

Water-Data Report 2013

06108000 TETON RIVER NEAR DUTTON, MT

Marias Basin
Teton Subbasin

LOCATION.--Lat 47°55'49", long 111°33'11" referenced to North American Datum of 1983, in SE ¼ SW ¼ SW ¼ sec.12, T.25 N., R.1 E., Teton County, MT, Hydrologic Unit 10030205, on right bank 150 ft upstream from Kerr Bridge, 0.9 mi downstream from Hunt Coulee, 9.5 mi northeast of Dutton, and at river mile 100.9.

DRAINAGE AREA.—1,238 mi², revised. Area at site used prior to July 17, 1965, 1,308 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1954 to current year.

REVISED RECORDS.--WDR MT-2013: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 3,235 ft, referenced to the North American Vertical Datum of 1988. Prior to July 17, 1965, water-stage recorder at site 1,800 ft downstream at elevation 1.97 ft lower.

REMARKS.--Records are good except for estimated daily discharges, which are poor. Water is diverted on left bank in sec. 34, T.25 N., R.7 W., for storage in Bynum Reservoir (usable capacity, 75,000 acre-ft). Diversions for irrigation of about 44,000 acres occur upstream from station. U.S. Geological Survey satellite telemeter is located at the station.

06108000 TETON RIVER NEAR DUTTON, MT—Continued

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	13	31	48	e22	e45	e60	67	43	52	29	20	8.7
2	14	32	45	e20	e50	e60	63	42	52	26	25	9.3
3	20	33	42	e25	e50	e45	61	44	66	22	29	10
4	21	33	42	e25	e50	e40	60	48	68	20	31	10
5	21	34	41	e23	e50	e35	58	45	79	20	32	10
6	20	34	41	e27	e45	e40	56	43	91	19	32	9.8
7	19	34	e40	e30	e40	e45	54	40	81	19	31	22
8	20	e32	e25	e30	e35	e45	56	37	69	23	27	27
9	21	e25	e20	e35	e32	e48	54	36	58	30	23	26
10	21	e15	e30	e25	e30	e55	52	39	47	34	23	23
11	22	e10	e35	e18	e35	e50	53	35	43	32	23	21
12	23	e25	e35	e15	e45	e50	54	31	39	29	26	20
13	24	e35	e30	e20	e50	e60	53	31	44	27	26	18
14	23	38	e30	e25	e45	e50	52	29	46	23	27	17
15	23	35	e30	e40	e40	e50	52	31	60	19	25	16
16	24	36	e35	e40	e60	e45	53	30	61	16	23	14
17	25	39	e35	e35	e50	e40	53	26	52	15	21	14
18	23	46	e30	e40	e45	e40	53	30	52	19	21	15
19	23	46	e30	e35	e45	e45	52	35	59	17	17	16
20	24	56	e35	e30	e45	e50	53	37	60	17	15	17
21	24	54	e30	e30	e40	e60	54	44	172	15	12	18
22	e22	e50	e20	e30	e45	e40	54	45	155	12	12	18
23	e20	53	e20	e32	e50	e35	53	57	143	11	10	19
24	e20	57	e15	e35	e50	e40	54	69	118	15	11	20
25	e20	e47	e15	e40	e55	e40	55	75	87	17	11	23
26	e20	e45	e15	e40	e45	e45	53	65	70	16	10	25
27	e24	e45	e15	e35	e40	e50	53	53	65	18	9.1	26
28	28	e48	e20	e35	e45	e55	48	48	54	17	10	28
29	29	50	e25	e25	---	e60	45	49	48	16	9.7	31
30	28	53	e20	e25	---	71	44	55	37	15	10	31
31	30	---	e20	e30	---	69	---	56	---	15	9.7	---
Total	689	1,171	914	917	1,257	1,518	1,622	1,348	2,128	623	611.5	562.8
Mean	22.2	39.0	29.5	29.6	44.9	49.0	54.1	43.5	70.9	20.1	19.7	18.8
Max	30	57	48	40	60	71	67	75	172	34	32	31
Min	13	10	15	15	30	35	44	26	37	11	9.1	8.7
Ac-ft	1,370	2,320	1,810	1,820	2,490	3,010	3,220	2,670	4,220	1,240	1,210	1,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	62.0	63.7	57.7	50.3	77.2	163	142	218	360	140	64.0	57.2
Max	223	176	209	167	388	819	495	957	2,727	551	263	211
(WY)	(1966)	(1976)	(1960)	(1976)	(1986)	(1969)	(1965)	(1976)	(1964)	(1958)	(1972)	(1993)
Min	10.9	12.4	11.2	9.35	13.2	28.8	24.9	20.1	14.8	1.30	0.00	3.73
(WY)	(2008)	(2008)	(2007)	(2007)	(2007)	(2002)	(2008)	(2000)	(2007)	(1985)	(1988)	(2007)

06108000 TETON RIVER NEAR DUTTON, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1954 - 2013	
Annual total	17,644.3		13,361.3			
Annual mean	48.2		36.6		121	
Highest annual mean					350	1964
Lowest annual mean					16.3	2007
Highest daily mean	177	Jun 8	172	Jun 21	20,000	Jun 9, 1964
Lowest daily mean	8.2	Sep 3	8.7	Sep 1	0.00	Jul 21, 1984
Annual seven-day minimum	9.0	Aug 31	9.5	Aug 27	0.00	Jul 21, 1984
Maximum peak flow			322	Jun 21	^a 71,300 Jun 9, 1964	
Maximum peak stage			3.25	Jun 21	^b 20.48 Jun 9, 1964	
Instantaneous low flow					0.00	Jul 21, 1984 ^c
Annual runoff (ac-ft)	35,000		26,500		87,740	
10 percent exceeds	95		56		242	
50 percent exceeds	40		34		61	
90 percent exceeds	12		15		17	

^aFrom slope-area measurement of peak flow.^bFrom floodmark.^cNo flow at times many years.