

WEBER RIVER BASIN

1

10132000 WEBER RIVER AT ECHO, UT

LOCATION.--Lat 40°58'04", long 111°26'13", in NE¹/4 SE¹/4 NE¹/4 sec. 25, T. 3 N., R. 4 E., Summit County, Hydrologic Unit 16020101, on right bank 0.5 mi downstream from Echo Dam, 150 yards upstream from Echo Creek, 0.75 mi southeast of Echo.

DRAINAGE AREA.--727 mi².

PERIOD OF RECORD.--April 1927 to September 1960, October 1988 to current year. Monthly discharge only October 1958 to September 1960, published in WSP 1734.

GAGE.--Water-stage recorder. Elevation of gage is 5,440 ft above NGVD of 1929, from Echo Reservoir elevations. Prior to April 18, 1931, staff gage at site 0.3 mi upstream at different datum. April 18, 1931 to March 23, 1950, water-stage recorder at site 0.1 mi downstream at different datum. March 24, 1950 to September 30, 1960 water-stage recorder at site 0.25 mi upstream at different datum.

REMARKS.--Records good except for estimated days, which are fair. Flow regulated by Echo Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,060 ft³/s, May 13, 1952, gage height 7.34 ft, datum then in use; minimum discharge, 0.15 ft³/s, Jan 3, 4, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 544 ft³/s, Aug 1; minimum daily discharge, 0.93 ft³/s, Jan 3, 17-23.

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	309	1.1	1.1	e1.0	e0.95	e1.1	1.1	1.4	138	e387	544	247
2	298	1.1	1.1	e1.0	e0.95	e1.0	1.1	1.4	110	e409	410	238
3	269	1.1	1.1	e0.93	e0.95	e1.0	1.1	1.4	103	407	389	230
4	272	1.1	1.1	e1.0	e0.96	e1.0	1.1	1.5	107	e407	367	219
5	282	1.1	1.1	e1.0	e0.96	e1.0	1.1	2.1	149	e407	384	228
6	272	1.1	1.3	e1.0	e0.96	e1.0	1.2	31	200	407	393	203
7	259	1.2	1.1	e1.0	e0.97	e0.99	1.2	39	228	401	389	157
8	232	1.3	1.1	e1.0	e0.97	e0.97	1.2	40	227	e389	411	122
9	203	1.1	1.1	e1.0	e0.97	1.0	1.2	40	188	409	398	109
10	121	1.1	e1.0	e1.0	e0.97	1.0	1.2	40	173	437	373	102
11	69	1.1	e1.1	e1.0	e0.98	1.1	1.2	40	173	434	368	97
12	9.6	1.1	e1.0	e0.99	e0.98	1.1	1.2	40	177	406	337	87
13	1.4	1.1	e1.1	e0.98	e0.98	1.3	1.2	40	243	385	330	100
14	1.4	1.1	e1.1	e0.98	e0.98	1.1	1.2	55	317	388	347	111
15	1.4	1.1	e1.0	e0.98	e0.98	1.1	1.2	104	328	397	354	149
16	1.4	1.1	e1.0	e0.98	e0.99	1.1	1.2	157	327	422	359	189
17	1.4	1.1	e1.0	e0.93	e0.99	1.1	1.3	112	322	420	349	165
18	1.3	1.1	e1.0	e0.93	e0.99	1.1	1.3	95	301	385	327	121
19	1.2	1.1	e0.99	e0.93	e0.99	1.1	1.3	99	e281	350	320	111
20	1.2	1.1	e0.99	e0.93	e0.99	1.1	1.3	e93	e258	312	297	147
21	1.2	1.1	e0.99	e0.93	e1.0	1.1	1.2	e86	282	315	259	147
22	1.2	1.4	e0.99	e0.93	e1.0	1.1	1.2	81	303	356	243	151
23	1.2	1.2	e1.0	e0.93	e1.0	1.2	1.3	73	298	390	225	176
24	1.2	1.2	e1.0	e0.94	e1.0	1.2	1.3	74	262	391	234	200
25	1.2	1.2	e1.0	e0.94	e1.0	1.2	1.4	74	293	395	261	217
26	1.2	1.1	e1.0	e0.94	e1.0	1.2	1.4	75	403	385	287	232
27	1.1	1.1	e1.0	e0.94	e1.0	1.2	1.4	80	438	346	272	230
28	1.1	1.2	e1.0	e0.94	e1.0	1.2	1.4	102	430	370	253	217
29	1.2	1.1	e0.96	e0.94	---	1.2	1.4	133	390	406	250	200
30	1.3	1.1	e1.0	e0.94	---	1.2	1.4	145	377	423	249	186
31	1.3	---	e1.0	e0.94	---	1.1	---	146	---	470	247	---
TOTAL	2619.5	34.0	32.32	29.87	27.46	34.16	37.3	2101.8	7826	12206	10226	5088
MEAN	84.50	1.133	1.043	0.964	0.981	1.102	1.243	67.80	260.9	393.7	329.9	169.6
MAX	309	1.4	1.3	1.0	1.0	1.3	1.4	157	438	470	544	247
MIN	1.1	1.1	0.96	0.93	0.95	0.97	1.1	1.4	103	312	225	87
AC-FT	5200	67	64	59	54	68	74	4170	15520	24210	20280	10090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932-58, 1989-2002, BY WATER YEAR (WY)

MEAN	118.7	90.71	87.22	91.58	107.8	114.5	175.4	515.7	708.8	502.6	426.2	283.6
MAX	297	183	247	296	547	560	580	2158	1682	1037	597	492
(WY)	1994	1939	1999	1997	1997	1996	1998	1952	1950	1995	1990	1993
MIN	0.45	0.43	0.29	0.43	0.42	0.75	1.12	27.2	235	176	97.4	23.0
(WY)	1993	1993	1993	1955	1993	1993	1955	1991	1934	1934	1934	1934

SUMMARY STATISTICS			FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1932-58, 1989-2002		
ANNUAL TOTAL			46532.83			40262.41					
ANNUAL MEAN			127.5			110.3			269.3		
HIGHEST ANNUAL MEAN									566		
LOWEST ANNUAL MEAN									108		
HIGHEST DAILY MEAN			461 Jul 31			544 Aug 1			3010 May 7 1952		
LOWEST DAILY MEAN			0.81 Jan 1			0.93 Jan 3			0.17 Jan 3 1991		
ANNUAL SEVEN-DAY MINIMUM			0.82 Jan 1			0.93 Jan 17			0.19 Dec 6 1992		
ANNUAL RUNOFF (AC-FT)			92300			79860			195100		
10 PERCENT EXCEEDS			383			384			587		
50 PERCENT EXCEEDS			1.8			1.3			165		
90 PERCENT EXCEEDS			0.99			0.98			1.4		

e Estimated