

**06102500 TETON RIVER BELOW SOUTH FORK, NEAR CHOTEAU, MT**

Marias Basin  
Teton Subbasin

LOCATION.--Lat 47°52'59", long 112°36'40" referenced to North American Datum of 1927, in NE ¼ NE ¼ NE ¼ sec.34, T.25 N., R.8 W., Teton County, MT, Hydrologic Unit 10030205, on right bank at county road bridge, 1.1 mi downstream from South Fork, 7.6 mi southwest of Bynum Reservoir, 20 mi northwest of Choteau, and at river mile 194.7.

DRAINAGE AREA.--105 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1947 to October 1954 (published as "near Farmington"), June 1998 to current year, seasonal records only.

GAGE.--Water-stage recorder. Elevation of gage is 4,770 ft, referenced to the National Geodetic Vertical Datum of 1929. June 1947 to October 1954, water-stage recorder 300 ft downstream at different elevation.

REMARKS.--Seasonal records are good. Negligible diversion for irrigation occurs upstream from station. U.S. Geological Survey satellite telemeter is located at the station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964 reached a discharge of 54,600 ft<sup>3</sup>/s, from slope-area measurement of peak flow.

## 06102500 TETON RIVER BELOW SOUTH FORK, NEAR CHOTEAU, MT—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**CALENDAR YEAR JANUARY TO DECEMBER 2006**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				48	137	248	135	85	70	64		
2				51	133	262	131	83	69	64		
3				49	129	296	130	82	68	64		
4				50	121	301	129	81	67	63		
5				54	118	283	131	81	65	63		
6				72	125	270	131	80	66	62		
7				74	135	255	125	78	67	63		
8				70	137	255	119	79	66	64		
9				69	131	249	116	79	65	64		
10				66	127	337	115	82	66	62		
11				64	130	331	112	86	65	61		
12				63	134	308	112	84	65	60		
13				64	144	289	108	81	64	60		
14				65	153	288	105	80	68	59		
15				70	183	270	105	79	68	60		
16				72	256	248	101	82	68	61		
17				73	344	235	101	86	67	62		
18				72	437	221	99	80	66	61		
19				71	490	213	101	78	66	61		
20				71	489	203	99	76	66	65		
21				74	483	198	97	75	65	64		
22				82	457	187	95	73	68	63		
23				84	428	179	93	73	67	63		
24				83	399	172	92	73	66	63		
25				81	364	165	91	77	66	63		
26				81	369	161	88	74	65	63		
27				84	353	158	87	72	65	64		
28				85	318	155	85	71	64	63		
29				97	283	148	85	71	63	e60		
30				129	260	139	84	70	62	e60		
31				---	250	---	87	70	---	e60		
<b>Total</b>				2,168	8,017	7,024	3,289	2,421	1,983	1,929		
<b>Mean</b>				72.3	259	234	106	78.1	66.1	62.2		
<b>Max</b>				129	490	337	135	86	70	65		
<b>Min</b>				48	118	139	84	70	62	59		
<b>Ac-ft</b>				4,300	15,900	13,930	6,520	4,800	3,930	3,830		

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 – 1954 AND SEASONS 1998 – 2006\***

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Mean</b>	47.9	46.3	45.1	79.0	296	450	209	105	81.8	77.0	68.6	56.9
<b>Max</b>	59.0	59.0	48.9	142	516	1,178	468	182	134	133	89.8	68.2
<b>(WY)</b>	(1952)	(1952)	(1952)	(1952)	(1951)	(1953)	(1951)	(1951)	(1951)	(1952)	(1952)	(1951)
<b>Min</b>	24.9	25.1	36.5	45.0	195	218	92.9	61.8	57.3	54.6	44.0	40.7
<b>(WY)</b>	(1950)	(1949)	(1950)	(2001)	(2001)	(2004)	(2003)	(1949)	(1949)	(1950)	(1950)	(1950)

\* During periods of operation (water years June 1947 to October 1954; June 1998 to current year, seasonal records only).

