



EXPLANATION

- 0685 **Streamflow gaging station**
- **Stream, showing direction of flow**
- - -→ **Canal, showing direction of flow**

Figure 12. Schematic diagram showing gaging stations in Bear River Basin

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", (NAD27), in NE¹/₄NE¹/₄NE¹/₄ sec.15, T.14 S., R.46 E., Bear Lake County, Border quad., Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,480 mi².

PERIOD OF RECORD.--October 1937 to September 1996, October 1996 to September 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 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft³/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft³/s May 18, gage height, 6.05 ft; minimum, 51 ft³/s Oct. 4-8.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	125	e108	e110	e105	e110	705	1170	1230	1160	211	135
2	61	122	e106	e110	e100	e115	707	1120	1320	1190	209	129
3	53	128	e106	e110	e115	e120	698	1040	1260	1210	215	120
4	52	133	e104	e105	e110	e120	782	984	1200	1160	217	119
5	52	130	e104	e100	e100	e120	838	946	1140	1110	211	117
6	52	125	e102	e110	e100	e125	853	963	1090	1090	209	118
7	52	122	e102	e105	e100	e130	884	1050	1110	1070	204	116
8	52	120	e100	e110	e100	e103	962	1150	1140	1040	210	114
9	53	121	e120	e110	e105	e135	1000	1180	1100	1060	214	115
10	55	122	e125	e85	e105	e140	942	1110	1050	1060	208	115
11	55	124	e130	e85	e108	e145	929	1160	1020	972	204	116
12	54	127	e140	e95	e108	e150	933	1220	1060	809	205	119
13	54	126	e145	e80	e110	e150	947	1180	1080	713	200	122
14	56	136	e140	e80	e110	e130	950	1140	1040	604	193	120
15	55	135	e140	e75	e100	e130	884	1190	1050	520	191	118
16	54	136	e135	e80	e90	e145	796	1220	1100	458	186	121
17	53	133	e110	e95	e80	e160	714	1320	1160	399	193	118
18	64	136	e100	e110	e80	e175	719	1380	1170	381	193	121
19	74	e120	e110	e110	e95	e200	715	1290	1180	360	198	123
20	81	e130	e110	e115	e100	e210	726	1200	1150	337	193	122
21	136	e140	e95	e105	e105	e220	683	1200	1110	326	187	120
22	131	e150	e100	e110	e105	e230	622	1290	1140	303	177	116
23	120	e150	e110	e110	e100	e242	572	1310	1170	283	180	114
24	118	e140	e90	e105	e110	e263	610	1340	1140	265	175	112
25	117	e140	e90	e100	e130	e282	667	1380	1130	255	166	112
26	119	e140	e90	e100	e100	e294	716	1340	1120	246	151	110
27	120	e120	e90	e100	e105	e293	852	1290	1110	228	147	108
28	123	e113	e110	e115	e108	e335	902	1190	1110	226	145	105
29	127	e110	e115	e115	---	e399	1020	1100	1140	225	141	104
30	128	e108	e115	e115	---	e549	1090	1170	1120	216	134	103
31	126	---	e115	e110	---	662	---	1210	---	212	130	---
TOTAL	2514	3862	3457	3165	2887	6612	24418	36833	33940	19488	5797	3502
MEAN	81.1	129	112	102	103	213	814	1188	1131	629	187	117
MAX	136	150	145	115	130	662	1090	1380	1320	1210	217	135
MIN	52	108	90	75	80	110	572	946	1020	212	130	103
AC-FT	4990	7660	6860	6280	5730	13110	48430	73060	67320	38650	11500	6950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005, BY WATER YEAR (WY)

	204	221	193	178	202	370	727	996	1137	522	222	175
MEAN	204	221	193	178	202	370	727	996	1137	522	222	175
MAX	751	693	563	381	479	1294	1979	3158	3829	1670	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

