Water-Data Report 2012

12359800 SOUTH FORK FLATHEAD RIVER ABOVE TWIN CREEK, NEAR HUNGRY HORSE, MT

Pend Oreille Basin
South Fork Flathead Subbasin

LOCATION.--Lat 47°58'45", long 113°33'38" referenced to North American Datum of 1983, in NE ¼ NW ¼ NE ¼ sec.36, T.26 N., R.16 W., Flathead County, MT, Hydrologic Unit 17010209, Flathead National Forest, on left bank 0.1 mi downstream from Tin Creek, 0.4 mi upstream from Twin Creek, 36.3 mi southeast of Hungry Horse, and at river mile 42.2.

DRAINAGE AREA.--1,160 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1964 to September 1982, October 1984 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 3,575 ft (referenced to the National Geodetic Vertical Datum of 1929), from river-profile map.

REMARKS.--Records are good except for estimated daily discharges, which are poor. No known regulation or diversions occur upstream from station. Bureau of Reclamation satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 20.87 ft, from high-water profile; discharge, 50,900 ft^3/s, by slope-area measurement of peak flow.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 12359800, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12359800.2012.pdf

12359800 SOUTH FORK FLATHEAD RIVER ABOVE TWIN CREEK, NEAR HUNGRY HORSE, MT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	455	851					2,690	6,800	5,100	6,410	1,050	416
2	451	821					2,580	5,900	6,910	5,980	1,000	404
3	443	760					2,320	5,110	10,300	5,750	1,000	395
4	436	731					2,240	4,530	9,960	5,240	940	387
5	447	716					2,180	4,280	12,800	4,560	893	379
6	489	680					2,060	3,930	18,000	4,150	851	377
7	514	639					1,900	3,620	14,000	3,970	821	377
8	540	616					1,750	3,740	10,700	3,980	792	367
9	539	606					1,670	4,900	9,460	3,890	771	359
10	515	577					1,750	6,550	8,200	3,740	751	356
11	514	552					2,240	5,850	7,170	3,520	731	349
12	569	551					3,600	6,070	6,900	3,290	703	341
13	607	548					4,190	6,980	8,290	3,060	683	337
14	581	e540					3,950	8,520	10,400	2,890	657	330
15	633	e510					3,780	9,810	10,400	2,770	654	324
16	715	e480					3,420	12,300	9,970	2,710	659	320
17	696	e460					3,230	14,600	10,800	2,480	632	315
18	639	e430					3,140	12,600	12,900	2,320	606	311
19	603	e390					3,070	10,300	11,500	2,180	582	303
20	577	e400					3,020	8,600	9,600	2,040	561	300
21	559	e440					4,260	8,490	8,330	1,920	546	298
22	558	493					4,860	12,400	8,440	1,800	540	295
23	715	508					6,820	12,700	9,650	1,690	526	293
24	935	511					10,900	9,900	11,500	1,580	511	293
25	958	506					14,300	7,870	12,200	1,490	498	290
26	883	471					14,700	6,460	11,700	1,390	484	286
27	816	454					18,000	5,620	9,820	1,330	471	285
28	763	484					13,200	5,030	7,420	1,270	457	282
29	732	474					9,360	4,720	6,580	1,210	445	278
30	696	465					7,470	4,780	6,350	1,170	434	274
31	748	---					---	4,670	---	1,110	426	---
Total	19,326	16,664					158,650	227,630	295,350	90,890	20,675	9,921
Mean	623	555					5,288	7,343	9,845	2,932	667	331
Max	958	851					18,000	14,600	18,000	6,410	1,050	416
Min	436	390					1,670	3,620	5,100	1,110	426	274
Ac-ft	38,330	33,050					314,700	451,500	585,800	180,300	41,010	19,680
Cfsm	0.54	0.48					4.56	6.33	8.49	2.53	0.57	0.29
In.	0.62	0.53					5.09	7.30	9.47	2.91	0.66	0.32

