

Water-Data Report 2007

**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 Spednik Lake.

DRAINAGE AREA.--413 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: October 1928 to current year.

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

GAGE.--Water-stage recorder. 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 ft<sup>3</sup>. 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 ft<sup>3</sup>/s, June 3, 1984, gage height, 11.28 ft; minimum daily discharge, 1.9 ft<sup>3</sup>/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, 3,030 ft<sup>3</sup>/s, Apr. 25, gage height, 8.37 ft; minimum daily discharge, 210 ft<sup>3</sup>/s, Oct. 28.

## 01018500 ST. CROIX RIVER AT VANCEBORO, ME—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	494	219	644	760	788	882	252	2,960	598	684	637	808
2	496	220	649	760	1,000	878	253	2,480	599	683	765	799
3	495	221	649	758	997	877	255	1,880	599	679	809	793
4	494	222	649	756	994	873	256	1,470	599	676	806	789
5	496	222	649	755	991	870	258	982	602	573	804	781
6	493	223	761	756	984	866	260	780	606	497	877	775
7	492	223	862	760	980	862	261	780	606	496	958	769
8	492	224	864	675	976	857	263	779	605	495	952	767
9	490	227	860	548	969	851	761	779	604	445	953	764
10	489	230	858	440	964	845	1,330	778	602	410	940	760
11	487	231	855	393	959	843	1,680	779	601	410	934	757
12	484	234	854	393	954	841	1,570	779	600	505	925	760
13	487	237	850	394	951	837	1,240	779	599	596	920	753
14	484	245	1,370	395	947	835	1,070	776	597	594	914	745
15	483	255	1,700	350	947	662	1,070	775	595	592	904	745
16	480	250	1,690	312	943	439	1,080	774	593	591	897	742
17	479	225	1,670	313	937	361	1,090	777	593	591	892	737
18	479	230	1,440	464	932	283	1,110	778	593	589	889	733
19	478	233	1,280	619	928	255	1,120	1,050	590	587	881	729
20	477	236	1,270	620	924	259	1,130	1,200	588	588	776	725
21	487	237	1,260	620	918	244	1,140	1,030	587	586	643	722
22	484	238	1,090	619	913	231	1,150	876	588	586	639	716
23	421	239	954	617	909	234	1,160	779	586	582	635	718
24	334	241	956	616	904	237	1,790	708	584	580	758	608
25	255	242	955	616	899	239	2,680	708	581	579	841	536
26	212	242	954	615	896	241	3,000	709	579	578	840	535
27	211	243	835	613	890	243	2,990	708	577	576	835	533
28	210	479	767	613	886	245	2,980	710	578	575	827	631
29	216	643	766	611	---	247	2,980	711	634	573	820	700
30	219	643	764	611	---	249	2,960	652	687	573	815	692
31	217	---	762	609	---	250	---	597	---	572	811	---
<b>Total</b>	13,015	8,054	30,487	17,981	26,280	16,936	39,139	30,323	17,950	17,641	25,897	21,622
<b>Mean</b>	420	268	983	580	939	546	1,305	978	598	569	835	721
<b>Max</b>	496	643	1,700	760	1,000	882	3,000	2,960	687	684	958	808
<b>Min</b>	210	219	644	312	788	231	252	597	577	410	635	533

**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>	562	472	560	761	856	690	678	978	866	804	767	680
<b>Max</b>	1,410	1,432	2,572	1,811	3,034	1,879	2,566	2,801	1,746	1,680	1,646	1,530
<b>(WY)</b>	(1974)	(2006)	(1960)	(2004)	(1978)	(1996)	(1976)	(1945)	(1952)	(1984)	(1984)	(1989)
<b>Min</b>	121	112	152	234	222	192	75.4	193	219	228	301	216
<b>(WY)</b>	(1945)	(1937)	(1936)	(1999)	(1948)	(1948)	(1938)	(1943)	(1985)	(1966)	(1965)	(1966)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1929 - 2007	
<b>Annual total</b>	343,563		265,325			
<b>Annual mean</b>	941		727		722	
<b>Highest annual mean</b>					1,203	1960
<b>Lowest annual mean</b>					335	1985
<b>Highest daily mean</b>	2,940	Feb 14	3,000	Apr 26	6,210	Jun 3, 1984
<b>Lowest daily mean</b>	210	Oct 28	210	Oct 28	1.9	Oct 12, 1936
<b>Annual seven-day minimum</b>	215	Oct 26	215	Oct 26	2.0	Oct 11, 1936
<b>Maximum peak flow</b>			3,030	Apr 25	6,730	Jun 3, 1984
<b>Maximum peak stage</b>			8.37	Apr 25	11.28	Jun 3, 1984
<b>10 percent exceeds</b>	1,700		1,040		1,370	
<b>50 percent exceeds</b>	864		676		597	
<b>90 percent exceeds</b>	237		244		227	

