Water-Data Report 2013

01048000 SANDY RIVER NEAR MERCER, ME

Kennebec Basin
Lower Kennebec Subbasin

LOCATION.--Lat 44°42′29″, long 69°56′15″ referenced to North American Datum of 1983, Somerset County, ME, Hydrologic Unit 01030003, on right bank 0.9 mi upstream from Bog Stream, 2.1 mi north of Mercer, and 8.6 mi upstream from mouth.

DRAINAGE AREA.--516 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--
DISCHARGE: October 1928 to September 1979, June 1987 to current year.

REVISED RECORDS.--WSP 756: 1933. WSP 1231: 1936(M). WDR ME-94-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 197.1 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for period of ice effect, Nov. 26 to Mar. 26, which is poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft^3/s, Mar. 19, 1936, gage height, 16.75 ft, from rating curve extended above 15,000 ft^3/s on basis of records at nearby stations and slope-area measurement at gage-height 19.25 ft; maximum gage height, 18.89 ft, Feb. 12, 1979, from floodmark (backwater from ice); minimum discharge, 30 ft^3/s, Sep. 14-15, 2002, gage height, 2.27 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1, 1987 reached a stage of 19.25 ft, from floodmarks, discharge, 51,100 ft^3/s, from rating curve extended as explained above.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,200 ft^3/s, Oct. 30, gage height, 10.06 ft; minimum discharge, 184 ft^3/s, Aug. 28, gage height, 3.13 ft.

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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	1,780	5,220	e329	e669	e3,970	e500	3,120	1,530	1,300	3,170	506	414
2	1,370	2,940	e329	e613	e2,270	e506	3,920	1,400	1,060	7,120	611	1,410
3	864	2,110	e483	e568	e1,510	e487	2,550	1,250	2,410	7,100	1,400	3,420
4	648	1,620	e630	e542	e1,090	e495	1,900	1,100	1,670	3,430	940	1,610
5	1,170	1,330	e745	e523	e851	e483	1,910	1,020	1,090	2,400	708	1,010
6	1,210	1,130	e902	e501	e680	e495	2,160	934	847	1,780	554	714
7	920	974	e737	e484	e596	e484	1,780	869	725	1,400	457	561
8	760	928	e611	e464	e520	e455	1,740	810	1,800	1,540	406	479
9	660	1,150	e548	e464	e493	e440	2,800	797	2,550	1,480	835	429
10	576	1,030	e518	e453	e488	e475	3,010	928	1,490	1,180	3,000	383
11	774	881	e511	e440	e491	e504	3,370	1,080	1,480	1,510	1,410	351
12	979	810	e504	e422	e488	e595	2,950	2,480	4,170	1,620	929	363
13	706	805	e488	e412	e466	e2,840	2,470	2,460	3,160	1,080	746	3,190
14	606	952	e477	e453	e448	e4,180	2,480	1,490	1,930	852	837	2,770
15	739	862	e457	e657	e430	e2,850	2,720	1,120	1,370	715	694	1,570
16	1,030	754	e429	e646	e421	e2,090	2,960	1,020	1,070	611	552	1,020
17	1,050	692	e414	e561	e416	e1,540	3,390	932	923	532	467	779
18	756	640	e435	e494	e406	e1,230	3,820	782	867	521	410	640
19	627	589	e1,110	e463	e397	e1,040	2,680	713	738	821	367	550
20	2,520	552	e1,360	e500	e478	e897	5,670	946	633	809	325	487
21	2,740	548	e1,390	e482	e568	e866	4,760	2,200	554	721	292	440
22	1,620	536	e4,470	e445	e548	e816	2,790	5,120	499	580	266	434
23	1,160	521	e3,340	e396	e492	e769	2,210	3,810	499	1,580	235	1,020
24	923	523	e2,000	e356	e480	e742	1,950	4,030	718	2,420	215	683
25	784	540	e1,410	e338	e469	e725	2,330	8,760	701	1,270	207	506
26	697	e463	e1,130	e321	e463	e820	2,420	8,560	753	919	196	438
27	665	e406	e947	e309	e445	1,040	1,870	4,870	2,440	765	190	395
28	658	e386	e887	e298	e466	1,320	1,660	2,990	2,710	644	190	356
29	650	e365	e824	e293	---	1,840	1,610	2,210	5,880	570	200	331
30	6,760	e345	e758	e321	---	2,610	1,590	1,970	6,730	826	238	311
31	10,300	---	e703	e1,320	---	2,720	---	1,620	---	662	307	---
Total	46,702	30,602	29,876	15,208	20,840	36,854	80,590	69,801	52,767	50,628	18,690	27,064
Mean	1,507	1,020	964	491	744	1,189	2,686	2,252	1,759	1,633	603	902
Max	10,300	5,220	4,470	1,320	3,970	4,180	5,670	8,760	6,730	7,120	3,000	3,420
Min	576	345	329	293	397	440	1,590	713	499	521	190	311
Cfsm	2.92	1.98	1.87	0.95	1.44	2.30	5.21	4.36	3.41	3.17	1.17	1.75
In.	3.37	2.21	2.15	1.10	1.50	2.66	5.81	5.03	3.80	3.65	1.35	1.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	662	1,060	920	586	508	1,267	3,412	1,884	873	440	295	296
Max	3,207	2,947	4,315	2,285	3,322	6,479	6,492	4,105	3,824	2,300	1,968	2,664
(WY)	(2006)	(1964)	(1974)	(1978)	(1970)	(1936)	(2005)	(1972)	(1998)	(1996)	(2008)	(1954)
Min	61.1	107	85.8	100	87.7	242	1,334	480	202	95.9	60.4	52.7
(WY)	(1948)	(1979)	(1979)	(1948)	(1948)	(1956)	(1995)	(1941)	(1941)	(1993)	(2002)	(1995)

