

GREAT SALT LAKE BASIN

BEAR RIVER BASIN

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40° 57'55", long 11° 05'10", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, T. 3 N., R. 10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank 400 ft downstream from West Fork and 2.8 mi upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,965 ft above NGVD of 1929, from river-profile map. Prior to October 1, 1986 at datum 3.0 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft since 1966. Three diversions upstream from station for irrigation of about 265 acres upstream and 2,600 acres downstream from station. Station operated and record provided by the Utah District.

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	e98	51	e48	e27	e28	e20	52	169	1,330	248	89	76
2	104	47	e44	e28	e28	e21	50	157	1,140	234	88	69
3	98	66	e43	e29	e26	e21	42	168	927	217	87	68
4	91	68	e41	e29	e24	e20	37	181	788	216	84	60
5	90	62	41	e30	e20	e19	41	160	678	227	78	58
6	88	59	e40	e32	e18	e19	41	139	601	213	73	63
7	93	57	e38	e34	e16	e20	40	148	559	188	69	67
8	93	56	e37	e33	e14	e20	41	146	516	147	70	60
9	89	57	e38	e31	e13	e21	50	142	504	135	68	65
10	84	e54	e37	e31	e14	e21	65	146	490	147	61	77
11	82	e57	e35	e32	e15	e22	89	135	468	184	65	79
12	75	52	e36	e32	e16	e23	118	143	446	178	61	73
13	73	59	e37	e33	e18	e25	155	191	428	e172	59	66
14	72	56	e36	e33	e19	e26	190	257	367	174	66	62
15	70	54	e35	e32	e18	e27	190	349	337	178	87	61
16	68	53	e35	e31	e18	e28	159	441	343	148	68	60
17	66	55	e34	e29	e21	e29	161	527	369	149	88	59
18	64	51	33	e27	e23	e30	149	578	295	148	62	60
19	62	53	e30	e26	e25	e31	127	582	278	137	58	e62
20	62	55	e28	e26	e27	e33	118	527	259	143	56	60
21	62	55	e25	e27	e29	35	142	e600	281	127	58	58
22	66	54	e22	e28	e27	36	155	755	374	118	66	56
23	69	53	e21	e29	e25	39	121	945	326	110	65	54
24	68	e52	e19	e30	e24	38	136	1,080	364	103	60	52
25	64	50	e19	e31	e23	34	200	1,100	382	106	57	51
26	66	e50	e20	e31	e22	39	249	1,330	394	114	53	50
27	64	e50	e21	e32	e21	29	237	1,420	382	110	54	49
28	59	e50	e22	e32	e20	39	232	1,520	314	104	55	48
29	60	e48	e22	e31	---	42	215	1,620	266	97	55	47
30	54	e48	e23	e30	---	41	200	1,640	255	94	111	45
31	49	---	e25	e28	---	44	---	1,500	---	91	85	---
TOTAL	2,303	1,632	985	934	592	892	3,802	18,796	14,461	4,757	2,156	1,815
MEAN	74.3	54.4	31.8	30.1	21.1	28.8	127	606	482	153	69.5	60.5
MAX	104	68	48	34	29	44	249	1,640	1,330	248	111	79
MIN	49	47	19	26	13	19	37	135	255	91	53	45
AC-FT	4,570	3,240	1,950	1,850	1,170	1,770	7,540	37,280	28,680	9,440	4,280	3,600

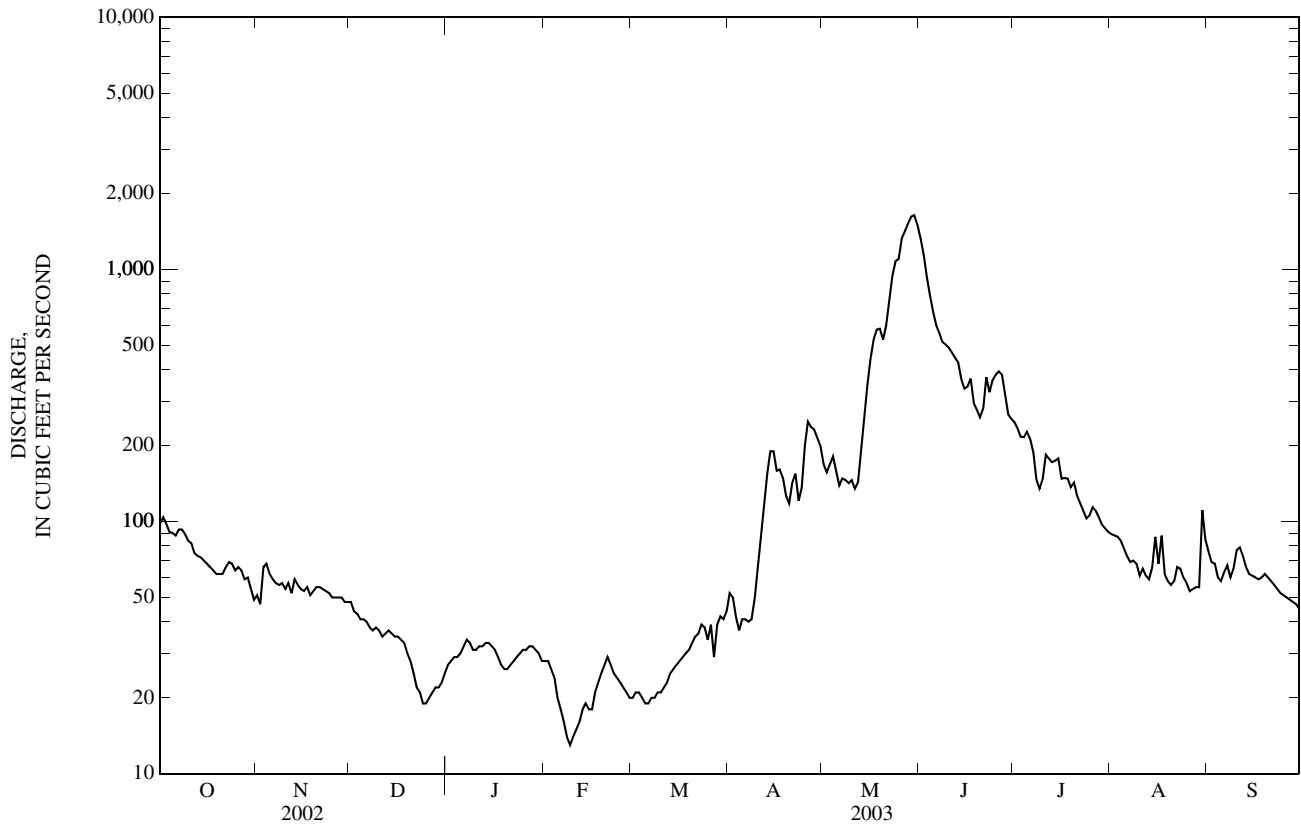
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2003, BY WATER YEAR (WY)

MEAN	63.4	54.6	46.5	41.8	39.7	43.5	111	597	845	298	93.7	73.7
MAX	208	106	94.9	72.4	64.3	69.0	316	1,044	1,990	1,105	224	229
(WY)	(1983)	(1984)	(1984)	(1984)	(1984)	(1986)	(1946)	(1984)	(1986)	(1995)	(1965)	(1983)
MIN	30.8	32.5	27.7	29.6	21.1	26.0	37.2	162	204	67.4	31.0	23.9
(WY)	(1959)	(1955)	(1960)	(1991)	(2003)	(1964)	(1944)	(1977)	(1992)	(1961)	(2002)	(1956)

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1943 - 2003	
ANNUAL TOTAL	38,816	53,125	--	
ANNUAL MEAN	106	146	193	
HIGHEST ANNUAL MEAN	--	--	335	1986
LOWEST ANNUAL MEAN	--	--	81.5	1977
HIGHEST DAILY MEAN	830 Jun 1	1,640 May 30	2,680	Jun 4, 1986
LOWEST DAILY MEAN	19 Dec 24,25	13 ^e Feb 9	13	Feb 9, 2003
ANNUAL SEVEN-DAY MINIMUM	21 Dec 22	15 Feb 6	15	Feb 6, 2003
MAXIMUM PEAK FLOW	--	2,040 May 30	3,230	Jun 6, 1986
MAXIMUM PEAK STAGE	--	6.76 May 30	4.05 ^a	Jun 6, 1986
ANNUAL RUNOFF (AC-FT)	76,990	105,400	139,500	
10 PERCENT EXCEEDS	263	355	593	
50 PERCENT EXCEEDS	54	60	59	
90 PERCENT EXCEEDS	27	23	33	

a Datum then in use.
e Estimated.