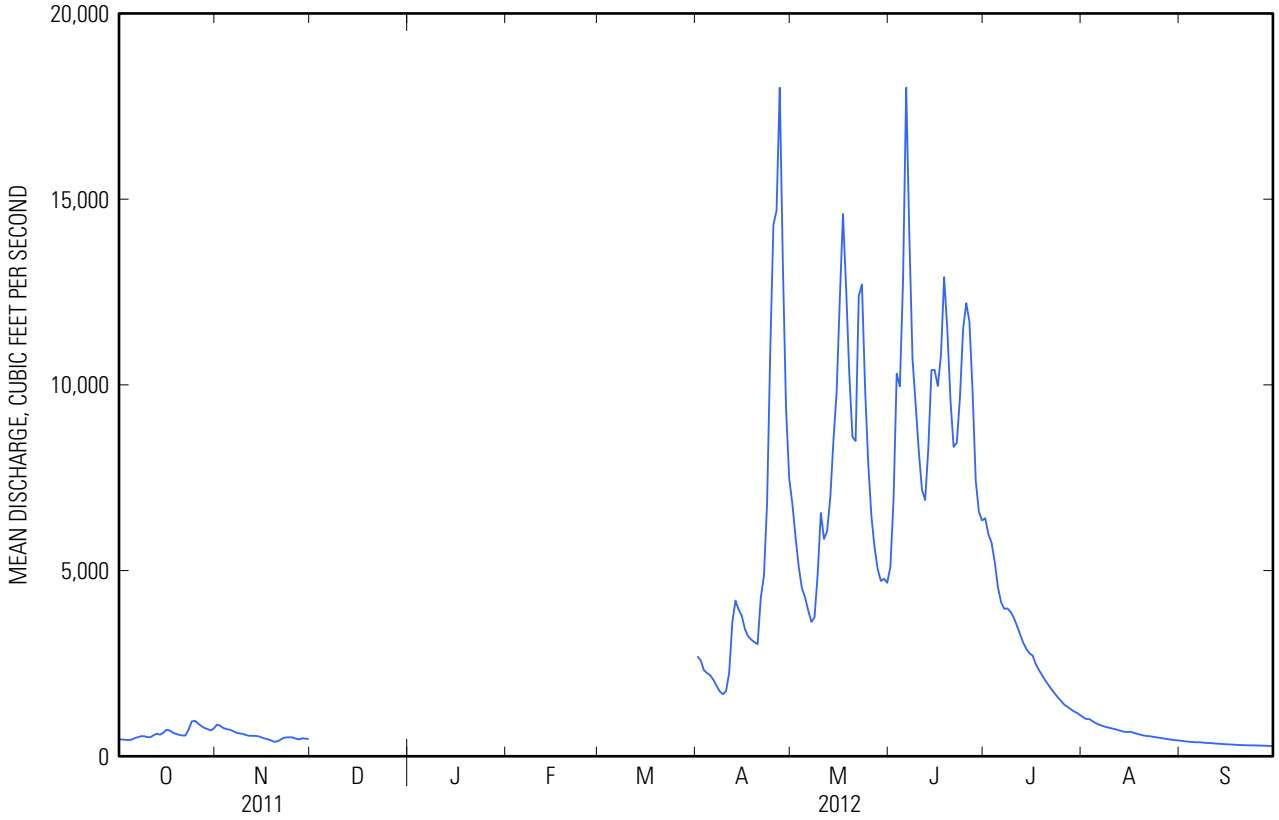
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	566	696	514	479	520	588	2,520	7,663	8,401	2,784	773	558
Max	1,878	3,098	1,323	1,197	2,285	1,342	5,288	12,580	15,940	9,727	1,576	1,853
(WY)	(1986)	(1990)	(1976)	(1974)	(1971)	(1972)	(2012)	(1997)	(2011)	(2011)	(2011)	(1985)
Min	225	204	249	207	201	252	464	4,738	2,522	844	339	245
(WY)	(1988)	(1988)	(1972)	(1980)	(1980)	(1980)	(1975)	(1977)	(1987)	(1977)	(1988)	(1988)

*During periods of operation October 1964 to September 1982, October 1984 to current year (no winter record).

12359800 SOUTH FORK FLATHEAD RIVER ABOVE TWIN CREEK, NEAR HUNGRY HORSE, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1965 – 2012*	
Annual mean					2,310	
Highest annual mean					2,988	1971
Lowest annual mean					1,175	1977
Highest daily mean	25,600	Jun 8	18,000	Apr 27	29,500	Jun 16, 1974
Lowest daily mean	390	Nov 19	274	Sep 30	135	Jan 29, 1980
Annual seven-day minimum					155	Jan 26, 1980
Maximum peak flow			19,600	Jun 6	30,200	Jun 16, 1974
Maximum peak stage			12.82	Jun 6	15.20	Jun 16, 1974
Instantaneous low flow					[a]127	Nov 30, 1979
Annual runoff (ac-ft)					1,673,000	
Annual runoff (cfsm)					1.99	
Annual runoff (inches)					27.06	
10 percent exceeds					7,420	
50 percent exceeds					646	
90 percent exceeds					290	

*During periods of operation October 1964 to September 1982, October 1984 to current year (no winter record).
[a]Gage height, 4.56 ft.