10126000 BEAR RIVER NEAR CORINNE, UT

Lower Bear Basin
Lower Bear-Malad Subbasin

LOCATION.--Lat 41°34′35″, long 112°06′00″ referenced to North American Datum of 1927, in NE ¼ SE ¼ NE ¼ sec.30, T.10 N., R.2 W., Box Elder County, UT, Hydrologic Unit 16010204, on right bank 1.2 mi downstream from Salt Creek, 2.0 mi northeast of Corinne, and 2.8 mi downstream from Malad River.

DRAINAGE AREA.--7,029 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft above NGVD of 1929, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to November 21, 1955.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by Cutler Dam about 25 miles upstream of gage, power development, diversions for irrigation, and return flow from irrigated areas and occasional backwater from Bear River Bird Refuge about 5 miles downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,770 ft^3/s, May 19, 1984, gage height, 17.50 ft; minimum daily discharge, 23 ft^3/s, Jul 30, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,470 ft^3/s, Apr 21, gage height, 13.94 ft; minimum daily discharge, 106 ft^3/s, Aug 12.

10126000 BEAR RIVER NEAR CORINNE, UT—Continued

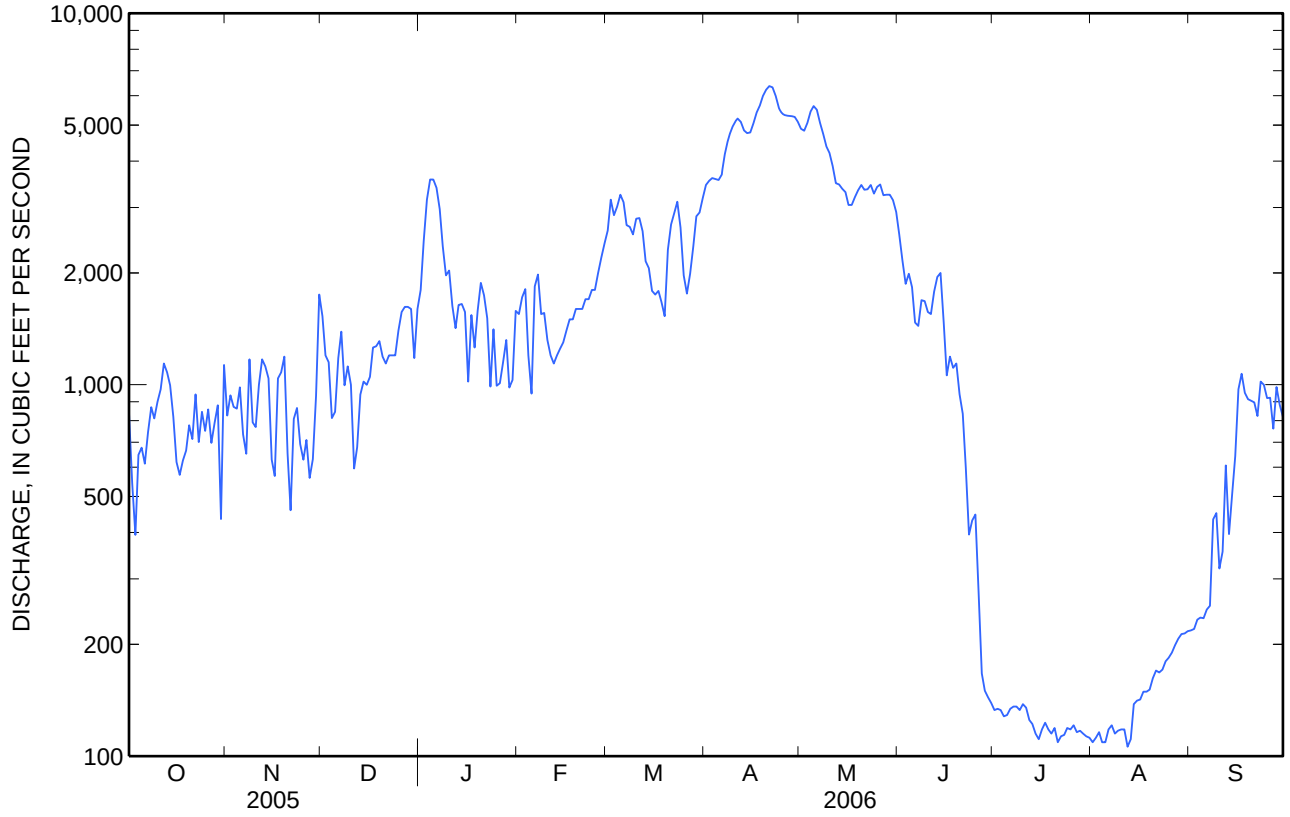
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	841	826	1,530	1,800	1,550	e2,600	3,450	4,890	2,540	133	109	218
2	543	936	1,200	2,440	1,720	e3,150	3,540	4,830	2,160	134	112	220
3	394	872	1,150	3,150	1,810	2,860	3,600	5,070	1,870	133	116	233
4	647	862	813	3,570	e1,200	3,020	3,580	5,440	1,990	128	109	236
5	677	984	845	3,570	947	3,250	3,560	5,630	1,830	129	109	235
6	613	735	1,180	3,390	1,840	3,100	3,680	5,500	1,470	134	118	248
7	745	652	1,390	2,970	1,980	2,690	4,200	5,070	1,440	136	121	254
8	870	1,170	997	2,360	e1,550	2,660	4,570	4,730	1,690	136	115	434
9	812	792	1,120	1,970	e1,560	2,540	4,850	4,380	1,680	133	117	451
10	899	769	1,000	2,030	e1,320	2,800	5,070	4,210	1,570	138	118	320
11	972	1,000	595	1,630	e1,200	2,810	5,210	3,880	1,550	135	118	355
12	1,140	1,170	679	1,420	e1,140	2,590	5,100	3,490	1,780	125	106	606
13	1,080	1,120	941	1,640	e1,200	2,150	4,840	3,460	1,950	122	111	396
14	997	1,040	1,020	1,650	e1,250	2,060	4,760	3,370	2,000	115	138	509
15	820	628	1,000	1,570	e1,300	1,790	4,780	3,300	1,470	111	141	642
16	619	568	1,050	1,020	e1,400	1,750	5,060	3,050	1,060	118	142	972
17	572	1,040	1,260	1,540	e1,500	1,790	5,410	3,050	1,190	123	149	1,070
