

Water-Data Report 2007

**01066000 SACO RIVER AT CORNISH, ME**

Saco Basin  
Saco Subbasin

LOCATION.--Lat 43°48'29", long 70°46'54" referenced to North American Datum of 1983, Cumberland County, ME, Hydrologic Unit 01060002, on left bank 300 ft upstream from State Route 117 highway bridge at Cornish and 0.4 mi downstream from Ossipee River.

DRAINAGE AREA.--1,293 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M). WDR ME-81-1: Drainage area. WDR ME-91-1: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage at bridge 300 ft downstream at datum approximately 1.2 ft higher.

REMARKS.--Records good, except for period of ice effect, Jan. 18 to Mar. 31, which is fair. Flow partly regulated by powerplants above station; by Ossipee, Silver, Conway, and Kezar Lakes; by Moose, Hancock, Pine River, Bickford and Colcord Ponds; combined capacity, 3.4 billion ft<sup>3</sup>. Satellite telemeter at station. Gage is operated in conjunction with a co-located precipitation gage (station 434829070465101).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft<sup>3</sup>/s, Mar. 21-22, 1936, gage height, 21.90 ft (from floodmarks); minimum daily discharge, 244 ft<sup>3</sup>/s, Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,000 ft<sup>3</sup>/s, Apr. 16, gage height, 11.15 ft; minimum daily discharge, 356 ft<sup>3</sup>/s, Sept. 8.

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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	697	9,590	4,270	3,020	e2,280	e1,260	4,530	10,500	2,810	946	611	414
2	710	9,270	5,140	3,070	e2,200	e1,240	4,640	10,100	2,680	874	601	434
3	710	8,650	5,100	3,010	e2,030	e1,320	4,740	9,650	2,690	805	592	408
4	710	7,850	5,250	2,930	e1,970	e1,310	4,740	9,050	2,910	778	526	414
5	693	7,090	5,260	2,810	e1,930	e1,310	4,800	8,370	4,320	764	479	405
6	725	6,280	5,100	3,080	e1,820	e1,300	4,720	7,660	4,580	757	473	398
7	718	5,600	4,830	3,430	e1,790	e1,330	4,520	6,920	4,500	743	473	393
8	723	5,170	4,630	4,190	e1,630	e1,340	4,290	6,120	4,600	754	626	356
9	679	6,650	4,320	4,960	e1,650	e1,270	4,080	5,630	4,590	770	733	375
10	677	6,250	4,040	4,950	e1,530	e1,220	3,890	5,310	4,500	1,060	901	423
11	673	6,130	3,850	4,860	e1,550	e1,220	3,770	5,090	4,120	1,050	841	560
12	1,490	6,210	3,660	4,680	e1,530	e1,200	3,650	5,130	3,490	1,150	745	741
13	2,470	6,470	3,490	4,440	e1,510	e1,220	3,660	5,060	3,180	1,300	783	585
14	2,380	7,200	3,430	4,270	e1,480	e1,370	3,720	4,890	2,670	1,540	633	576
15	2,180	7,470	3,320	4,100	e1,560	e1,970	3,900	4,460	2,480	1,450	702	510
16	1,970	7,660	3,200	3,960	e1,510	e2,520	10,700	4,170	2,290	1,300	668	495
17	1,990	8,590	3,130	3,480	e1,470	e2,720	15,200	4,370	2,160	1,080	575	567
18	2,250	9,110	2,970	e3,040	e1,560	e2,890	15,400	4,590	1,970	1,010	523	537
19	2,370	10,300	2,860	e3,050	e1,620	e2,990	16,100	4,810	1,870	877	510	545
20	2,590	11,000	2,770	e3,030	e1,580	e2,930	16,600	4,940	1,800	1,060	489	535
21	3,370	10,300	2,700	e2,700	e1,540	e2,820	16,600	5,130	1,730	1,850	477	532
22	4,100	9,390	2,570	e2,630	e1,530	e2,660	16,000	5,390	1,570	1,890	464	475
23	4,460	8,450	2,840	e2,490	e1,480	e2,770	15,400	5,450	1,510	1,110	459	467
24	4,720	7,510	3,200	e2,660	e1,450	e3,000	14,900	5,200	1,430	954	460	454
25	4,750	6,640	3,240	e2,690	e1,400	e3,240	15,000	4,840	1,210	902	459	441
26	4,670	6,000	3,470	e2,430	e1,360	e3,620	15,200	3,910	1,020	856	465	455
27	4,690	5,450	3,650	e2,030	e1,330	e3,840	14,200	3,640	1,030	815	451	438
28	5,110	5,000	3,590	e2,100	e1,270	e4,060	12,700	3,610	998	744	446	516
29	6,570	4,670	3,470	e2,170	---	e4,230	11,700	3,420	1,040	733	461	514
30	7,500	4,330	3,300	e2,390	---	e4,330	10,900	3,190	1,120	659	440	481
31	9,160	---	3,000	e2,160	---	e4,490	---	2,930	---	637	409	---
<b>Total</b>	86,505	220,280	115,650	100,810	45,560	72,990	280,250	173,530	76,868	31,218	17,475	14,444
<b>Mean</b>	2,790	7,343	3,731	3,252	1,627	2,355	9,342	5,598	2,562	1,007	564	481
<b>Max</b>	9,160	11,000	5,260	4,960	2,280	4,490	16,600	10,500	4,600	1,890	901	741
<b>Min</b>	673	4,330	2,570	2,030	1,270	1,200	3,650	2,930	998	637	409	356

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,611	2,521	2,632	2,039	1,927	3,147	7,311	5,481	2,611	1,429	1,058	1,049
<b>Max</b>	7,867	7,343	8,630	5,791	6,258	16,220	12,740	11,720	9,008	6,802	3,425	5,073
<b>(WY)</b>	(2006)	(2007)	(1974)	(1978)	(1986)	(1936)	(1969)	(1937)	(1998)	(1973)	(1990)	(1954)
<b>Min</b>	406	608	560	528	615	805	2,751	1,707	860	486	394	342
<b>(WY)</b>	(1948)	(1979)	(1948)	(1948)	(1918)	(1940)	(1995)	(1941)	(1964)	(1991)	(2002)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1916 - 2007	
<b>Annual total</b>	1,402,624		1,235,580			
<b>Annual mean</b>	3,843		3,385		2,730	
<b>Highest annual mean</b>					4,243	2006
<b>Lowest annual mean</b>					1,372	1965
<b>Highest daily mean</b>	14,800	May 18	16,600	Apr 20	45,600	Mar 21, 1936
<b>Lowest daily mean</b>	644	Sep 27	356	Sep 8	244	Oct 7, 1964
<b>Annual seven-day minimum</b>	679	Sep 26	393	Sep 3	261	Sep 9, 2002
<b>Maximum peak flow</b>			17,000	Apr 16	46,600	Mar 21, 1936
<b>Maximum peak stage</b>			11.15	Apr 16	21.90	Mar 21, 1936
<b>10 percent exceeds</b>	7,250		7,480		6,200	
<b>50 percent exceeds</b>	3,330		2,660		1,700	
<b>90 percent exceeds</b>	851		515		670	

