

WEBER RIVER BASIN

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10130500 WEBER RIVER NEAR COALVILLE, UT

LOCATION.--Lat 40°53'43", long 111°24'04", in NE¹/₄SW¹/₄NE¹/₄ sec. 20, T. 2 N., R. 5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi upstream from high-water line of Echo Reservoir, 1.4 mi south of Coalville, 1.7 mi upstream from Chalk Creek, and 5.5 mi downstream from Silver Creek.

DRAINAGE AREA.--435 mi².

PERIOD OF RECORD.--April 1927 to current year.

REVISED RECORDS.--WSP 1314: 1943(M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,600 ft above NGVD of 1929, from topographic map. Prior to March 22, 1931, nonrecording gage, March 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--Records good except for estimated daily values, which are fair. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since April 1, 1957, by Rockport Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft³/s, May 6, 1952; maximum gage height, 5.08 ft (present datum), May 29, 1951; minimum, 6 ft³/s, Sep 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 216 ft³/s, Jul 23, gage height, 2.66 ft; minimum daily discharge, 42 ft³/s, several days in Jan.

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	103	48	46	e49	e44	e55	102	e58	e90	182	203	148
2	104	46	44	e48	e46	e57	104	e59	e91	186	204	148
3	106	46	45	e46	e46	e56	98	e59	e93	179	207	125
4	100	45	45	e46	e46	e57	88	e58	e92	176	205	107
5	110	45	44	e46	e46	e57	84	e58	e95	181	203	104
6	116	45	46	e44	e46	e56	81	e58	e94	169	202	105
7	116	45	48	e43	e46	e57	74	e59	87	117	201	111
8	117	44	49	e43	e49	e56	70	e58	92	118	200	120
9	96	42	e47	e43	e49	e55	64	e58	125	138	200	112
10	50	42	e47	e44	e49	e57	65	e58	172	171	194	109
11	48	42	e47	e43	e49	e55	64	e59	174	175	192	106
12	48	42	e47	e42	e50	e56	62	e58	177	169	190	96
13	47	43	e48	e42	e50	e57	62	e57	174	169	181	75
14	46	44	e48	e42	e50	e55	63	e58	170	171	183	67
15	47	42	e47	e42	e50	e56	66	e58	170	171	173	63
16	47	42	e48	e42	e50	e54	66	e58	168	175	168	65
17	43	42	e46	e42	e50	e56	62	e61	163	180	168	73
18	45	43	e47	e42	e52	e55	60	e62	167	186	169	91
19	45	42	e48	e42	e51	e56	60	e63	166	205	164	81
20	45	41	e48	e42	e55	e57	61	e63	169	206	159	77
21	44	40	e49	e42	e52	e55	61	e65	168	207	163	81
22	44	54	e49	e42	e53	e56	57	e63	173	207	157	75
23	46	56	e49	e42	e55	e55	54	e68	171	193	162	71
24	47	49	e49	e42	e54	e56	55	e76	170	207	160	71
25	46	47	e47	e42	e57	e56	e56	e79	163	210	162	71
26	45	46	e47	e42	e56	e57	e58	e81	172	209	161	73
27	45	45	e47	e42	e57	58	e59	e81	170	210	161	73
28	43	48	e47	e42	e56	66	e58	e83	168	205	160	74
29	43	50	e49	e42	---	70	e58	e87	170	206	155	74
30	45	44	e49	e42	---	81	e57	e87	173	206	152	76
31	47	---	e49	e42	---	92	---	e90	---	205	152	---
TOTAL	1974	1350	1466	1335	1414	1822	2029	2040	4427	5689	5511	2722
MEAN	63.68	45.00	47.29	43.06	50.50	58.77	67.63	65.81	147.6	183.5	177.8	90.73
MAX	117	56	49	49	57	92	104	90	177	210	207	148
MIN	43	40	44	42	44	54	54	57	87	117	152	63
AC-FT	3920	2680	2910	2650	2800	3610	4020	4050	8780	11280	10930	5400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	171.6	151.9	144.2	129.7	131.0	160.3	199.0	321.7	551.3	276.2	184.1	174.9
MAX	397	246	400	397	307	615	760	994	1550	815	346	277
(WY)	1985	1986	1984	1984	1985	1986	1986	1986	1983	1995	1983	1958
MIN	26.8	32.0	27.9	23.5	28.1	27.5	31.4	44.3	96.8	89.7	40.6	43.6
(WY)	1993	1962	1978	1978	1981	1981	1981	1959	1977	1958	1961	1960

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1958 - 2002

ANNUAL TOTAL	37673	31779		
ANNUAL MEAN	103.2	87.07	216.4	
HIGHEST ANNUAL MEAN			485	1986
LOWEST ANNUAL MEAN			71.1	1961
HIGHEST DAILY MEAN	239	Jul 11	210	Jul 25
LOWEST DAILY MEAN	38	May 6	40	Nov 21
ANNUAL SEVEN-DAY MINIMUM	42	Nov 15	42	Nov 15
ANNUAL RUNOFF (AC-FT)	74720		63030	
10 PERCENT EXCEEDS	191		175	156800
50 PERCENT EXCEEDS	79		58	377
90 PERCENT EXCEEDS	45		43	173
				45

e Estimated