	17,230
MEAN	535	516	472	490	472	764	1,441	1,359	1,884	2,421	1,209	574
MAX	571	557	634	573	611	1,470	3,350	2,460	2,930	2,820	2,380	656
MIN	505	441	224	317	325	450	740	835	868	2,240	503	526
AC-FT	32,890	30,710	29,000	30,100	26,210	47,010	85,730	83,540	112,100	148,900	74,350	34,180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2003, BY WATER YEAR (WY)

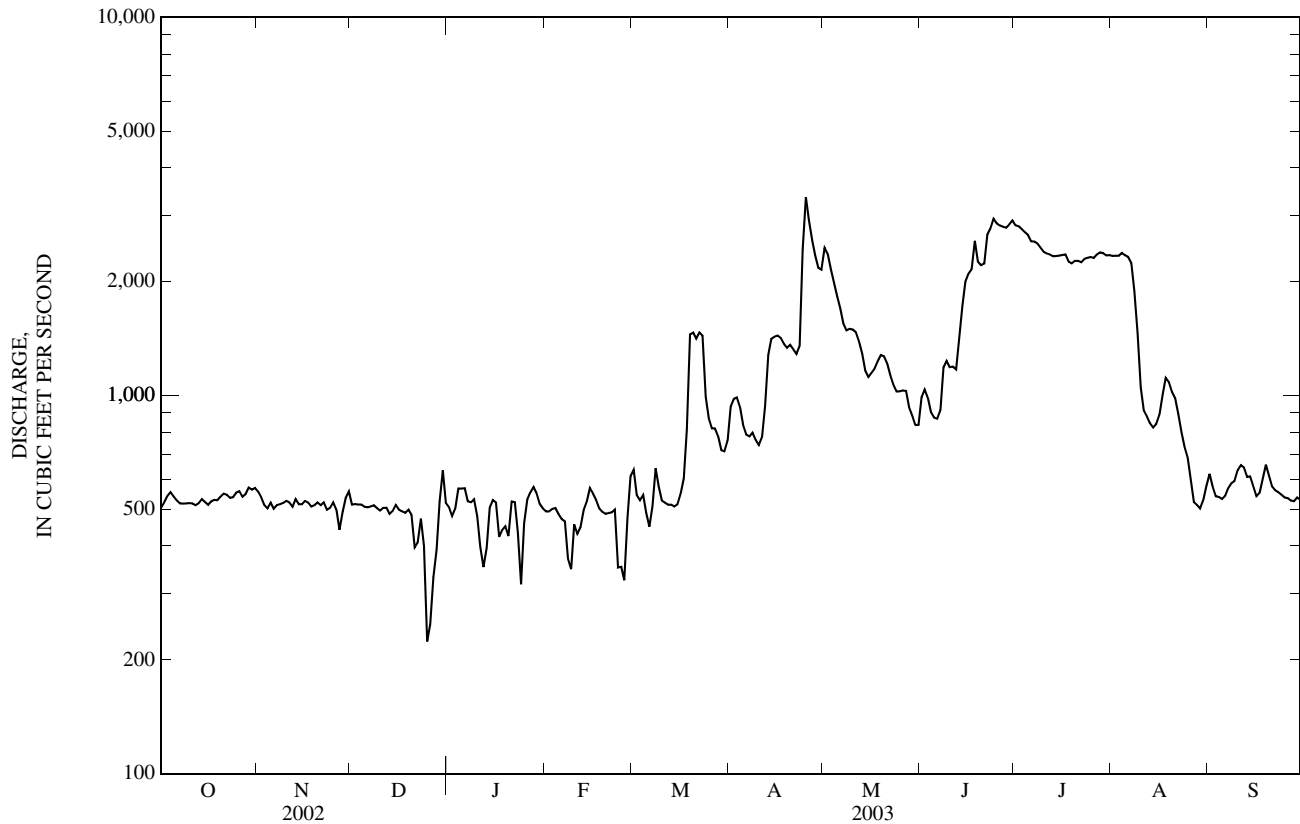
MEAN	1,157	1,045	876	888	972	1,204	1,890	3,224	3,173	2,628	2,261	1,587
MAX	1,708	2,191	1,223	1,171	1,472	2,911	4,578	9,274	14,430	9,970	5,258	4,150
(WY)	(1896)	(1897)	(1898)	(1899)	(1900)	(1901)	(1902)	(1903)	(1904)	(1905)	(1906)	(1907)
MIN	535	516	472	490	472	618	670	626	958	982	583	399
(WY)	(2003)	(2004)	(2005)	(2006)	(2007)	(2008)	(2009)	(2010)	(2011)	(2012)	(2013)	(2014)

06652000 NORTH PLATTE RIVER AT ORIN, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1895 - 2003	
ANNUAL TOTAL	313,209		370,400		--	
ANNUAL MEAN	858		1,015		1,616	
HIGHEST ANNUAL MEAN	--		--		3,110	
LOWEST ANNUAL MEAN	--		--		928	
HIGHEST DAILY MEAN	2,180	Jul 6	3,350	Apr 25	20,300	Jun 27, 1917
LOWEST DAILY MEAN	224	Dec 25	224	Dec 25	140	Dec 21, 1990
ANNUAL SEVEN-DAY MINIMUM	354	Dec 22	354	Dec 22	324	Sep 25, 1966
MAXIMUM PEAK FLOW	--		3,640	Apr 25	23,800 ^a	May 15, 1965
MAXIMUM PEAK STAGE	--		5.33	Apr 25	10.45 ^b	Jun 12, 1970
ANNUAL RUNOFF (AC-FT)	621,300		734,700		1,171,000	
10 PERCENT EXCEEDS	1,830		2,350		2,900	
50 PERCENT EXCEEDS	690		574		1,220	
90 PERCENT EXCEEDS	495		487		680	

a Gage height, 10.00 ft, site and datum then in use.

b Backwater from ice.



06652800 NORTH PLATTE RIVER BELOW GLENDO RESERVOIR, WY

LOCATION.--Lat 42° 27' 25", long 104° 56' 50", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.29 N., R.67 W., Platte County, Hydrologic Unit 10180008, on right bank opposite Sand Draw, 1.3 mi upstream from Horseshoe Creek, 3.1 mi downstream from Glendo Dam, and 5.2 mi southeast of Glendo.

DRAINAGE AREA.--15,548 mi², of which 1,215 mi² probably is non-contributing.

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,488.94 ft above NGVD of 1929 (levels by Bureau of Reclamation). Bureau of Reclamation data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow completely regulated by Glendo Reservoir since October 17, 1957. Natural flow of stream affected by transbasin diversions, storage reservoirs, power generation, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	29	28	28	26	28	26	39	819	4,850	7,610	35
2	29	28	28	e28	27	28	25	37	826	5,230	7,610	35
3	31	28	28	28	e26	28	25	37	820	5,460	7,520	35
4	32	28	28	28	25	e27	25	37	815	5,480	5,180	36
5	29	28	28	28	e25	e26	26	37	816	5,430	4,800	37
6	29	28	28	28	e25	27	26	37	816	5,120	4,900	37
7	29	28	28	28	e25	27	25	37	833	2,840	4,960	37
8	29	28	28	28	25	27	24	37	827	1,050	4,900	35
9	30	28	28	e27	e25	27	24	37	823	1,040	5,050	31
10	28	28	28	e27	e25	27	24	37	814	3,960	5,060	33
11	28	28	28	e27	e25	27	24	37	818	5,290	5,050	28
12	29	28	28	e27	e26	27	24	38	827	5,280	4,990	28
13	29	28	28	28	27	26	24	37	827	5,150	4,900	27
14	29	28	28	27	27	26	26	38	841	4,990	4,920	28
15	30	28	28	e27	26	26	30	37	840	5,280	5,010	29
16	29	28	28	e26	26	27	33	38	819	5,470	5,040	28
17	29	28	28	e26	27	e26	37	38	817	5,390	5,050	29
18	29	28	28	e26	27	e26	37	38	836	5,250	5,080	29
19	29	28	e27	27	27	e27	36	52	832	5,350	4,970	28
20	29	28	e27	27	27	28	35	492	1,310	5,350	4,920	28
21	29	28	28	27	27	29	36	1,150	2,100	5,340	4,780	28
22	29	28	e28	e26	e26	29	35	1,020	2,550	5,200	4,370	28
23	30	e28	e27	e26	e25	30	37	898	2,900	5,140	3,830	28
24	30	29	e27	27	e24	29	38	845	3,090	5,010	3,840	27
25	30	e28	e27	26	e25	27	35	837	3,090	5,130	3,550	27
26	30	e27	e26	26	e26	e26	35	828	3,370	5,150	2,650	27
27	30	28	e27	26	e26	e26	35	861	3,890	5,020	567	26
28	30	28	28	26	e27	26	36	876	4,350	4,790	254	26
29	e30	28	28	26	---	27	37	867	4,500	4,790	241	26
30	30	28	28	27	---	28	38	833	4,570	5,110	34	26
31	29	---	28	27	---	28	---	817	---	7,600	35	---
TOTAL	915	841	860	836	725	843	918	11,049	51,386	151,540	131,671	902
MEAN	29.5	28.0	27.7	27.0	25.9	27.2	30.6	356	1,713	4,888	4,247	30.1
MAX	32	29	28	28	27	30	38	1,150	4,570	7,600	7,610	37
MIN	28	27	26	26	24	26	24	37	814	1,040	34	26
AC-FT	1,810	1,670	1,710	1,660	1,440	1,670	1,820	21,920	101,900	300,600	261,200	1,790

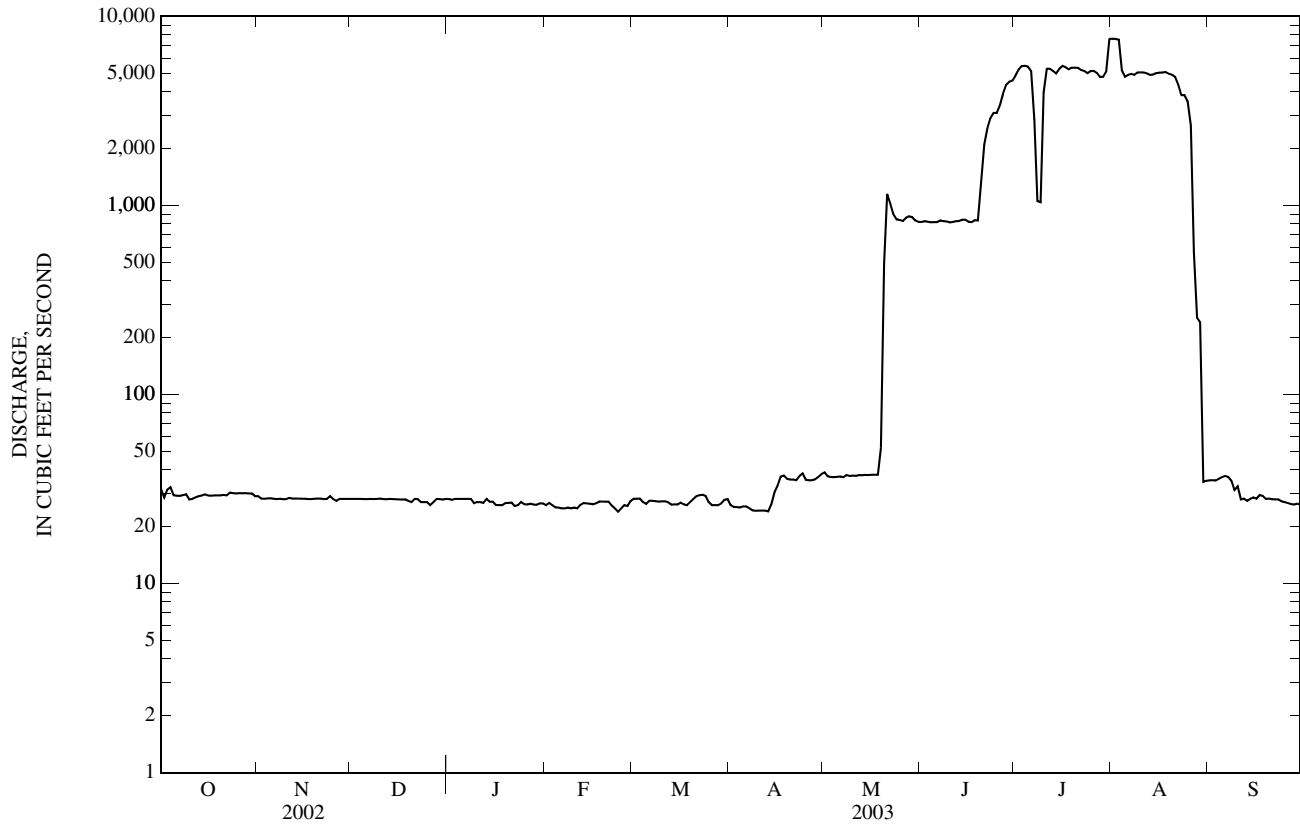
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003, BY WATER YEAR (WY)

MEAN	65.6	30.1	17.3	15.5	98.4	471	1,145	2,167	2,798	4,920	4,869	2,386
MAX	951	857	324	173	1,054	3,837	3,868	4,688	8,916	8,681	8,923	6,027
(WY)	(1987)	(1987)	(1959)	(1963)	(1984)	(1974)	(1974)	(1984)	(1973)	(1983)	(1983)	(1983)
MIN	1.51	1.09	1.00	1.30	1.33	1.58	30.6	15.4	66.1	3,104	2,428	30.1
(WY)	(1992)	(1991)	(1991)	(1992)	(1990)	(1990)	(2003)	(1990)	(1962)	(1962)	(2002)	(2003)

06652800 NORTH PLATTE RIVER BELOW GLENDON RESERVOIR, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1958 - 2003	
ANNUAL TOTAL	341,841		352,486		--	
ANNUAL MEAN	937		966		1,593	
HIGHEST ANNUAL MEAN	--		--		3,126	1984
LOWEST ANNUAL MEAN	--		--		920	1961
HIGHEST DAILY MEAN	7,750	Jul 30	7,610	Aug 1-2	10,300	Jun 30, 1984
LOWEST DAILY MEAN	25 ^e	Jan 1-3	24	Many days	0.41	Oct 17, 1977
ANNUAL SEVEN-DAY MINIMUM	26	Jan 1	24	Apr 7	0.64	Dec 20, 1990
MAXIMUM PEAK FLOW	--		7,670	Jul 31	10,300	Jun 29, 1984
MAXIMUM PEAK STAGE	--		10.05	Jul 31	11.16	Jun 29, 1984
ANNUAL RUNOFF (AC-FT)	678,000		699,200		1,154,000	
10 PERCENT EXCEEDS	4,390		4,980		4,940	
50 PERCENT EXCEEDS	33		29		93	
90 PERCENT EXCEEDS	27		26		2.2	

e Estimated.