BEAR RIVER BASIN

10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat 41° 16'13", long 110° 57'47", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.21, T.15 N., R.120 W., Uinta County, Hydrologic Unit 16010101, on left bank 100 ft downstream from bridge on State Highway 89, in the City of Evanston.

DRAINAGE AREA.--433 mi².

PERIOD OF RECORD.--May 1984 to current year (no winter records 1984 to 2001).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated discharges, which are poor. Natural flow of stream affected by storage reservoirs, 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	65	e21	e14	e14	e24	e37	136	152	1,350	130	41	37
2	94	e18	e13	e15	e25	e35	122	146	1,200	139	49	31
3	81	e19	e14	e14	e26	e36	90	141	942	120	60	29
4	73	e19	e13	e14	e26	e38	70	157	765	100	58	30
5	64	e18	e13	e14	e28	e42	75	200	630	95	53	33
6	59	e17	e14	e15	e29	e41	80	169	534	95	41	40
7	58	e16	e14	e14	e30	43	71	157	522	93	35	50
8	68	e15	e15	e15	e32	55	79	183	485	96	32	49
9	66	e16	e15	e14	e33	70	104	197	434	93	34	39
10	59	e15	e13	e15	e33	85	126	230	388	91	33	48
11	54	e14	e12	e15	e33	143	131	340	381	89	33	60
12	51	e15	e12	e14	e34	226	158	264	343	91	36	54
13	48	e14	e13	e14	e35	203	192	241	362	91	31	45
14	44	e14	e12	e14	e37	215	251	292	322	86	33	36
15	43	e13	e13	e14	e38	145	295	385	275	89	46	33
16	39	e12	e14	e14	e40	137	211	519	246	102	62	32
17	e36	e13	e13	e15	e41	111	211	666	242	110	74	26
18	32	e12	e12	e16	e39	89	215	612	211	117	54	27
19	31	e13	e12	e17	e40	83	189	684	199	98	36	28
20	26	e13	e12	e18	e38	88	159	595	180	102	35	26
21	22	e13	e13	e19	e36	87	151	579	232	97	42	24
22	20	e12	e13	e20	e35	95	174	705	357	68	46	21
23	29	e12	e12	e20	e33	128	148	898	498	57	48	18
24	e34	e13	e11	e20	e32	104	119	1,050	849	53	48	21
25	e31	e13	e12	e19	e32	78	149	1,010	745	65	40	23
26	e30	e14	e12	e20	e32	88	245	1,190	580	57	40	22
27	e26	e15	e13	e21	e36	77	233	1,340	475	59	35	21
28	e25	e16	e13	e21	e38	70	220	1,360	321	53	36	21
29	e26	e16	e14	e24	---	67	187	1,510	212	53	37	21
30	e23	e15	e15	e25	---	77	176	1,560	178	53	38	21
31	e20	---	e14	e24	---	119	---	1,500	---	44	58	---
TOTAL	1,377	446	405	528	935	2,912	4,767	19,032	14,458	2,686	1,344	966
MEAN	44.4	14.9	13.1	17.0	33.4	93.9	159	614	482	86.6	43.4	32.2
MAX	94	21	15	25	41	226	295	1,560	1,350	139	74	60
MIN	20	12	11	14	24	35	70	141	178	44	31	18
AC-FT	2,730	885	803	1,050	1,850	5,780	9,460	37,750	28,680	5,330	2,670	1,920

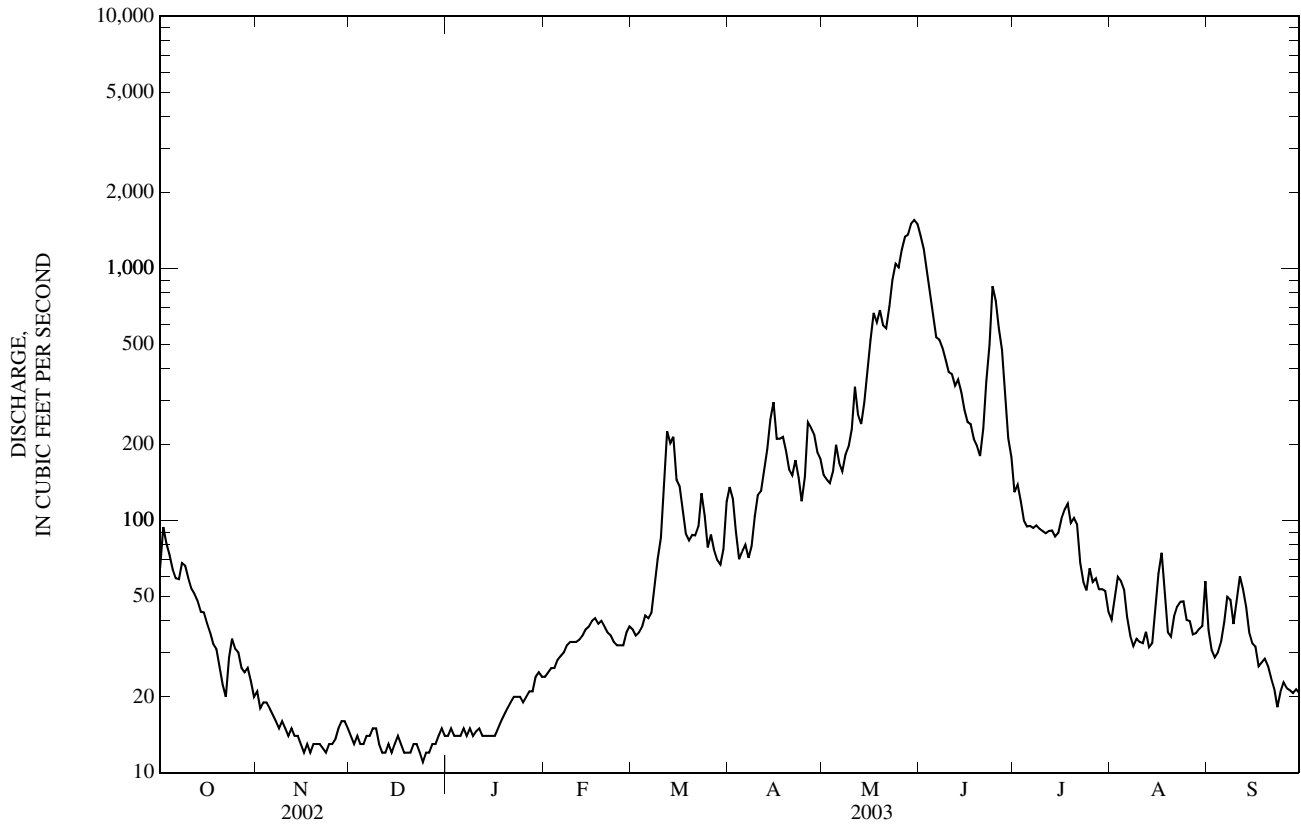
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2003, BY WATER YEAR (WY)

MEAN	28.0	16.0	20.2	20.6	29.9	69.7	297	747	758	197	64.5	55.5
MAX	44.4	17.2	27.4	24.1	33.4	93.9	602	1,291	1,890	980	181	225
(WY)	(2003)	(2002)	(2002)	(2002)	(2003)	(2003)	(1985)	(1986)	(1986)	(1995)	(1984)	(1984)
MIN	11.5	14.9	13.1	17.0	26.4	45.5	133	330	121	31.9	12.8	11.8
(WY)	(2002)	(2003)	(2003)	(2003)	(2002)	(2002)	(1995)	(1990)	(1992)	(2000)	(2002)	(1988)

10016900 BEAR RIVER AT EVANSTON, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1984 - 2003	
ANNUAL TOTAL	30,168.7		49,856		--	
ANNUAL MEAN	82.7		137		109	
HIGHEST ANNUAL MEAN	--		--		137 2003	
LOWEST ANNUAL MEAN	--		--		81.3 2002	
HIGHEST DAILY MEAN	815	May 21	1,560 ^e	May 30	3,160	May 16, 1984
LOWEST DAILY MEAN	6.2	Aug 12	11	Dec 24	3.2	Oct 20, 2001
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 6	12	Dec 18	5.3	Aug 18, 1988
MAXIMUM PEAK FLOW	--		1,820	May 30	3,680	May 16, 1984
MAXIMUM PEAK STAGE	--		5.21	May 30	7.35	May 16, 1984
ANNUAL RUNOFF (AC-FT)	59,840		98,890		78,920	
10 PERCENT EXCEEDS	254		341		275	
50 PERCENT EXCEEDS	28		41		34	
90 PERCENT EXCEEDS	13		14		13	

e Estimated.



