

**BEAR RIVER AT ALEXANDER, ID
(10079500)**

STREAMFLOW RECORDS FOR WATER YEAR 2008

LOCATION.--Lat 42°38'42", long 111°41'51" referenced to North American Datum of 1927, in NE ¼ SW ¼ NW ¼ sec.17, T.9 S., R.41 E., Caribou County, ID, 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.--October 2006 to current year published by PacifiCorp. March 1911 to September 2006 published by United States Geological Survey. Monthly discharge only for some periods, published in USGS WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 5,650 ft above NGVD of 1929, from topographic map. Water level also measured by bubbler. Shaft encoder was used as the primary water level indication, but stilling well does not reflect any water levels below 0.63. The bubbler water level was used in place of the shaft encoder for some periods of very low water levels during plant trips

REMARKS.--Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas. Regular discharge measurements were made throughout the season.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--96 years, 782 ft³/s, 567,200 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 discharge, 14 ft³/s, Oct 22, 1990.

DISCHARGE MEASUREMENT DATES.-- 9-26-07, 10-11-07, 11-20-07, 1-8-08, 2-26-08, 4-9-08, 6-5-08, 7-15-08, 8-25-08, 10-8-08.

**Bear River at Alexander, ID (10079500)
Water Year 2008 (October 2007 to September 2008)**

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	137	162	201	207	202	325	390	468	852	916	1130	1150	
2	116	162	199	206	200	346	251	392	767	989	1230	1060	
3	123	162	198	206	200	348	186	345	797	1020	1340	1070	
4	127	162	203	207	201	349	187	213	814	1120	1370	1190	
5	129	161	204	207	202	348	190	164	813	1180	1450	1250	
6	127	161	204	207	201	348	190	174	669	1190	1510	800	
7	129	173	204	208	200	346	192	181	489	1280	1510	687	
8	134	187	204	208	200	347	194	181	488	1570	1500	626	
9	154	159	207	207	199	347	269	181	488	1660	1400	598	
10	173	143	207	206	200	346	279	182	488	1660	1350	425	
11	178	147	207	208	201	344	295	183	489	1660	1350	348	
12	170	189	213	208	200	250	309	184	489	1770	1270	348	
13	171	198	217	196	204	205	309	184	489	1760	1130	424	
14	170	193	210	191	203	267	673	183	489	1590	1090	455	
15	170	195	196	192	203	296	313	184	431	1570	1090	456	
16	149	194	190	191	202	296	416	226	365	1550	1090	455	
17	139	190	191	191	202	227	475	211	347	1520	1090	455	
18	139	190	191	192	201	181	480	211	347	1480	1090	455	
19	177	192	192	239	255	182	631	211	370	1510	1090	454	
20	210	190	193	262	281	184	891	211	510	1510	1110	452	
21	203	199	201	262	280	185	896	290	590	1520	1130	370	
22	214	201	202	262	280	186	887	418	600	1340	1240	320	
23	186	188	202	262	281	186	862	645	602	1260	1300	320	
24	163	182	205	215	281	186	914	729	604	1270	1290	298	
25	163	185	205	192	279	186	908	731	604	1210	1290	290	
26	163	193	204	191	278	186	740	615	610	1090	1290	290	
27	163	191	204	196	276	373	658	605	609	1040	1290	291	
28	163	191	204	200	276	288	542	628	689	1040	1290	294	
29	162	195	205	202	276	359	488	716	819	1040	1250	291	
30	162	199	207	202	202	390	488	756	882	1030	1310	287	
31	162		207	203	203	390	751	751	1090	1280			
Monthly Statistics												Yearly Stats	
Total	4,926	5,434	6,277	6,526	6,664	8,797	14,503	11,353	17,600	41,435	39,150	16,209	178,874
Mean	159	181	202	211	230	284	483	366	587	1,340	1,260	540	487
Min	116	143	190	191	199	181	186	164	347	916	1,090	287	116
Max	214	201	217	262	281	390	914	756	882	1,770	1,510	1,250	1,770
Ins. Min	111	141	177	181	196	181	27	155	330	475	1,080	281	27
Ins. Max	220	424	286	298	339	896	1,350	769	1,120	1,910	1,520	1,450	1,910
Ac-ft	9,770	10,780	12,450	12,940	13,220	17,450	28,770	22,520	34,910	82,190	77,650	32,150	354,800