06657000 NORTH PLATTE RIVER BELOW WHALEN DIVERSION DAM, WY

LOCATION.--Lat 42° 14'17", long 104° 37'41", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.26 N., R.65 W., Goshen County, Hydrologic Unit 10180009, on left bank 0.7 mi downstream from Whalen diversion dam, and 6.0 mi northwest of Fort Laramie.

DRAINAGE AREA.--16,237 mi², of which 1,219 mi² probably is noncontributing.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only, prior to January 1915, published in WSP 1910. Prior to April 16, 1938, published as "below Whalen", and April 16, 1938 to September 30, 1974, as "at recorder station, below Whalen".

REVISED RECORDS.--WSP 1310: 1924. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder and sheet piling weir since April 25, 1994. Elevation of gage is 4,280 ft above NGVD of 1929, from topographic map. Prior to April 16, 1938, nonrecording gages at Whalen Diversion Dam and canals 0.7 mi upstream at different datums. April 16, 1938, to November 17, 1955, water-stage recorder at site 1.9 mi downstream, and November 18, 1955 to April 25, 1994, at site 1.8 mi downstream at different datum. Bureau of Reclamation data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Whalen Diversion Dam 0.7 mi upstream. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Five discharge measurements provided by the Wyoming State Engineer's Office.

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	206	8.9	5.4	5.5	3.5	3.8	5.6	16	20	1,630	1,280	219
2	66	9.0	5.0	5.2	3.3	3.6	e5.2	18	21	1,890	1,270	97
3	53	8.6	5.0	5.4	3.1	3.3	e5.0	16	18	1,980	1,370	58
4	45	8.4	5.0	5.0	3.6	3.3	5.0	17	18	1,910	1,410	65
5	33	8.0	5.2	4.7	3.6	3.5	5.2	17	18	1,860	1,470	54
6	28	7.8	5.1	4.6	3.5	3.8	7.5	12	32	1,750	1,480	46
7	24	7.8	5.1	4.5	3.6	3.7	7.5	9.0	51	1,750	1,490	41
8	24	7.6	5.0	4.3	3.9	2.7	6.7	13	57	1,780	1,490	37
9	20	6.9	5.1	3.9	4.0	2.8	6.4	11	80	1,760	1,490	36
10	18	6.5	5.2	4.0	3.7	3.0	5.8	9.2	89	1,670	1,500	34
11	16	6.6	5.0	4.3	3.9	3.0	5.8	8.7	93	1,770	1,500	28
12	15	6.5	5.0	4.9	3.9	e3.3	5.9	8.1	95	1,790	1,480	26
13	14	6.1	5.1	5.2	3.9	e3.7	6.1	8.1	97	1,770	1,440	23
14	13	5.8	5.0	4.5	3.8	e4.2	6.4	7.8	96	1,810	1,460	22
15	12	5.8	5.3	3.6	3.6	e3.8	6.9	8.5	95	1,870	1,500	20
16	12	5.9	4.7	3.8	3.6	e4.4	7.5	9.1	95	1,960	1,520	20
17	11	5.8	4.7	5.0	3.6	e5.0	6.9	9.1	95	1,920	1,530	19
18	11	5.7	4.7	4.4	3.0	e5.0	6.5	49	95	1,920	1,530	19
19	10	5.7	4.8	4.5	3.1	e5.4	6.3	108	95	1,880	1,480	17
20	10	5.4	5.2	4.2	3.1	e6.0	6.1	39	91	1,920	1,450	16
21	9.2	5.3	5.9	3.8	3.0	6.3	5.5	27	85	1,910	1,360	15
22	8.3	5.3	5.6	3.3	2.9	6.2	5.9	22	275	1,800	1,050	205
23	9.8	6.0	5.5	3.9	3.3	5.7	10	22	705	1,730	681	900
24	9.6	6.8	5.5	4.3	3.6	5.2	12	22	882	1,660	564	941
25	9.3	6.4	5.7	4.6	3.8	4.9	8.8	22	1,040	1,620	539	922
26	8.4	5.3	6.3	4.5	4.2	4.8	8.0	22	1,090	1,690	519	745
27	8.4	6.5	7.1	4.4	4.4	9.7	7.9	22	1,170	1,680	433	109
28	8.3	6.7	6.8	3.4	4.2	9.0	8.4	22	1,280	1,640	229	57
29	8.7	5.9	6.3	3.0	---	7.4	9.8	21	1,390	1,480	50	43
30	9.1	5.5	5.8	3.3	---	6.7	13	20	1,470	1,530	109	33
31	9.0	---	5.2	3.6	---	6.3	---	21	---	1,410	132	---
TOTAL	739.1	198.5	166.3	133.6	100.7	149.5	213.6	636.6	10,738	54,740	34,806	4,867
MEAN	23.8	6.62	5.36	4.31	3.60	4.82	7.12	20.5	358	1,766	1,123	162
MAX	206	9.0	7.1	5.5	4.4	9.7	13	108	1,470	1,980	1,530	941
MIN	8.3	5.3	4.7	3.0	2.9	2.7	5.0	7.8	18	1,410	50	15
AC-FT	1,470	394	330	265	200	297	424	1,260	21,300	108,600	69,040	9,650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2003, BY WATER YEAR (WY)*

MEAN	182	92.1	59.6	53.1	77.7	262	494	1,222	1,953	1,853	1,381	671
MAX	1,389	1,130	405	494	604	3,885	5,410	6,175	14,360	8,330	5,465	3,976
(WY)	(1918)	(1987)	(1930)	(1927)	(1930)	(1974)	(1924)	(1924)	(1917)	(1917)	(1983)	(1983)
MIN	4.20	0.71	0.30	0.24	0.012	0.000	2.83	13.6	126	559	86.6	43.8
(WY)	(1967)	(1967)	(1967)	(1962)	(1967)	(1976)	(1954)	(1990)	(1982)	(1934)	(1934)	(1934)

06657000 NORTH PLATTE RIVER BELOW WHALEN DIVERSION DAM, WY—Continued

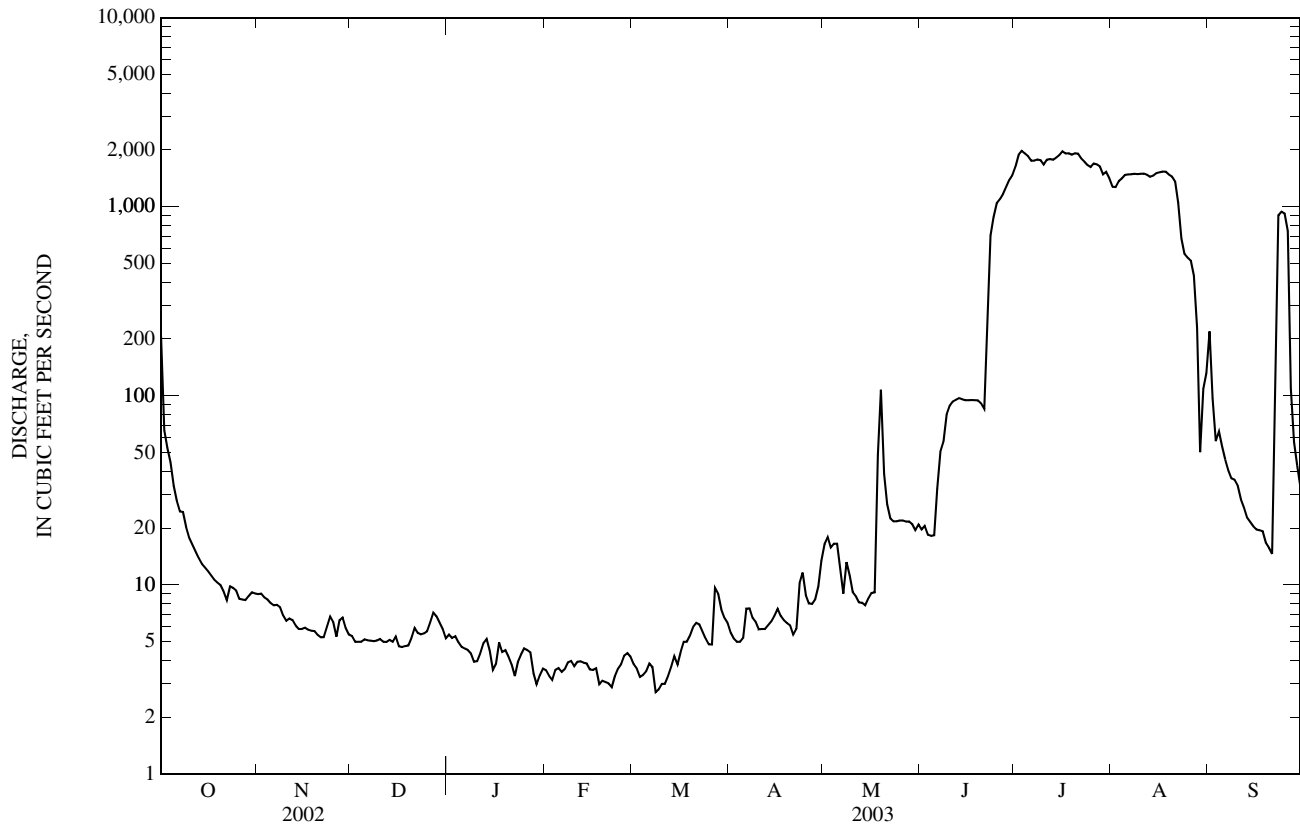
SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1917 - 2003*	
ANNUAL TOTAL	105,587.6		107,488.9		--	
ANNUAL MEAN	289		294		695	
HIGHEST ANNUAL MEAN	--		--		2,992	1917
LOWEST ANNUAL MEAN	--		--		178	1954
HIGHEST DAILY MEAN	2,210	Jul 3	1,980	Jul 3	19,500	Jun 28, 1917
LOWEST DAILY MEAN	3.6	May 9	2.7	Mar 8	0.00	Many days, several years
ANNUAL SEVEN-DAY MINIMUM	4.2	May 6	3.1	Feb 17	0.00	Several years
MAXIMUM PEAK FLOW	--		2,200	Jul 18	22,000 ^a	Jun 26, 1955
MAXIMUM PEAK STAGE	--		7.02	Jul 18	9.85 ^b	Jun 26, 1955
ANNUAL RUNOFF (AC-FT)	209,400		213,200		503,700	
10 PERCENT EXCEEDS	1,100		1,490		1,850	
50 PERCENT EXCEEDS	15		8.8		133	
90 PERCENT EXCEEDS	5.7		3.8		4.0	

* Period of record to 1917 not used in computations, monthly and seasonal records only.

a From rating curve extended above 4,500 ft³/s on basis of peak-flow measurement of upstream floods.

b Site and datum then in use.

c Estimated.



06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS LANDING, WY

LOCATION.--River: Lat 41°08'17", long 105°58'49", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.14 N., R.77 W., Albany County, Hydrologic Unit 10180010, on left bank 100 ft upstream from diversion dam for Pioneer Canal, 2.2 mi downstream from Fox Creek, 2.5 mi northeast of Woods, and 23 mi southwest of Laramie.

Canal: Lat 41°08'21", long 105°58'45", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.14 N., R.77 W., Albany County, on left bank 400 ft downstream from headgate.

DRAINAGE AREA.--434 mi².

PERIOD OF RECORD.--April 1912 to September 1924, October 1926 to September 1927, October 1931 to current year (no winter records for river since 1972; no winter records for canal 1972 to 1996). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1918-20, 1922, 1924. WSP 1710: Drainage area. WDR WY-84-1: 1983.

GAGE.--River: Water-stage recorder and concrete control. Datum of gage is 7,388.99 ft above NGVD of 1929. April 16 to November 15, 1912, nonrecording gage and November 16, 1912 to September 22, 1915, water-stage recorder 90 ft downstream between dam crest and canal headgates at datum 1.00 ft higher. September 23, 1915 to September 30, 1924, April 19 to September 30, 1927, and April 11, 1932 to September 30, 1935, water-stage recorder at site 50 ft downstream at datum 1.00 ft higher. October 1, 1935 to July 13, 1950, water-stage recorder at site 50 ft downstream at present datum.

Canal: Water-stage recorder and Parshall flume. Elevation of gage is 7,390 ft above NGVD of 1929, from topographic map. April 16, 1912 to April 10, 1923, nonrecording gage; April 11, 1923 to September 30, 1924, and April 19 to June 9, 1927, water-stage recorder; June 10 to September 30, 1927, and April 11, 1932 to May 8, 1938, nonrecording gage; May 9, 1938 to April 26, 1966, water-stage recorder at site 1.5 mi downstream at different datums. April 27, 1966 to May 8, 1967, at present site, at datum 0.06 ft lower. The City of Laramie pipeline diversion, installed in 2002, is immediately adjacent and merges with Pioneer Canal just below the flume.

