

Water-Data Report 2009

01018500 ST. CROIX RIVER AT VANCEBORO, ME

Maine Coastal Basin
St. Croix Subbasin

LOCATION.--Lat 45°34'06", long 67°25'42" referenced to North American Datum of 1983, Washington County, ME, Hydrologic Unit 01050001, on right bank 200 ft downstream from international highway bridge in Vanceboro and 500 ft downstream from outlet of Spednic Lake.

DRAINAGE AREA.--413 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 1928 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 367.75 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 29, 1999 water stage recorder at site 200 ft upstream at international highway bridge at same datum.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Chiputneticook Lakes, combined usable capacity about 13.20 billion ft³. Final regulation is at Spednik Lake Dam, 500 ft upstream. Gage is operated in conjunction with a co-located precipitation gage (station 453405067254501). Telephone and satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,730 ft³/s, June 3, 1984, gage height, 11.28 ft; minimum daily discharge, 1.9 ft³/s, Oct. 12, 22 and Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,910 ft³/s, Apr. 23, gage height, 9.92 ft; minimum daily discharge, 225 ft³/s, Apr. 7.

01018500 ST. CROIX RIVER AT VANCEBORO, ME—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	789	767	610	1,700	1,530	946	257	1,500	738	1,970	917	777
2	559	767	614	1,950	1,350	949	227	946	736	1,970	914	774
3	567	764	617	2,170	1,180	949	230	946	662	1,970	914	771
4	572	763	619	2,150	1,020	947	236	832	606	1,970	912	768
5	575	761	622	1,830	1,010	1,360	241	742	607	1,960	911	767
6	578	761	623	1,410	1,010	1,660	235	743	605	1,950	1,020	764
7	581	766	624	1,170	1,000	1,640	225	747	606	1,590	1,110	760
8	581	768	1,160	1,170	995	1,630	233	849	525	1,370	1,100	757
9	582	772	1,510	1,170	991	1,390	238	1,170	392	1,180	1,100	755
10	585	660	1,510	1,170	987	1,220	243	1,290	334	1,030	1,090	752
11	585	568	1,510	1,160	981	1,210	247	1,280	327	1,020	1,090	750
12	586	569	1,530	1,490	978	1,210	251	1,280	405	1,020	1,220	747
13	586	570	1,560	1,710	978	1,210	255	1,280	472	913	1,320	745
14	586	570	1,570	1,570	973	1,210	256	1,280	472	821	1,320	744
15	588	572	2,290	1,290	988	1,200	258	1,280	419	819	1,310	740
16	590	583	2,770	1,110	984	1,190	260	1,280	386	816	1,310	738
17	594	535	2,750	1,110	975	1,190	262	1,280	483	1,040	1,310	735
18	593	446	2,740	1,110	970	1,180	264	1,130	588	1,190	1,300	734
19	592	452	2,720	1,110	967	1,170	266	1,020	586	1,190	1,160	733
20	592	454	2,700	1,110	963	1,170	267	1,010	591	1,180	957	727
21	590	513	2,680	1,100	968	1,170	821	1,010	954	1,180	876	723
22	588	501	2,670	1,360	964	1,170	2,130	840	1,200	1,170	874	721
23	802	501	2,650	1,600	960	1,170	3,820	742	1,310	1,170	872	718
24	966	630	2,630	1,590	962	1,160	4,840	741	1,380	1,170	870	718
25	960	761	2,610	1,590	959	1,020	4,280	741	1,370	1,170	866	716
26	955	767	2,590	1,570	959	714	3,390	738	1,210	1,160	949	712
27	960	774	2,570	1,570	949	429	2,610	736	1,070	1,020	998	709
28	962	694	2,560	1,550	951	373	2,270	735	1,300	917	991	709
29	966	604	2,260	1,550	---	376	2,260	734	1,760	913	987	709
30	855	607	2,060	1,550	---	327	2,250	736	1,760	914	989	709
31	766	---	1,880	1,550	---	288	---	736	---	915	881	---
Total	21,231	19,220	57,809	45,240	28,502	32,828	33,622	30,374	23,854	38,668	32,438	22,182
Mean	685	641	1,865	1,459	1,018	1,059	1,121	980	795	1,247	1,046	739
Max	966	774	2,770	2,170	1,530	1,660	4,840	1,500	1,760	1,970	1,320	777
Min	559	446	610	1,100	949	288	225	734	327	816	866	709

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	564	471	572	763	853	713	686	981	863	807	772	686
Max	1,410	1,432	2,572	1,811	3,034	2,145	2,566	2,801	1,746	1,680	1,646	1,530
(WY)	(1974)	(2006)	(1960)	(2004)	(1978)	(2008)	(1976)	(1945)	(1952)	(1984)	(1984)	(1989)
Min	121	112	152	234	222	192	75.4	193	219	228	301	216
(WY)	(1945)	(1937)	(1936)	(1999)	(1948)	(1948)	(1938)	(1943)	(1985)	(1966)	(1965)	(1966)

01018500 ST. CROIX RIVER AT VANCEBORO, ME—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1929 - 2009	
Annual total	353,112		385,968			
Annual mean	965		1,057		727	
Highest annual mean					1,203	1960
Lowest annual mean					335	1985
Highest daily mean	2,870	Mar 18	4,840	Apr 24	6,210	Jun 3, 1984
Lowest daily mean	225	Apr 26	225	Apr 7	1.9	Oct 12, 1936
Annual seven-day minimum	234	Apr 25	232	Apr 2	2.0	Oct 11, 1936
Maximum peak flow			4,910	Apr 23	6,730	Jun 3, 1984
Maximum peak stage			9.92	Apr 23	11.28	Jun 3, 1984
10 percent exceeds	2,280		1,790		1,380	
50 percent exceeds	760		954		604	
90 percent exceeds	257		479		227	

