

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in SE¹/4NW¹/4NW¹/4 sec. 11, T. 30 S., R. 9 W., Beaver County, Hydrologic Unit 16030007, on right bank, 0.5 mi downstream from Rocky Ford Dam, and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi².

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

REVISED RECORDS.--WSP 1564: 1920, 1924. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since November 12, 1916. Elevation of gage is 5,400 ft above sea level, from topographic map. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion between dam and station. Flow regulated by Minersville Reservoir (prior to 1968 published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use upstream from reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s, Jun 12, 1983, gage height, 4.74 ft, from rating curve extended above 600 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 1.3 ft³/s, Oct 24, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft³/s, Jun 19, 20, gage height, 1.60 ft; minimum daily discharge, 3.3 ft³/s, on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.3	3.7	3.7	4.8	5.9	6.2	53	43	54	38	18
2	3.9	3.3	3.7	3.7	4.4	6.0	6.2	57	40	57	36	18
3	3.7	3.3	3.7	3.7	4.6	6.2	6.2	54	39	54	35	18
4	4.0	3.3	3.6	3.7	4.9	6.2	6.2	51	37	46	33	18
5	3.9	3.3	3.6	3.7	4.9	6.2	6.5	52	37	39	33	18
6	3.7	3.3	3.7	3.7	4.9	6.2	6.7	57	38	34	34	19
7	3.6	3.4	3.7	3.7	4.9	6.2	6.7	54	37	33	36	20
8	3.5	3.5	3.7	3.7	4.9	6.2	6.9	54	40	32	37	19
9	3.6	3.7	3.7	3.7	4.9	6.2	6.7	56	44	31	35	20
10	3.7	3.7	3.7	3.7	5.1	6.2	6.8	58	44	28	30	20
11	3.7	3.7	3.7	3.7	5.3	6.2	6.7	60	50	22	22	19
12	3.7	3.4	3.7	3.7	5.3	6.2	6.7	62	57	21	25	18
13	3.7	3.5	3.7	3.7	5.3	6.0	7.1	62	61	21	24	14
14	3.7	3.6	3.7	3.7	5.8	5.8	7.2	65	52	19	22	14
15	3.7	3.7	3.7	3.7	5.7	5.8	7.3	67	52	8.6	25	13
16	3.6	3.4	3.7	3.7	5.8	5.8	7.3	67	61	e5.0	28	14
17	3.3	3.3	3.7	3.7	5.8	5.8	7.3	67	61	e5.0	28	18
18	3.3	3.3	3.7	3.7	5.9	5.8	7.3	64	65	7.3	25	18
19	3.3	3.3	3.7	3.7	6.2	5.8	7.9	61	75	10	23	18
20	3.3	3.3	3.7	3.7	6.2	5.8	10	59	75	17	22	12
21	3.6	3.3	3.7	3.7	6.1	5.6	9.8	59	74	25	24	3.8
22	3.5	3.3	3.7	3.9	6.1	5.5	12	57	64	29	25	3.5
23	3.3	3.4	3.7	4.0	5.9	5.6	15	56	56	29	24	3.3
24	3.3	3.5	3.7	4.0	5.8	5.8	14	57	63	32	21	3.3
25	3.3	3.6	3.7	4.3	6.0	5.8	14	58	61	34	22	3.4
26	3.3	3.7	3.7	4.3	6.2	6.1	22	61	60	33	24	5.1
27	3.3	3.7	3.7	4.4	6.1	6.2	36	61	50	29	23	6.5
28	3.3	3.7	3.7	4.4	6.1	6.2	39	61	52	29	23	4.5
29	3.3	3.7	3.7	4.4	---	6.2	43	61	52	30	23	4.0
30	3.5	3.7	3.7	4.6	---	6.2	51	58	53	34	23	3.7
31	3.5	---	3.7	4.8	---	6.2	---	49	---	36	20	---
TOTAL	110.0	104.2	114.5	120.8	153.9	185.9	395.7	1818	1593	883.9	843	387.1
MEAN	3.55	3.47	3.69	3.90	5.50	6.00	13.2	58.6	53.1	28.5	27.2	12.9
MAX	4.0	3.7	3.7	4.8	6.2	6.2	51	67	75	57	38	20
MIN	3.3	3.3	3.6	3.7	4.4	5.5	6.2	49	37	5.0	20	3.3
AC-FT	218	207	227	240	305	369	785	3610	3160	1750	1670	768

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1936, 1938 - 2001, BY WATER YEAR (WY)

MEAN	12.3	10.3	11.1	11.9	11.7	15.4	28.3	96.1	108	84.1	65.7	35.1
MAX	57.8	51.8	97.8	121	55.8	76.7	196	457	926	215	143	145
(WY)	1938	1984	1942	1984	1985	1983	1984	1984	1983	1983	1986	1999
MIN	2.85	3.19	2.67	2.95	3.54	4.69	5.98	27.8	21.0	7.84	7.61	4.59
(WY)	1977	1978	1978	1978	1978	1978	1997	1977	1919	1919	1919	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1915-36, 1938-2001
ANNUAL TOTAL	6543.1	6710.0	
ANNUAL MEAN	17.9	18.4	40.7
HIGHEST ANNUAL MEAN			163
LOWEST ANNUAL MEAN			12.6
HIGHEST DAILY MEAN	81	May 5	1960
LOWEST DAILY MEAN	3.3	Oct 17	1999
ANNUAL SEVEN-DAY MINIMUM	3.3	Oct 23	1914
ANNUAL RUNOFF (AC-FT)	12980	13310	29470
10 PERCENT EXCEEDS	56	56	103
50 PERCENT EXCEEDS	6.0	6.2	14
90 PERCENT EXCEEDS	3.6	3.5	4.6

e Estimated