REMARKS.--Records fair. Pioneer Canal diverts from left bank of river at diversion dam 100 ft downstream for irrigation in vicinity of Laramie. Records show combined flow of river and canal. Three small reservoirs upstream from station in Wyoming, total capacity, about 600 acre-ft for irrigation, stock water, and domestic use. Diversions for irrigation of about 5,200 acres upstream from station. Transbasin diversions upstream from station to Cache la Poudre River and tributaries. National Weather Service, in cooperation with Wyoming State Engineer's Office, has data collection platform with satellite telemetry at station.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by 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	---	---	---	---	---	---	64	155	2,020	244	58	64
2	---	---	---	---	---	---	77	134	2,070	216	58	60
3	---	---	---	---	---	---	83	130	1,620	193	54	61
4	---	---	---	---	---	---	84	140	1,370	170	64	62
5	---	---	---	---	---	---	79	143	1,180	156	84	61
6	---	---	---	---	---	---	58	132	968	137	64	51
7	---	---	---	---	---	---	54	125	911	134	53	46
8	---	---	---	---	---	---	57	128	844	127	50	55
9	---	---	---	---	---	---	52	134	802	108	52	69
10	---	---	---	---	---	---	70	159	800	100	51	70
11	---	---	---	---	---	---	90	149	856	96	46	66
12	---	---	---	---	---	---	112	176	952	82	42	73
13	---	---	---	---	---	---	112	236	824	76	42	68
14	---	---	---	---	---	---	130	248	737	68	43	60
15	---	---	---	---	---	---	144	280	715	64	44	56
16	---	---	---	---	---	---	132	329	700	60	40	54
17	---	---	---	---	---	---	115	423	654	55	45	50
18	---	---	---	---	---	---	114	564	617	54	56	48
19	---	---	---	---	---	---	102	653	611	78	65	48
20	---	---	---	---	---	---	84	653	704	85	60	58
21	---	---	---	---	---	---	78	649	583	68	50	54
22	---	---	---	---	---	---	87	688	486	56	42	50
23	---	---	---	---	---	---	106	756	437	49	54	48
24	---	---	---	---	---	---	104	916	420	49	67	48
25	---	---	---	---	---	---	104	860	507	38	79	46
26	---	---	---	---	---	---	138	923	449	38	81	46
27	---	---	---	---	---	---	157	1,020	342	51	86	44
28	---	---	---	---	---	---	167	1,220	301	61	76	46
29	---	---	---	---	---	---	181	1,420	275	56	69	45
30	---	---	---	---	---	---	176	1,600	270	59	68	46
31	---	---	---	---	---	---	---	1,820	---	54	66	---
TOTAL	---	---	---	---	---	---	3,111	16,963	24,025	2,882	1,809	1,653
MEAN	---	---	---	---	---	---	104	547	801	93.0	58.4	55.1
MAX	---	---	---	---	---	---	181	1,820	2,070	244	86	73
MIN	---	---	---	---	---	---	52	125	270	38	40	44
AC-FT	---	---	---	---	---	---	6,170	33,650	47,650	5,720	3,590	3,280

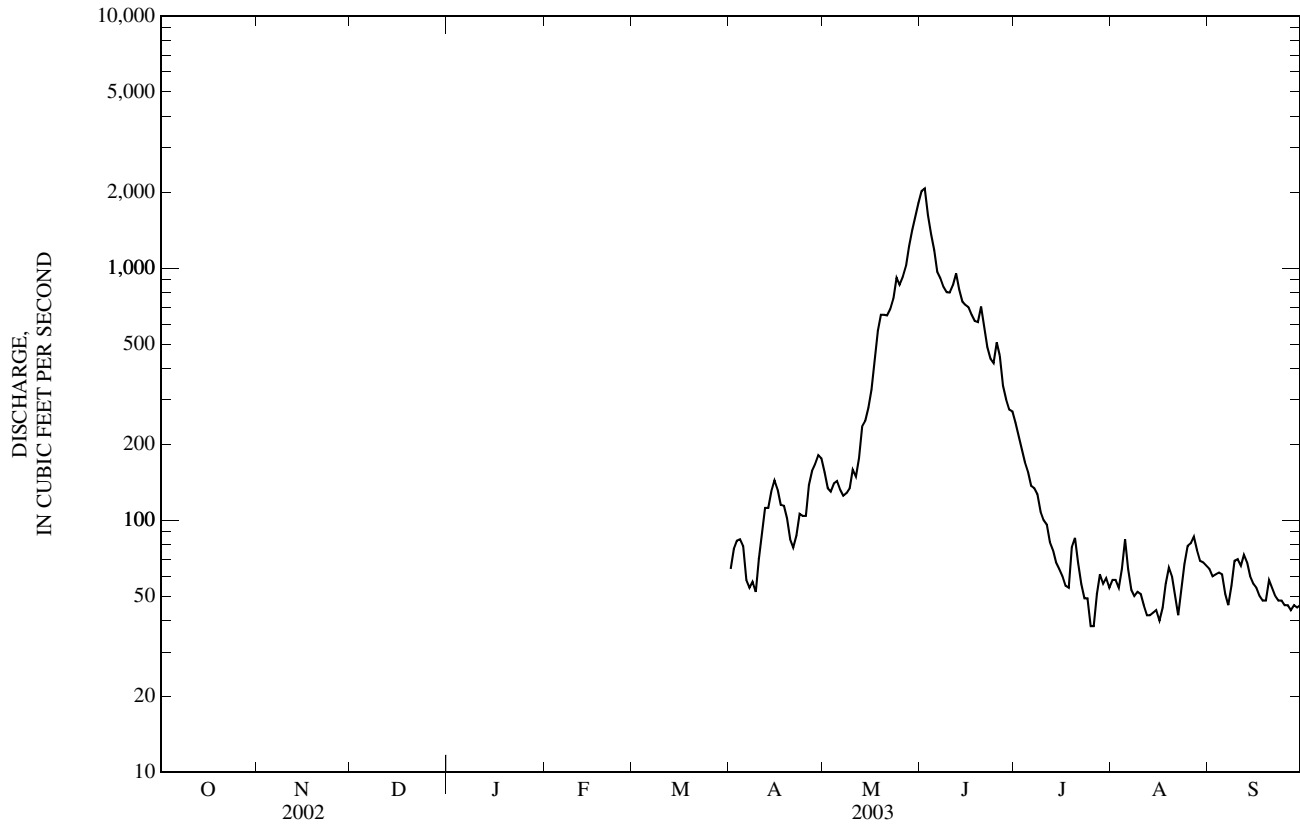
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2003, BY WATER YEAR (WY)*

MEAN	63.4	51.9	42.0	38.5	40.1	51.0	126	550	789	197	78.5	57.5
MAX	160	94.9	77.4	57.1	74.5	84.9	355	1,131	2,441	1,019	194	190
(WY)	(1962)	(1962)	(1966)	(1966)	(1962)	(1966)	(1962)	(1984)	(1983)	(1983)	(1983)	(1997)
MIN	33.7	32.0	28.3	24.3	24.6	27.7	51.7	63.5	55.8	19.6	18.9	15.1
(WY)	(1953)	(1934)	(1961)	(1961)	(1955)	(1964)	(1995)	(2002)	(2002)	(2002)	(2002)	(1934)

06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS LANDING, WY—Continued

SUMMARY STATISTICS	FOR 2003 WATER YEAR*		WATER YEARS 1912 - 2003*	
ANNUAL MEAN	--		170.0	
HIGHEST ANNUAL MEAN	--		319	1957
LOWEST ANNUAL MEAN	--		64.9	1934
HIGHEST DAILY MEAN	2,070	Jun 1	3,320	Jun 14, 1957
LOWEST DAILY MEAN	38	Jul 25,26	0.00	May 1, 1912
MAXIMUM PEAK FLOW	2,260	Jun 2	5,060	Jun 10, 1923
ANNUAL RUNOFF (AC-FT)	--		123,100	

* For period of operation.



06659580 SAND CREEK AT COLORADO-WYOMING STATE LINE

LOCATION.--Lat 40° 59'37", long 105° 45'35", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.12 N., R.75 W., Larimer County, CO, Hydrologic Unit 10180010, on right bank 1,200 ft south of Colorado-Wyoming State line and 17 mi southwest of Tie Siding, WY.

DRAINAGE AREA.--29.2 mi².

PERIOD OF RECORD.--October 1968 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Elevation of gage is 7,580 ft above NGVD of 1929, from topographic map. Prior to July 19, 1977, gage at site 700 ft upstream at different datum. State of Colorado data collection platform with satellite telemetry at station.

REMARKS.--Records good. Natural flow affected by diversion upstream from station to Cache la Poudre River basin through Wilson Supply ditch. Water imported upstream from station from Deadman Creek in Laramie River basin is diverted through Wilson Supply ditch, but is wasted down Sand Creek at times. Diversions for irrigation of about 170 acres upstream from station.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by 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	---	---	---	---	---	---	3.7	34	161	11	3.3	1.9
2	---	---	---	---	---	---	4.8	31	152	12	2.9	1.9
3	---	---	---	---	---	---	4.7	33	126	11	2.5	1.7
4	---	---	---	---	---	---	3.8	34	96	9.4	3.6	1.5
5	---	---	---	---	---	---	3.2	34	87	8.4	5.8	1.4
6	---	---	---	---	---	---	2.6	32	70	7.6	4.4	1.4
7	---	---	---	---	---	---	2.6	32	56	7.5	3.2	1.9
8	---	---	---	---	---	---	2.2	34	53	7.2	2.5	1.7
9	---	---	---	---	---	---	3.2	35	43	6.6	2.2	1.8
10	---	---	---	---	---	---	5.6	39	46	5.8	2.3	2.1
11	---	---	---	---	---	---	7.8	33	49	5.5	2.6	2.0
12	---	---	---	---	---	---	9.4	35	53	5.1	2.3	1.8
13	---	---	---	---	---	---	12	43	43	4.8	2.1	2.0
14	---	---	---	---	---	---	17	55	40	4.4	1.8	2.2
15	---	---	---	---	---	---	17	71	35	3.9	1.5	1.7
16	---	---	---	---	---	---	15	84	32	3.8	1.3	1.4
17	---	---	---	---	---	---	13	94	32	3.8	1.3	1.4
18	---	---	---	---	---	---	15	100	31	3.7	1.3	1.7
19	---	---	---	---	---	---	14	92	30	3.8	1.7	2.4
20	---	---	---	---	---	---	11	74	27	5.2	1.6	2.4
21	---	---	---	---	---	---	12	65	25	4.7	1.4	2.2
22	---	---	---	---	---	---	15	61	22	3.9	1.5	1.9
23	---	---	---	---	---	---	15	59	20	3.4	1.4	1.7
24	---	---	---	---	---	---	14	60	19	3.1	1.4	1.4
25	---	---	---	---	---	---	18	59	23	2.8	1.5	1.2
26	---	---	---	---	---	---	24	59	24	3.5	1.4	1.2
27	---	---	---	---	---	---	29	54	18	4.9	1.3	1.1
28	---	---	---	---	---	---	31	52	15	6.2	1.2	1.1
29	---	---	---	---	---	---	36	110	13	4.9	1.2	1.2
30	---	---	---	---	---	---	36	147	12	4.0	1.2	1.3
31	---	---	---	---	---	---	---	186	---	3.8	1.5	---
TOTAL	---	---	---	---	---	---	397.6	1,931	1,453	175.7	65.2	50.6
MEAN	---	---	---	---	---	---	13.3	62.3	48.4	5.67	2.10	1.69
MAX	---	---	---	---	---	---	36	186	161	12	5.8	2.4
MIN	---	---	---	---	---	---	2.2	31	12	2.8	1.2	1.1
AC-FT	---	---	---	---	---	---	789	3,830	2,880	349	129	100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2003, BY WATER YEAR (WY)*

MEAN	3.13	3.34	2.66	2.27	2.46	2.73	8.57	38.5	48.7	8.98	2.26	1.71
MAX	3.68	4.41	2.97	2.53	3.19	2.85	18.7	95.0	234	72.6	8.58	6.85
(WY)	(1971)	(1971)	(1971)	(1971)	(1971)	(1971)	(1986)	(1984)	(1983)	(1977)	(1983)	(1997)
MIN	2.75	2.47	2.39	1.83	1.84	2.65	2.90	5.63	2.32	0.031	0.000	0.000
(WY)	(1970)	(1969)	(1970)	(1970)	(1969)	(1969)	(1995)	(2002)	(2002)	(2002)	(2002)	(2002)

06659580 SAND CREEK AT COLORADO-WYOMING STATE LINE—Continued

SUMMARY STATISTICS

FOR 2003 WATER YEAR*

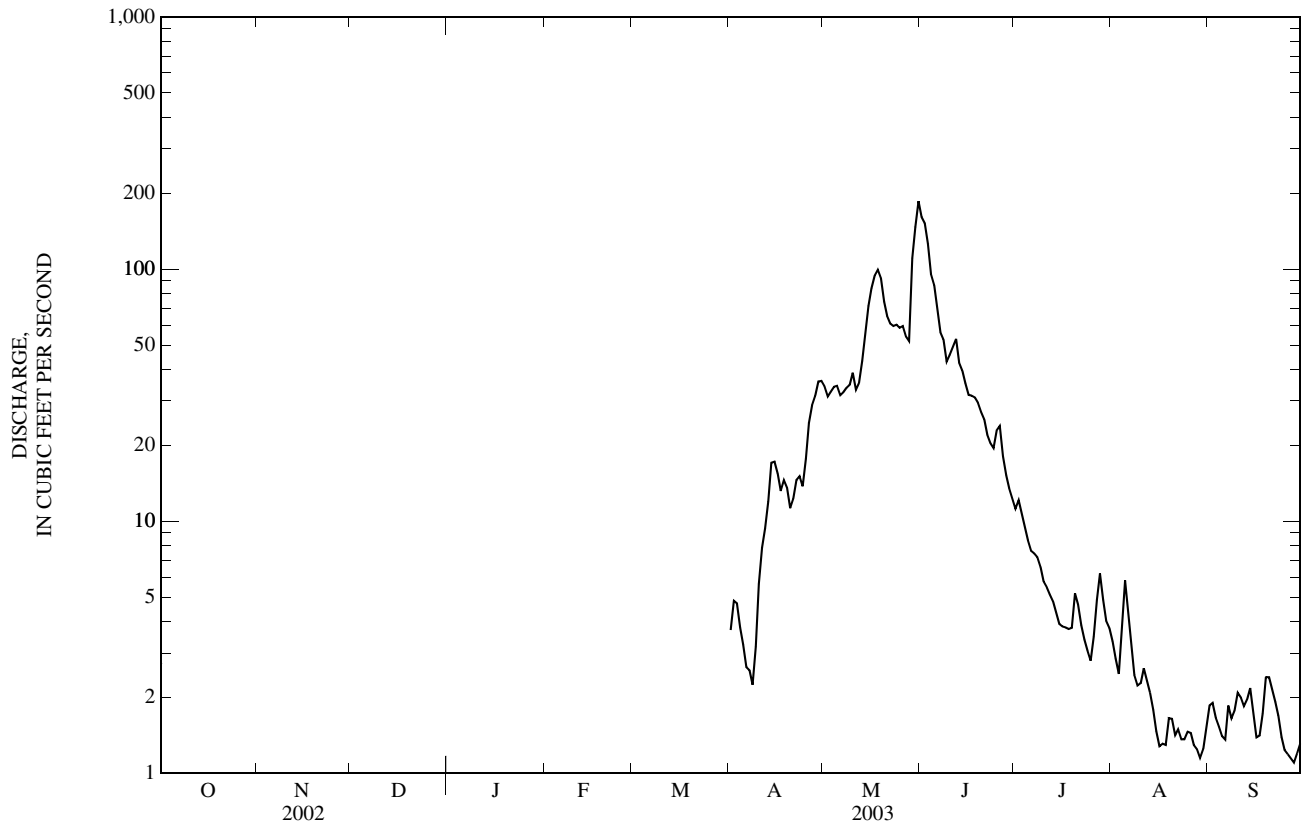
WATER YEARS 1969 - 2003*

ANNUAL MEAN	--	12.7
HIGHEST ANNUAL MEAN	--	18.0 1971
LOWEST ANNUAL MEAN	--	6.41 1969
HIGHEST DAILY MEAN	186 May 31	1,500 Jul 19, 1977
LOWEST DAILY MEAN	1.1 Sep 27, 28	0.00 Many days, 2002
MAXIMUM PEAK FLOW	262 May 31	6,710 ^a Jul 19, 1977
MAXIMUM PEAK STAGE	2.36 May 31	6.65 ^b Jul 19, 1977
ANNUAL RUNOFF (AC-FT)	--	9,240

* For period of operation.

a From slope-area measurement of peak flow.

b From floodmarks.