10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41° 26'04", long 111° 01'01", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 17 N., R. 120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,455 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion for irrigation of about 43,500 acres upstream from station. Station operated and record provided by the Utah District.

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	5.0	1.6	44	e13	e42	e5.2	80	90	1,320	86	34	35
2	9.3	1.4	45	e12	e47	e6.5	76	78	1,160	73	34	30
3	13	1.4	42	e11	e24	e7.0	62	73	929	69	43	27
4	8.6	1.6	37	e10	e17	e8.0	43	76	735	55	50	24
5	7.7	10	42	e9.6	e14	e9.0	34	123	580	43	47	25
6	6.7	31	39	e9.0	e12	e9.8	39	151	416	39	40	30
7	6.1	33	33	e8.0	e9.4	e13	41	155	382	36	31	38
8	5.8	38	31	e7.4	e7.4	e18	34	195	355	32	27	45
9	5.5	57	26	e7.3	e5.9	e28	46	212	312	e29	26	41
10	5.3	e53	30	e6.7	e5.2	e60	72	239	259	e27	26	37
11	4.6	e46	27	e6.2	e4.0	e130	77	280	239	e27	29	40
12	3.4	42	25	e5.9	e3.3	e200	95	226	229	e26	25	47
13	2.9	37	27	e6.2	e2.4	297	124	165	254	e26	26	46
14	3.2	40	26	e6.0	e3.3	318	171	198	238	e26	24	40
15	3.1	45	26	e5.8	e4.5	207	210	257	189	27	26	36
16	2.8	36	28	e5.0	e7.0	147	184	369	162	29	34	35
17	2.2	40	31	e4.0	e9.0	108	144	500	150	37	53	36
18	1.8	65	23	e3.7	e10	80	144	520	144	46	42	31
19	1.8	50	23	e3.3	e8.2	61	144	584	127	49	33	31
20	1.7	47	29	e2.9	e7.3	55	116	528	115	43	29	32
21	1.6	39	e26	e2.5	e6.3	54	96	471	131	47	30	31
22	1.9	41	e25	e2.6	e5.5	52	104	521	213	35	40	21
23	3.0	45	e23	e3.4	e6.0	69	119	726	327	23	43	17
24	3.0	51	e22	e4.1	e7.0	72	81	903	774	25	35	15
25	2.4	45	e20	e5.0	e7.6	55	70	990	772	29	39	20
26	2.0	54	e19	e7.1	e6.5	37	135	1,010	529	37	36	23
27	2.0	36	e18	e8.8	e5.3	48	173	1,190	386	29	33	24
28	2.1	35	e17	e17	e3.0	38	143	1,230	274	37	29	24
29	1.8	38	e16	e36	---	e36	118	1,290	176	40	30	23
30	1.7	48	e15	e35	---	33	109	1,380	125	45	33	23
31	1.7	---	e14	e20	---	49	---	1,440	---	42	37	---
TOTAL	123.7	1,108.0	849	284.5	290.1	2,310.5	3,084	16,170	12,002	1,214	1,064	927
MEAN	3.99	36.9	27.4	9.18	10.4	74.5	103	522	400	39.2	34.3	30.9
MAX	13	65	45	36	47	318	210	1,440	1,320	86	53	47
MIN	1.6	1.4	14	2.5	2.4	5.2	34	73	115	23	24	15
AC-FT	245	2,200	1,680	564	575	4,580	6,120	32,070	23,810	2,410	2,110	1,840

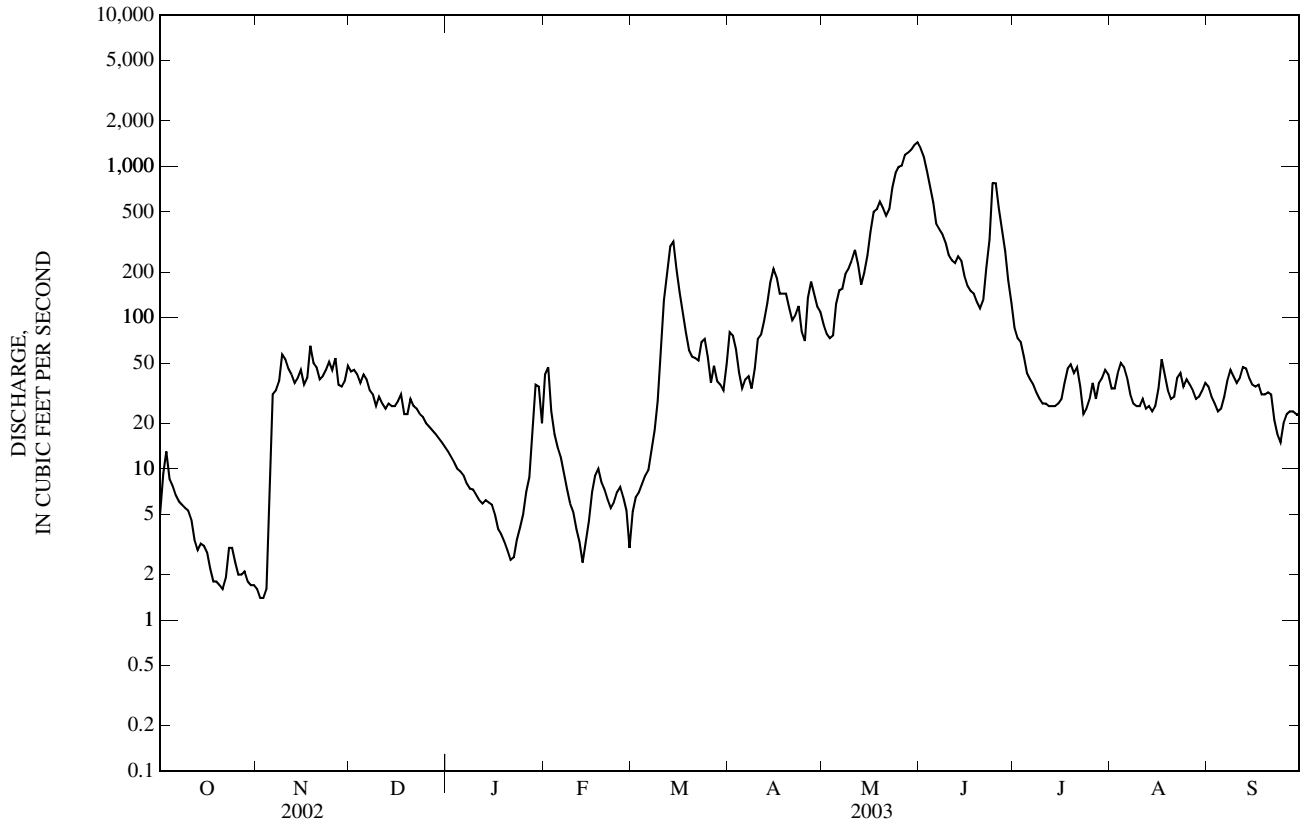
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

MEAN	71.1	71.5	70.6	66.7	81.8	163	330	792	831	193	48.9	48.0
MAX	437	198	181	147	312	627	671	1,957	2,564	1,191	340	288
(WY)	(1983)	(1974)	(1984)	(1984)	(1986)	(1986)	(1969)	(1984)	(1986)	(1995)	(1983)	(1983)
MIN	3.03	6.06	7.21	6.76	10.4	26.8	77.7	104	54.6	44.1	0.68	0.49
(WY)	(1965)	(1989)	(1989)	(1989)	(2003)	(1977)	(1977)	(1977)	(1992)	(2000)	(2000)	(1988)

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1962 - 2003
ANNUAL TOTAL	22,914.98	39,426.8	--
ANNUAL MEAN	62.8	108	231
HIGHEST ANNUAL MEAN	--	--	583 1986
LOWEST ANNUAL MEAN	--	--	45.1 1977
HIGHEST DAILY MEAN	613 May 21	1,440 May 31	3,900 Jun 2, 1983
LOWEST DAILY MEAN	0.00 Sep 1, 2	1.4 Nov 2, 3	0.00 Many days, 1988
ANNUAL SEVEN-DAY MINIMUM	0.04 Aug 31	1.6 Oct 29	0.00 Aug 30, 1988
MAXIMUM PEAK FLOW	--	1,570 May 31	4,150 Jun 2, 1983
MAXIMUM PEAK STAGE	--	4.71 May 31	6.17 Jun 2, 1983
ANNUAL RUNOFF (AC-FT)	45,450	78,200	167,100
10 PERCENT EXCEEDS	159	255	684
50 PERCENT EXCEEDS	37	35	81
90 PERCENT EXCEEDS	1.3	4.1	8.4

e Estimated.