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1938 - 2005

ANNUAL TOTAL	48232	146475		
ANNUAL MEAN	132	401	418	
HIGHEST ANNUAL MEAN			1068	1983
LOWEST ANNUAL MEAN			103	2002
HIGHEST DAILY MEAN	422	Jun 11	1380	May 18
LOWEST DAILY MEAN	52	Sep 11	52	Oct 4
ANNUAL SEVEN-DAY MINIMUM	52	Oct 3	52	Oct 3
ANNUAL RUNOFF (AC-FT)	95670	290500	302900	
10 PERCENT EXCEEDS	230	1140	1080	
50 PERCENT EXCEEDS	119	136	214	
90 PERCENT EXCEEDS	66	95	102	

e Estimated

BEAR RIVER BASIN

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", (NAD27), in NW¹/₄SW¹/₄SE¹/₄ sec.3, T.14 S., R.44 E., Bear Lake County, Dingle quad., Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle, and 1.8 mi downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft above NGVD of 1929, (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; October 1, 1923 to October 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--Canal diverts from Bear River at Stewart Dam in NE¹/₄ sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--83 years, 358 ft³/s, 259,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,950 ft³/s May 27, 1984; no flow Apr. 28, 1977, Oct. 1, 1979.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	104	104	100	100	100	605	1290	1360	1220	166	125
2	83	104	104	100	100	100	665	1360	1420	1220	166	100
3	83	104	104	100	100	100	689	1310	1560	1270	166	100
4	83	104	104	100	100	100	720	1190	1570	1440	150	100
5	85	104	104	100	100	100	790	1100	1500	1410	150	90
6	85	104	104	100	100	100	855	1090	1370	1410	150	90
7	90	104	104	100	100	100	925	1170	1300	1390	150	90
8	90	104	104	100	100	100	1010	1380	1350	1360	140	90
9	61	104	104	100	100	100	1080	1510	1390	1320	135	90
10	61	104	104	100	100	100	1080	1570	1310	1320	138	90
11	61	104	104	100	100	136	1010	1570	1310	1300	140	86
12	61	104	104	100	100	136	964	1650	1300	1230	140	86
13	61	104	104	100	100	136	957	1770	1300	983	140	86
14	61	104	123	100	100	136	917	1730	1310	812	140	80
15	61	104	123	100	100	136	970	1650	1280	670	135	80
16	61	104	123	100	100	136	910	1720	1260	556	135	70
17	61	104	123	100	100	136	838	1760	1290	421	135	70
18	61	104	123	100	100	136	769	1890	1300	402	150	70
19	61	104	123	100	100	136	769	2020	1330	376	150	70
20	61	104	123	100	100	136	797	1940	1370	362	150	70
21	75	104	123	100	100	160	797	1670	1350	310	125	70
22	75	104	123	100	100	180	763	1570	1320	316	125	62
23	80	104	123	100	100	250	629	1660	1320	287	115	60
24	80	104	100	100	100	260	608	1740	1350	264	110	60
25	80	104	100	100	100	265	633	1740	1290	234	110	60
26	80	104	100	100	100	270	701	1680	1250	214	110	60
27	80	104	100	100	100	275	767	1590	1190	204	123	60
28	80	104	100	100	100	286	960	1460	1180	188	141	60
29	114	104	100	100	---	280	1130	1300	1190	182	152	60
30	114	104	100	100	---	300	1230	1240	1220	175	152	60
31	104	---	100	100	---	501	---	1300	---	172	125	---
TOTAL	2376	3120	3382	3100	2800	5387	25538	47620	39840	23018	4314	2345
MEAN	76.6	104	109	100	100	174	851	1536	1328	743	139	78.2
MAX	114	104	123	100	100	501	1230	2020	1570	1440	166	125
MIN	61	104	100	100	100	100	605	1090	1180	172	110	60
AC-FT	4710	6190	6710	6150	5550	10690	50650	94450	79020	45660	8560	4650
CAL YR 2004	TOTAL	29977.0	MEAN	81.9	MAX	286	MIN	3.0	AC-FT	59460		
WTR YR 2005	TOTAL	162840	MEAN	446	MAX	2020	MIN	60	AC-FT	323000		

BEAR RIVER BASIN

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'16", long 111°18'52", (NAD27), in NE¼ sec.16, T.15 S., R.44 E., Bear Lake County, Bear Lake North quad., Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., and 3.5 mi east of St. Charles.