06661000 LITTLE LARAMIE RIVER NEAR FILMORE, WY

LOCATION.--Lat 41° 17'42", long 106° 02'03", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.4, T.15 N., R.77 W., Albany County, Hydrologic Unit 10180010, on right bank 40 ft downstream from State Highway 130, 1.2 mi west of Filmore, and 4.4 mi downstream from North Fork.

DRAINAGE AREA.--157 mi². Area at site used prior to September 8, 1976, 156 mi².

PERIOD OF RECORD.--July 1902 to September 1903 (published as "near Hatton"), May 1911 to November 1926, October 1932 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1903, 1914, 1922-26. WSP 1440: 1902. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,610 ft above NGVD of 1929, from topographic map. Prior to September 16, 1938, nonrecording gages, and September 16, 1938 to September 7, 1976, water-stage recorder, at sites 0.7 mi upstream at different datums.

REMARKS.--Records good except those for estimated daily discharges, which are poor. At least ten small reservoirs upstream from station, combined capacity, more than 160 acre-ft, for irrigation, stock water, recreation, and domestic use. Diversions upstream from station for irrigation of about 11,020 acres, of which about 20 acres are downstream from station.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by 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	---	---	---	---	---	---	31	23	835	127	28	24
2	---	---	---	---	---	---	31	23	649	115	26	21
3	---	---	---	---	---	---	21	21	545	114	25	21
4	---	---	---	---	---	---	e18	22	470	106	36	20
5	---	---	---	---	---	---	18	25	407	97	31	20
6	---	---	---	---	---	---	18	25	317	89	27	18
7	---	---	---	---	---	---	17	22	302	88	26	21
8	---	---	---	---	---	---	16	38	248	85	27	22
9	---	---	---	---	---	---	18	41	242	81	25	20
10	---	---	---	---	---	---	19	51	313	96	24	21
11	---	---	---	---	---	---	20	66	394	91	21	21
12	---	---	---	---	---	---	21	92	373	85	20	21
13	---	---	---	---	---	---	21	75	339	80	22	22
14	---	---	---	---	---	---	22	54	324	76	19	20
15	---	---	---	---	---	---	24	65	323	71	16	18
16	---	---	---	---	---	---	25	90	327	70	16	18
17	---	---	---	---	---	---	22	118	298	68	18	16
18	---	---	---	---	---	---	22	145	323	88	24	18
19	---	---	---	---	---	---	22	169	311	82	25	20
20	---	---	---	---	---	---	21	153	300	88	20	19
21	---	---	---	---	---	---	18	155	271	82	18	18
22	---	---	---	---	---	---	18	178	228	64	17	18
23	---	---	---	---	---	---	23	226	216	55	16	17
24	---	---	---	---	---	---	40	293	204	46	24	14
25	---	---	---	---	---	---	44	313	252	39	27	14
26	---	---	---	---	---	---	27	341	188	37	25	13
27	---	---	---	---	---	---	24	408	158	41	21	8.0
28	---	---	---	---	---	---	24	479	146	37	19	8.9
29	---	---	---	---	---	---	23	543	142	36	18	17
30	---	---	---	---	---	---	23	662	138	34	20	13
31	---	---	---	---	---	---	---	791	---	30	29	---
TOTAL	---	---	---	---	---	---	691	5,707	9,583	2,298	710	541.9
MEAN	---	---	---	---	---	---	23.0	184	319	74.1	22.9	18.1
MAX	---	---	---	---	---	---	44	791	835	127	36	24
MIN	---	---	---	---	---	---	16	21	138	30	16	8.0
AC-FT	---	---	---	---	---	---	1,370	11,320	19,010	4,560	1,410	1,070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2003, BY WATER YEAR (WY)*

MEAN	31.1	28.2	23.9	19.6	20.5	26.4	53.1	233	523	157	50.1	28.9
MAX	77.2	50.0	40.0	35.0	53.8	47.9	136	502	1,217	572	126	74.7
(WY)	(1913)	(1913)	(1913)	(1913)	(1962)	(1971)	(1924)	(1926)	(1903)	(1917)	(1984)	(1912)
MIN	13.2	10.0	10.0	8.76	8.00	9.97	17.6	69.5	48.3	17.9	11.0	8.80
(WY)	(1936)	(1920)	(1934)	(1955)	(1955)	(1955)	(1955)	(1968)	(1934)	(1934)	(2002)	(1913)

06661000 LITTLE LARAMIE RIVER NEAR FILMORE, WY—Continued

SUMMARY STATISTICS

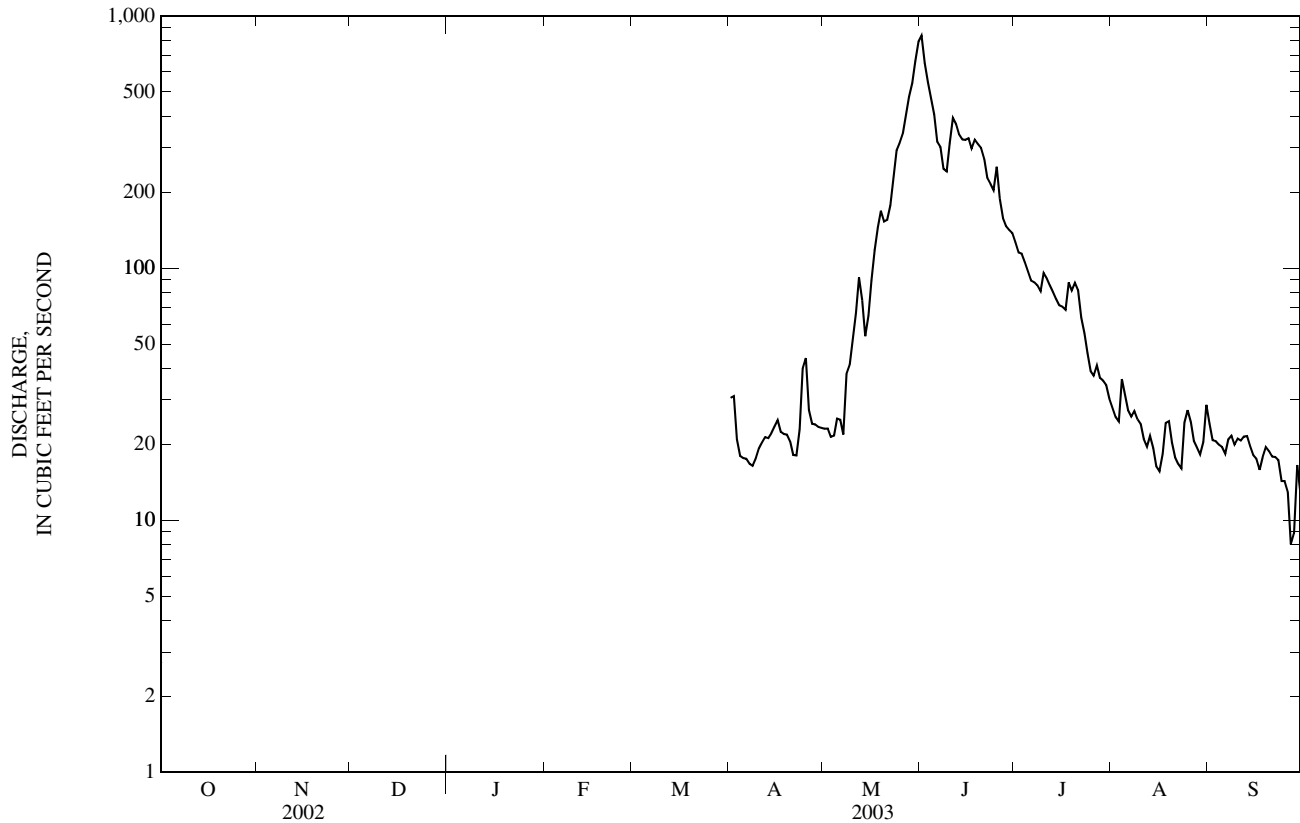
FOR 2003 WATER YEAR*

WATER YEARS 1903 - 2003*

ANNUAL MEAN	--		102.7
HIGHEST ANNUAL MEAN	--		184 1917
LOWEST ANNUAL MEAN	--		32.7 1934
HIGHEST DAILY MEAN	835	Jun 1	2,400 Jun 1, 1914
LOWEST DAILY MEAN	8.0	Sep 27	1.0 Sep 17, 1913
MAXIMUM PEAK FLOW	1,020	Jun 1	3,450 Jun 10, 1965
MAXIMUM PEAK STAGE	3.99	Jun 1	5.33 Jun 10, 1965
ANNUAL RUNOFF (AC-FT)	--		74,380

* For period of operation.

e Estimated.



06661585 LARAMIE RIVER NEAR BOSLER, WY

LOCATION.--Lat 41°33'17", long 105°40'58", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.18 N., R.74 W., Albany County, Hydrologic Unit 10180010, on left bank 50 ft upstream from bridge on U.S. Highways 30 and 287, 0.2 mi northwest of Bosler Junction, 1.7 mi south of Bosler, and 2.0 mi downstream from Soil Bank Boughton Canal diversion dam.

DRAINAGE AREA.--1,790 mi², of which 283 mi² probably is noncontributing.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,030 ft above NGVD of 1929, from topographic map. National Weather Service data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversion upstream from station for irrigation of about 54,700 acres, of which about 2,300 acres are downstream from station, and return flow from irrigated areas.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by 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	0.00	18	e24	e28	e52	e34	132	34	844	132	29	18
2	0.75	20	e36	e21	e50	e38	184	29	917	140	29	20
3	1.8	22	e29	e21	e40	e42	169	26	1,030	152	27	20
4	2.5	24	e21	e22	e30	e45	117	23	1,180	158	25	19
5	2.1	23	e31	e24	e22	e49	101	20	1,330	153	23	19
6	2.1	22	e34	e22	e16	e54	91	19	1,410	134	24	18
7	6.3	24	e29	e22	e11	e64	91	18	1,340	120	24	19
8	5.6	28	e20	e18	e13	e76	80	17	1,280	105	24	20
9	4.8	36	e31	e13	e13	e92	71	17	1,400	91	27	20
10	4.0	33	e35	e11	e15	e110	65	24	1,070	79	23	19
11	2.9	29	e30	e10	e16	e126	63	26	778	69	20	19
12	2.4	28	e24	e12	e22	e156	60	29	661	67	18	17
13	4.2	38	e31	e17	e25	e180	53	31	626	68	17	16
14	6.7	48	e33	e23	e30	215	47	27	614	67	16	15
15	7.1	50	e33	e23	e35	201	44	27	626	66	15	14
16	6.7	44	e26	e15	e40	170	42	31	651	63	14	15
17	6.8	38	e23	e13	e35	133	39	35	581	61	16	15
18	6.7	29	e22	e12	e29	103	32	31	511	60	16	16
19	6.7	24	e20	e12	e32	78	27	29	483	55	16	16
20	6.8	38	e36	e10	e30	70	25	31	469	56	16	16
21	7.0	44	e33	e11	e34.0	73	22	28	451	70	17	15
22	6.9	41	e27	e12	e38	92	20	31	434	63	19	13
23	7.3	e40	e21	e16	e25	97	23	72	439	64	18	12
24	10	e32	e18	e22	e15	90	42	132	368	61	18	11
25	9.8	e21	e14	e27	e22	83	64	242	310	52	15	11
26	10	e32	e11	e33	e25	77	97	381	267	44	11	9.6
27	12	e37	e7.9	e40	e27	79	71	543	291	44	10	9.2
28	14	e36	e17	e43	e30	95	53	641	303	37	12	8.9
29	12	e36	e26	e38	---	104	43	673	226	36	13	9.0
30	12	e32	e22	e40	---	94	38	675	163	31	16	9.0
31	16	---	e24	e47	---	95	---	739	---	28	19	---
TOTAL	203.95	967	788.9	678	772.0	3,015	2,006	4,681	21,053	2,426	587	458.7
MEAN	6.58	32.2	25.4	21.9	27.6	97.3	66.9	151	702	78.3	18.9	15.3
MAX	16	50	36	47	52	215	184	739	1,410	158	29	20
MIN	0.00	18	7.9	10	11	34	20	17	163	28	10	8.9
AC-FT	405	1,920	1,560	1,340	1,530	5,980	3,980	9,280	41,760	4,810	1,160	910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2003, BY WATER YEAR (WY)

