



Water-Data Report 2010

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 mi².

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 and crest-stage gage. 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 periods of ice effect, Dec. 17-27, Dec. 30-31, and Jan. 7 to Feb. 11, which are fair. Flow partly regulated by power plants above station; by Ossipee, Silver, Conway, and Kezar Lakes; by Moose, Hancock, Pine River, Bickford and Colcord Ponds; combined capacity, 3.4 billion ft³. 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 ft³/s, Mar. 21-22, 1936, gage height, 21.90 ft (from floodmarks); minimum daily discharge, 244 ft³/s, Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,600 ft³/s, Apr. 2, gage height, 11.45 ft; minimum daily discharge, 420 ft³/s, Aug. 24.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	991	3,740	5,100	4,060	e5,020	5,570	16,300	3,770	1,230	1,380	729	679
2	928	3,530	4,940	3,990	e4,640	5,520	17,400	3,770	1,180	1,300	698	632
3	855	3,350	5,730	3,820	e4,180	5,220	16,700	3,740	1,140	1,210	664	575
4	1,340	3,160	6,330	3,630	e3,810	4,830	15,400	3,780	1,130	1,130	674	578
5	1,790	3,080	6,590	3,370	e3,660	4,560	14,500	3,830	1,300	1,050	755	555
6	1,790	2,850	7,040	3,300	e3,500	4,340	13,800	3,870	1,510	971	931	562
7	2,100	2,650	7,010	e3,220	e3,240	4,250	12,700	3,870	1,860	917	862	592
8	3,160	2,460	6,660	e3,190	e2,990	4,180	11,600	3,790	2,000	855	789	567
9	3,070	2,330	6,270	e3,130	e2,720	4,210	11,000	3,830	2,080	796	723	565
10	3,080	2,250	5,900	e3,120	e2,560	4,080	10,800	3,740	1,910	781	707	480
11	2,740	2,170	5,450	e3,040	e2,490	3,950	10,200	3,710	1,870	812	668	448
12	2,600	2,100	4,970	e2,830	2,420	3,840	9,490	3,590	1,540	813	630	463
13	2,450	1,930	4,550	e2,900	2,300	3,770	8,740	3,140	1,600	819	618	506
14	2,320	2,170	4,370	e2,700	2,200	4,240	7,880	2,830	1,600	822	585	477
15	2,010	3,460	4,070	e2,410	2,110	7,370	7,030	2,660	1,410	819	562	492
16	1,960	3,760	3,820	e2,310	2,020	6,780	6,320	2,520	1,360	877	543	556
17	1,880	3,870	e3,280	e2,160	1,980	6,720	6,140	2,380	1,230	875	516	594
18	1,800	3,900	e3,140	e2,150	1,900	6,820	6,000	2,320	1,200	822	473	550
19	1,780	3,920	e3,070	e2,120	1,870	6,820	5,760	2,290	1,070	809	470	575
20	1,680	4,110	e2,990	e2,060	1,820	6,830	5,360	2,580	1,050	789	469	559
21	1,660	4,430	e2,870	e2,050	1,790	6,870	5,180	2,590	1,010	814	471	526
22	1,520	4,500	e2,530	e2,050	1,770	6,960	4,970	2,400	897	1,120	462	530
23	1,670	4,550	e2,510	e1,940	1,710	8,580	5,050	2,310	963	1,420	423	517
24	1,810	4,500	e2,510	e1,920	1,770	10,900	4,870	2,130	976	1,510	420	493
25	3,200	4,430	e2,580	e1,960	2,710	11,400	4,660	1,970	969	1,180	499	526
26	3,740	4,320	e2,610	e2,920	7,640	12,200	4,450	1,890	978	1,060	1,470	517
27	4,170	4,470	3,340	e3,490	6,000	11,900	4,140	1,810	1,020	974	1,070	496
28	4,220	5,660	4,190	e3,870	5,560	11,200	3,950	1,650	1,170	898	938	538
29	4,150	5,240	4,140	e4,400	---	11,100	4,000	1,550	1,270	882	775	570
30	4,080	5,180	e4,110	e5,240	---	12,300	3,780	1,400	1,430	800	742	720
31	3,900	---	e4,120	e5,260	---	15,100	---	1,290	---	775	694	---
Total	74,444	108,070	136,790	94,610	86,380	222,410	258,170	87,000	39,953	30,080	21,030	16,438
Mean	2,401	3,602	4,413	3,052	3,085	7,175	8,606	2,806	1,332	970	678	548
Max	4,220	5,660	7,040	5,260	7,640	15,100	17,400	3,870	2,080	1,510	1,470	720
Min	855	1,930	2,510	1,920	1,710	3,770	3,780	1,290	897	775	420	448

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,626	2,552	2,676	2,061	1,941	3,201	7,366	5,441	2,598	1,478	1,116	1,059
Max	7,867	7,343	8,630	5,791	6,258	16,220	12,740	11,720	9,008	6,802	4,628	5,073
(WY)	(2006)	(2007)	(1974)	(1978)	(1986)	(1936)	(1969)	(1937)	(1998)	(1973)	(2008)	(1954)
Min	406	608	560	528	615	805	2,751	1,707	860	486	394	342
(WY)	(1948)	(1979)	(1948)	(1948)	(1918)	(1940)	(1995)	(1941)	(1964)	(1991)	(2002)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1916 - 2010	
Annual total	1,347,584		1,175,375			
Annual mean	3,692		3,220		2,756	
Highest annual mean					4,243	2006
Lowest annual mean					1,372	1965
Highest daily mean	14,000	Apr 9	17,400	Apr 2	45,600	Mar 21, 1936
Lowest daily mean	543	Sep 25	420	Aug 24	244	Oct 7, 1964
Annual seven-day minimum	774	Sep 23	455	Aug 18	261	Sep 9, 2002
Maximum peak flow			17,600	Apr 2	46,600	Mar 21, 1936
Maximum peak stage			11.45	Apr 2	21.90	Mar 21, 1936
10 percent exceeds	6,580		6,620		6,220	
50 percent exceeds	3,260		2,420		1,730	
90 percent exceeds	1,600		582		675	