DRAINAGE AREA.--434 mi².

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven," January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 5,900 ft, PacificCorp datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow Inlet Canal (sta 10046000) and Dingle Inlet Canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet Canal (sta 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft between elevation 5,902.00 ft, lower limit of pumps, and 5,923.65 ft, upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records provided by PacifiCorp. under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft June 10, 1923, elevation, 5,923.68 ft; no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 472,000 acre-ft July 9-14, elevation, 5,909.69 ft; minimum, 65,000 acre-ft Oct. 15-20, elevation, 5,903.09 ft.

Reservoir storage, thousand acre feet
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	74	90	96	123	137	157	246	370	458	441	385
2	69	74	90	97	123	138	159	250	373	460	439	383
3	69	74	90	97	124	138	162	253	376	462	438	382
4	69	74	90	97	124	139	165	257	380	463	437	380
5	68	74	90	97	125	140	167	259	383	465	435	377
6	68	74	90	98	125	140	171	262	387	467	434	376
7	68	74	90	98	126	141	175	264	394	469	433	375
8	67	75	91	99	126	141	178	268	400	471	432	374
9	68	75	91	100	127	142	183	272	404	472	430	373
10	68	75	91	101	128	143	186	276	407	472	428	373
11	67	76	91	102	128	143	189	282	411	472	427	372
12	66	77	91	103	129	143	192	290	414	472	425	371
13	66	78	91	105	129	143	195	295	417	472	423	370
14	66	79	92	105	130	144	198	299	420	472	421	368
15	65	80	92	105	131	144	200	303	422	471	419	365
16	65	81	93	106	131	145	201	306	425	471	416	363
17	65	82	93	106	131	146	203	310	427	470	414	360
18	65	83	93	107	132	146	204	314	430	469	412	358
19	65	84	93	108	132	146	205	318	432	468	409	358
20	65	84	94	109	133	146	208	322	435	467	406	358
21	66	85	94	111	133	147	210	326	437	465	404	358
22	68	86	94	112	134	147	212	330	441	462	402	358
23	68	87	94	113	134	148	214	334	444	460	400	358
24	69	87	95	115	134	149	216	337	447	458	399	358
25	69	88	95	116	135	149	219	341	450	455	398	357
26	71	88	95	117	135	150	222	344	452	452	397	356
27	72	88	95	118	136	151	225	348	454	449	395	355
28	73	89	95	120	137	152	228	353	455	447	394	354
29	74	89	96	120	---	153	235	357	456	444	392	353
30	74	90	96	121	---	153	241	363	457	443	390	353
31	74	---	96	122	---	156	---	366	---	442	388	---
MAX	74	90	96	122	137	156	241	366	457	472	441	385
MIN	65	74	90	96	123	137	157	246	370	442	388	353
†	5903.24	5903.51	5903.62	5904.05	5904.29	5904.61	5906.00	5908.01	5909.45	5909.21	5908.36	5907.80
‡	4	16	6	26	15	19	85	125	91	-15	-54	-35
CAL YR 2004	MAX 223	MIN 65	† -39									
WTR YR 2005	MAX 472	MIN 65	† 283									

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

BEAR RIVER BASIN

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", (NAD27), , in SW¹/₄NW¹/₄SW¹/₄ sec.8, T.14 S., R.44 E., Bear Lake County, Dingle quad., Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike), and 3 mi southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft above NGVD of 1929, unadjusted.

REMARKS.--Flow regulated by Bear Lake (sta 10055500).