MEAN	55.2	72.4	54.9	45.8	55.2	106	147	270	686	236	74.9	29.5
MAX	196	155	101	92.7	120	209	531	1,198	2,512	1,529	428	140
(WY)	(1985)	(1987)	(1984)	(1986)	(1986)	(1986)	(1984)	(1984)	(1983)	(1983)	(1984)	(1984)
MIN	3.26	7.37	8.09	18.8	26.2	38.7	10.3	8.74	4.20	0.023	0.000	0.000
(WY)	(1993)	(1995)	(1995)	(1991)	(2002)	(2002)	(1995)	(2002)	(2002)	(2002)	(2002)	(2002)

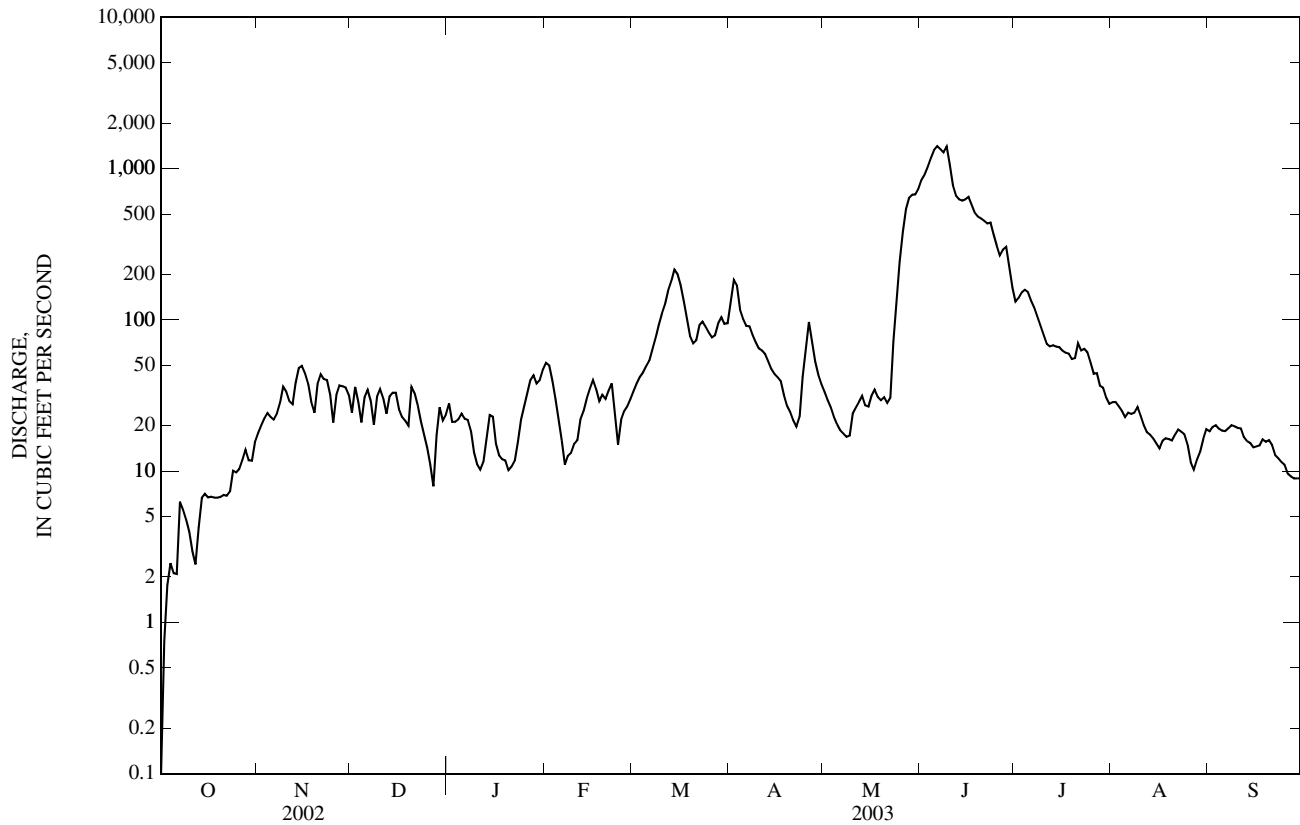
06661585 LARAMIE RIVER NEAR BOSLER, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1973 - 2003	
ANNUAL TOTAL	6,339.44		37,636.55		--	
ANNUAL MEAN	17.4		103		153	
HIGHEST ANNUAL MEAN	--		--		475	
LOWEST ANNUAL MEAN	--		--		18.9	
HIGHEST DAILY MEAN	130 ^e	Mar 31	1,410	Jun 6	4,390	Jun 28, 1983
LOWEST DAILY MEAN	0.00	Jul 10-Oct 1	0.00	Oct 1	0.00	Some days, some years
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 10	2.2	Oct 1	0.00	Jul 10, 2002
MAXIMUM PEAK FLOW	--		1,420	Jun 6	4,480 ^a	Jun 11, 1986
MAXIMUM PEAK STAGE	--		5.50	Jun 6	8.40 ^b	Apr 22, 1973
ANNUAL RUNOFF (AC-FT)	12,570		74,650		110,600	
10 PERCENT EXCEEDS	34		219		343	
50 PERCENT EXCEEDS	14		29		62	
90 PERCENT EXCEEDS	0.00		11		12	

a Gage height, 7.39 ft.

b Ice jam.

e Estimated.



06664400 SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND, WY

LOCATION.--Lat 41° 50'39", long 105° 13'15", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.22 N., R.70 W., Platte County, Hydrologic Unit 10180011, on right bank just upstream from bridge on State Highway 34, 900 ft upstream from Mule Creek, 2.9 mi upstream from Bluegrass Creek, and 20 mi southwest of Wheatland.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--April 1974 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,340 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and daily discharge greater than 100 ft³/s, which are poor. Seven small diversions upstream from station, combined capacity, about 400 acre-ft, for irrigation. Diversions upstream from station for irrigation of about 2,020 acres, of which about 80 acres are downstream from station.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by 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	---	---	---	---	---	---	5.7	70	41	14	5.9	4.2
2	---	---	---	---	---	---	8.1	59	40	15	5.8	3.5
3	---	---	---	---	---	---	9.7	54	39	18	5.4	3.8
4	---	---	---	---	---	---	8.9	50	38	16	5.4	3.4
5	---	---	---	---	---	---	8.1	47	38	15	5.1	3.2
6	---	---	---	---	---	---	9.3	43	38	14	5.4	3.1
7	---	---	---	---	---	---	9.5	41	38	15	5.3	3.7
8	---	---	---	---	---	---	8.9	40	37	14	5.5	3.9
9	---	---	---	---	---	---	6.7	41	35	12	5.6	3.9
10	---	---	---	---	---	---	5.5	43	34	11	5.5	3.8
11	---	---	---	---	---	---	5.8	46	33	12	5.4	4.0
12	---	---	---	---	---	---	6.4	43	39	11	5.2	3.8
13	---	---	---	---	---	---	8.1	42	25	11	4.7	3.9
14	---	---	---	---	---	---	9.3	42	23	9.6	4.6	4.2
15	---	---	---	---	---	---	11	41	23	8.7	4.4	4.1
16	---	---	---	---	---	---	12	42	21	7.9	4.1	3.7
17	---	---	---	---	---	---	12	41	21	7.5	4.0	3.6
18	---	---	---	---	---	---	12	40	21	7.7	5.0	4.9
19	---	---	---	---	---	---	11	38	17	e165	5.0	4.9
20	---	---	---	---	---	---	12	37	17	36	4.5	4.7
21	---	---	---	---	---	---	12	36	16	21	3.9	4.9
22	---	---	---	---	---	---	12	35	16	15	4.0	4.8
23	---	---	---	---	---	---	19	34	17	13	3.9	4.3
24	---	---	---	---	---	---	58	34	18	11	4.2	4.0
25	---	---	---	---	---	---	99	35	17	8.3	4.6	3.9
26	---	---	---	---	---	---	116	36	17	6.4	4.5	3.9
27	---	---	---	---	---	---	105	36	16	6.9	4.5	3.9
28	---	---	---	---	---	---	91	42	15	7.0	4.1	4.4
29	---	---	---	---	---	---	85	42	16	6.2	4.1	4.5
30	---	---	---	---	---	---	83	40	15	6.2	5.4	4.4
31	---	---	---	---	---	---	---	42	---	5.9	5.9	---
TOTAL	---	---	---	---	---	---	860.0	1,312	781	527.3	150.9	121.3
MEAN	---	---	---	---	---	---	28.7	42.3	26.0	17.0	4.87	4.04
MAX	---	---	---	---	---	---	116	70	41	165	5.9	4.9
MIN	---	---	---	---	---	---	5.5	34	15	5.9	3.9	3.1
AC-FT	---	---	---	---	---	---	1,710	2,600	1,550	1,050	299	241

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2003, BY WATER YEAR (WY)*

MEAN	4.24	---	---	---	---	7.75	31.1	63.7	42.9	22.8	12.8	5.89
MAX	4.24	---	---	---	---	7.75	201	533	382	193	62.7	23.3
(WY)	(1989)	---	---	---	---	(1987)	(1983)	(1983)	(1983)	(1983)	(1983)	(1983)
MIN	4.24	---	---	---	---	7.75	2.27	4.14	2.67	0.64	0.65	0.65
(WY)	(1989)	---	---	---	---	(1987)	(1977)	(1977)	(1989)	(2002)	(1989)	(2002)

06664400 SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND, WY—Continued

SUMMARY STATISTICS

FOR 2003 WATER YEAR*

WATER YEARS 1974 - 2003*

HIGHEST DAILY MEAN	116	Apr 26	1,290	Aug 20, 1990
LOWEST DAILY MEAN	3.1	Sep 6	0.09	Sep 5, 2002
MAXIMUM PEAK FLOW	Unknown ^a		19,900 ^b	Aug 20, 1990
MAXIMUM PEAK STAGE	Unknown ^c		15.60 ^d	Aug 20, 1990

* For period of operation.

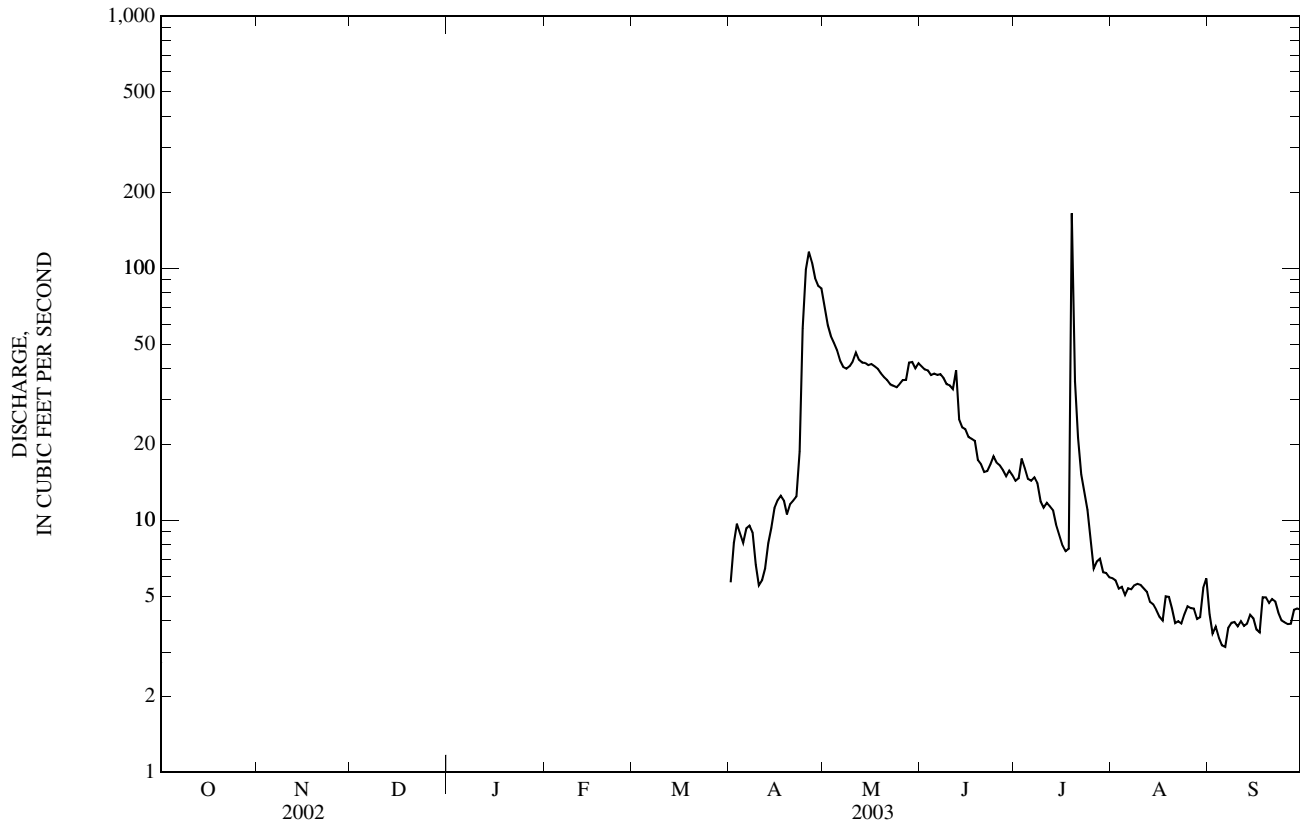
a At least 460 ft³/s, sometime during July 19, 20.

b On basis of slope-area measurement of peak flow at site 1.2 mi upstream.

c At least 4.95 ft, sometime during July 19, 20.

d From floodmarks.

e Estimated.



06665790 SYBILLE CREEK ABOVE CANAL NO. 3, NEAR WHEATLAND, WY

LOCATION.--Lat 41° 54' 40", long 105° 07' 36", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T.22 N., R.69 W., Platte County, Hydrologic Unit 10180011, on right bank 100 ft upstream from State Highway 34, 200 ft downstream from Deadhead Creek, 2.7 mi upstream from Canal No. 3, and 19.7 mi southwest of Wheatland.

PERIOD OF RECORD.--April 1980 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,040 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for daily discharges greater than 100 ft³/s, which are fair. Most of flow during irrigation season is water released from Wheatland Reservoir No. 2, capacity 98,930 acre-ft, on the Laramie River and diverted down Bluegrass Creek for irrigation of land near Wheatland. Diversions for irrigation of about 4,400 acres upstream from station.

