

Water-Data Report 2013

10234500 BEAVER RIVER NEAR BEAVER, UT

Escalante Desert-Sevier Lake Basin
Beaver Bottoms-Upper Beaver Subbasin

LOCATION.--Lat 38°16'50", long 112°34'03" referenced to North American Datum of 1927, in SW ¼ SE ¼ SE ¼ sec.18, T.29 S., R.6 W., Beaver County, UT, Hydrologic Unit 16030007, on left bank 0.3 mi upstream of diversion, 0.6 mi downstream of Baker Canyon, and 4.2 mi east of Beaver.

DRAINAGE AREA.--91 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 6,200 ft above NGVD of 1929, from topographic map. Prior to March 30, 1914, nonrecording gage and March 30, 1914 to October 15, 1937, water-stage recorder at site 0.1 mi downstream at different datum. October 16, 1937 to March 20, 1959, at site 0.2 mi upstream at different datum. March 21, 1959 to March 21, 1978 at site 0.5 mi upstream at different datum. March 21, 1978 to May 30, 1983, at site 0.2 mi upstream at different datum. July 15, 1983 to June 21, 1985 at present site at datum 1.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Water is diverted for power generation and is returned upstream of station. Slight regulation by powerplants and several small headwater reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s, Jul 22, 1936, gage height, 7.27 ft, datum then in use, from rating curve extended above 500 ft³/s; minimum daily, 7.2 ft³/s, Dec 19, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 173 ft³/s, May 15, gage height 2.12 ft; Minimum daily discharge, 16 ft³/s, Nov 10, Jan 15.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	18	18	19	e18	e18	17	32	132	77	30	22	25
2	17	18	19	e18	e18	18	30	117	78	32	21	34
3	17	17	19	e17	17	18	28	104	79	30	20	29
4	17	17	19	e18	17	19	32	110	79	25	19	36
5	17	18	18	e18	17	19	35	110	77	24	21	32
6	17	17	19	e18	18	19	39	109	85	27	20	28
7	17	19	19	e18	e17	19	39	105	82	28	21	26
8	17	17	17	e18	18	19	42	91	79	26	21	32
9	17	20	e18	e18	e18	21	39	85	76	25	20	29
10	17	16	e18	e18	e18	e20	33	85	75	23	21	39
11	17	e18	e18	e18	e17	e20	32	88	80	25	20	51
12	20	e18	e18	e17	e17	20	30	96	76	30	21	39
13	23	e20	18	e18	e17	22	34	117	75	31	20	39
14	22	21	18	e18	e17	25	35	131	70	25	19	48
15	22	19	18	e16	e17	28	38	155	65	25	18	36
16	21	20	19	e18	e18	32	35	148	62	24	17	32
17	21	20	18	e18	17	32	32	142	59	25	18	31
18	20	20	e18	e18	e17	29	29	117	55	25	24	29
19	19	19	e19	21	17	29	29	111	53	27	25	28
20	19	18	e19	e20	18	27	31	98	53	25	24	27
21	19	18	e19	e19	17	26	32	89	51	24	23	26
22	19	18	e19	17	e18	25	41	87	51	25	23	25
23	19	18	e19	17	e17	25	50	93	49	25	26	26
24	19	18	e19	18	e17	25	48	94	47	24	26	25
25	17	17	e20	18	e18	23	52	94	40	23	25	24
26	17	18	e20	18	e18	23	59	103	37	22	27	24
27	18	18	e20	18	e18	24	69	102	36	21	31	24
28	19	18	e19	e18	e17	25	88	102	36	24	24	24
29	18	19	e18	e17	---	27	110	93	35	48	22	23
30	18	18	e18	e19	---	32	132	82	33	26	24	22
31	18	---	e18	e18	---	33	---	80	---	23	28	---
Total	576	550	577	558	488	741	1,355	3,270	1,850	817	691	913
Mean	18.6	18.3	18.6	18.0	17.4	23.9	45.2	105	61.7	26.4	22.3	30.4
Max	23	21	20	21	18	33	132	155	85	48	31	51
Min	17	16	17	16	17	17	28	80	33	21	17	22
Ac-ft	1,140	1,090	1,140	1,110	968	1,470	2,690	6,490	3,670	1,620	1,370	1,810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	23.5	21.6	19.4	18.3	18.8	22.6	52.6	163	151	63.2	36.7	25.9
Max	41.5	47.0	37.7	27.0	30.2	44.9	117	409	638	198	98.0	63.3
(WY)	(1915)	(1984)	(1984)	(1942)	(2006)	(1916)	(1943)	(1984)	(1983)	(1983)	(1983)	(1983)
Min	13.3	11.7	9.95	9.96	11.4	12.9	18.6	25.7	24.1	14.9	11.8	10.7
(WY)	(1978)	(1978)	(1977)	(1977)	(1977)	(1977)	(1975)	(1977)	(1934)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1915-2013	
Annual total	10,284		12,386			
Annual mean	28.1		33.9		51.5	
Highest annual mean					119	1983
Lowest annual mean					16.1	1977
Highest daily mean	106	May 2	155	May 15	884	May 24, 1984
Lowest daily mean	16	Sep 4	16	Nov 10	7.2	Dec 20, 1976
Annual seven-day minimum	16	Sep 4	17	Oct 2	8.4	Dec 19, 1976
Annual runoff (ac-ft)	20,400		24,570		37,300	
10 percent exceeds	57		80		114	
50 percent exceeds	20		22		25	
90 percent exceeds	18		17		15	