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--83 years, 410 ft³/s, 296,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,080 ft³/s June 19-21, 1986; minimum daily, 1.0 ft³/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	190	670	476
2	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	233	665	336
3	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	220	632	375
4	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	217	497	373
5	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	259	495	371
6	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	466	496	370
7	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	573	497	370
8	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	718	497	369
9	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	737	565	366
10	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	751	750	370
11	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	785	780	371
12	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	883	812	360
13	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	897	808	164
14	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	887	807	47
15	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	819	852	40
16	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	805	1000	38
17	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	839	985	38
18	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	931	730	37
19	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1020	717	35
20	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1040	713	32
21	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1060	707	32
22	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1150	700	30
23	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1150	684	30
24	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1140	495	34
25	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	103	1120	486	31
26	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	215	1070	484	e5.0
27	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	281	1080	488	e5.0
28	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	500	1060	510	e5.0
29	e5.0	e5.0	e5.0	e5.0	---	e5.0	e5.0	e5.0	514	935	510	e5.0
30	e5.0	e5.0	e5.0	e5.0	---	e5.0	e5.0	e5.0	510	754	517	e5.0
31	e5.0	---	e5.0	e5.0	---	e5.0	---	e5.0	---	735	517	---
TOTAL	155.0	150.0	155.0	155.0	140.0	155.0	150.0	155.0	2243.0	24524	20066	5120.0
MEAN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	74.8	791	647	171
MAX	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	514	1150	1000	476
MIN	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	190	484	5.0
AC-FT	307	298	307	307	278	307	298	307	4450	48640	39800	10160

CAL YR 2004 TOTAL 51059.0 MEAN 140 MAX 806 MIN 5.0 AC-FT 101300
WTR YR 2005 TOTAL 53168.0 MEAN 146 MAX 1150 MIN 5.0 AC-FT 105500

e Estimated

BEAR RIVER BASIN

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", (NAD27), in NW¹/₄SW¹/₄NW¹/₄ sec.29, T.9 S., R.42 E., Caribou County, Soda Peak quad., Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge, and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,970 mi².

PERIOD OF RECORD.--May to September 1896, May, June 1898, October 1953 to current year in reports of Geological Survey.
Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

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

GAGE.--Water-stage recorder. Elevation of gage is 5,760 ft above NGVD of 1929, from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Natural flow of stream affected by upstream reservoirs, diversions for irrigation and return flow from irrigated areas.

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--52 years, 696 ft³/s, 504,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum daily, 37 ft³/s Sept. 30, Oct. 1, 2, 2001.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	138	e133	e129	e116	e175	e415	619	753	850	834	637
2	189	129	e132	e129	e118	e181	437	609	833	637	767	618
3	112	130	e133	e128	e120	e182	481	581	824	622	750	485
4	99	135	e133	e129	e122	e191	569	570	895	618	718	490
5	92	141	e131	e128	e124	e192	599	597	927	597	604	492
6	86	149	e131	e128	e126	e195	639	576	902	677	585	485
7	83	141	e132	e128	e128	e193	719	583	911	851	583	481
8	80	138	e133	e127	e128	e192	843	652	944	925	586	481
9	78	138	e132	e127	e129	e195	873	644	927	1040	585	480
10	77	139	e132	e125	e129	e196	829	681	872	1040	654	480
11	75	136	e132	e125	e130	e190	766	790	802	1030	854	482
12	78	138	e132	e123	e131	e191	707	814	781	1060	894	488
13	89	135	e132	e123	e132	e192	644	831	716	1140	934	493
14	81	135	e131	e121	e133	e193	584	827	665	1140	940	374
15	72	135	e131	e120	e134	e197	519	816	637	1120	945	271
16	71	133	e132	e119	e135	e198	487	799	603	1070	1000	212
17	71	133	e132	e119	e143	e199	463	804	567	1000	1190	200
18	97	133	e132	e118	e147	e200	454	794	532	1010	1170	201
19	114	134	e132	e116	e151	e201	429	774	570	1100	963	200
20	125	e134	e132	e116	e158	e202	487	761	590	1170	890	199
21	168	e133	e132	e116	e162	e203	542	746	590	1180	873	195
22	158	e133	e132	e116	e169	e205	527	733	562	1210	861	199
23	148	e133	e131	e116	e173	e225	497	719	507	1320	865	199
24	154	e131	e131	e116	e174	e266	474	712	488	1340	832	209
25	134	e132	e130	e116	e175	e306	464	703	481	1340	668	200
26	129	e134	e130	e116	e175	e322	472	683	469	1280	630	200
27	124	e134	e130	e117	e175	e347	474	674	598	1210	619	201
28	123	e132	e130	e116	e174	e355	613	651	655	1200	619	179
29	137	e133	e129	e115	---	e368	628	635	840	1190	630	136
30	138	e134	e129	e114	---	e405	627	652	878	1060	631	126
31	140	---	e129	e114	---	e412	---	648	---	899	626	---
TOTAL	3655	4053	4073	3750	4011	7269	17262	21678	21319	31926	24300	10093
MEAN	118	135	131	121	143	234	575	699	711	1030	784	336
MAX	333	149	133	129	175	412	873	831	944	1340	1190	637
MIN	71	129	129	114	116	175	415	570	469	597	583	126
AC-FT	7250	8040	8080	7440	7960	14420	34240	43000	42290	63330	48200	20020