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SUMMARY STATISTICS

	For 2006 Season		Water Years 1947 – 1954*		Seasons 1998 – 2006*	
<b>Annual mean</b>			166			
<b>Highest annual mean</b>			225	1953		
<b>Lowest annual mean</b>			92.9	1949		
<b>Highest daily mean</b>	490	May 19	2,380	Jun 5, 1948	1,160	Jun 17, 2002
<b>Lowest daily mean</b>	48	Apr 1	20	Jan 24, 1949	36	Apr 13, 2001
<b>Annual seven-day minimum</b>			22	Jan 24, 1949		
<b>Maximum peak flow</b>	533	May 20	<sup>b</sup> 2,780	Jun 3, 1948	1,280	Jun 17, 2002
<b>Maximum peak stage</b>	5.11	May 20	<sup>c</sup> 7.34	Jan 6, 1950	5.78	Jun 17, 2002
<b>Instantaneous low flow</b>	<sup>a</sup> 46	Apr 1	<sup>d</sup> 12	Mar 28, 1951	<sup>e</sup> 35	Apr 15, 2001
<b>Annual runoff (ac-ft)</b>			119,900			
<b>10 percent exceeds</b>			418			
<b>50 percent exceeds</b>			80			
<b>90 percent exceeds</b>			423			

\* During periods of operation (water years June 1947 to October 1954; June 1998 to current year, seasonal records only).

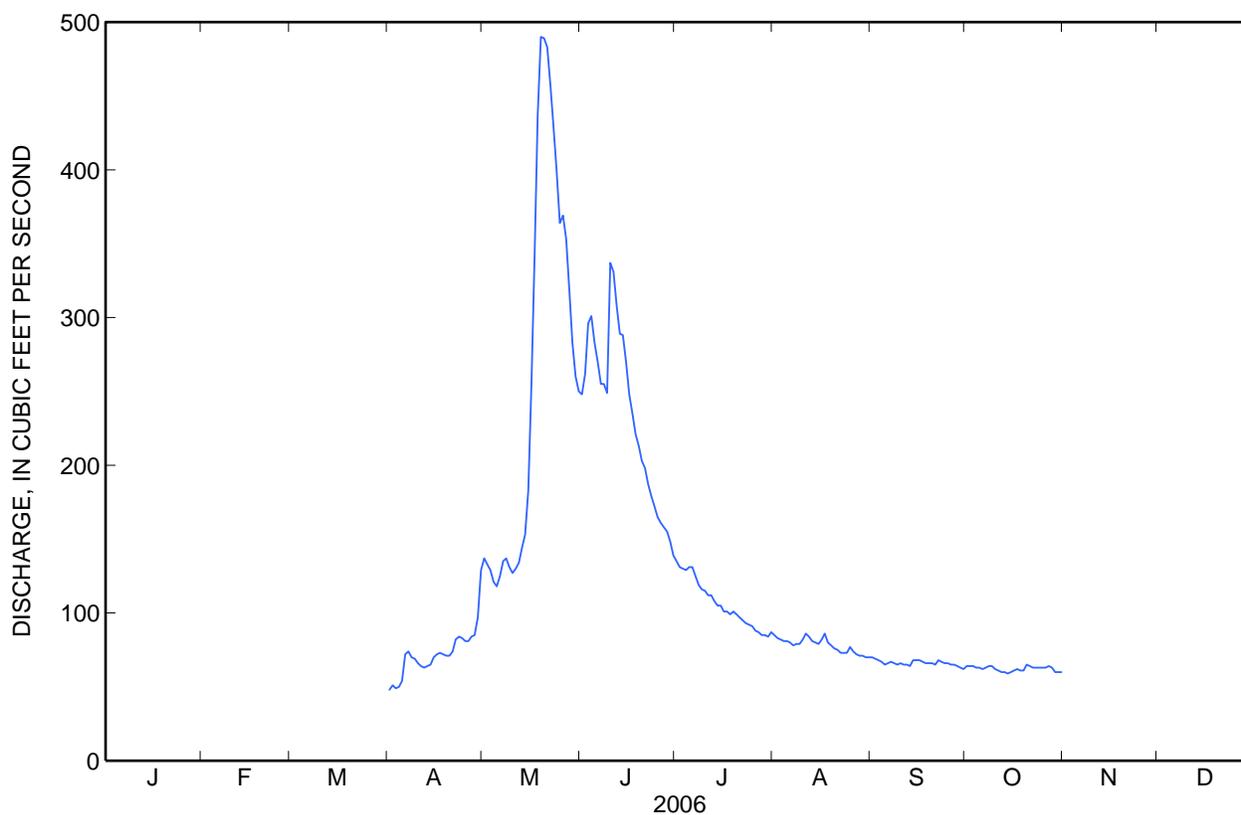
<sup>a</sup> Gage height, 3.57 ft.