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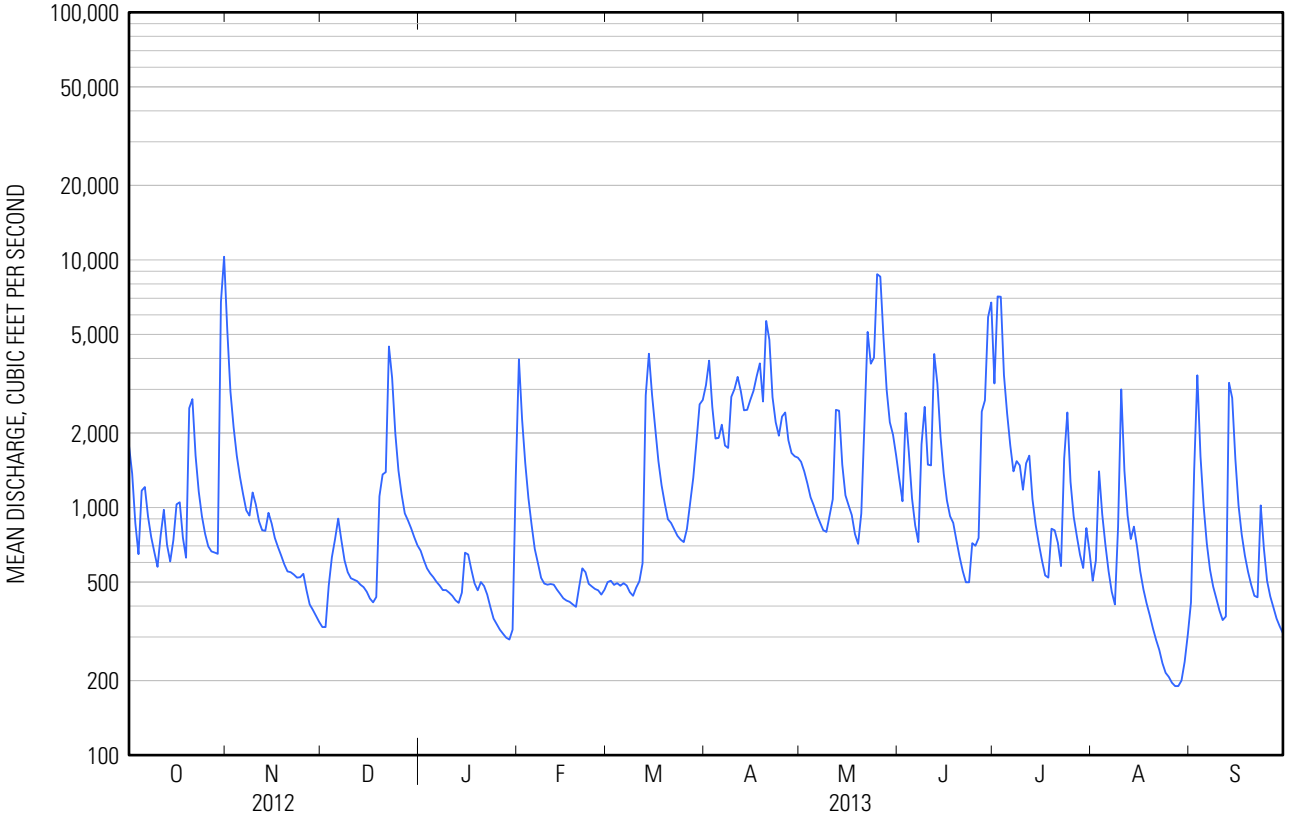
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1929 - 2013	
Annual total	394,690		479,622			
Annual mean	1,078		1,314		1,018	
Highest annual mean					1,612	2009
Lowest annual mean					436	1941
Highest daily mean	16,700	Jun 4	10,300	Oct 31	31,400	Mar 27, 1953
Lowest daily mean	127	Sep 4	190	Aug 27	30	Sep 14, 2002
Annual seven-day minimum	150	Aug 29	205	Aug 23	32	Sep 9, 2002
Maximum peak flow			14,200	Oct 30	38,600	Mar 19, 1936
Maximum peak stage			10.06	Oct 30	18.89	Feb 12, 1979
Instantaneous low flow			184	Aug 28	30	Sep 14, 2002
Annual runoff (cfsm)	2.09		2.55		1.97	
Annual runoff (inches)	28.45		34.58		26.82	
10 percent exceeds	2,110		2,890		2,520	
50 percent exceeds	612		784		459	
90 percent exceeds	229		406		118