10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 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 unfiltered, uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
JAN 10...	0925	42	560	13.3	124	8.3	535	3.0	0.0	250	63.5	23.1	2.66	
MAR 13...	0915	338	595	10.5	97	7.6	306	8.0	2.0	120	28.3	12.4	3.69	
MAY 14...	1810	283	600	9.4	123	8.1	364	19.0	16.5	180	45.0	15.8	1.79	
AUG 14...	1005	25	609	6.8	92	7.3	422	29.0	19.0	180	37.4	20.5	2.81	
Date		Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water fltrd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	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)
JAN 10...		0.7	26.7	232	29.9	0.16	4.6	21.5	311	0.42	35.2	<0.04	E.03	<0.008
MAR 13...		0.4	9.93	120	15.0	0.14	7.1	15.2	164	0.22	150	0.07	0.13	E.006
MAY 14...		0.3	9.64	163	12.9	<0.17	3.5	17.0	203	0.28	155	<0.04	<0.06	<0.008
AUG 14...		0.6	18.4	172	22.1	<0.2	3.9	20.2	228	0.31	15.4	<0.04	<0.06	<0.008
Date						Orthophosphate, water, fltrd, mg/L as P (00671)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)						
JAN 10...						0.02	235	27						
MAR 13...						0.05	641	585						
MAY 14...						<0.02	33	25						
AUG 14...						<0.02	2	0.14						

E -- Estimated value

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41° 30'20", long 111° 00'50", in NE 1/4 NE 1/4 NW 1/4 sec. 32, T. 18 N., R. 120 W., Uinta County, Wyoming. Hydrologic Unit 16010101, on right bank 1,100 ft downstream from Woodruff Narrows Dam, 1.6 mi upstream from Salt Creek, 5.4 mi upstream from Utah-Wyoming State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft above NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to September 26, 1962, at site 175 ft upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir beginning January 1962. Diversions for irrigation of about 43,500 acres upstream from station. Station operated and record provided by the Utah District.

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	9.8	11	e12	13	13	14	16	147	1,170	191	45	23
2	9.5	11	e12	13	13	14	16	148	1,170	191	38	23
3	9.7	11	e12	13	13	14	16	89	1,170	190	32	23
4	9.0	11	e12	13	13	14	16	35	1,160	223	32	23
5	3.5	11	e12	13	13	14	16	35	1,140	245	32	23
6	6.2	11	12	13	13	14	16	53	1,040	240	32	23
7	9.3	11	12	13	13	14	16	96	865	231	32	23
8	11	11	12	13	13	14	16	133	803	237	32	23
9	11	11	12	13	13	14	16	153	760	119	32	23
10	11	11	12	13	13	15	16	155	748	49	32	23
11	11	11	12	13	13	15	16	155	743	48	32	36
12	11	11	12	13	13	15	16	175	742	48	32	46
13	11	11	12	13	13	15	16	192	735	48	32	45
14	11	12	12	13	13	16	15	193	724	48	24	45
15	11	12	12	13	13	16	14	196	702	48	15	44
16	11	12	12	13	13	16	14	259	711	48	15	40
17	11	12	12	13	13	15	15	395	706	48	15	39
18	11	12	12	13	13	15	15	397	361	46	17	33
19	11	12	13	13	13	15	14	401	142	41	24	27
20	11	12	13	13	13	16	14	454	140	40	24	27
21	11	12	13	13	14	16	14	548	140	40	24	27
22	11	12	13	13	14	16	15	543	140	40	23	27
23	11	12	13	13	14	16	15	647	141	40	23	24
24	11	12	13	13	14	16	15	883	165	39	24	14
25	11	12	12	13	14	16	15	888	185	38	24	14
26	11	12	12	13	14	16	14	900	195	38	24	14
27	11	12	12	13	14	16	14	918	201	38	23	14
28	11	12	12	13	14	16	14	1,030	197	38	23	14
29	11	e12	12	13	---	16	14	1,180	196	38	23	14
30	11	e12	13	13	---	16	81	1,180	195	38	23	14
31	11	---	13	13	---	16	---	1,190	---	40	23	---
TOTAL	321.0	347	380	403	372	471	520	13,768	17,487	2,806	826	788
MEAN	10.4	11.6	12.3	13.0	13.3	15.2	17.3	444	583	90.5	26.6	26.3
MAX	11	12	13	13	14	16	81	1,190	1,170	245	45	46
MIN	3.5	11	12	13	13	14	14	35	140	38	15	14
AC-FT	637	688	754	799	738	934	1,030	27,310	34,690	5,570	1,640	1,560

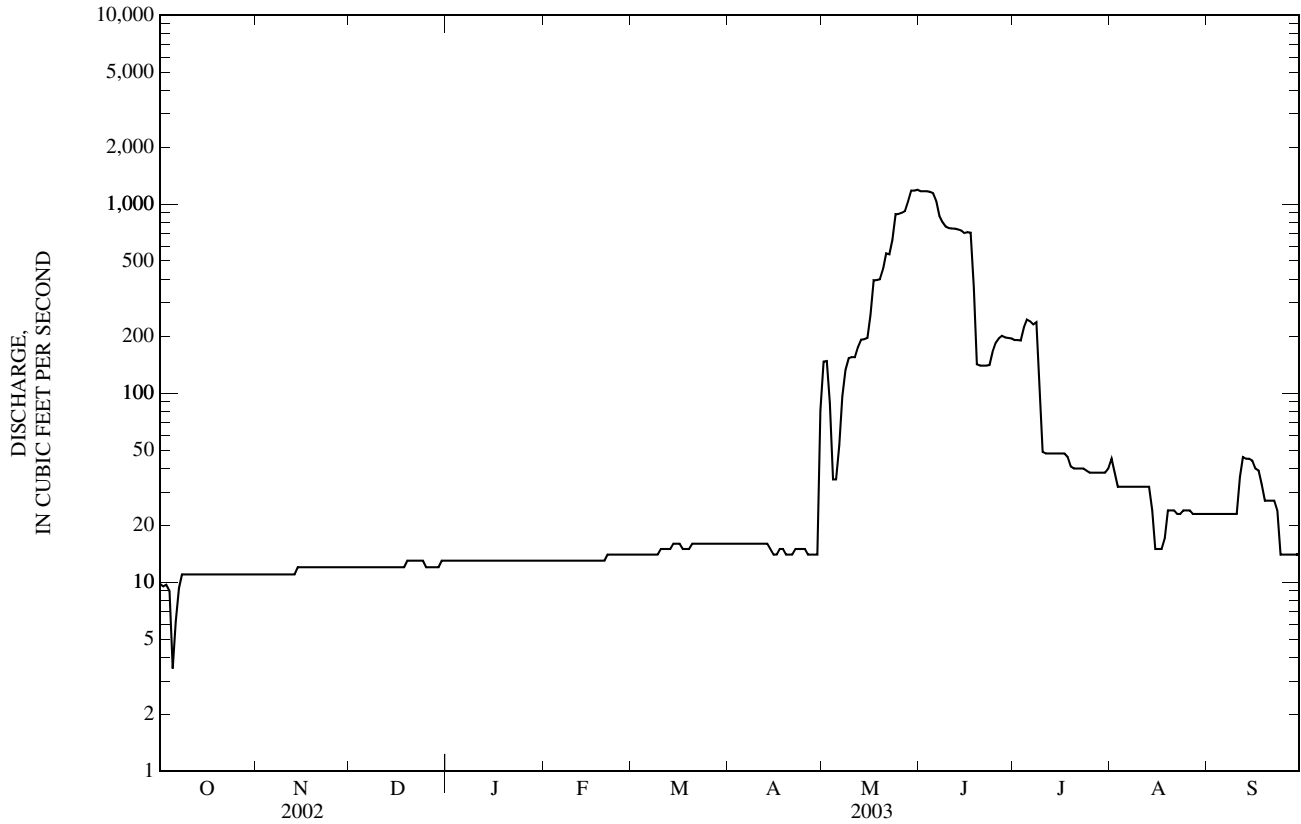
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