CAL YR 2004 TOTAL 102800 MEAN 281 MAX 985 MIN 68 AC-FT 203900
WTR YR 2005 TOTAL 153389 MEAN 420 MAX 1340 MIN 71 AC-FT 304200

e Estimated

BEAR RIVER BASIN

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", (NAD27), in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.9 S., R.41 E., Caribou County, Alexander quad., Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,093 mi².

PERIOD OF RECORD.--March 1911 to current year. 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 5,650 ft above NGVD of 1929 from topographic map.

REMARKS.--Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--93 years, 791 ft³/s, 573,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft³/s Mar. 31, 1911; maximum gage height, 15.95 ft, Dec. 11, 1919 (backwater from ice); minimum, 14 ft³/s Oct. 22, 1990.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	164	192	169	170	172	436	631	635	533	943	617
2	165	164	190	169	170	172	822	582	650	575	901	619
3	165	168	190	169	170	172	823	454	702	577	829	568
4	165	168	182	169	171	172	823	517	815	589	703	502
5	165	162	173	169	171	172	826	690	919	602	695	503
6	165	163	170	169	171	172	947	689	951	718	697	505
7	165	166	170	169	171	172	1110	687	959	869	698	506
8	165	166	169	169	169	172	1120	686	960	1020	657	514
9	165	166	170	168	169	172	1110	696	959	1150	606	526
10	165	167	169	168	169	172	1110	736	958	1100	603	518
11	165	325	169	168	170	172	1100	813	957	1020	697	524
12	165	447	169	170	170	173	672	916	916	1090	850	529
13	165	361	169	169	170	175	317	909	823	1180	887	527
14	165	166	169	170	171	174	323	906	752	1130	884	456
15	165	166	169	169	171	175	323	908	671	1060	886	350
16	165	167	169	169	171	296	582	908	609	1060	969	301
17	165	167	169	168	171	614	911	876	609	1090	1070	266
18	165	169	170	168	173	611	623	914	572	1140	1060	222
19	165	172	174	169	174	606	183	915	521	1140	929	219
20	165	172	170	170	174	606	183	884	522	1140	754	215
21	165	171	169	169	172	496	182	838	551	1140	783	216
22	203	169	169	168	172	330	368	832	584	1140	827	215
23	439	169	169	168	172	330	825	839	582	1190	829	200
24	384	169	170	168	172	333	820	809	572	1300	830	168
25	207	169	169	169	172	336	814	763	571	1350	749	169
26	162	168	168	169	172	336	811	780	571	1300	648	170
27	162	168	169	169	172	337	772	785	562	1220	634	169
28	162	169	170	169	172	455	732	720	602	1180	613	169
29	163	207	170	169	---	755	731	640	606	1120	615	166
30	163	245	170	170	---	584	690	638	588	1080	619	167
31	163	---	169	170	---	192	---	634	---	1000	617	---
TOTAL	5673	5770	5334	5236	4792	9806	21089	23595	21249	31803	24082	10796
MEAN	183	192	172	169	171	316	703	761	708	1026	777	360
MAX	439	447	192	170	174	755	1120	916	960	1350	1070	619
MIN	162	162	168	168	169	172	182	454	521	533	603	166
AC-FT	11250	11440	10580	10390	9500	19450	41830	46800	42150	63080	47770	21410
CAL YR 2004	TOTAL 122210	MEAN 334	MAX 1070	MIN 97	AC-FT 242400							
WTR YR 2005	TOTAL 169225	MEAN 464	MAX 1350	MIN 162	AC-FT 335700							

BEAR RIVER BASIN

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO. TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", (NAD27), in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.13 S., R.40 E., Franklin County, Treasureton quad., Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant, and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi².