<sup>b</sup> From rating curve extended above 1,100 ft<sup>3</sup>/s, gage height, 5.32 ft, previous site and datum.

<sup>c</sup> Backwater from ice, previous site and datum.

<sup>d</sup> Gage height, 2.82 ft, previous site and datum.

<sup>e</sup> Gage height, 3.71 ft.



## 06102500 TETON RIVER BELOW SOUTH FORK, NEAR CHOTEAU, MT—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1998 to current year.

REMARKS.--Several unpublished observations of specific conductance and water temperature were made during the year.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 4

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, water, unfltrd mg/L (62855)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)
<b>Oct</b>												
<b>13...</b>	1110	63	8.4	386	12.0	6.0	<.010	.025	<.002	E.06	<.006	E.002
<b>Jan</b>												
<b>09...</b>	1245	58	8.4	397	5.0	0.0	<.010	.046	<.002	E.06	<.006	<.004
<b>Mar</b>												
<b>07...</b>	0830	40	8.2	393	-0.5	0.5	<.010	.061	<.002	.09	<.006	<.020
<b>Apr</b>												
<b>12...</b>	1220	61	8.5	375	15.0	7.0	<.010	.044	<.002	.08	<.006	E.003
<b>May</b>												
<b>03...</b>	1100	128	8.6	339	7.0	5.5	<.010	.050	<.002	E.06	<.006	E.003
<b>24...</b>	1030	402	8.4	275	22.0	7.0	<.010	.029	<.002	.06	E.003	E.003
<b>Jun</b>												
<b>27...</b>	1100	168	8.4	343	25.0	11.0	E.007	.023	<.002	<.06	<.006	<.004
<b>Jul</b>												
<b>18...</b>	1300	106	8.4	372	28.0	15.0	<.010	.022	<.002	<.06	<.006	<.004
<b>Sep</b>												
<b>06...</b>	1030	69	8.3	425	28.0	10.0	E.007	.045	<.002	.07	E.004	<.004

## 06102500 TETON RIVER BELOW SOUTH FORK, NEAR CHOTEAU, MT—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO**  
**SEPTEMBER 2006**

Part 2 of 4

[Remark codes: &lt;, less than.]

Date	Suspd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pend- edi- ment concen- tration mg/L (80154)	Sus- pend- edi- ment dis- charge, tons/d (80155)
<b>Oct</b>			
13...	88	14	2.4
<b>Jan</b>			
09...	80	15	2.3
<b>Mar</b>			
07...	59	3	.32
<b>Apr</b>			
12...	69	12	2.0
<b>May</b>			
03...	69	14	4.8
24...	75	8	8.7
<b>Jun</b>			
27...	90	5	2.3
<b>Jul</b>			
18...	97	18	5.2
<b>Sep</b>			
06...	95	9	1.7

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 4

[Remark codes: E, estimated.]

Date	Time	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt end lab, mg/L as CaCO <sub>3</sub> (29801)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)
<b>Apr</b>										
12...	1220	200	54.2	14.9	.44	.0	1.07	158	.27	.37
<b>Jun</b>										
27...	1100	180	48.7	13.2	.43	.0	1.06	156	.21	.28
<b>Jul</b>										
18...	1300	200	54.2	14.8	.46	.0	1.22	161	E.20	.32

06102500 TETON RIVER BELOW SOUTH FORK, NEAR CHOTEAU, MT—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 4 of 4

[Remark codes: E, estimated.]

<b>Date</b>	<b>Silica, water, fltrd, mg/L (00955)</b>	<b>Sulfate water, fltrd, mg/L (00945)</b>	<b>Residue water, fltrd, sum of consti- tuents mg/L (70301)</b>	<b>Residue water, fltrd, tons/ acre-ft (70303)</b>	<b>Residue water, dis- solved, tons/d (70302)</b>	<b>Selen- ium, water, unfltrd ug/L (01147)</b>
<b>Apr 12...</b>	4.63	42.5	213	.29	35.1	.51
<b>Jun 27...</b>	4.48	30.7	193	.26	87.4	--
<b>Jul 18...</b>	4.86	39.7	E213	E.29	E60.1	.54