	57.6	53.4	46.5	44.2	47.0	95.1	273	767	971	282	77.2	59.9
MEAN	57.6	53.4	46.5	44.2	47.0	95.1	273	767	971	282	77.2	59.9
MAX	425	421	184	153	171	473	891	1,828	2,437	913	331	278
(WY)	(1983)	(1983)	(1983)	(1985)	(1971)	(1972)	(1985)	(1984)	(1983)	(1975)	(1983)	(1983)
MIN	3.89	0.12	4.28	4.37	4.71	4.70	0.34	27.8	356	10.5	3.91	3.65
(WY)	(1990)	(1981)	(1978)	(1978)	(1978)	(1978)	(1977)	(197)	(2002)	(2002)	(1979)	(1979)

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1962 - 2003	
ANNUAL TOTAL	19,138	38,489	--	
ANNUAL MEAN	52.4	105	231	
HIGHEST ANNUAL MEAN	--	--	509	1983
LOWEST ANNUAL MEAN	--	--	44.3	1977
HIGHEST DAILY MEAN	1,220 May 29	1,190 May 31	3,630	Jun 3, 1983
LOWEST DAILY MEAN	3.4 Sep 6	3.5 Oct 5	0.00	Jul 4, 1962
ANNUAL SEVEN-DAY MINIMUM	7.3 Sep 1	8.1 Oct 1	0.07	Nov 26, 1980
MAXIMUM PEAK FLOW	--	--	3,820	Jun 2, 1983
MAXIMUM PEAK STAGE	--	--	8.26	Jun 2, 1983
ANNUAL RUNOFF (AC-FT)	37,960	76,340	167,700	
10 PERCENT EXCEEDS	22	238	792	
50 PERCENT EXCEEDS	13	15	40	
90 PERCENT EXCEEDS	9.3	11	9.7	

e Estimated.



10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat41° 48'36", long 110° 58'12", in NE¹/₄SW¹/₄SE¹/₄sec.7, T.21N., R.119W., Lincoln County, Hydrologic Unit 16010101, 0.5 mi downstream from Bulldog Hollow, 0.5 mi southwest of Sage, 0.8 mi southeast of junction of U.S. Highway 30 and State Highway 89, and 5.0 mi upstream from mouth.

DRAINAGE AREA.--246 mi².

PERIOD OF RECORD.--Water years 1975 to 1981, October 1989 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)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 22...	0900	6.5	608	12.9	111	7.8	846	-2.0	0.0	390	95.9	37.5	2.82
MAR 27...	0920	14	600	13.0	113	7.6	914	-2.0	0.0	390	91.4	40.3	3.70
MAY 15...	1455	--	600	9.3	109	7.9	931	25.0	11.5	390	85.8	43.4	3.77
JUN 19...	1330	3.7	601	8.9	127	7.7	793	25.0	20.5	320	65.5	37.6	2.85
JUL 24...	1650	2.9	606	11.5	180	8.9	705	31.0	26.0	250	41.3	35.3	2.85

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	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)
NOV 22...	0.8	38.5	216	29.2	0.48	9.7	226	570	0.77	9.92	<0.04	<0.06	<0.008
MAR 27...	1	51.1	224	35.0	0.36	9.8	236	602	0.82	22.1	<0.04	<0.05	<0.008
MAY 15...	1	53.7	207	35.3	0.38	7.1	250	604	0.82	--	<0.04	<0.06	<0.008
JUN 19...	1	45.2	143	31.7	0.4	8.3	220	497	0.68	5.00	<0.04	<0.06	<0.008
JUL 24...	1	41.6	90	29.4	0.4	4.5	216	425	0.58	3.37	<0.04	<0.06	<0.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV 22...	<0.02	68	1.2
MAR 27...	E.02	158	5.8
MAY 15...	<0.02	16	--
JUN 19...	<0.02	23	0.23
JUL 24...	<0.02	8	0.06

E -- Estimated value

BEAR RIVER BASIN

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41° 56'20", long 110° 59'05", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 23 N., R. 120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft downstream from Pixley Dam, 11 mi south of Cokeville, and 17.5 mi downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi².

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (seasonal only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,185 ft above NGVD of 1929, from river-profile map. October 31, 1941 to November 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records fair. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs. Station operated and record provided by the Utah District.

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	0.51	---	---	---	---	---	12	1.7	0.66	13	30	9.9
2	---	---	---	---	---	---	13	1.6	1.2	7.2	29	9.6
3	---	---	---	---	---	---	11	1.3	1.4	3.0	26	9.9
4	---	---	---	---	---	---	9.9	1.3	1.6	1.1	27	8.3
5	---	---	---	---	---	---	9.5	1.1	1.8	1.0	25	8.1
6	---	---	---	---	---	---	8.6	1.1	1.7	1.0	23	7.7
7	---	---	---	---	---	---	8.1	1.5	1.9	1.0	22	9.4
8	---	---	---	---	---	---	6.4	1.5	1.6	1.3	20	9.0
9	---	---	---	---	---	---	4.1	2.1	1.5	1.4	19	9.2
10	---	---	---	---	---	---	2.9	1.8	1.3	2.6	18	10
11	---	---	---	---	---	---	2.6	1.5	1.2	3.2	19	11
12	---	---	---	---	---	---	2.3	1.5	1.3	2.3	17	11
13	---	---	---	---	---	---	1.3	1.6	1.1	1.3	16	12
14	---	---	---	---	---	---	1.1	1.6	0.83	52	17	12
15	---	---	---	---	---	---	1.2	1.7	0.84	135	17	12
16	---	---	---	---	---	---	1.2	1.5	1.4	127	16	11
17	---	---	---	---	---	---	1.0	1.5	3.0	96	14	11
18	---	---	---	---	---	---	1.2	1.5	3.9	75	13	11
19	---	---	---	---	---	---	1.3	1.8	6.0	67	14	11
20	---	---	---	---	---	---	1.6	3.2	5.8	63	13	11
21	---	---	---	---	---	---	2.9	3.0	5.2	65	14	11
22	---	---	---	---	---	---	2.8	3.6	5.2	59	14	11
23	---	---	---	---	---	---	2.3	3.6	7.1	52	15	11
24	---	---	---	---	---	---	2.4	3.0	13	47	13	9.7
25	---	---	---	---	---	---	2.3	2.3	22	45	12	3.4
26	---	---	---	---	---	---	2.1	2.1	33	47	12	5.0
27	---	---	---	---	---	---	2.4	2.2	42	42	11	5.9
28	---	---	---	---	---	---	2.2	1.8	36	40	10	1.9
29	---	---	---	---	---	---	2.1	1.6	29	38	10	2.3
30	---	---	---	---	---	---	2.2	1.1	21	35	10	2.2
31	---	---	---	---	---	---	---	0.86	---	33	11	---
TOTAL	---	---	---	---	---	---	124.0	57.56	253.53	1,157.4	527	267.5
MEAN	---	---	---	---	---	---	4.13	1.86	8.45	37.3	17.0	8.92
MAX	---	---	---	---	---	---	13	3.6	42	135	30	12
MIN	---	---	---	---	---	---	1.0	0.86	0.66	1.0	10	1.9
AC-FT	---	---	---	---	---	---	246	114	503	2,300	1,050	531