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--84 years, 868 ft³/s, 628,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft³/s May 8, 1922; minimum, 3.0 ft³/s June 13, 1978.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	242	304	324	317	265	276	1180	1070	408	823	524
2	206	282	432	323	302	265	538	913	1060	394	842	681
3	237	245	312	323	302	268	1060	889	898	294	886	683
4	211	251	261	323	306	306	1010	718	1160	264	711	613
5	251	271	266	323	305	300	1150	1100	1200	271	629	462
6	223	274	266	323	314	288	977	1170	1220	342	599	442
7	201	274	272	321	294	277	1200	1210	1560	465	643	437
8	224	275	327	300	287	276	1570	1420	1420	735	682	426
9	257	271	428	289	285	300	1470	1220	1450	740	625	444
10	195	254	335	318	285	321	1280	1420	1370	741	453	483
11	187	247	335	449	284	294	1390	1510	1330	724	503	526
12	258	351	371	262	284	523	1430	1430	1360	675	551	700
13	208	356	337	282	283	505	809	1510	1220	693	707	529
14	218	542	298	259	285	671	747	1350	1110	886	911	601
15	145	270	280	258	369	469	874	1530	974	900	983	592
16	231	270	282	259	354	358	790	1410	1060	756	916	396
17	244	285	279	277	320	613	1020	1380	804	705	913	363
18	180	251	314	333	292	616	1210	1470	830	699	1090	350
19	320	244	314	287	292	777	1010	1430	792	756	1090	347
20	227	251	325	326	291	794	478	1470	716	811	1100	261
21	378	281	321	325	291	833	755	1440	638	775	776	349
22	439	282	285	312	290	666	604	1240	621	795	752	462
23	600	274	277	293	289	666	869	1370	550	882	899	386
24	665	267	322	291	288	659	1200	1300	330	879	931	349
25	553	245	308	289	324	617	1190	1190	489	972	882	346
26	343	248	248	286	279	515	1290	1090	343	1100	844	327
27	211	257	356	291	279	481	1170	1260	342	1090	687	298
28	178	278	352	373	287	482	1360	1100	355	1100	613	306
29	253	297	330	333	---	485	1210	1020	341	970	496	307
30	374	261	326	245	---	1010	1240	942	341	959	409	306
31	327	---	324	427	---	878	---	927	---	875	426	---
TOTAL	8741	8396	9787	9624	8378	15778	31177	38609	26954	22656	23372	13296
MEAN	282	280	316	310	299	509	1039	1245	898	731	754	443
MAX	665	542	432	449	369	1010	1570	1530	1560	1100	1100	700
MIN	145	242	248	245	279	265	276	718	330	264	409	261
AC-FT	17340	16650	19410	19090	16620	31300	61840	76580	53460	44940	46360	26370
CAL YR 2004	TOTAL 143556	MEAN 392	MAX 1230	MIN 70	AC-FT 284700							
WTR YR 2005	TOTAL 216768	MEAN 594	MAX 1570	MIN 145	AC-FT 430000							

BEAR RIVER BASIN

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", (NAD27), in NW¼NE¼ sec.29, T.16 S., R.39 E., Franklin County, Idaho, Weston quad., Hydrologic Unit 16010202, on left bank 1,050 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.8 mi upstream from Idaho-Utah State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,884 mi².

