Water-Data Report 2012

12370000 SWAN RIVER NEAR BIGFORK, MT

Pend Oreille Basin
Swan Subbasin

LOCATION.--Lat 48°01'27", long 113°58'44" referenced to North American Datum of 1983, in S ½ SW ¼ sec.11, T.26 N., R.19 W., Lake County, MT, Hydrologic Unit 17010211, on left bank 0.2 mi downstream from Johnson Creek, 0.4 mi downstream from Swan Lake, 5.1 mi southeast of Bigfork, and at river mile 14.0.

DRAINAGE AREA.--671 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1922 to current year. Monthly discharges only for May 1922 to December 1950 are published in Water Supply Paper (WSP) 1316.

REVISED RECORDS.--WSP 1216: Drainage area. WSP 1246: 1923-24, maximum discharge; 1930. WSP 1316: 1923.

GAGE.--Water-stage recorder. Elevation of gage is 3,062.6 ft, referenced to National Geodetic Vertical Datum of 1929 (from river-profile survey). Oct. 10, 1910, to May 22, 1911, nonrecording gage at site 10 mi upstream at different elevation. Apr. 28, 1922, to Oct. 14, 1930, nonrecording gage at site 800 ft upstream at elevation 1.9 ft higher.

REMARKS.--Records are good except for estimated daily discharges, which are fair. Diversions for irrigation include about 360 acres upstream from station. U.S. Geological Survey satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 12370000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12370000.2012.pdf