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY—Continued

SUMMARY STATISTICS

FOR 2003 WATER YEAR*

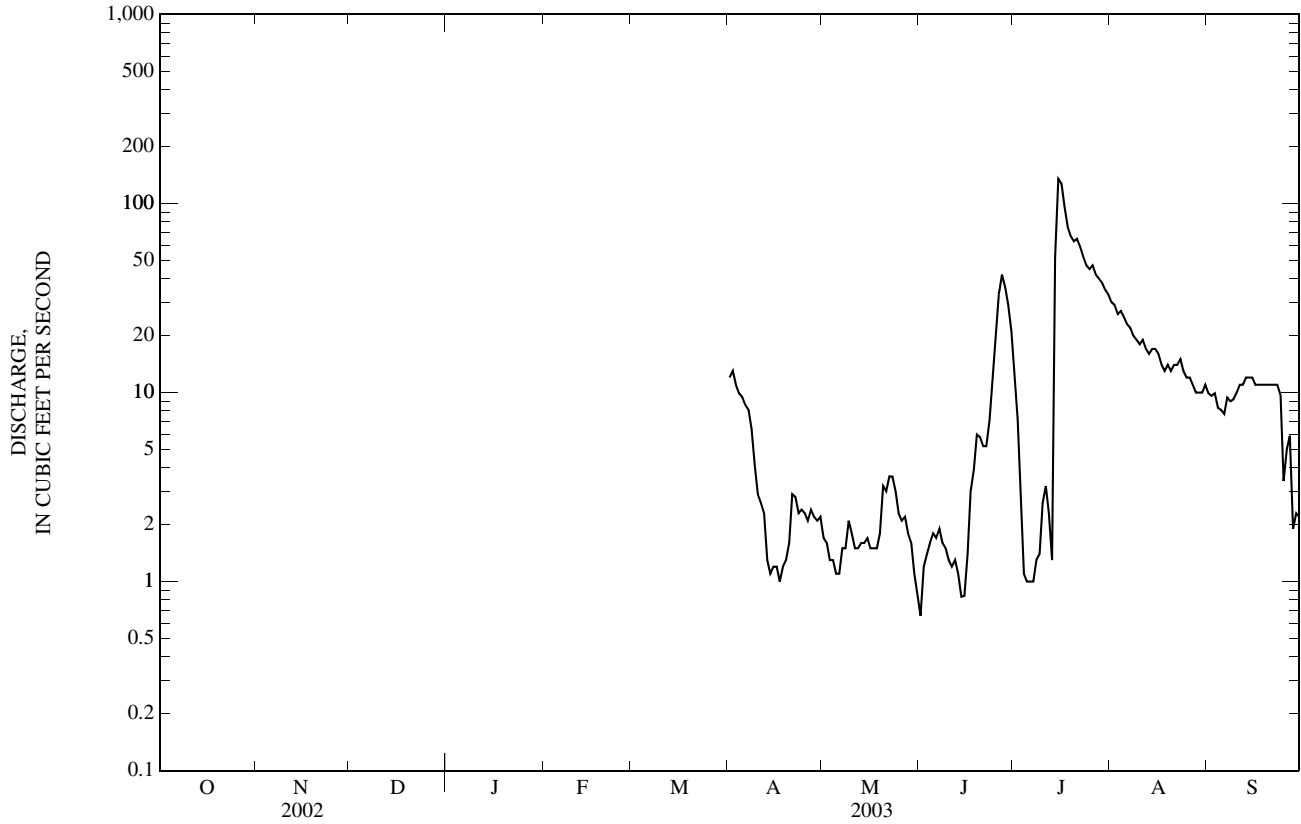
WATER YEARS 1941 - 2003*

HIGHEST DAILY MEAN
 LOWEST DAILY MEAN
 MAXIMUM PEAK FLOW

135 Jul 15
 0.66 Jun 1
 --

2,000 Jun 5, 1983
 0.09 Sep 8, 2002
 2,300 Mar 25, 1956

* For period of operation.
 e Estimated.



10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42° 17'36", long 110° 51'18", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.27 N., Lincoln County, Hydrologic Unit 16010102, on left bank 4.9 mi upstream from Howland Creek, 5.6 mi downstream from Hobble Creek, and 12.4 mi northeast of Border.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft above NGVD of 1929, from topographic map. Prior to October 16, 1945, at site 1.2 mi downstream at different datum. October 16, 1945 to November 1986 at site 0.4 mi downstream at different datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. One diversion for irrigation of about 200 acres above station. Station operated and record provided by the Utah District.

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	73	e54	52	e50	49	e34	66	203	586	183	114	83
2	74	e54	54	e48	50	e34	66	198	528	178	111	84
3	69	e53	59	e46	41	e35	63	206	482	174	115	83
4	71	e54	54	e45	e40	e35	73	209	448	170	114	81
5	72	e54	51	e44	e39	e38	59	203	414	167	108	81
6	69	e56	51	e44	e39	e39	58	188	387	164	105	83
7	66	e56	e51	e42	e36	e40	54	179	365	161	102	86
8	65	56	e51	e40	e35	e42	58	179	347	161	102	82
9	64	57	e50	e42	e34	e44	67	191	341	160	103	84
10	63	56	e50	e44	e33	e45	85	e180	331	155	99	95
11	63	55	e51	e45	e32	e46	105	e175	318	150	97	88
12	62	58	50	e42	e31	e48	125	171	e320	146	95	83
13	61	55	e50	e40	e30	e50	148	181	e300	143	94	81
14	61	55	51	e42	e30	e51	177	210	e280	140	94	80
15	60	54	51	e43	e30	e54	197	252	271	136	100	78
16	60	e55	e50	e45	e31	e56	e170	285	264	134	98	77
17	60	e55	e50	e47	e31	e63	e150	322	262	132	96	81
18	59	e55	e49	e47	e32	e61	156	300	253	131	92	82
19	59	e55	e48	e46	e32	e58	158	286	246	130	90	80
20	59	56	e48	e46	e33	e57	177	280	242	133	85	77
21	58	54	e47	e46	e33	52	191	e300	258	133	84	76
22	59	53	e46	e45	e34	57	205	322	241	128	86	75
23	63	56	e45	e45	e34	60	198	374	228	125	88	75
24	63	55	e44	e45	e33	54	203	415	231	123	83	74
25	61	e55	e42	e47	e32	54	237	452	243	122	82	73
26	59	e54	e41	45	e32	63	245	509	221	129	83	72
27	58	e54	e42	45	e33	55	206	550	211	121	85	71
28	56	e53	e43	47	e33	55	201	560	199	119	84	70
29	53	e53	e46	44	---	e55	218	590	193	118	85	70
30	57	e53	e48	47	---	e56	213	617	188	115	93	68
31	56	---	e51	50	---	58	---	613	---	114	88	---
TOTAL	1,933	1,643	1,516	1,394	972	1,549	4,329	9,700	9,198	4,395	2,955	2,373
MEAN	62.4	54.8	48.9	45.0	34.7	50.0	144	313	307	142	95.3	79.1
MAX	74	58	59	50	50	63	245	617	586	183	115	95
MIN	53	53	41	40	30	34	54	171	188	114	82	68
AC-FT	3,830	3,260	3,010	2,760	1,930	3,070	8,590	19,240	18,240	8,720	5,860	4,710

