

BEAR RIVER BASIN

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE¹/₄SW¹/₄NW¹/₄ sec. 17, T. 9 S., R. 41 E., Caribou County, 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.--4,099 mi².

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,650 ft above sea level, from topographic map.

REMARKS.--Records fair. 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.--89 years, 808 ft³/s, 585,400 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	448	368	169	104	118	246	363	108	971	1620	1400	883
2	318	363	128	104	118	251	173	104	952	1630	1280	885
3	195	357	128	104	118	251	113	104	943	1630	1280	895
4	200	357	132	104	118	246	118	104	952	1650	1280	888
5	200	312	132	108	123	251	123	246	961	1610	1280	735
6	200	186	132	108	123	261	128	417	952	1510	1280	611
7	195	140	128	104	118	177	128	461	952	1520	1250	554
8	191	140	128	108	118	118	128	455	952	1510	1240	549
9	186	140	128	108	118	113	128	448	952	1490	1240	550
10	182	140	128	108	108	123	128	442	952	1490	1230	552
11	302	136	128	108	104	118	132	522	1040	1490	1270	553
12	380	136	128	108	104	128	241	623	1140	1480	1270	554
13	374	136	128	108	104	136	286	661	1240	1340	1270	556
14	374	136	128	108	108	136	286	758	1090	1260	1280	557
15	368	136	128	164	108	225	286	835	971	1270	1280	559
16	368	136	123	220	108	461	251	835	971	1180	1130	464
17	368	132	123	220	108	608	230	1050	980	1110	1060	415
18	363	132	123	220	108	601	235	1140	989	1110	1070	416
19	363	136	123	220	108	601	235	1140	999	1070	1070	417
20	357	136	128	220	108	601	230	971	1130	1180	1070	418
21	230	225	225	220	108	593	225	835	1230	1270	1150	e525
22	169	276	286	220	113	601	225	835	1250	1270	1200	e446
23	169	271	286	220	113	615	225	792	1280	1350	1190	e306
24	169	271	286	220	191	623	220	766	1440	1410	1180	e308
25	169	271	286	220	246	623	186	750	1610	1400	1240	e309
26	169	271	286	220	246	623	118	741	1680	1400	1240	e310
27	164	271	286	215	246	557	118	741	1730	1460	1240	e311
28	164	266	160	152	246	550	118	741	1750	1480	1190	e317
29	164	266	104	118	---	536	118	800	1740	1470	1080	e318
30	302	266	104	118	---	488	113	943	1670	1480	990	e365
31	374	---	104	118	---	386	---	971	---	1480	917	---
TOTAL	8175	6509	5006	4797	3757	11847	5608	20339	35469	43620	37147	15526
MEAN	264	217	161	155	134	382	187	656	1182	1407	1198	518
MAX	448	368	286	220	246	623	363	1140	1750	1650	1400	895
MIN	164	132	104	104	104	113	113	104	943	1070	917	306
AC-FT	16220	12910	9930	9510	7450	23500	11120	40340	70350	86520	73680	30800

CAL YR 2000 TOTAL 250175 MEAN 684 MAX 1540 MIN 104 AC-FT 496200
WTR YR 2001 TOTAL 197800 MEAN 542 MAX 1750 MIN 104 AC-FT 392300

e Estimated