COOPERATION.--Station operated and recorded provided by the Wyoming State Engineer's Office; record reviewed by 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	---	---	---	---	---	---	8.6	72	118	11	45	49
2	---	---	---	---	---	---	9.0	67	125	27	29	46
3	---	---	---	---	---	---	11	61	139	76	41	58
4	---	---	---	---	---	---	12	58	88	82	41	41
5	---	---	---	---	---	---	12	57	75	59	41	21
6	---	---	---	---	---	---	13	55	93	49	36	13
7	---	---	---	---	---	---	12	52	98	48	28	10
8	---	---	---	---	---	---	12	51	70	52	19	9.6
9	---	---	---	---	---	---	12	51	61	38	15	9.5
10	---	---	---	---	---	---	9.9	52	64	51	20	9.2
11	---	---	---	---	---	---	9.4	55	76	49	22	8.3
12	---	---	---	---	---	---	9.4	53	60	49	22	7.1
13	---	---	---	---	---	---	9.5	50	74	46	33	7.0
14	---	---	---	---	---	---	9.5	49	39	63	42	7.4
15	---	---	---	---	---	---	9.9	47	26	63	48	6.6
16	---	---	---	---	---	---	11	51	26	60	52	6.0
17	---	---	---	---	---	---	11	49	26	61	54	6.3
18	---	---	---	---	---	---	12	49	38	81	44	7.8
19	---	---	---	---	---	---	11	47	51	147	44	7.5
20	---	---	---	---	---	---	11	46	39	47	32	6.8
21	---	---	---	---	---	---	11	45	30	25	31	6.3
22	---	---	---	---	---	---	11	42	26	23	31	6.1
23	---	---	---	---	---	---	15	40	24	22	32	5.7
24	---	---	---	---	---	---	58	34	24	26	38	5.4
25	---	---	---	---	---	---	92	19	24	49	53	5.4
26	---	---	---	---	---	---	92	20	23	81	63	4.9
27	---	---	---	---	---	---	89	19	21	71	63	4.5
28	---	---	---	---	---	---	79	19	20	51	61	4.6
29	---	---	---	---	---	---	73	99	22	49	61	4.5
30	---	---	---	---	---	---	75	141	17	49	61	4.6
31	---	---	---	---	---	---	---	127	---	46	51	---
TOTAL	---	---	---	---	---	---	810.2	1,677	1,617	1,651	1,253	389.1
MEAN	---	---	---	---	---	---	27.0	54.1	53.9	53.3	40.4	13.0
MAX	---	---	---	---	---	---	92	141	139	147	63	58
MIN	---	---	---	---	---	---	8.6	19	17	11	15	4.5
AC-FT	---	---	---	---	---	---	1,610	3,330	3,210	3,270	2,490	772

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2003, BY WATER YEAR (WY)*

MEAN	29.0	---	---	---	---	25.5	53.6	105	80.7	80.8	67.8	33.5
MAX	29.0	---	---	---	---	25.5	260	665	347	191	192	68.3
(WY)	(1989)	---	---	---	---	(1987)	(1983)	(1983)	(1983)	(1983)	(1983)	(1983)
MIN	29.0	---	---	---	---	25.5	7.85	12.5	13.0	12.6	0.074	0.000
(WY)	(1989)	---	---	---	---	(1987)	(1982)	(2002)	(2002)	(2002)	(2002)	(2002)

06665790 SYBILLE CREEK ABOVE CANAL NO. 3, NEAR WHEATLAND, WY—Continued

SUMMARY STATISTICS

FOR 2003 WATER YEAR*

WATER YEAR 1980 - 2003*

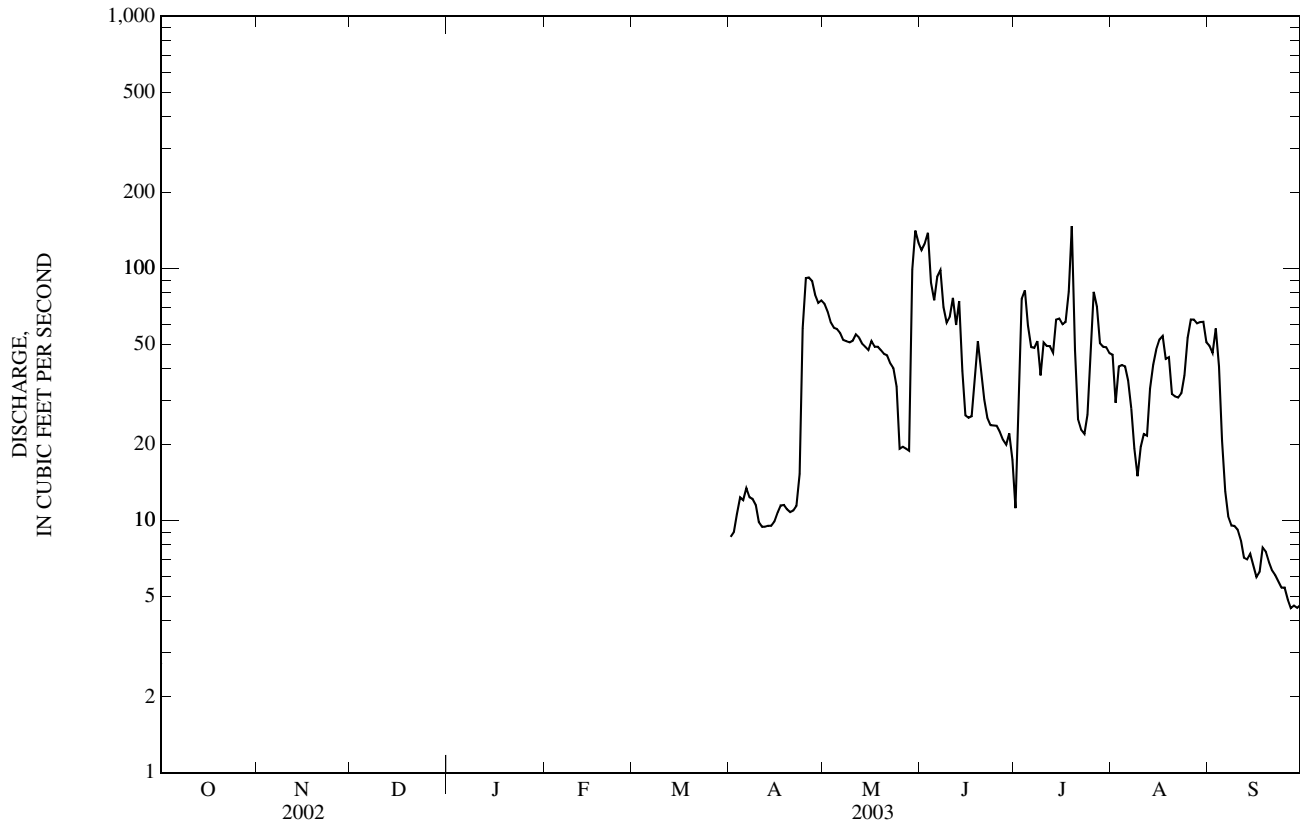
HIGHEST DAILY MEAN	147	Jul 19	1,280	May 22, 1983
LOWEST DAILY MEAN	4.5	Sep 27, 29	0.00	Some days,
				some years
MAXIMUM PEAK FLOW	483	Jul 26	6,900 ^a	Aug 20, 1990
MAXIMUM PEAK STAGE	2.49	Jul 26	8.35 ^b	Aug 20, 1990

* For period of operation.

a From rating curve extended above 1,300 ft³/s on basis of contracted opening measurement of peak flow.

b From floodmarks.

c Estimated.



06669050 WHEATLAND CREEK BELOW WHEATLAND, WY

LOCATION.--Lat 42° 05'05", long 104° 57'02", in SW¹/₄ SW¹/₄ NE¹/₄ sec.1, T.24 N., R.68 W., Platte County, Hydrologic Unit 10180011, 50 ft upstream from bridge on U.S. Highway 87, 50 ft downstream from sewage lagoons, and 1.6 mi north of Wheatland city limits.

PERIOD OF RECORD.--Water years 1983 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
NOV 12...	1000	0.55	651	12.2	104	9.3	1,330	3.0	2.0	2.55	0.73	0.093	0.88
MAR 17...	1040	0.41	633	7.5	77	8.9	1,380	2.0	8.0	3.75	0.74	0.195	1.66
JUN 09...	0940	0.47	640	8.6	107	8.9	1,470	20.5	17.0	0.58	0.50	0.219	2.03
AUG 27...	1000	0.33	644	5.4	72	8.8	1,650	26.0	21.0	0.59	0.33	0.176	1.49
						Date	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)				
						NOV 12...	--	2,000	1,730				
						MAR 17...	--	130	67				
						JUN 09...	180	--	140				
						AUG 27...	3,000	--	4,400				

06670500 LARAMIE RIVER NEAR FORT LARAMIE, WY

LOCATION.--Lat 42° 12'02", long 104° 32'16", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.26 N., R.64 W., Goshen County, Hydrologic Unit 10180011, on right bank 600 ft upstream from bridge on county road, 0.6 mi upstream from mouth, and 1.1 mi southwest of Fort Laramie.

DRAINAGE AREA.--4,564 mi², of which 631 mi² probably is non-contributing. Drainage area at mouth, 4,565 mi².

PERIOD OF RECORD.--April 1915 to current year (no winter records prior to 1927). Monthly discharge only for some periods, published in WSP 1310. Records for water years 1926-39, previously published including diversions to Gering-Fort Laramie Canal, were adjusted to exclude flow in the canal in WSP 1310. Prior to October 1931, published as "at Fort Laramie." No diversion to Gering-Fort Laramie Canal since 1956.

REVISED RECORDS.--WSP 1918: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,257.04 ft above NGVD of 1929, from topographic map. April 4, 1915 to March 31, 1925, nonrecording gage at site 0.1 mi downstream at different datum. April 1, 1925 to September 30, 1932, nonrecording gage and October 1, 1932 to August 20, 1935, water-stage recorder at site 4.3 mi upstream at different datum. August 21, 1935 to November 2, 1970, water-stage recorder at site 0.3 mi upstream at different datum. November 3, 1970 to May 9, 1973, water-stage recorder 0.1 mi downstream at different datum. May 10, 1973 to April 5, 1977, water-stage recorder 4.3 mi upstream at different datum. U.S. Army Corps of Engineers data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Major regulation began after completion of Grey Rocks Reservoir in 1980. Diversion, at times, to Gering-Fort Laramie Canal, 5.4 mi upstream. Natural flow of stream affected by transbasin diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation of about 176,000 acres upstream from station, and return flow from irrigated areas.

COOPERATION.--Three discharge measurements provided by the Wyoming State Engineer's Office.

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	51	50	45	e42	41	e41	56	93	44	43	40	44
2	53	49	45	e43	42	e41	55	122	46	43	43	40
3	53	50	45	44	e41	42	55	120	45	42	41	39
4	54	49	45	43	e41	42	54	117	43	42	43	38
5	52	49	45	43	e41	e43	55	96	46	43	47	38
6	52	49	45	42	e41	44	55	101	47	42	49	40
7	52	51	46	e42	e40	44	55	104	45	43	46	41
8	51	48	45	e42	e41	43	54	101	46	40	46	41
9	52	49	e44	e42	e41	44	54	96	50	38	47	42
10	52	48	e45	e41	e41	46	53	94	44	38	46	46
11	53	47	44	e40	e41	45	53	88	43	41	44	45
12	52	46	44	e41	e41	45	53	82	39	41	40	43
13	49	46	e43	e42	e41	45	53	75	41	43	40	43
14	49	46	44	e42	42	46	53	69	46	42	42	41
15	49	46	44	e42	41	46	53	53	45	38	43	39
16	48	46	43	e42	e40	46	51	46	47	38	43	39
17	48	45	43	e41	41	52	52	43	51	39	45	45
18	48	45	43	e41	41	60	55	44	45	41	46	44
19	48	45	e42	e41	42	54	55	42	45	40	46	42
20	48	45	e43	41	41	51	55	42	45	40	39	41
21	48	45	e43	41	42	50	52	41	46	41	38	41
22	48	45	e43	39	42	51	43	40	47	39	40	40
23	e52	e45	e42	e41	e40	53	58	40	49	41	42	41
24	46	e44	e42	e42	e40	53	57	40	44	46	41	41
25	48	e44	e42	e42	e41	52	55	42	42	47	39	41
26	49	e43	e41	e42	e41	51	56	43	45	51	36	39
27	49	e44	e42	42	e41	55	57	44	46	57	39	38
28	49	e45	e43	42	41	50	58	44	47	52	48	38
29	51	45	43	42	---	49	54	44	50	48	42	38
30	50	45	e43	42	---	49	60	43	47	39	45	38
31	50	---	e43	41	---	49	---	43	---	38	48	---
TOTAL	1,554	1,394	1,350	1,293	1,149	1,482	1,629	2,092	1,366	1,316	1,334	1,226
MEAN	50.1	46.5	43.5	41.7	41.0	47.8	54.3	67.5	45.5	42.5	43.0	40.9
MAX	54	51	46	44	42	60	60	122	51	57	49	46
MIN	46	43	41	39	40	41	43	40	39	38	36	38
AC-FT	3,080	2,760	2,680	2,560	2,280	2,940	3,230	4,150	2,710	2,610	2,650	2,430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2003, BY WATER YEAR (WY)

MEAN	69.1	80.1	86.0	84.4	89.1	104	149	378	303	129	64.5	61.7
MAX	350	388	464	360	418	425	1,056	3,145	2,967	1,925	390	245
(WY)	(1985)	(1985)	(1985)	(1985)	(1984)	(1984)	(1984)	(1973)	(1983)	(1983)	(1984)	(1973)
MIN	13.9	10.3	6.35	6.32	17.3	21.7	37.5	25.3	17.3	23.1	8.73	15.0
(WY)	(1965)	(1981)	(1981)	(1981)	(1981)	(1983)	(1981)	(1963)	(1966)	(1966)	(1975)	(1964)

06670500 LARAMIE RIVER NEAR FORT LARAMIE, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1957 - 2003	
ANNUAL TOTAL	17,107		17,185		--	
ANNUAL MEAN	46.9		47.1		133	
HIGHEST ANNUAL MEAN	--		--		672	
LOWEST ANNUAL MEAN	--		--		26.1	
HIGHEST DAILY MEAN	63	Aug 29	122	May 2	5,810	May 10, 1973
LOWEST DAILY MEAN	32	Aug 1	36	Aug 26	2.0 ^a	Jan 23, 1981
ANNUAL SEVEN-DAY MINIMUM	37	Jul 27	39	Sep 24	3.1	Jan 21, 1981
MAXIMUM PEAK FLOW	--		133 ^b	May 3	6,260	May 10, 1973#
MAXIMUM PEAK STAGE	--		2.81 ^c	Feb 3	9.40 ^d	May 10, 1973#
ANNUAL RUNOFF (AC-FT)	33,930		34,090		96,580	
10 PERCENT EXCEEDS	53		54		213	
50 PERCENT EXCEEDS	46		44		61	
90 PERCENT EXCEEDS	42		40		31	

For period of record 1915-2003.