18	625	1,080	1,270	1,260	e1,500	1,670	5,650	3,200	1,110	118	149	951
19	665	1,190	1,310	1,580	e1,600	1,530	5,990	3,340	1,140	115	151	914
20	778	654	1,190	1,880	e1,600	2,310	6,230	3,450	943	119	162	905
21	714	459	1,140	1,740	e1,600	2,700	6,370	3,350	835	109	170	896
22	942	809	e1,200	1,510	e1,700	2,900	6,320	3,360	598	113	168	824
23	701	866	e1,200	989	e1,700	3,110	5,990	3,450	395	114	171	1,020
24	845	692	1,200	1,410	e1,800	2,650	5,560	3,270	431	119	180	1,000
25	751	628	1,400	994	e1,800	1,970	5,390	3,410	447	118	184	921
26	858	710	1,570	1,010	e2,000	1,760	5,320	3,460	276	121	190	922
27	697	561	1,620	1,150	e2,200	1,990	5,300	3,240	167	116	199	762
28	789	630	1,620	1,320	e2,400	2,360	5,290	3,250	150	117	207	986
29	880	933	1,600	983	---	2,840	5,260	3,250	144	115	213	883
30	435	1,750	1,180	1,030	---	2,910	5,110	3,140	139	113	214	820
31	1,130	---	1,600	1,580	---	3,180	---	2,920	---	112	217	---
Total	24,051	26,126	36,870	56,156	44,367	77,490	149,040	119,440	36,015	3,802	4,624	19,203
Mean	776	871	1,189	1,811	1,585	2,500	4,968	3,853	1,200	123	149	640
Max	1,140	1,750	1,620	3,570	2,400	3,250	6,370	5,630	2,540	138	217	1,070
Min	394	459	595	983	947	1,530	3,450	2,920	139	109	106	218
Ac-ft	47,710	51,820	73,130	111,400	88,000	153,700	295,600	236,900	71,440	7,540	9,170	38,090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-57, 1964-2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,314	1,582	1,657	1,786	1,819	2,310	2,849	2,925	2,172	692	601	893
Max	4,240	4,471	4,414	3,639	5,966	6,041	7,258	9,598	9,201	4,186	3,045	3,423
(WY)	(1984)	(1985)	(1984)	(1984)	(1986)	(1986)	(1985)	(1984)	(1984)	(1983)	(1983)	(1984)
Min	95.6	621	535	620	723	913	638	71.8	77.6	40.4	46.7	62.2
(WY)	(1993)	(2001)	(1995)	(1993)	(1993)	(1991)	(1992)	(1992)	(1992)	(2003)	(2004)	(1992)

10126000 BEAR RIVER NEAR CORINNE, UT—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1950-57, 1964-2006	
Annual total	617,294		597,184			
Annual mean	1,691		1,636		1,714	
Highest annual mean					5,050	1984
Lowest annual mean					435	1992
Highest daily mean	7,790	May 2	6,370	Apr 21	14,300	May 19, 1984
Lowest daily mean	124	Aug 14	106	Aug 12	23	Jul 30, 2004
Annual seven-day minimum	130	Aug 10	111	Jul 30	24	Jul 26, 2004
Annual runoff (ac-ft)	1,224,000		1,185,000		1,242,000	
10 percent exceeds	4,440		3,630		3,620	
50 percent exceeds	1,080		1,140		1,340	
90 percent exceeds	147		133		126