

BEAR RIVER BASIN

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NE¹/₄ NW¹/₄NE¹/₄ sec. 29, T. 16 S., R. 39 E., Franklin County, Idaho, 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.--4,881 mi².

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

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

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

REMARKS.--Records fair except for estimated daily discharges which are poor. 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, Jun 14, 1984, gage height, 9.20 ft; minimum daily discharge, 48 ft³/s, May 29, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft³/s, Jul 4, gage height, 12.46 ft; minimum daily discharge, 75 ft³/s, Sep 29.

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	346	604	539	e325	e470	480	650	348	583	801	854	423
2	407	762	485	e290	e465	495	537	313	669	970	899	427
3	488	455	382	e280	e460	503	641	246	628	1050	961	517
4	372	491	384	e280	e431	503	417	242	688	1050	823	646
5	336	554	384	e286	e397	489	359	245	679	1030	908	459
6	403	573	379	e319	e386	486	353	242	714	1160	1030	541
7	369	467	378	e233	e379	495	396	308	773	903	823	824
8	354	411	412	e225	e310	507	502	413	711	786	736	419
9	369	403	414	e346	e250	479	525	488	815	827	997	125
10	385	399	423	e390	e360	495	443	436	752	827	836	146
11	406	386	416	e370	e430	499	502	333	487	1010	790	163
12	386	383	439	e380	e419	457	603	465	627	989	837	198
13	547	391	440	e405	e402	389	421	412	831	904	911	225
14	552	400	432	e390	e440	375	477	405	875	837	684	210
15	549	415	423	e330	403	400	578	503	811	791	735	215
16	574	362	e410	e277	345	400	725	548	721	e886	837	227
17	560	357	e396	e260	313	588	466	563	745	678	802	221
18	483	375	e403	e292	325	742	373	564	734	619	665	161
19	512	388	e393	e330	385	874	608	742	792	565	650	199
20	523	387	e390	e360	451	807	547	1080	690	515	687	170
21	576	387	e398	e380	458	970	742	876	623	552	479	184
22	557	395	e425	e374	439	868	488	656	864	575	496	211
23	424	537	e460	e380	453	896	717	620	795	932	621	246
24	382	541	e410	e386	428	1080	478	431	755	1000	595	240
25	387	521	e420	e440	423	846	357	464	951	773	603	214
26	395	505	e420	e430	548	947	487	460	1150	938	479	234
27	438	491	e410	e410	491	940	436	394	1170	814	285	204
28	395	499	e406	e425	417	869	361	372	1240	713	317	130
29	348	512	e373	e390	---	902	392	480	1130	774	273	75
30	359	534	e350	e423	---	828	363	457	910	1040	319	128
31	421	---	e356	e360	---	1050	---	512	---	1070	434	---
TOTAL	13603	13885	12750	10766	11478	20659	14944	14618	23913	26379	21366	8382
MEAN	439	463	411	347	410	666	498	472	797	851	689	279
MAX	576	762	539	440	548	1080	742	1080	1240	1160	1030	824
MIN	336	357	350	225	250	375	353	242	487	515	273	75
AC-FT	26980	27540	25290	21350	22770	40980	29640	28990	47430	52320	42380	16630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	975	1038	1048	1025	1033	1236	1448	1582	1430	1060	963	962
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	250	298	310	347	351	351	403	357	333	393	461	192
(WY)	1993	1993	1982	2001	1993	1991	1992	1988	1989	1995	1993	1992

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1971 - 2001

ANNUAL TOTAL	262582	192743	
ANNUAL MEAN	717	528	1150
HIGHEST ANNUAL MEAN			2728
LOWEST ANNUAL MEAN			505
HIGHEST DAILY MEAN	1410	1240	4830
LOWEST DAILY MEAN	283	75	48
ANNUAL SEVEN-DAY MINIMUM	342	175	69
ANNUAL RUNOFF (AC-FT)	520800	382300	833100
10 PERCENT EXCEEDS	1070	875	2260
50 PERCENT EXCEEDS	725	460	923
90 PERCENT EXCEEDS	389	288	337

e Estimated