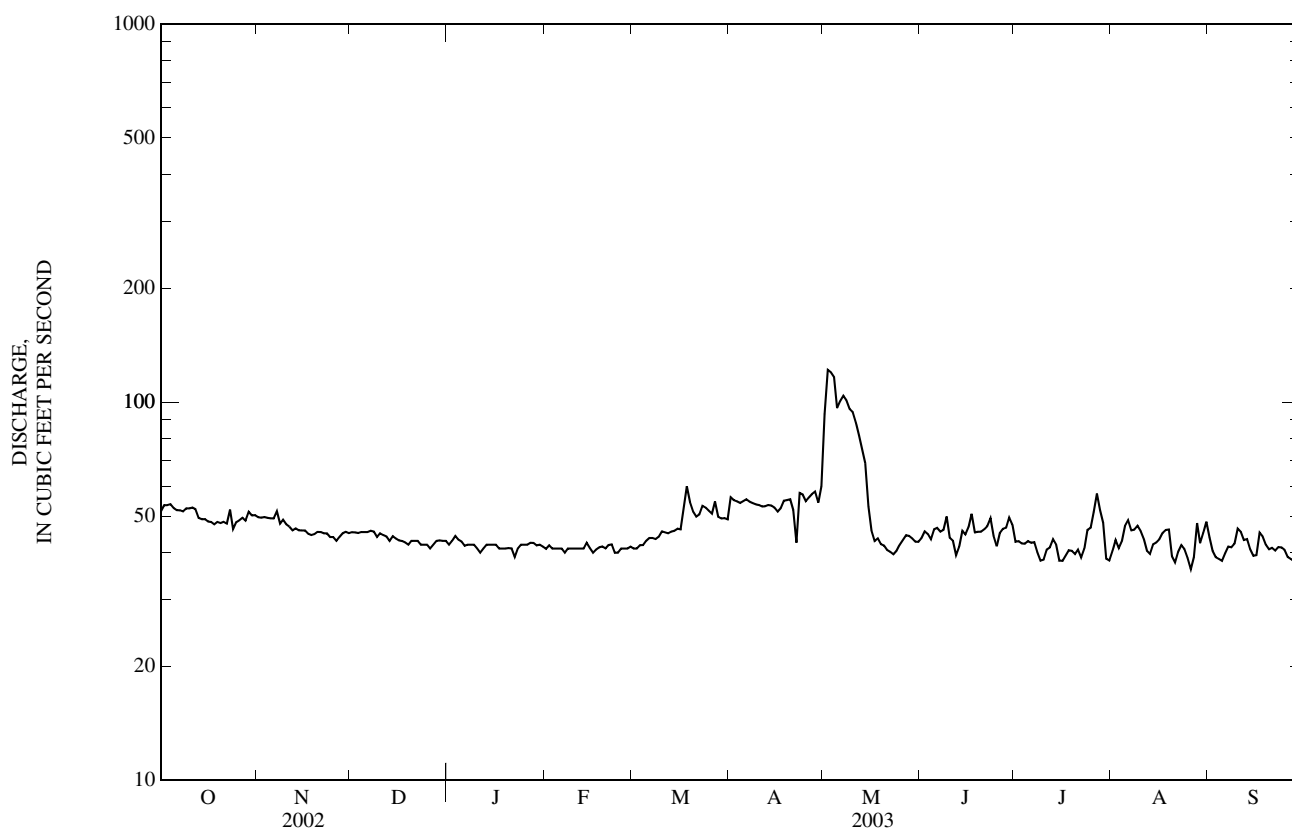
a No flow Jan. 31 to Mar. 20, Oct. 24 to Dec. 17, 1926, Mar. 1-26, 1927, Apr. 14, 1938, all flows diverted by Gering-Fort Laramie Canal.

b Gage height, 2.77 ft.

c Backwater from ice.

d Site and datum then in use.

e Estimated.



06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41° 59' 19", long 104° 03' 10", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.23 N., R.60 W., Goshen County, Hydrologic Unit 10180009, on right bank 2000 ft upstream from bridge on NE State Highway 86, 250 ft upstream from Wyoming-Nebraska State line, and 0.7 mi southeast of Henry, NE.

DRAINAGE AREA.--22,218 mi², of which 1,929 mi² probably is non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1929 to current year.

REVISED RECORDS.--WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Sheet-piling control since March 9, 1994. Datum of gage is 4,025 ft above NGVD of 1929, from topographic map. Prior to November 6, 1929, non-recording gage and November 6, 1929 to September 30, 1959, water-stage recorder at site 0.2 mi upstream at different datum. October 7, 1959 to February 22, 1972 water-stage recorder at site 0.2 mi upstream at different datum. February 22, 1972 to March 9, 1994, water-stage recorder at site 0.3 mi downstream at different datum. U.S. Army Corps of Engineers data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Gering-Mitchell Canal diverts from right bank 0.5 mi upstream.

COOPERATION.--Five discharge measurements provided by Wyoming State Engineer's Office.

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	766	200	165	148	134	136	135	145	4.5	1,040	1,260	312
2	441	199	165	147	136	135	134	145	4.6	1,220	1,160	298
3	289	199	171	146	135	134	132	146	4.2	1,410	1,170	301
4	229	197	170	147	132	135	130	141	3.8	1,520	1,250	262
5	186	196	169	145	132	135	130	63	4.1	1,510	1,270	230
6	160	193	166	145	e130	135	135	23	5.2	1,520	1,310	204
7	143	193	166	145	e130	136	134	22	7.0	1,400	1,300	184
8	130	193	166	145	130	132	132	23	7.0	1,380	1,270	170
9	117	190	166	144	133	130	130	22	7.8	1,350	1,280	164
10	108	187	165	e140	130	130	128	21	9.5	1,330	1,280	147
11	96	186	165	e140	129	131	126	20	10	1,290	1,300	115
12	89	185	164	e140	130	126	125	19	12	1,370	1,300	97
13	85	182	162	146	130	126	122	18	11	1,400	1,250	87
14	82	182	161	145	130	126	122	17	12	1,420	1,210	87
15	81	180	162	e140	129	126	122	15	11	1,480	1,230	81
16	79	177	160	e140	128	127	122	14	11	1,580	1,250	76
17	76	176	160	e140	133	131	120	13	11	1,660	1,310	72
18	66	176	160	141	135	157	122	13	11	1,650	1,320	76
19	61	175	158	141	135	166	122	13	11	2,130	1,340	67
20	59	172	e150	142	135	152	122	13	11	1,770	1,330	62
21	55	172	151	140	135	155	120	13	11	1,730	1,280	56
22	46	176	154	e140	135	157	120	12	11	1,690	1,150	58
23	53	176	e150	e140	e135	151	140	12	16	1,610	954	84
24	58	176	e150	139	e130	143	137	10	195	1,550	735	375
25	54	176	e150	140	e130	138	132	8.8	375	1,460	625	553
26	49	e170	e150	139	e135	135	130	8.5	538	1,470	557	631
27	47	168	148	140	135	148	130	7.2	649	1,590	580	534
28	46	171	149	139	135	146	127	5.5	756	1,600	523	288
29	49	170	150	135	---	140	126	5.1	890	1,540	438	197
30	146	166	150	135	---	139	130	4.3	957	1,390	334	232
31	203	---	150	135	---	138	---	4.5	---	1,370	341	---
TOTAL	4,149	5,459	4,923	4,389	3,706	4,296	3,837	996.9	4,566.7	46,430	32,907	6,100
MEAN	134	182	159	142	132	139	128	32.2	152	1,498	1,062	203
MAX	766	200	171	148	136	166	140	146	957	2,130	1,340	631
MIN	46	166	148	135	128	126	120	4.3	3.8	1,040	334	56
AC-FT	8,230	10,830	9,760	8,710	7,350	8,520	7,610	1,980	9,060	92,090	65,270	12,100

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

MEAN	498	415	366	325	329	495	647	1,161	1,651	1,546	1,257	846
MAX	1,666	1,454	895	751	1,063	4,202	4,407	7,226	10,360	7,170	5,751	4,766
(WY)	(1987)	(1987)	(1930)	(1930)	(1984)	(1974)	(1974)	(1971)	(1929)	(1983)	(1983)	(1983)
MIN	134	174	159	142	132	139	89.6	12.2	49.1	611	154	203
(WY)	(2003)	(1935)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(1992)	(1934)	(1934)	(2003)

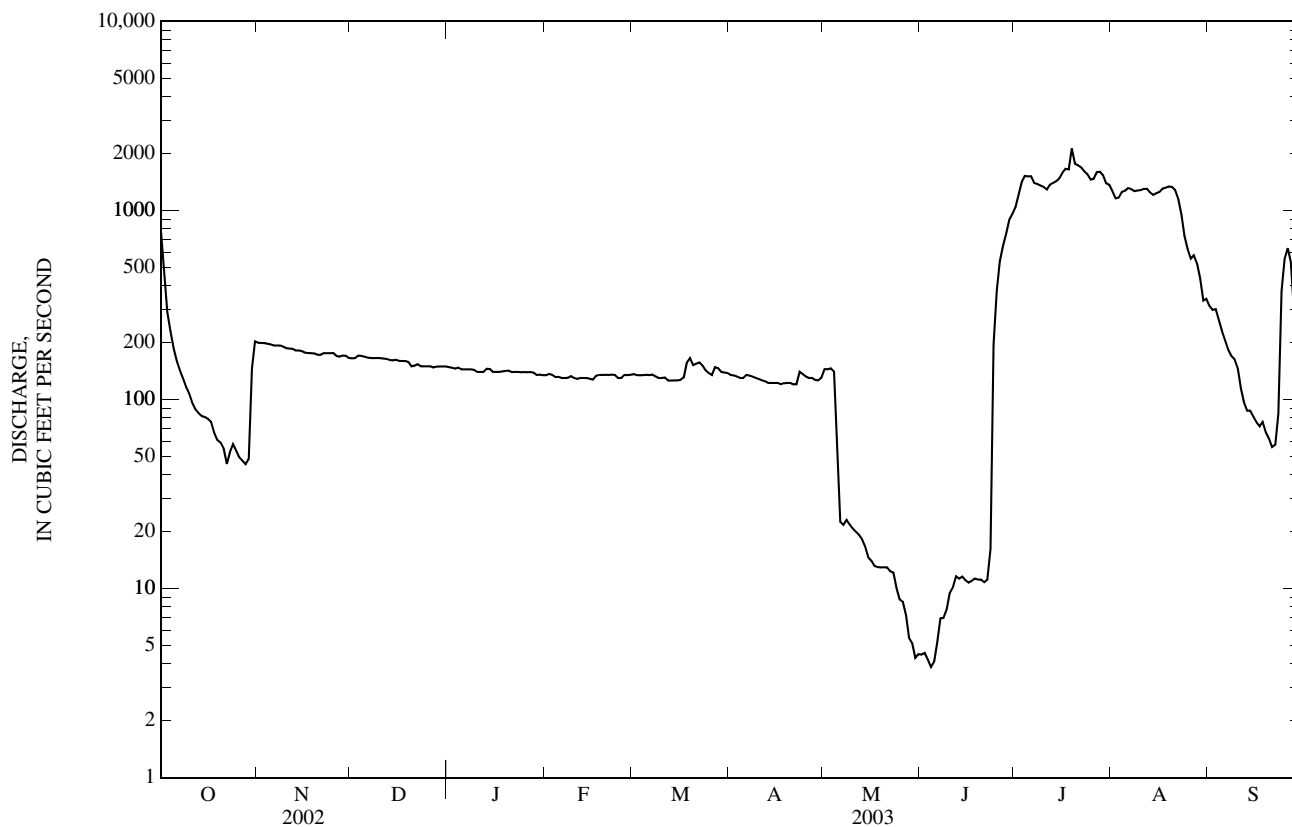
06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	122,753.9		121,759.6		--	
ANNUAL MEAN	336		334		779	
HIGHEST ANNUAL MEAN	--		--		2,863	
LOWEST ANNUAL MEAN	--		--		334	
HIGHEST DAILY MEAN	1,800	Jul 4	2,130	Jul 19	17,600	Jun 2, 1929
LOWEST DAILY MEAN	0.00	May 14-27	3.8	Jun 4	0.00	May 14-17, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	May 14	4.3	May 30	0.00	May 14, 2002
MAXIMUM PEAK FLOW	--		2,820		17,900 ^a	Jun 2, 1929
MAXIMUM PEAK STAGE	--		3.91		7.04 ^b	Jun 2, 1929
ANNUAL RUNOFF (AC-FT)	243,500		241,500		564,300	
10 PERCENT EXCEEDS	876		1,290		1,430	
50 PERCENT EXCEEDS	179		141		474	
90 PERCENT EXCEEDS	16		13		199	

a Maximum observed.

b Site and datum then in use.

c Estimated.



06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, uS/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 18...	0750	54	657	10.6	104	7.8	903	-3.5	8.0	E.02	2.17	0.028	<0.02
MAR 06...	0945	133	653	11.9	106	8.1	963	10.0	4.0	0.15	2.46	0.026	0.02
MAY 30...	1130	4.7	663	7.3	83	7.6	852	25.5	14.5	<0.04	0.42	0.016	<0.02
SEP 08...	1025	168	660	8.6	104	8.1	899	20.0	17.5	0.04	1.94	0.019	<0.02

Date	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT 18...	25	3.6
MAR 06...	50	18
MAY 30...	20	0.25
SEP 08...	5	2.3

E -- Estimated value

06755960 CROW CREEK AT 19TH STREET, AT CHEYENNE, WY

LOCATION.--Lat 41°07'52", long 104°49'41", in NW¹/₄ NW¹/₄ NW¹/₄ sec.6, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, on right bank at upstream side of 19th Street, at Cheyenne, and 0.5 mi upstream from Clear Creek.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--October 1993 to current year.

