

## GREEN RIVER BASIN

1

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE<sup>1</sup>/4 NW<sup>1</sup>/4 SW<sup>1</sup>/4 sec. 9, T. 1 N., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above NGVD of 1929, from river-profile map. Prior to April 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning November 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft<sup>3</sup>/s, Jun 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft, Jun 4, 1986, from floodmarks; minimum recorded, 7.0 ft<sup>3</sup>/s, Mar 13, 1940, Mar 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft<sup>3</sup>/s, Jul 17, gage height, 2.15 ft; minimum discharge, 22 ft<sup>3</sup>/s, Mar 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	51	e39	e36	39	41	36	47	50	64	58	41
2	48	49	e39	e36	40	38	37	46	50	73	72	41
3	50	44	e40	e35	40	39	39	47	49	74	72	41
4	49	42	e41	e35	39	39	38	48	46	74	66	41
5	50	41	e41	e35	38	38	38	49	46	74	56	43
6	51	42	e40	e35	39	38	39	49	44	74	58	49
7	51	42	e39	e36	38	39	39	50	44	72	58	56
8	50	42	e38	e36	39	e39	38	49	43	70	56	52
9	53	41	e38	e35	38	e40	38	50	43	69	52	47
10	52	e41	e37	e35	37	40	38	51	43	68	52	43
11	50	e41	e37	e35	38	40	38	52	44	69	51	45
12	49	41	e36	e36	38	41	38	52	45	68	52	54
13	50	41	e36	e36	e38	40	38	52	44	68	52	50
14	49	40	e36	e35	e38	e38	38	52	47	69	e52	48
15	48	40	e35	e34	e37	e38	38	51	59	71	e53	45
16	48	40	e35	e33	e37	38	39	52	60	71	e54	46
17	48	40	e36	e32	e37	38	37	52	59	73	e53	55
18	48	41	e36	e33	e38	39	37	52	59	69	e54	57
19	48	39	e35	e33	e39	41	39	53	58	70	e55	50
20	48	39	e35	e34	39	38	39	54	57	69	e54	47
21	48	e39	e34	e34	e40	40	37	56	60	68	54	45
22	47	e40	e34	e35	40	41	37	50	60	67	51	45
23	49	e40	e33	e35	40	40	37	49	58	70	51	44
24	47	e39	e33	e36	41	39	43	46	56	72	51	44
25	48	e39	e33	e36	e42	37	45	44	54	66	51	44
26	48	e39	e34	e37	e42	37	46	44	54	60	48	44
27	48	e39	e34	e37	41	37	48	45	60	57	43	44
28	48	e39	e35	e37	e42	36	47	45	64	56	42	45
29	e48	e40	e35	e38	---	37	46	45	64	56	43	45
30	49	e40	e36	e38	---	37	46	46	63	55	41	45
31	58	---	e36	38	---	36	---	46	---	53	42	---
TOTAL	1527	1231	1126	1096	1094	1199	1193	1524	1583	2089	1647	1396
MEAN	49.26	41.03	36.32	35.35	39.07	38.68	39.77	49.16	52.77	67.39	53.13	46.53
MAX	58	51	41	38	42	41	48	56	64	74	72	57
MIN	47	39	33	32	37	36	36	44	43	53	41	41
AC-FT	3030	2440	2230	2170	2170	2380	2370	3020	3140	4140	3270	2770

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	57.07	53.83	50.86	47.99	47.39	50.19	49.98	116.9	234.8	185.1	90.40	76.02
MAX	133	135	137	123	111	116	111	431	743	599	241	253
(WY)	1998	1998	1998	1998	1998	1998	1998	1997	1999	1998	1999	1999
MIN	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4
(WY)	1990	1990	1991	1991	1988	1988	1995	1992	1992	1991	1991	1993

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002

ANNUAL TOTAL	18489	16705	88.52
ANNUAL MEAN	50.65	45.77	
HIGHEST ANNUAL MEAN			212
LOWEST ANNUAL MEAN			40.1
HIGHEST DAILY MEAN	83	May 17	1999
LOWEST DAILY MEAN	33	Dec 23	1992
ANNUAL SEVEN-DAY MINIMUM	34	Dec 21	1310
ANNUAL RUNOFF (AC-FT)	36670	33130	Jul 1 1998
10 PERCENT EXCEEDS	65	59	22
50 PERCENT EXCEEDS	49	43	Dec 1 1991
90 PERCENT EXCEEDS	39	36	26 Dec 30 1987
			64130
			158
			47
			33

e Estimated