12370000 SWAN RIVER NEAR BIGFORK, MT—Continued

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

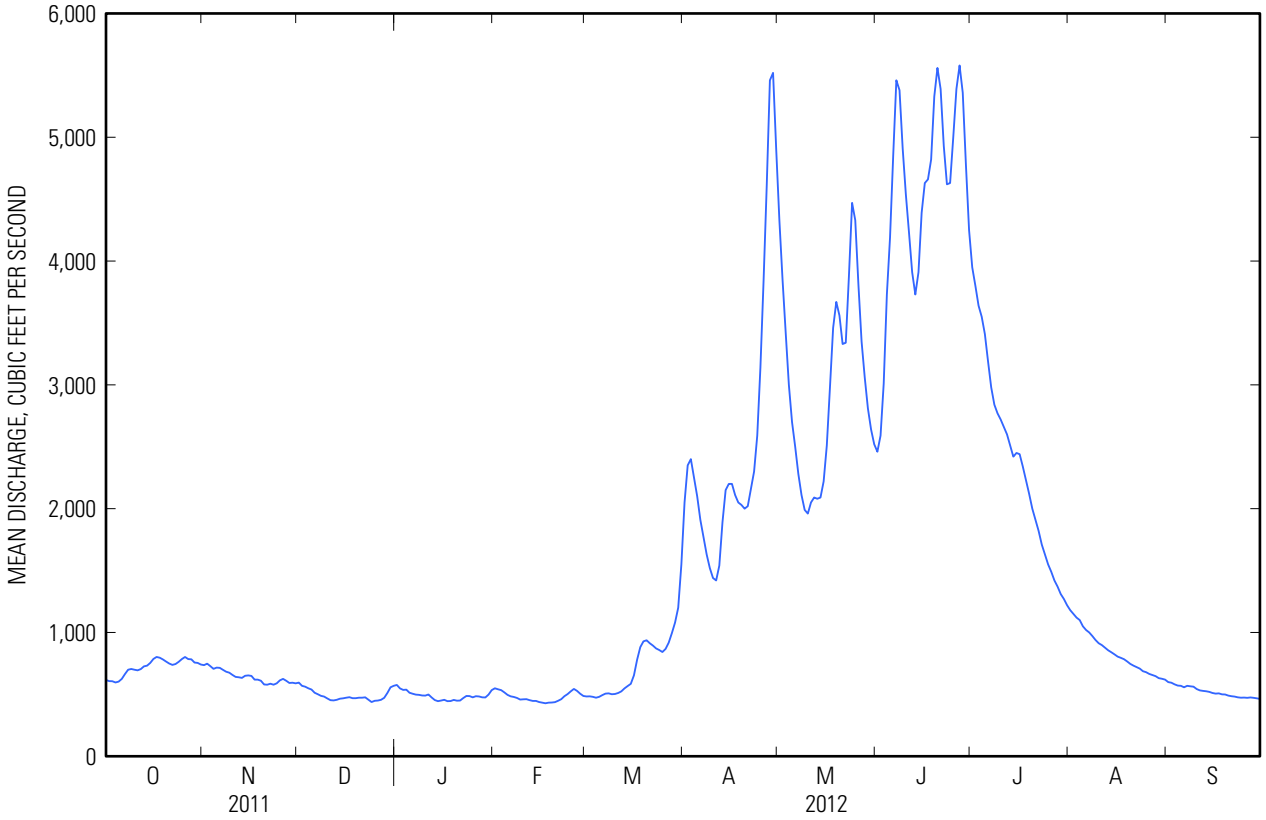
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	616	736	595	576	549	483	e2,050	4,330	2,460	3,950	1,180	599
2	607	748	569	548	541	484	e2,350	3,850	2,590	3,800	1,150	594
3	606	728	562	536	534	480	e2,400	3,420	3,010	3,640	1,120	581
4	596	706	549	538	516	473	e2,250	3,000	3,730	3,550	1,100	571
5	603	716	539	513	496	480	e2,100	2,700	4,190	3,410	1,050	569
6	625	714	513	505	484	494	1,910	2,500	4,850	3,190	1,020	557
7	664	698	501	498	479	506	1,770	2,280	5,460	2,980	1,000	569
8	699	683	488	496	471	508	1,630	2,110	5,380	2,840	971	565
9	705	675	482	491	458	501	1,520	1,990	4,910	2,770	939	562
10	699	657	467	490	460	503	1,440	1,960	4,540	2,720	913	543
11	694	641	453	499	461	511	1,420	2,050	4,230	2,660	898	532
12	704	638	451	475	453	524	1,540	2,090	3,910	2,600	877	528
13	726	633	456	454	447	548	1,890	2,080	3,730	2,510	856	525
14	732	650	465	445	447	567	e2,150	2,090	3,910	2,420	840	520
15	754	653	468	450	438	585	e2,200	2,220	4,390	2,450	823	511
16	786	649	473	456	433	654	e2,200	2,510	4,630	2,440	805	506
17	802	619	477	445	428	780	2,110	2,980	4,660	2,340	795	508
18	796	619	469	446	433	881	2,050	3,460	4,820	2,230	784	500
19	782	610	469	455	434	928	2,030	3,670	5,330	2,120	766	499
20	765	580	473	449	437	937	2,000	3,560	5,560	2,000	746	490
21	749	578	473	450	448	913	2,020	3,330	5,390	1,910	732	485
22	738	586	476	470	461	894	2,160	3,340	4,930	1,820	720	482
23	745	578	457	487	485	871	2,300	3,880	4,620	1,710	708	476
24	763	589	438	486	502	858	2,590	4,470	4,630	1,630	687	473
25	785	613	448	476	524	842	3,140	4,330	5,000	1,550	679	474
26	802	625	450	485	544	867	3,840	3,810	5,390	1,490	665	472
27	785	610	456	483	528	918	4,610	3,350	5,580	1,420	656	475
28	783	592	472	476	505	995	5,460	3,060	5,360	1,370	647	472
29	757	594	511	475	487	1,080	5,520	2,810	4,780	1,310	631	468
30	754	589	557	498	---	1,200	4,900	2,640	4,250	1,270	626	463
31	741	---	569	534	---	1,550	---	2,520	---	1,220	619	---
Total	22,363	19,307	15,226	15,085	13,883	22,815	75,550	92,390	136,220	73,320	26,003	15,569
Mean	721	644	491	487	479	736	2,518	2,980	4,541	2,365	839	519
Max	802	748	595	576	549	1,550	5,520	4,470	5,580	3,950	1,180	599
Min	596	578	438	445	428	473	1,420	1,960	2,460	1,220	619	463
Ac-ft	44,360	38,300	30,200	29,920	27,540	45,250	149,900	183,300	270,200	145,400	51,580	30,880
Cfsm	1.08	0.96	0.73	0.73	0.71	1.10	3.75	4.44	6.77	3.52	1.25	0.77
In.	1.24	1.07	0.84	0.84	0.77	1.26	4.19	5.12	7.55	4.06	1.44	0.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	545	596	560	502	496	631	1,514	2,795	3,314	1,660	698	535
Max	1,682	1,514	1,796	1,298	1,627	1,813	3,228	5,469	5,803	4,704	1,442	1,096
(WY)	(1960)	(1928)	(1934)	(1934)	(1971)	(1986)	(1925)	(1928)	(1974)	(2011)	(2011)	(1965)
Min	308	290	307	271	236	244	636	1,670	1,433	609	322	285
(WY)	(1938)	(1937)	(1937)	(1930)	(1930)	(1930)	(2008)	(1941)	(1941)	(1941)	(1941)	(1988)

12370000 SWAN RIVER NEAR BIGFORK, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1922 - 2012	
Annual total	650,274		527,731			
Annual mean	1,782		1,442		1,155	
Highest annual mean					1,860	1928
Lowest annual mean					607	1941
Highest daily mean	6,630	Jul 2	5,580	Jun 27	8,800	Jun 21, 1974
Lowest daily mean	438	Dec 24	428	Feb 17	193	Jan 26, 1930
Annual seven-day minimum	457	Dec 22	436	Feb 14	195	Jan 26, 1930
Maximum peak flow			5,710	Apr 29	8,890	Jun 20, 1974
Maximum peak stage			5.73	Apr 29	7.34	Jun 20, 1974
Instantaneous low flow					[a]193	Jan 26, 1930
Annual runoff (ac-ft)	1,290,000		1,047,000		836,900	
Annual runoff (cfsm)	2.66		2.15		1.72	
Annual runoff (inches)	36.05		29.26		23.39	
10 percent exceeds	4,850		3,820		2,840	
50 percent exceeds	863		711		632	
90 percent exceeds	569		469		365	

[a]Jan. 26-29, 1930; site and datum then in use.