



Water-Data Report 2007

**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<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: November 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. Datum of gage is 197.1 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Dec. 5-23, and Dec. 28 to Apr. 15, which are poor. Satellite telemeter at station. Gage is operated in conjunction with a co-located precipitation gage (station 444227069561801).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft<sup>3</sup>/s, Mar. 19, 1936, gage height, 16.75 ft, from rating curve extended above 15,000 ft<sup>3</sup>/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<sup>3</sup>/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<sup>3</sup>/s, from rating curve extended as explained above.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 21	1300	13,100	9.77
Oct 29	1115	*20,600	*11.94
Nov 15	0300	7,570	7.94
Nov 17	2215	13,300	9.83
Apr 17	0400	14,600	10.20
Apr 24	0845	13,100	9.78
May 1	0245	6,800	7.66
May 17	0545	7,260	7.83

Minimum discharge, 81 ft<sup>3</sup>/s, Sept. 28-29, gage height, 2.68 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	186	2,470	1,130	e604	e302	e267	e1,250	5,800	538	138	126	275
2	195	2,150	3,060	e681	e302	e277	e1,460	4,200	528	130	117	220
3	179	2,080	2,140	e658	e318	e282	e1,350	3,430	567	125	112	183
4	169	1,630	1,540	e615	e336	e322	e1,250	2,830	701	121	157	154
5	160	1,360	e1,170	e574	e334	e357	e921	2,510	3,550	122	288	134
6	155	1,190	e925	e939	e323	e336	e1,120	2,240	2,350	126	237	138
7	159	1,080	e879	e2,300	e311	e294	e1,000	1,950	1,330	142	491	150
8	150	1,010	e828	e1,740	e302	e262	e897	1,910	946	139	540	138
9	142	2,280	e774	e1,660	e294	e261	e839	2,180	757	136	851	142
10	134	2,760	e735	e1,420	e288	e264	e790	2,160	695	137	556	176
11	130	1,760	e723	e809	e284	e309	e745	2,010	652	164	329	226
12	1,420	1,420	e693	e737	e281	e394	e811	1,840	541	225	246	259
13	2,510	1,710	e664	e682	e279	e428	e867	1,380	466	584	214	263
14	1,140	3,760	e864	e638	e282	e465	e1,070	1,070	416	306	185	209
15	778	5,750	e886	e591	e295	e717	e1,840	918	378	225	167	167
16	596	3,150	e850	e562	e312	e964	5,760	1,690	341	187	151	166
17	485	8,360	e801	e529	e334	e1,170	13,300	5,960	307	210	152	239
18	654	7,680	e748	e503	e344	e978	13,600	2,900	285	181	206	187
19	1,800	3,650	e699	e482	e338	e823	10,800	2,670	266	174	252	160
20	1,270	2,680	e595	e462	e316	e702	9,500	2,440	243	275	193	137
21	9,410	2,120	e528	e450	e295	e595	9,010	2,980	231	518	155	123
22	4,060	1,750	e537	e428	e280	e541	9,160	2,090	227	411	135	113
23	2,380	1,520	e909	e406	e278	e805	8,560	1,500	212	284	121	104
24	2,840	1,360	2,650	e390	e276	e1,310	12,000	1,240	201	220	118	97
25	2,220	1,220	1,730	e373	e272	e1,230	9,100	1,080	191	202	133	92
26	1,660	1,030	1,330	e358	e268	e1,180	5,120	946	177	169	304	88
27	1,320	967	1,450	e349	e266	e1,180	4,430	807	168	148	312	84
28	2,240	933	e1,090	e337	e263	e1,600	4,020	727	159	139	218	82
29	16,600	925	e835	e329	---	e1,800	5,150	740	151	143	168	100
30	6,080	975	e687	e318	---	e1,520	6,350	622	147	152	146	137
31	3,330	---	e641	e312	---	e1,340	---	563	---	135	277	---
<b>Total</b>	64,552	70,730	33,091	21,236	8,373	22,973	142,070	65,383	17,721	6,368	7,657	4,743
<b>Mean</b>	2,082	2,358	1,067	685	299	741	4,736	2,109	591	205	247	158
<b>Max</b>	16,600	8,360	3,060	2,300	344	1,800	13,600	5,960	3,550	584	851	275
<b>Min</b>	130	925	528	312	263	261	745	563	147	121	112	82
<b>Cfsm</b>	4.04	4.57	2.07	1.33	0.58	1.44	9.18	4.09	1.14	0.40	0.48	0.31
<b>In.</b>	4.65	5.10	2.39	1.53	0.60	1.66	10.24	4.71	1.28	0.46	0.55	0.34

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	624	1,004	882	570	500	1,230	3,412	1,912	813	393	247	273
<b>Max</b>	3,207	2,947	4,315	2,285	3,322	6,479	6,492	4,105	3,824	2,300	1,439	2,664
<b>(WY)</b>	(2006)	(1964)	(1974)	(1978)	(1970)	(1936)	(2005)	(1972)	(1998)	(1996)	(1976)	(1954)
<b>Min</b>	61.1	107	85.8	100	87.7	242	1,334	480	202	95.9	60.4	52.7
<b>(WY)</b>	(1948)	(1979)	(1979)	(1948)	(1948)	(1956)	(1995)	(1941)	(1941)	(1993)	(2002)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1929 - 2007	
<b>Annual total</b>	504,079		464,897			
<b>Annual mean</b>	1,381		1,274		990	
<b>Highest annual mean</b>					1,583	1974
<b>Lowest annual mean</b>					436	1941
<b>Highest daily mean</b>	16,600	Oct 29	16,600	Oct 29	31,400	Mar 27, 1953
<b>Lowest daily mean</b>	130	Oct 11	82	Sep 28	30	Sep 14, 2002
<b>Annual seven-day minimum</b>	147	Oct 5	92	Sep 23	32	Sep 9, 2002
<b>Maximum peak flow</b>			20,600	Oct 29	38,600	Mar 19, 1936
<b>Maximum peak stage</b>			11.94	Oct 29	18.89	Feb 12, 1979
<b>Instantaneous low flow</b>			81	Sep 28	30	Sep 14, 2002
<b>Annual runoff (cfsm)</b>	2.68		2.47		1.92	
<b>Annual runoff (inches)</b>	36.34		33.52		26.06	
<b>10 percent exceeds</b>	2,990		2,790		2,480	
<b>50 percent exceeds</b>	850		556		430	
<b>90 percent exceeds</b>	195		142		114	

