

WEBER RIVER BASIN

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10132000 WEBER RIVER AT ECHO, UT

LOCATION.--Lat 40°58'04", long 111°26'13", in NE^{1/4}SE^{1/4}NE^{1/4} 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, 437 ft³/s, Aug 8; minimum daily discharge, 0.92 ft³/s, Oct 31.

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	124	e0.93	e1.0	e1.0	e1.2	e1.0	1.1	1.4	e302	337	406	320
2	e74	e0.94	e1.0	e1.1	e1.1	e0.97	1.1	1.5	310	369	411	335
3	e48	e0.96	e1.0	e1.1	e1.1	e0.97	1.3	1.4	e293	385	368	376
4	e35	e0.95	e1.0	e1.1	e1.1	e1.0	1.2	1.5	e300	377	346	397
5	24	e0.96	e1.1	e1.1	e1.1	e1.1	1.2	1.5	e291	369	327	371
6	31	e0.97	e1.1	e1.1	e1.1	e1.1	1.2	1.5	e300	361	359	356
7	67	e0.93	e1.0	e1.1	e1.1	e1.1	1.1	1.5	e293	366	387	362
8	67	e0.93	e1.1	e1.1	e1.1	e1.1	e1.1	1.5	e296	363	437	380
9	67	e0.93	e1.1	e0.97	e1.1	e1.1	e1.1	1.5	e288	380	432	399
10	62	e0.95	e1.1	e1.1	e1.1	e1.1	e1.1	1.6	e284	385	410	379
11	62	e0.96	e1.1	e1.1	e1.0	e1.1	e1.2	1.5	282	365	394	341
12	69	e0.97	e1.1	e1.1	e1.1	e1.1	e1.2	1.5	281	359	380	329
13	83	e0.97	e1.1	e1.1	e1.1	e1.1	e1.2	1.5	335	356	384	336
14	50	e0.97	e1.1	e1.1	e1.1	e1.1	e1.2	1.5	315	375	387	342
15	0.97	e0.97	e1.0	e1.1	e1.1	e1.1	e1.2	1.5	297	383	383	330
16	e0.93	e0.93	e1.1	e1.1	e1.1	e1.1	1.3	1.5	289	366	370	337
17	e1.0	e0.95	e1.0	e1.1	e0.97	e1.1	1.4	1.8	285	388	383	350
18	e0.97	e0.93	e1.1	e1.1	e1.0	e1.2	1.4	1.6	321	393	384	309
19	e1.0	e0.94	e1.1	e1.1	e1.1	e1.1	1.4	1.8	319	388	385	288
20	e0.99	e0.93	e1.1	e1.1	e0.93	e1.2	1.4	102	338	387	400	284
21	e1.0	e0.97	e1.0	e1.1	e1.0	e1.2	1.4	186	325	359	407	288
22	e1.1	e0.97	e1.1	e1.1	e0.97	e1.2	1.4	177	274	374	382	309
23	e0.97	e0.97	e1.1	e1.1	e1.0	e1.2	1.4	198	216	403	342	323
24	e1.1	e1.0	e0.97	e1.1	e0.97	e1.1	1.4	237	136	400	320	347
25	e1.0	e0.97	e1.1	e1.0	e1.0	1.1	1.4	215	106	372	337	363
26	e0.98	e1.0	e1.1	e1.1	e1.0	1.2	1.4	214	117	352	341	349
27	e0.97	e1.0	e1.1	e1.2	e1.0	1.1	1.4	e211	181	291	352	362
28	e0.96	e0.97	e1.1	e1.1	e0.97	1.1	1.4	e223	262	311	346	369
29	e0.95	e0.97	e1.0	e1.2	---	1.1	1.4	e242	314	353	335	373
30	e0.93	e1.0	e1.0	e1.1	---	1.1	1.4	e251	302	401	321	353
31	e0.92	---	e1.1	e1.1	---	1.1	---	e274	---	415	304	---
TOTAL	879.74	28.79	32.97	33.97	29.51	34.24	38.4	2,559.1	8,252	11,483	11,520	10,357
MEAN	28.4	0.96	1.06	1.10	1.05	1.10	1.28	82.6	275	370	372	345
MAX	124	1.0	1.1	1.2	1.2	1.2	1.4	274	338	415	437	399
MIN	0.92	0.93	0.97	0.97	0.93	0.97	1.1	1.4	106	291	304	284
AC-FT	1,740	57	65	67	59	68	76	5,080	16,370	22,780	22,850	20,540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932-58, 1989-2003, BY WATER YEAR (WY)

MEAN	117	88.6	85.2	89.4	105	112	171	505	699	499	425	285
MAX	297	183	247	296	547	560	580	2,158	1,682	1,037	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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1932-58 1989-2003
ANNUAL TOTAL	38,518.09	45,248.72	
ANNUAL MEAN	106	124	266
HIGHEST ANNUAL MEAN			566
LOWEST ANNUAL MEAN			108
HIGHEST DAILY MEAN	544	Aug 1	1952
LOWEST DAILY MEAN	0.92	Oct 31	1934
ANNUAL SEVEN-DAY MINIMUM	0.93	Jan 17	0.17
ANNUAL RUNOFF (AC-FT)	76,400	89,750	3,010
10 PERCENT EXCEEDS	384	374	May 7, 1952
50 PERCENT EXCEEDS	1.2	1.3	Jan 3, 1991
90 PERCENT EXCEEDS	0.96	0.97	Dec 6, 1992

e Estimated

