



Water-Data Report UT-2005

10132000 WEBER RIVER AT ECHO, UT

Weber River Basin

LOCATION.--Lat 40°58'04", long 111°26'13" referenced to North American Datum of 1927, in NE ¼ SE ¼ NE ¼ 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.--727.00 mi².

WATER-DISCHARGE RECORDS

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 discharge, 1,730 ft³/s, May 27, gage height, 4.48 ft; minimum daily discharge, 0.68
ft³/s, Oct 26, 29, 30.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	265	0.76	e0.85	e0.95	1.1	1.6	2.5	513	449	768	547	489
2	263	0.76	e0.85	e0.94	1.1	1.6	2.7	430	432	677	509	470
3	273	0.76	e0.85	e0.96	1.1	1.6	2.7	244	516	626	479	468
4	299	0.76	e0.85	e1.0	1.1	1.6	31	236	436	563	458	477
5	309	0.76	e0.86	e1.0	1.1	1.7	153	236	413	558	459	480
6	307	0.76	e0.86	1.0	1.1	1.6	185	273	377	560	463	479
7	318	0.76	e0.86	e1.0	1.2	1.6	185	418	423	591	467	480
8	307	0.76	e0.86	e1.0	1.1	1.7	184	497	453	638	467	476
9	284	0.82	e0.84	1.0	1.1	1.7	186	500	442	635	474	491
10	265	0.76	e0.84	1.1	1.1	1.7	186	496	523	642	493	463
11	280	0.86	e0.83	1.2	1.2	1.8	186	501	578	646	488	412
12	302	0.87	0.82	1.0	1.2	1.8	246	501	661	652	474	414
13	298	0.84	0.82	1.0	1.3	1.8	271	574	711	617	495	398
14	254	0.84	0.84	1.0	2.1	1.8	271	664	656	670	507	404
15	34	0.84	0.84	1.0	1.4	1.8	271	702	621	661	506	407
16	0.79	0.84	0.84	1.0	1.3	1.8	271	695	589	645	487	428
17	0.69	0.84	0.83	1.1	1.2	1.8	269	680	667	647	432	469
18	0.71	0.84	0.84	1.1	1.2	2.0	267	675	993	630	401	477
19	0.71	0.84	0.84	1.1	1.3	1.9	363	674	1,190	622	414	490
20	0.85	0.84	0.84	1.1	1.5	2.0	413	830	1,200	596	433	494
21	0.76	0.84	0.84	1.1	1.4	2.0	411	1,100	1,270	585	447	493
22	0.77	0.84	0.83	1.1	1.3	2.1	412	1,250	1,300	592	450	454
23	0.74	0.84	e0.84	1.1	1.4	2.1	486	1,260	1,310	592	427	416
24	0.75	0.84	e0.85	1.1	1.5	2.1	550	1,450	1,410	590	426	402
25	0.78	0.84	e0.87	1.1	1.5	2.3	552	1,610	1,420	569	447	376
26	0.68	0.84	e0.87	1.1	1.5	2.2	641	1,640	1,380	559	477	376
27	0.69	0.84	e0.87	1.1	1.5	2.2	694	1,390	1,230	578	497	367
28	0.75	0.84	e0.89	1.2	1.6	2.2	452	875	882	587	526	360
29	0.68	0.84	e0.89	1.2	---	2.2	375	690	807	587	521	356
30	0.68	0.85	e0.90	1.1	---	2.2	512	684	827	588	518	370
31	0.72	---	e0.93	1.1	---	2.5	---	638	---	569	486	---
Total	4,069.75	24.52	26.44	32.85	36.5	59.0	9,030.9	22,926	24,166	19,040	14,675	13,136
Mean	131	0.82	0.85	1.06	1.30	1.90	301	740	806	614	473	438
Max	318	0.87	0.93	1.2	2.1	2.5	694	1,640	1,420	768	547	494
Min	0.68	0.76	0.82	0.94	1.1	1.6	2.5	236	377	558	401	356
Ac-ft	8,070	49	52	65	72	117	17,910	45,470	47,930	37,770	29,110	26,060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	116	84.6	81.3	85.4	100	107	170	502	690	499	424	289
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	232	176	97.4	23.0
(WY)	(1993)	(1993)	(1993)	(1955)	(1993)	(1993)	(1955)	(1991)	(2004)	(1934)	(1934)	(1934)

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	Calendar Year 2004	Water Year 2005			Water Years 1932 - 2005		
Annual total	43,796.91		107,222.96				
Annual mean	120		294		263		
Highest annual mean					566		1952
Lowest annual mean					108		1934
Highest daily mean	440	Jul 15	1,640	May 26	3,010	May 7,	1952
Lowest daily mean	0.68	Oct 26	0.68	Oct 26	0.17	Jan 3,	1991
Annual seven-day minimum	0.71	Oct 26	0.71	Oct 26	0.19	Dec 6,	1992
Annual runoff (ac-ft)	86,870		212,700		190,500		
10 percent exceeds	337		662		581		
50 percent exceeds	1.3		246		163		
90 percent exceeds	0.84		0.84		1.1		