

BEAR RIVER BASIN

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10023000 BIG CREEK NEAR RANDOLPH, UT

LOCATION.--Lat 41°36'36", long 111°15'12", in NW^{1/4}NW^{1/4}NE^{1/4} sec. 15, T. 10 W., R. 6 E., Rich County, Hydrologic Unit 16010101, on left bank 2.7 mi downstream from main forks and 5.2 mi southwest of Randolph.

DRAINAGE AREA.--52.4 mi².

PERIOD OF RECORD.--March 1939 to September 1944 (fragmentary), October 1949 to September 1970. October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,410 ft above NGVD of 1929, from topographic map. March 1939 to September 1944 (fragmentary), at site 0.2 mi downstream at different datum, October 1949 to September 1959 at site 200 ft upstream at different datum, September 1959 to September 1970 at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 337 ft³/s, Jul 11, 1957, gage height, 3.75 ft, site and datum then in use; minimum discharge, 0.9 ft³/s, Aug 4, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Aug 17	1800	63.2	5.55					

Minimum daily discharge, 0.94 ft³/s, Aug 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	e1.9	e2.6	e1.9	e1.9	1.6	3.3	3.7	3.2	2.2	1.2	1.8
2	2.9	e1.9	e2.7	e1.9	e1.8	1.6	3.7	3.3	2.9	2.0	1.4	1.8
3	4.3	e1.9	e2.7	e1.9	e1.7	1.9	3.8	3.3	2.7	1.7	1.5	3.1
4	2.8	e1.9	e2.7	e1.9	e1.7	1.9	3.7	3.5	2.5	1.6	1.4	3.3
5	2.4	e1.9	e2.7	e1.9	e1.7	1.8	3.8	3.6	2.6	1.6	1.2	2.9
6	2.3	e1.9	e2.6	e1.9	e1.6	1.7	4.0	3.8	2.4	1.5	1.2	2.4
7	2.3	e1.7	e2.6	e1.9	e1.5	1.8	4.1	4.5	2.3	1.4	1.2	2.3
8	2.2	e1.6	e2.6	e1.9	e1.5	2.7	5.1	4.6	2.3	1.5	1.2	2.1
9	2.1	e1.7	e2.5	e1.9	e1.5	2.7	4.9	4.7	2.4	1.5	1.2	2.0
10	2.1	e1.8	e2.5	e1.9	e1.5	3.6	4.7	4.7	3.5	1.4	1.2	1.9
11	2.2	e1.9	e2.4	e1.9	e1.4	4.7	4.1	5.0	3.5	1.2	1.1	1.8
12	2.3	e2.0	e2.3	e1.8	e1.4	5.1	3.8	4.8	2.9	1.1	1.1	1.7
13	2.2	e2.1	e2.2	e1.8	e1.4	5.2	3.8	4.9	2.7	1.2	0.94	2.1
14	2.3	e2.1	e2.1	e1.8	e1.4	4.7	3.8	4.4	2.3	1.6	1.0	2.1
15	2.3	e2.1	e2.0	e1.7	e1.4	4.6	3.9	4.0	2.1	1.9	1.2	2.3
16	2.3	e2.1	e2.0	e1.7	e1.3	4.6	4.0	3.8	2.1	1.8	1.2	2.1
17	2.2	e2.0	e2.0	e1.7	e1.3	5.1	3.8	3.8	2.3	1.8	6.1	1.9
18	2.1	e1.9	e2.0	e1.6	e1.3	5.6	3.9	3.8	3.0	1.9	3.8	1.7
19	2.2	e1.8	e2.0	e1.6	e1.3	6.0	3.6	3.9	2.6	1.6	2.9	2.0
20	2.1	e1.7	e2.0	e1.6	e1.3	6.1	3.6	3.8	2.4	1.4	2.2	2.7
21	2.1	e1.7	e2.0	e1.6	e1.3	5.9	4.3	3.9	2.5	1.3	2.6	2.7
22	2.1	e1.7	e2.0	e1.6	e1.3	5.7	3.7	3.7	2.3	1.6	2.3	2.7
23	2.1	e1.8	e2.0	e1.6	1.3	5.4	3.4	3.9	2.1	1.7	3.2	2.6
24	2.1	e1.9	e2.0	e1.6	1.3	4.9	3.2	3.5	1.9	1.5	2.8	2.4
25	2.0	e2.0	e2.0	e1.6	1.3	4.8	3.1	3.4	1.8	1.5	2.5	2.3
26	e2.0	e2.1	e2.0	e1.6	1.4	4.5	3.1	3.4	2.0	1.6	2.6	2.2
27	e2.0	e2.2	e2.0	e1.6	1.3	4.0	3.2	3.4	2.3	1.6	2.6	2.2
28	e2.0	e2.3	e2.0	e1.7	1.7	3.7	3.7	4.9	2.4	1.5	2.1	2.2
29	e2.0	e2.4	e2.0	e1.8	1.5	3.2	4.7	5.6	3.3	1.3	2.0	2.4
30	e2.0	e2.5	e2.0	e1.9	---	3.2	4.4	4.2	2.5	1.4	2.0	2.8
31	e2.0	---	e2.0	e2.0	---	3.0	---	3.6	---	1.2	1.9	---
TOTAL	70.5	58.5	69.2	54.8	42.3	121.3	116.2	125.4	75.8	48.1	60.84	68.5
MEAN	2.27	1.95	2.23	1.77	1.46	3.91	3.87	4.05	2.53	1.55	1.96	2.28
MAX	4.3	2.5	2.7	2.0	1.9	6.1	5.1	5.6	3.5	2.2	6.1	3.3
MIN	2.0	1.6	2.0	1.6	1.3	1.6	3.1	3.3	1.8	1.1	0.94	1.7
AC-FT	140	116	137	109	84	241	230	249	150	95	121	136

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	11.9	11.0	9.95	9.15	8.95	10.2	15.0	30.0	21.4	15.8	13.3	12.2
MAX	26.7	25.9	23.7	23.4	22.7	25.4	42.3	95.4	62.2	40.3	32.8	29.2
(WY)	(2000)	(1987)	(1987)	(1987)	(1999)	(1999)	(1951)	(1952)	(1952)	(1950)	(1999)	(1999)
MIN	2.14	1.95	2.18	1.77	1.46	2.65	3.56	2.85	1.86	1.48	1.29	1.80
(WY)	(1993)	(2004)	(1991)	(2004)	(2004)	(1991)	(1991)	(1992)	(1992)	(1961)	(1992)	(1992)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1950 - 2004
ANNUAL TOTAL	1,119.0	911.44	
ANNUAL MEAN	3.07	2.49	
HIGHEST ANNUAL MEAN			14.1
LOWEST ANNUAL MEAN			32.1
HIGHEST DAILY MEAN	7.3	Mar 15	2.49
LOWEST DAILY MEAN	1.0	Jul 15	1952
ANNUAL SEVEN-DAY MINIMUM	1.2	Jul 11	2004
ANNUAL RUNOFF (AC-FT)	2,220	1,810	
10 PERCENT EXCEEDS	5.4	4.1	140 May 18, 1950
50 PERCENT EXCEEDS	2.6	2.1	0.94 Aug 13, 2004
90 PERCENT EXCEEDS	1.7	1.4	1.1 Aug 8, 1992

e Estimated

