10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

Bear River Basin

LOCATION.--Lat 41°26′04″, long 111°01′01″ referenced to North American Datum of 1927, in NE ¼ NW ¼ NW ¼ sec.29, T.17 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--755 mi^2.

WATER-DISCHARGE RECORDS

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

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,455 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversion for irrigation of about 43,500 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft^3/s, Jun 2, 1983, gage height, 6.17 ft; minimum, no flow several days during Aug, Sep 1988, and Sep 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,120 ft^3/s, May 25, gage height 5.40; minimum daily discharge, 12 ft^3/s, Oct 12.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	19	80	e18	e53	e56	e64	e92	338	1,230	523	39	33
2	32	60	e20	e53	e58	e64	81	294	1,260	443	48	31
3	31	54	e25	e53	e60	e66	115	239	1,050	422	71	28
4	30	69	e28	e54	e62	e66	203	222	863	405	73	28
5	29	75	e30	e54	e63	e66	211	237	712	336	64	29
6	24	70	e33	e54	e62	e68	165	371	747	293	54	26
7	21	68	e36	e55	e55	e78	182	570	855	263	51	26
8	20	68	e37	e56	e56	e78	320	589	749	213	48	21
9	18	79	e38	e58	e54	e79	301	497	637	170	45	23
10	15	141	e39	e57	e56	e80	195	548	521	153	54	24
11	13	169	e40	e56	e57	e79	151	986	427	144	70	34
12	12	139	e41	e55	e59	e82	122	964	462	136	57	36
13	15	120	e43	e54	e60	e86	121	733	573	120	59	33
14	18	105	e44	e55	e62	e89	132	603	449	111	53	35
15	20	89	e46	e56	e62	e89	130	598	434	91	47	31
16	20	81	e44	e56	e62	e93	112	678	598	79	45	29
17	21	82	e43	e57	e63	e89	116	939	791	71	56	29
18	21	83	e42	e58	e63	e88	153	1,040	971	60	66	28
19	21	74	e41	e59	e63	e90	189	891	1,110	59	60	30
20	39	65	e40	e60	e61	e90	204	1,200	1,090	47	52	30
21	72	60	e40	e61	e60	e89	192	1,530	1,060	33	47	30
22	106	47	e42	e62	e60	e88	164	1,760	1,060	37	46	33
23	94	53	e43	e63	e59	e89	173	1,890	1,110	35	47	36
24	78	55	e40	e62	e60	e89	198	1,940	1,070	34	48	31
25	95	33	e49	e61	e61	e88	293	2,050	950	29	41	28
26	90	41	e49	e60	e63	e87	385	2,020	910	25	39	27
27	85	47	e50	e59	e63	e87	404	1,770	860	29	32	25
28	88	e33	e50	e62	e64	e91	434	1,560	669	26	29	23
29	103	e15	e51	e61	---	e99	421	1,470	655	24	29	23
30	92	e16	e52	e57	---	e97	362	1,460	573	24	27	24
31	87	---	e52	e56	---	e95	---	1,600	---	26	32	---
Total	1,429	2,171	1,246	1,777	1,684	2,583	6,321	31,587	24,446	4,461	1,529	864
Mean	46.1	72.4	40.2	57.3	60.1	83.3	211	1,019	815	144	49.3	28.8
Max	106	169	52	63	64	99	434	2,050	1,260	523	73	36
Min	12	15	18	53	54	64	81	222	427	24	27	21
Ac-ft	2,830	4,310	2,470	3,520	3,340	5,120	12,540	62,650	48,490	8,850	3,030	1,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	69.2	70.2	68.9	65.6	80.1	161	323	786	816	189	48.7	47.1
Max	437	198	181	147	312	627	671	1,957	2,564	1,191	340	288
(WY)	(1983)	(1974)	(1984)	(1984)	(1986)	(1986)	(1969)	(1984)	(1986)	(1995)	(1983)	(1983)
Min	3.03	6.06	7.21	6.76	10.4	26.8	77.7	104	54.6	4.41	0.68	0.49
(WY)	(1965)	(1989)	(1989)	(1989)	(2003)	(1977)	(1977)	(1977)	(1992)	(2000)	(2000)	(1988)