REVISED RECORDS.--WDR WY-96-1: 1994; WDR WY-99-1: 1997.

GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above NGVD of 1929, from topographic map. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records fair except for discharges below 0.5 ft³/sec and those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 20, 1904, stage unknown, estimated 8,500 ft³/s; flood of August 1, 1985, reached a stage of 9.6 ft, present datum, from floodmarks, discharge, 2,980 ft³/s, on basis of indirect measurement of peak flow.

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	0.95	e1.3	1.7	e1.7	2.0	e1.4	5.1	3.9	2.6	1.7	0.53	1.1
2	0.99	e1.4	1.7	e1.8	2.0	e1.5	4.8	3.1	3.3	1.4	0.50	1.0
3	1.4	e1.5	1.6	1.9	e1.8	e1.6	4.2	2.7	1.9	1.4	0.47	1.1
4	1.2	e1.6	1.7	2.5	e1.7	e1.4	3.7	2.5	7.0	1.3	0.44	0.54
5	1.2	e1.8	1.6	2.4	e1.6	e1.5	4.9	2.3	4.6	1.1	0.43	0.49
6	1.2	2.2	e1.6	2.3	e1.5	e1.5	5.9	2.3	6.2	1.1	0.42	0.47
7	1.2	2.0	e1.5	e2.4	e1.6	e1.5	4.7	2.3	5.0	1.1	0.44	1.7
8	0.93	2.1	e1.4	e2.6	e1.7	1.6	4.0	3.2	3.1	1.0	0.46	1.6
9	0.94	2.1	e1.5	e1.8	e1.7	1.6	3.8	3.8	2.5	1.00	0.46	1.3
10	0.95	1.8	e1.7	e1.6	e1.8	1.7	3.6	9.6	6.4	0.86	0.45	0.68
11	0.93	1.7	e1.5	e1.7	e1.9	1.7	3.4	5.5	5.5	0.86	0.43	0.60
12	0.96	1.5	e1.4	e1.8	e2.0	1.8	3.1	4.2	3.4	0.77	0.40	0.53
13	1.0	1.5	1.4	1.9	e2.1	1.9	2.9	3.7	2.7	0.73	0.38	0.53
14	1.0	e1.5	1.5	e2.0	1.9	1.8	2.5	3.4	2.3	0.70	0.37	0.60
15	1.0	e1.5	1.5	e1.9	1.9	1.8	2.9	3.2	2.1	0.69	0.37	0.55
16	1.1	e1.6	e1.5	e1.8	e1.9	1.8	2.6	3.3	3.1	0.65	0.38	0.55
17	1.1	1.6	e1.5	e1.7	e1.9	e2.0	2.7	3.0	4.4	0.68	0.48	0.82
18	1.1	1.5	e1.4	e1.8	e1.9	e1.8	3.6	5.3	3.1	0.69	1.4	0.88
19	1.1	1.4	e1.4	e2.0	e1.8	e2.1	2.3	3.3	2.5	0.67	0.58	0.67
20	1.1	1.4	e1.5	e2.0	e1.9	4.9	2.1	2.6	2.5	0.64	0.46	0.60
21	1.1	1.4	e1.5	e1.8	e1.9	6.1	1.9	2.3	2.4	0.59	0.44	0.53
22	1.1	1.4	e1.5	e1.6	e1.8	5.6	2.7	2.2	2.1	0.55	0.43	0.52
23	1.3	1.4	e1.4	e1.7	e1.5	9.2	10	2.1	2.6	0.54	0.40	0.52
24	1.4	e1.4	e1.4	e1.7	e1.3	11	10	1.9	2.6	0.52	0.45	0.51
25	1.4	e1.3	e1.4	e1.7	e1.5	8.5	6.7	1.8	2.3	0.52	0.42	0.51
26	1.5	e1.3	e1.4	e1.7	e1.7	8.9	5.5	1.7	2.1	2.8	2.0	0.53
27	2.3	e1.5	e1.5	1.7	e1.7	8.9	4.3	1.6	1.9	1.2	1.0	0.62
28	1.7	1.7	e1.6	e1.7	e1.6	5.9	3.6	1.5	1.7	0.71	0.48	0.64
29	2.1	1.9	e1.8	e1.7	---	e4.2	3.7	1.4	2.1	0.63	0.46	0.66
30	1.6	1.7	e1.7	1.7	---	4.4	4.9	1.7	1.9	0.59	1.6	0.68
31	e1.5	---	e1.8	1.9	---	4.7	---	2.3	---	0.53	1.6	---
TOTAL	38.35	48.0	47.6	58.5	49.6	114.3	126.1	93.7	95.9	28.22	19.13	22.03
MEAN	1.24	1.60	1.54	1.89	1.77	3.69	4.20	3.02	3.20	0.91	0.62	0.73
MAX	2.3	2.2	1.8	2.6	2.1	11	10	9.6	7.0	2.8	2.0	1.7
MIN	0.93	1.3	1.4	1.6	1.3	1.4	1.9	1.4	1.7	0.52	0.37	0.47
AC-FT	76	95	94	116	98	227	250	186	190	56	38	44

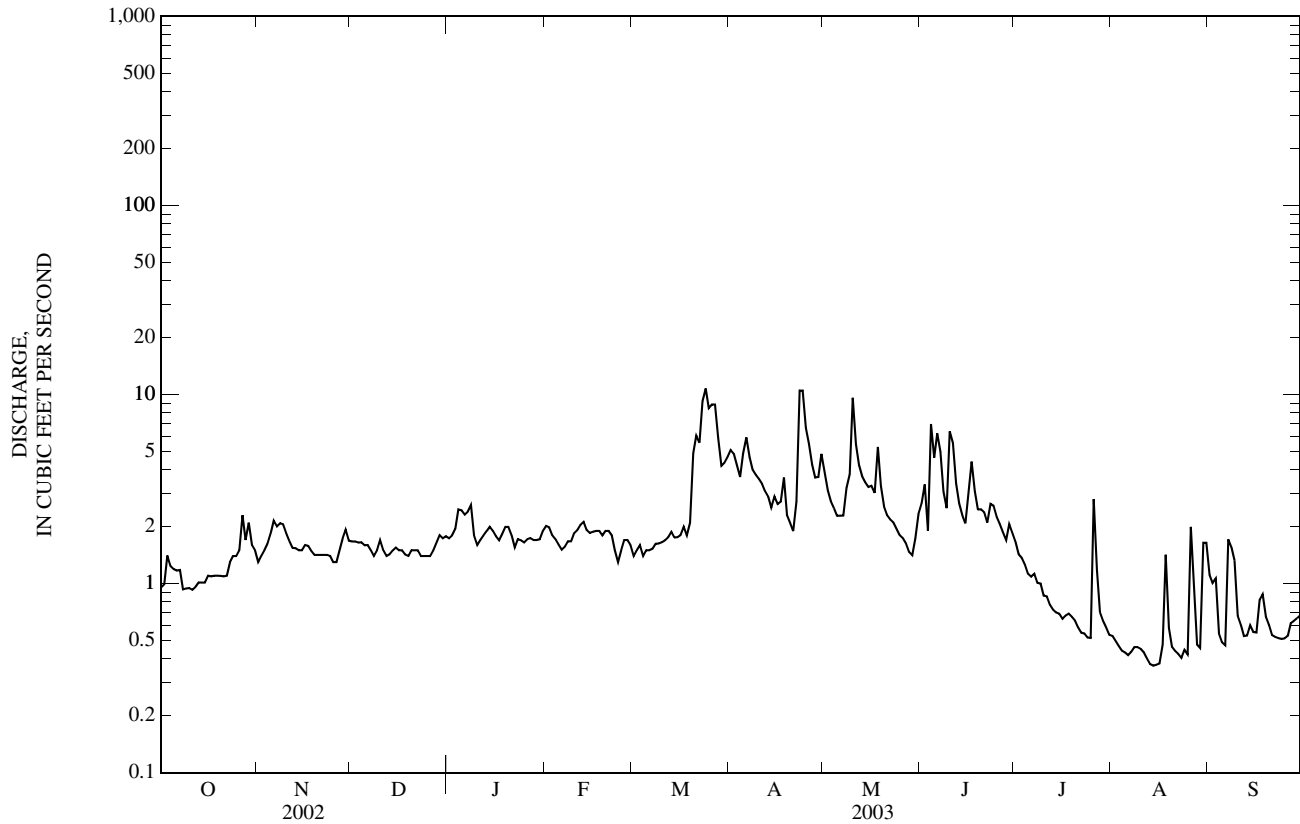
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

	MEAN	5.82	7.08	5.88	5.79	6.48	7.86	10.7	35.0	22.8	6.58	5.85	4.35
MAX	26.3	29.7	19.9	14.8	13.0	17.5	27.3	252	90.1	26.7	30.0	19.4	
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1999)	(1999)	(1999)	(1995)	(1997)	(1997)
MIN	1.24	1.46	1.39	1.48	1.61	1.60	1.95	2.74	0.90	0.25	0.62	0.73	
(WY)	(2003)	(1995)	(1995)	(1995)	(1995)	(1995)	(1995)	(2002)	(2000)	(2002)	(2003)	(2003)	(2003)

06755960 CROW CREEK AT 19TH STREET, AT CHEYENNE, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1994 - 2003	
ANNUAL TOTAL	848.25		741.43		--	
ANNUAL MEAN	2.32		2.03		10.4	
HIGHEST ANNUAL MEAN	--		--		37.4	
LOWEST ANNUAL MEAN	--		--		2.03	
HIGHEST DAILY MEAN	13	Sep 12	11	Mar 24	579	May 1, 1999
LOWEST DAILY MEAN	0.15	Aug 2	0.37	Aug 14,15	0.15	Aug 2, 2002
ANNUAL SEVEN-DAY MINIMUM	0.18	Jul 29	0.40	Aug 10	0.18	Jul 29, 2002
MAXIMUM PEAK FLOW	--		55		687	Apr 30, 1999
MAXIMUM PEAK STAGE	--		2.71		5.56	Apr 30, 1999
ANNUAL RUNOFF (AC-FT)	1,680		1,470		7,520	
10 PERCENT EXCEEDS	5.2		3.9		18	
50 PERCENT EXCEEDS	1.7		1.7		3.6	
90 PERCENT EXCEEDS	0.34		0.53		1.2	

e Estimated.



06756060 CROW CREEK NEAR ARCHER, WY

LOCATION.--Lat 41° 07' 35", long 104° 39' 04", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 13 N., R. 65 W., Laramie County, Hydrologic Unit 10190009, 0.4 mi upstream from highwater line of Wyoming Hereford Ranch Reservoir No. 2, and 2.3 mi southeast of Archer.

PERIOD OF RECORD.--November 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
NOV 13...	1000	6.9	617	7.6	74	7.8	791	10.0	5.0	8.44	6.04	0.257	2.19
MAR 17...	1305	7.2	605	8.1	82	8.1	837	3.0	6.0	11.0	2.58	0.136	2.68
JUN 09...	1240	8.6	614	6.6	82	8.2	832	19.0	15.0	4.29	2.99	0.295	1.69
AUG 26...	0810	4.4	622	3.8	48	7.9	782	22.0	16.5	0.91	5.78d	0.392	2.84
Date								E coli, modif. m-TEC, water, col/ 100 mL (90902)		E coli, m-TEC MF, water, col/ 100 mL (31633)		Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	
NOV 13...								--		88		36	
MAR 17...								--		220		67	
JUN 09...								110		--		177	
AUG 26...								25		--		E19k	

E -- Estimated value

k -- Counts outside acceptable range (Non-ideal colony count)

LOCATION.--Lat 41° 13' 50" long 103° 53' 28", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T.15 N., R.57 W., Kimball County, Hydrologic Unit 10190016, on left bank 0.1 mi south of Bushnell at north end of highway bridge on State Highway 53c.

PERIOD OF RECORD.--October 1931 to September 1991, October 2002 to September 2003. Records for March to September 1931 at site 1.5 mi upstream not equivalent owing to diversions. Monthly discharge only for some periods, published in WSP 1310.

GAGE.—Water-stage recorder. Elevation of gage is 4,843.31 ft above NGVD of 1929. Prior to March 16, 1938, nonrecording gage; March 26, 1938 to July 2, 1981, water stage recorder; July 3, 1981 to September 30, 1981, a nonrecording gage at previous site 1.7 mi downstream from present site at datum 31.01 ft lower. October 1, 1981 to September 30, 1991, recording gage at present site at datum 2.0 ft higher. Data collection platform at station.

REMARKS.--Records good except those for estimated daily discharges, and those over 2.0 ft³/s, which are poor. Natural flow of stream affected by ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Diversions for irrigation of about 12,600 acres above station.

[illegible]

06762500 LODGEPOLE CREEK AT BUSHNELL, NE—Continued

SUMMARY STATISTICS	FOR 2003 WATER YEAR		WATER YEARS 1934 - 2003	
ANNUAL TOTAL	176.67		--	
ANNUAL MEAN	0.48		9.73	
HIGHEST ANNUAL MEAN	--		18.1	1935
LOWEST ANNUAL MEAN	--		0.48	2003
HIGHEST DAILY MEAN	8.8	Jul 29	1,170	Sep 15, 1950
LOWEST DAILY MEAN	0.00	Many days	0.00	Many days, most years
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 1	0.00	Many days
MAXIMUM PEAK FLOW	18	Jul 29	16,500 ^a	Sep 15, 1950
MAXIMUM PEAK STAGE	4.96	Jul 29	10.06 ^b	Jul 2, 1981
ANNUAL RUNOFF (AC-FT)	350		7,050	
10 PERCENT EXCEEDS	1.1		15	
50 PERCENT EXCEEDS	0.46		8.6	
90 PERCENT EXCEEDS	0.00		3.3	

a Stage 9.98 ft, datum then in use. From rating curve extended above 2,700 ft³/s on basis of slope-area measurement.
b Site and datum then in use.
e Estimated.