PERIOD OF RECORD.--October 1970 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,420 ft above NGVD of 1929, from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft higher. Sept. 10, 1982 to Sept. 30, 1985 at datum 10.0 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft³/s June 14, 1984, gage height, 9.20 ft; minimum daily, 24 ft³/s May 16, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,370 ft³/s Apr. 28, gage height, 14.72 ft; minimum daily, 81 ft³/s Jul 5.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	296	285	407	427	396	e530	1700	1400	233	568	273
2	209	349	503	389	373	398	555	1420	1520	240	539	444
3	273	311	359	384	376	403	1150	1260	1400	152	592	495
4	227	286	289	379	376	435	1130	1100	1490	83	481	477
5	293	322	396	377	383	439	1340	1350	1480	81	316	336
6	243	333	320	379	394	428	1100	1460	1560	104	302	273
7	213	333	333	378	376	420	1300	1650	1910	294	290	267
8	230	338	352	367	357	417	1680	1860	1830	447	382	266
9	274	328	476	381	350	383	1650	1710	1780	497	327	298
10	222	298	416	350	348	433	1450	1900	1630	499	204	361
11	183	268	388	563	344	454	1520	2120	1640	502	171	436
12	277	406	396	366	362	666	1520	1990	1660	436	225	594
13	229	426	385	343	358	755	1150	1970	1630	419	360	527
14	263	612	319	327	366	862	934	1810	1430	564	590	522
15	207	360	300	327	424	727	1070	1870	1350	626	674	577
16	244	325	289	317	448	567	875	1800	1370	472	667	504
17	399	320	280	311	397	753	1120	1820	1150	462	696	411
18	252	289	323	413	382	774	1280	1960	1170	382	812	427
19	402	262	332	335	385	901	1220	1800	1090	452	869	410
20	447	260	340	399	392	1040	773	1920	1010	498	930	341
21	464	298	402	407	380	1120	1030	1860	863	506	650	304
22	626	305	344	399	385	922	854	1780	784	487	549	515
23	671	298	322	360	381	1000	931	1830	736	576	644	469
24	775	292	426	353	380	1070	1360	1640	468	602	706	399
25	717	261	397	359	424	923	1390	1700	490	636	652	375
26	477	264	272	348	367	780	1480	1510	478	766	645	357
27	319	267	390	353	376	693	1490	1590	297	751	501	306
28	233	293	420	448	387	e640	1810	1410	294	786	440	291
29	361	326	391	420	---	e600	2040	1320	271	648	327	287
30	407	285	400	314	---	e560	1700	1250	222	675	208	311
31	491	---	404	468	---	e540	---	1300	---	576	180	---
TOTAL	10841	9611	11249	11721	10698	20499	37432	51660	34403	14452	15497	11853
MEAN	350	320	363	378	382	661	1248	1666	1147	466	500	395
MAX	775	612	503	563	448	1120	2040	2120	1910	786	930	594
MIN	183	260	272	311	344	383	530	1100	222	81	171	266
AC-FT	21500	19060	22310	23250	21220	40660	74250	102500	68240	28670	30740	23510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2005, BY WATER YEAR (WY)

MEAN	896	955	966	945	955	1155	1359	1470	1340	1011	921	895
MAX	2850	2983	2552	1904	2556	3264	3594	3968	4263	3442	2416	2545
(WY)	1984	1984	1985	1984	1986	1986	1986	1986	1986	1983	1984	1986
MIN	223	298	310	269	296	351	351	158	301	393	461	192
(WY)	2004	1993	1982	2004	2002	1991	2003	2003	2004	1995	1993	1992

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1971 - 2005
ANNUAL TOTAL	135892	239916	
ANNUAL MEAN	371	657	1072
HIGHEST ANNUAL MEAN			2728
LOWEST ANNUAL MEAN			358
HIGHEST DAILY MEAN	1160	Mar 27	4830
LOWEST DAILY MEAN	24	May 16	24
ANNUAL SEVEN-DAY MINIMUM	49	May 11	49
ANNUAL RUNOFF (AC-FT)	269500	475900	777000
10 PERCENT EXCEEDS	601	1520	2180
50 PERCENT EXCEEDS	326	426	814
90 PERCENT EXCEEDS	181	273	300

e Estimated