

## BEAR RIVER BASIN

245

10023000 BIG CREEK NEAR RANDOLPH, UT

LOCATION.--Lat 41°36'36", long 111°15'12", in NW<sup>1/4</sup>NW<sup>1/4</sup>NE<sup>1/4</sup> 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 mi<sup>2</sup>.

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 fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 337 ft<sup>3</sup>/s, Jul 11, 1957, gage height, 3.75 ft, site and datum then in use; minimum discharge, 0.9 ft<sup>3</sup>/s, Aug 4, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft<sup>3</sup>/s and maximum (\*):

	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)		Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
			unknown	unknown					

Minimum daily discharge, 1.0 ft<sup>3</sup>/s, Jul 15.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	e4.1	e6.0	e5.4	e3.9	e3.2	e5.8	e3.8	2.6	1.6	1.5	2.1
2	5.9	e4.0	e6.2	e5.1	e3.5	e3.3	e6.0	e3.8	2.6	1.6	1.8	2.1
3	4.8	e3.9	e6.4	e4.6	e3.3	e3.4	e6.0	e3.7	2.6	1.5	2.8	2.3
4	4.3	e3.7	e6.6	e4.6	e3.0	e3.4	e6.2	e3.7	2.6	1.5	2.8	2.3
5	4.1	e3.6	e6.4	e4.7	e2.6	e3.5	e6.2	e3.6	2.5	1.5	2.3	2.3
6	4.0	e3.5	e6.1	e5.1	e2.4	e3.6	e6.4	e3.5	2.4	1.6	2.3	2.6
7	3.9	e3.7	e5.7	e5.4	e2.3	e3.7	e6.4	e3.5	2.3	1.5	2.2	2.7
8	3.9	e3.8	e5.4	e5.8	e2.2	e3.8	e6.1	e3.4	2.2	1.4	2.0	2.4
9	3.9	e4.0	e5.1	e6.0	e2.3	e4.0	e5.8	e3.4	2.2	1.5	2.0	2.8
10	3.9	e4.1	e4.7	e6.3	e2.3	e4.2	e5.8	e3.4	2.2	1.4	1.9	3.1
11	3.7	e4.2	e4.6	e6.5	e2.4	e4.5	e6.0	e3.3	2.1	1.3	1.8	3.1
12	3.7	e4.3	e4.4	e6.0	e2.5	e4.8	e6.2	e3.3	2.4	1.3	1.7	2.8
13	3.8	e4.5	e4.2	e5.6	e2.6	e5.2	e6.4	e3.2	e2.4	1.2	1.9	2.6
14	3.9	e4.6	e3.9	e5.4	e2.7	e6.2	e6.4	3.2	e2.4	1.1	1.8	2.7
15	3.9	e4.8	e3.8	e5.0	e2.9	e7.3	e6.2	3.3	2.3	1.0	2.0	2.5
16	3.8	e4.9	e3.7	e4.5	e3.0	e6.3	e5.9	3.3	2.1	1.1	2.2	2.4
17	3.9	e5.0	e3.7	e4.2	e3.1	e5.8	e5.6	3.3	2.6	1.3	1.9	2.5
18	3.8	e5.2	e3.9	e4.0	e3.3	e5.6	e5.4	3.4	2.4	1.7	1.6	3.2
19	3.8	e5.4	e4.2	e3.7	e3.4	e5.4	e5.0	3.3	2.5	1.5	1.7	3.0
20	3.8	e5.6	e4.5	e3.8	e3.6	e5.2	e4.8	3.4	2.3	1.7	1.5	2.8
21	3.8	e5.4	e4.6	e4.0	e3.8	e5.2	e4.8	3.2	3.3	2.1	1.4	2.8
22	3.9	e5.2	e4.8	e4.3	e3.9	e5.4	e4.6	2.9	3.2	e1.8	1.9	2.7
23	4.7	e5.0	e5.2	e4.5	e3.8	e5.6	e4.5	2.9	3.4	e1.6	2.5	2.6
24	4.6	e5.0	e5.6	e4.9	e3.7	e5.4	e4.5	2.9	3.9	1.5	2.0	2.5
25	4.1	e5.1	e5.8	e5.3	e3.5	e5.2	e4.4	3.1	3.7	1.2	2.0	2.5
26	3.9	e5.1	e6.2	e5.8	e3.3	e5.1	e4.4	3.0	2.7	2.9	1.8	2.5
27	3.8	e5.3	e5.7	e6.2	e3.2	e4.9	e4.3	2.9	2.2	1.9	1.9	2.4
28	3.9	e5.6	e5.5	e6.6	e3.1	e5.1	e4.2	2.8	1.9	1.8	1.8	2.4
29	4.0	e5.6	e5.4	e5.7	---	e5.4	e4.1	2.8	2.0	1.8	1.9	2.4
30	e4.0	e5.8	e5.6	e5.1	---	e5.4	e3.9	2.7	1.8	1.6	2.4	2.4
31	e4.0	---	e6.0	e4.4	---	e5.6	---	2.7	---	1.6	2.3	---
TOTAL	126.2	140.0	159.9	158.5	85.6	150.7	162.3	100.7	75.8	48.1	61.6	77.5
MEAN	4.07	4.67	5.16	5.11	3.06	4.86	5.41	3.25	2.53	1.55	1.99	2.58
MAX	5.9	5.8	6.6	6.6	3.9	7.3	6.4	3.8	3.9	2.9	2.8	3.2
MIN	3.7	3.5	3.7	3.7	2.2	3.2	3.9	2.7	1.8	1.0	1.4	2.1
AC-FT	250	278	317	314	170	299	322	200	150	95	122	154

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2003, BY WATER YEAR (WY)

MEAN	12.2	11.2	10.1	9.35	9.15	10.4	15.3	30.7	21.9	16.2	13.6	12.5
(WY)	(2000)	(1987)	(1987)	(1987)	(1989)	(1999)	(1999)	(1951)	(1952)	(1952)	(1950)	(1999)
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)	(1993)	(1993)	(1991)	(1991)	(1991)	(1991)	(1991)	(1992)	(1992)	(1992)	(1999)	(1992)
MIN	2.14	2.84	2.18	2.17	2.63	2.65	3.56	2.85	1.86	1.48	1.29	1.80

## BEAR RIVER BASIN

10023000 BIG CREEK NEAR RANDOLPH, UT—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1950 - 2003
ANNUAL TOTAL	1,612.9	1,346.9	
ANNUAL MEAN	4.42	3.69	
HIGHEST ANNUAL MEAN			14.4
LOWEST ANNUAL MEAN			3.21
HIGHEST DAILY MEAN	8.3	May 11	1952
LOWEST DAILY MEAN	2.4	Aug 12	1992
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 7	3.24
ANNUAL RUNOFF (AC-FT)	3,200	2,670	140 May 18, 1950
10 PERCENT EXCEEDS	6.3	5.8	29 Aug 5, 1992
50 PERCENT EXCEEDS	4.0	3.7	10 Aug 8, 1992
90 PERCENT EXCEEDS	3.0	1.8	3.7

e Estimated