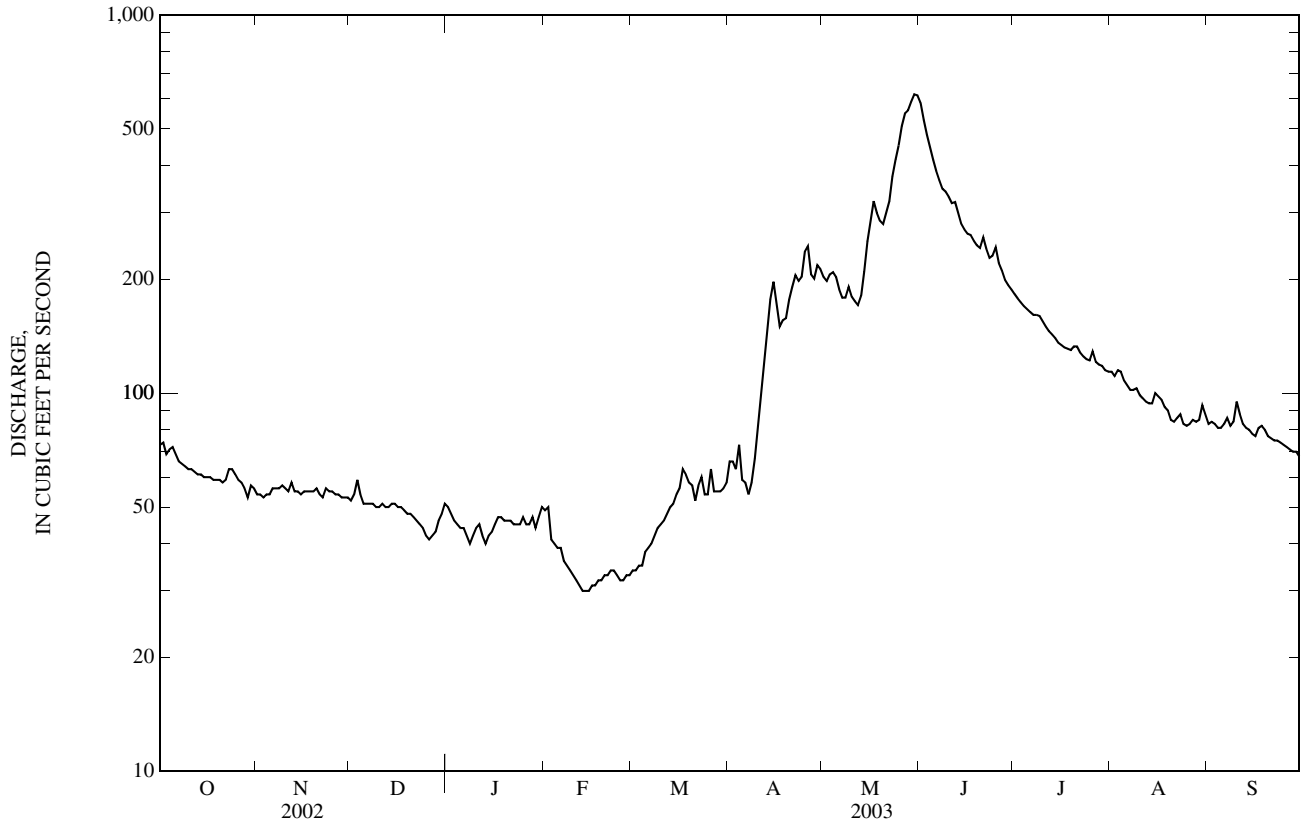
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2003, BY WATER YEAR (WY)

MEAN	90.5	77.9	68.9	63.3	60.7	62.5	159	535	622	291	151	108
MAX	156	113	88.4	85.0	82.8	99.4	385	1,072	1,377	602	242	166
(WY)	(1987)	(1986)	(1983)	(1983)	(1984)	(1986)	(1946)	(1997)	(1986)	(1975)	(1983)	(1986)
MIN	51.0	50.7	41.5	40.1	34.7	39.5	58.6	99.1	96.2	61.4	55.1	52.1
(WY)	(1978)	(1978)	(2002)	(1988)	(2003)	(1988)	(1975)	(1977)	(1977)	(1977)	(1977)	(1977)

10032000 SMITHS FORK NEAR BORDER, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1943 - 2003
ANNUAL TOTAL	37,508	41,957	--
ANNUAL MEAN	103	115	191
HIGHEST ANNUAL MEAN	--	--	324 1986
LOWEST ANNUAL MEAN	--	--	71.1 1977
HIGHEST DAILY MEAN	472 Jun 1	617 May 30	2,000 Jun 4, 1986
LOWEST DAILY MEAN	40 Several days	30 ^e Feb 13-15	30 Feb 13-15, 2003
ANNUAL SEVEN-DAY MINIMUM	40 Jan 31	31 Feb 11	31 Feb 11, 2003
MAXIMUM PEAK FLOW	--	697 May 30	2,100 Jun 4, 1986
MAXIMUM PEAK STAGE	--	2.82 May 30	5.66 Jun 4, 1986
ANNUAL RUNOFF (AC-FT)	74,400	83,220	138,500
10 PERCENT EXCEEDS	222	248	506
50 PERCENT EXCEEDS	67	66	90
90 PERCENT EXCEEDS	41	42	58

e Estimated.



BEAR RIVER BASIN

10035000 SMITHS FORK AT COKEVILLE, WY

LOCATION.--Lat 42° 05'47", long 110° 56'24", in NE¹/₄NW¹/₄NW¹/₄ sec.4, T.24N., R.119 W., Lincoln County, Hydrologic Unit 16010102, 900 ft upstream from U.S. Highway 30N, 1 mi northeast of Cokeville, and 2 mi upstream from mouth.

DRAINAGE AREA.--275 mi².

PERIOD OF RECORD.--Water years 1983-88, 1989-1992, October 1993 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 21...	1600	63	609	12.0	116	8.0	394	7.0	4.5	0.07	0.28	0.013	0.05
MAY 15...	1250	232	601	8.3	98	7.3	369	23.0	12.0	<0.04	<0.05	<0.008	E.01
JUN 19...	1005	247	600	9.4	114	7.6	355	26.0	13.0	<0.04	<0.06	<0.008	<0.02
JUL 24...	1450	89	606	10.6	151	8.1	370	30.0	21.0	<0.04	<0.06	<0.008	<0.02

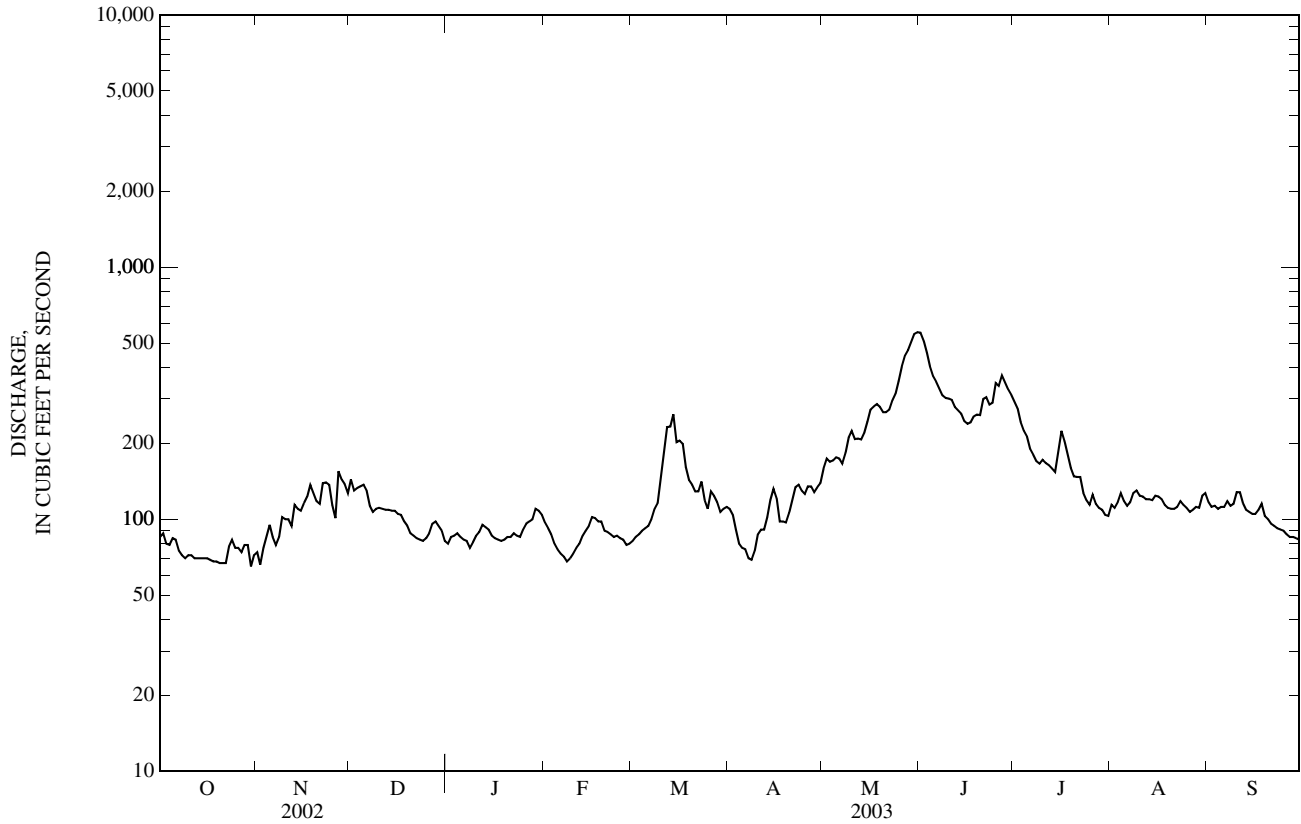
Date	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV 21...	9	1.5
MAY 15...	120	75
JUN 19...	32	21
JUL 24...	17	4.1

E -- Estimated value

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1955 - 2003	
ANNUAL TOTAL	46,374	51,857	--	
ANNUAL MEAN	127	142	433	
HIGHEST ANNUAL MEAN	--	--	1,049	1984
LOWEST ANNUAL MEAN	--	--	112	1977
HIGHEST DAILY MEAN	386 Jun 2	552 May 31	5,400	Jun 7, 1983
LOWEST DAILY MEAN	62 Sep 5	65 Oct 30	31	Oct 5, 1977
ANNUAL SEVEN-DAY MINIMUM	64 Aug 31	68 Oct 16	36	Oct 1, 1977
MAXIMUM PEAK FLOW	--	572 May 30	5,620	Jun 7, 1983
MAXIMUM PEAK STAGE	--	3.87 May 30	8.75	Jun 7, 1983
ANNUAL RUNOFF (AC-FT)	91,980	102,900	313,400	
10 PERCENT EXCEEDS	213	273	1,050	
50 PERCENT EXCEEDS	104	111	220	
90 PERCENT EXCEEDS	73	77	108	

e Estimated.