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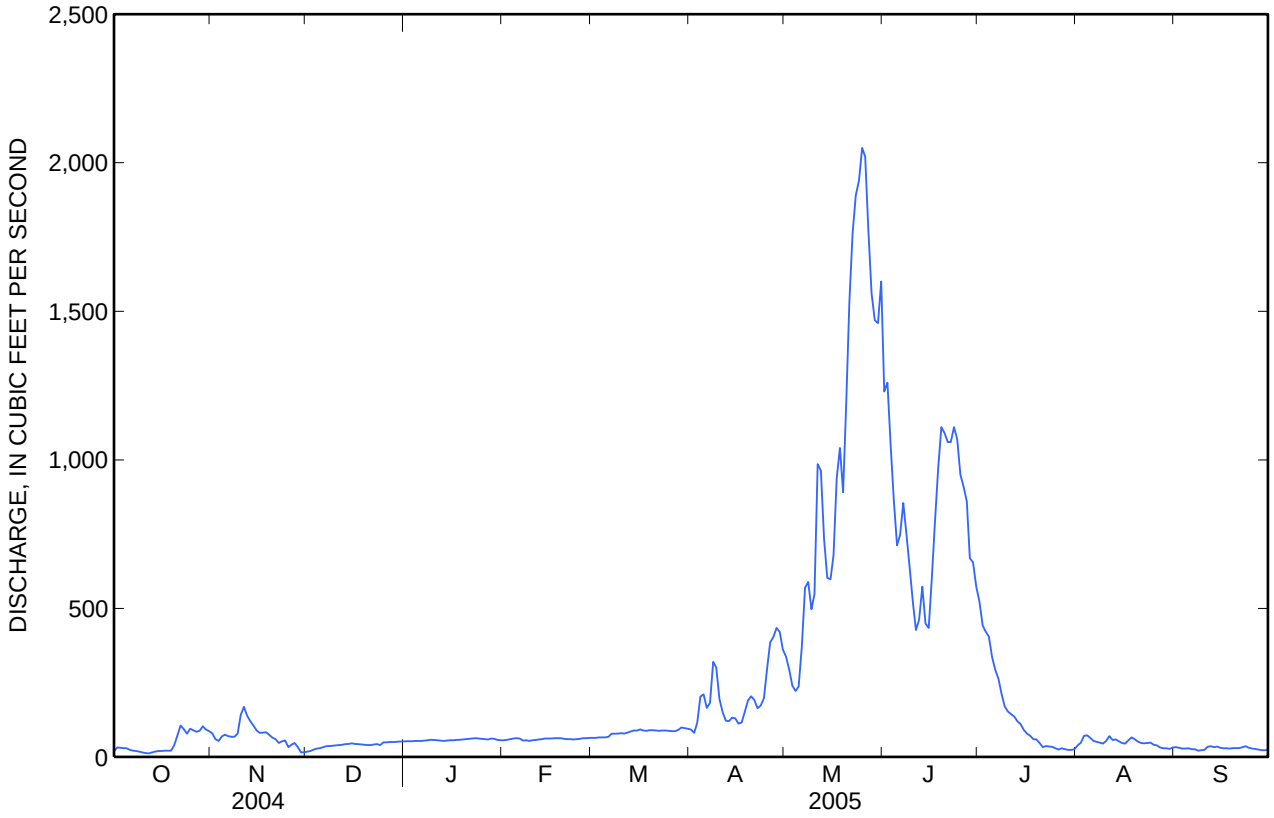
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1962 - 2005	
Annual total	35,337		80,098			
Annual mean	96.5		219		227	
Highest annual mean					583	1986
Lowest annual mean					45.1	1977
Highest daily mean	617	May 7	2,050	May 25	3,900	Jun 2, 1983
Lowest daily mean	12	Oct 12	12	Oct 12	0.00	Aug 23, 1988
Annual seven-day minimum	16	Oct 8	16	Oct 8	0.00	Aug 30, 1988
Annual runoff (ac-ft)	70,090		158,900		164,500	
10 percent exceeds	242		720		669	
50 percent exceeds	48		62		80	
90 percent exceeds	24		28		8.6	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV													
10...	1510	157	605	10.6	105	8.5	384	6.0	5.0	180	44.9	16.4	2.28
MAR													
22...	0810	140	600	10.4	95	8.1	513	1.0	1.5	250	58.4	25.9	4.07
JUN													
29...	0915	703	607	8.0	94	7.9	194	13.5	12.0	93	24.5	7.86	.88
AUG													
04...	0915	81	604	7.0	95	8.0	463	18.0	18.5	220	50.8	22.6	2.78

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV													
10...	.5	15.4	16	165	16.4	.1	6.7	11.2	213	.29	90.4	<.04	.15
MAR													
22...	.6	20.9	15	220	31.0	.2	10.1	21.0	304	.41	115	.05	.06
JUN													
29...	.2	4.65	10	91	5.26	E.1	5.0	5.4	108	.15	205	<.04	<.06
AUG													
04...	.4	14.4	12	203	14.3	.2	5.9	19.9	252	.34	55.5	<.04	<.06