10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1992 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 13, 1998 to September 30, 2001.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 23.3°C, July 4-6, 2001; minimum, 0.0°C, on many days during the winter period.

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

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, percent of saturation (00301)	Dissolved oxygen, mg/L (00300)	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)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
OCT 29...	1210	73	611	106	11.5	8.4	531	1.0	3.1	182	216	3	17.8
NOV 26...	1350	97	616	123	14.1	8.5	593	1.5	1.0	210	240	6	23.0
DEC 16...	1210	86	603	116	13.3	8.4	595	-4.0	0.2	205	240	5	20.5
JAN 29...	1220	122	617	115	13.5	8.4	560	6.0	0.4	198	234	4	18.1
MAR 21...	1320	128	613	128	12.7	8.4	542	7.5	6.2	183	213	5	21.1
MAY 08...	1320	170	605	155	14.2	8.6	519	9.0	9.8	190	222	5	14.8
JUL 18...	1100	197	620	135	10.2	8.3	726	27.5	18.9	248	303	--	42.2
SEP 23...	1230	79	616	146	12.8	8.5	510	19.0	11.8	170	198	5	15.4

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Organic nitrogen, water, unfltrd mg/L (00605)	Total nitrogen, water, unfltrd mg/L (00600)	Ammonia water, fltrd, mg/L (71846)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Suspended sediment load, tons/d (80155)	Suspended sediment concentration mg/L (80154)
OCT 29...	76.7	<0.04	0.18	E.05	--	--	--	<0.008	<0.02	0.030	--	3.0	15
NOV 26...	75.9	<0.04	0.15	E.06	--	--	--	<0.008	<0.02	0.023	E2	3.4	13
DEC 16...	69.3	<0.04	0.19	0.06	--	0.25	--	<0.008	<0.02	0.019	--	3.9	17
JAN 29...	65.8	0.04	0.26	0.08	0.22	0.34	0.06	<0.008	<0.02	0.029	--	11	33
MAR 21...	76.0	E.02	0.37	E.04	--	--	--	<0.008	E.01	0.053	E2	5.5	16
MAY 08...	64.0	<0.04	0.22	E.05	--	--	--	<0.008	<0.02	0.031	4	17	36
JUL 18...	68.0	<0.04	0.67	<0.06	--	--	--	<0.008	<0.02	0.041	63	8.0	15
SEP 23...	69.5	<0.04	0.15	<0.06	--	--	--	<0.008	<0.02	0.011	--	2.6	12

E -- Estimated value

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42° 12'40", long 111° 03'11", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.14 S., R. 46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Idaho-Wyoming State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi².

PERIOD OF RECORD.--October 1937 to September 1996, October 1996 to 2000 (seasonal), October 2000 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft above NGVD of 1929, unadjusted.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas. Station operated and record provided by the Utah District.

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	43	78	120	e80	e97	e82	95	92	494	246	91	78
2	49	81	101	e85	e92	e85	95	134	465	242	96	71
3	47	72	109	e86	e87	e87	87	135	393	207	98	71
4	45	72	111	e88	e80	e90	77	134	337	186	111	70
5	46	80	118	e85	e76	e92	71	139	298	174	108	75
6	60	80	107	e83	e73	e94	71	138	267	162	102	73
7	95	76	101	e82	e71	e100	70	133	247	151	98	79
8	87	85	97	e77	e68	e110	66	137	229	138	107	80
9	82	94	96	e81	e70	e116	67	164	234	128	113	77
10	79	95	e105	e86	e73	e140	72	189	215	126	110	82
11	77	91	e101	e89	e77	153	77	177	211	125	104	87
12	78	86	e102	e95	e80	210	75	166	188	124	103	83
13	78	95	e98	e93	e86	240	84	164	180	119	102	74
14	79	97	e102	e91	e90	292	96	165	178	115	103	70
15	79	96	e102	e86	e94	228	111	184	165	125	102	63
16	78	106	e97	e84	e102	216	117	212	154	189	105	62
17	77	110	e98	e83	e101	227	98	220	158	190	86	64
18	80	109	e98	e82	e98	186	91	234	182	174	79	70
19	80	106	e94	e83	e98	162	89	227	203	152	75	68
20	79	105	e88	e85	e90	150	91	224	201	139	72	67
21	78	102	e86	e85	e89	143	103	215	226	134	71	64
22	78	106	e84	e88	e87	138	116	216	255	135	76	63
23	80	127	e83	e86	e85	152	127	230	235	129	82	61
24	85	119	e82	e85	e86	144	114	245	233	106	82	62
25	82	113	e84	e91	e84	127	109	282	289	106	78	61
26	79	95	e88	e96	e83	130	117	324	288	111	75	60
27	78	108	e96	e98	e79	121	124	390	309	111	72	58
28	80	109	e98	e100	e80	105	116	405	304	103	70	56
29	83	111	e94	e110	---	e103	104	438	286	99	69	55
30	76	109	e90	e108	---	e98	78	484	268	95	72	52
31	75	---	e82	e104	---	96	---	485	---	88	81	---
TOTAL	2,292	2,913	3,012	2,755	2,376	4,417	2,808	7,082	7,692	4,429	2,793	2,056
MEAN	73.9	97.1	97.2	88.9	84.9	142	93.6	228	256	143	90.1	68.5
MAX	95	127	120	110	102	292	127	485	494	246	113	87
MIN	43	72	82	77	68	82	66	92	154	88	69	52
AC-FT	4,550	5,780	5,970	5,460	4,710	8,760	5,570	14,050	15,260	8,780	5,540	4,080

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

MEAN	208	224	196	181	206	376	734	1,006	1,150	526	224	178
MAX	751	693	563	381	479	1,294	1,979	3,158	3,829	1,670	752	671
(WY)	(1983)	(1983)	(1983)	(1985)	(1986)	(1986)	(1985)	(1952)	(1983)	(1983)	(1983)	(1983)
MIN	43.5	74.6	97.2	77.6	75.2	105	71.2	74.4	62.2	54.2	42.3	38.5
(WY)	(2002)	(2002)	(2002)	(1993)	(1993)	(1988)	(1977)	(1977)	(1977)	(1977)	(1940)	(1940)

10039500 BEAR RIVER AT BORDER, WY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1938 - 2003*	
ANNUAL TOTAL	39,101	44,625	--	
ANNUAL MEAN	107	122	423	
HIGHEST ANNUAL MEAN	--	--	1,068	1983
LOWEST ANNUAL MEAN	--	--	103	2002
HIGHEST DAILY MEAN	336 Jun 3	494 Jun 1	4,840	Jun 8, 1983
LOWEST DAILY MEAN	29 Sep 4	43 Oct 1	25	Apr 29, 1977
ANNUAL SEVEN-DAY MINIMUM	33 Aug 31	55 Oct 1	29	Apr 28, 1977
MAXIMUM PEAK FLOW	--	507 May 30	4,880	Jun 7, 1983
MAXIMUM PEAK STAGE	--	3.05 May 30	9.69	Jun 7, 1983
ANNUAL RUNOFF (AC-FT)	77,560	88,510	306,500	
10 PERCENT EXCEEDS	185	225	1,090	
50 PERCENT EXCEEDS	95	96	218	
90 PERCENT EXCEEDS	42	71	104	

* For period of operation.
e Estimated.

