



Water-Data Report 2007

01010500 ST. JOHN RIVER AT DICKEY, ME

St. John Basin
Upper St. John Subbasin

LOCATION.--Lat 47°06'47", long 69°05'17" referenced to North American Datum of 1983, Aroostook County, ME, Hydrologic Unit 01010001, on right bank at downstream side of State Route 161 highway bridge at Dickey, 0.4 mi downstream from Little Black River, and 2.8 mi upstream from Allagash River.

DRAINAGE AREA.--2,680 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: July to November 1910 and April to November 1911 (published as "near Dickey"), September 1946 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area. WDR ME-95-1: 1993, 1994. WDR ME97-1: 1991(M) 1992 (M) 1994(P).

GAGE.--Water-stage recorder. Datum of gage is 590.38 ft above National Geodetic Vertical Datum of 1929. Prior to December 1911, nonrecording gage at site 2,300 ft downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft downstream at same datum. April 1962 to August 1993, water-stage recorder at current site and datum. August 1993 to July 1998, water-stage recorder at site 500 ft downstream at same datum.

REMARKS.--Records good, except for periods of ice effect, Nov. 26-30, and Dec. 4 to Apr. 24, which are poor. Gage is operated in conjunction with a co-located precipitation gage (station 470646069052501).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91,700 ft³/s, Apr. 29, 1979, gage height, 19.13 ft; maximum gage height, 37.89 ft, from flood marks, Apr. 9, 1991 (backwater from ice); minimum discharge, 106 ft³/s, Sept. 10, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 27,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 22	0845	46,300	13.78
Apr 23	1700	Ice Jam	*24.30
Apr 26	2115	*59,400	15.52

Minimum discharge, 552 ft³/s, Sept. 11 and 27, gage height, 3.73 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	839	15,000	4,730	e2,240	e1,250	e740	e3,730	38,000	3,970	2,960	2,880	3,670
2	806	11,900	6,930	e2,140	e1,200	e727	e3,590	40,400	3,670	2,150	1,980	3,200
3	840	9,880	6,360	e2,110	e1,150	e727	e3,440	37,000	3,280	1,650	1,810	2,220
4	922	8,000	e5,540	e2,150	e1,110	e741	e3,280	31,300	2,840	1,330	2,280	1,600
5	1,440	6,570	e4,690	e2,240	e1,060	e760	e3,140	27,800	2,650	1,150	2,360	1,240
6	2,150	5,590	e3,350	e2,760	e1,030	e744	e2,980	26,000	5,730	1,050	2,090	1,020
7	2,620	4,940	e3,050	e4,560	e991	e725	e2,850	24,100	12,900	977	1,750	865
8	2,190	4,610	e3,320	e9,850	e959	e710	e2,740	24,600	9,180	964	2,330	765
9	1,720	5,300	e2,970	e10,100	e924	e695	e2,640	28,400	6,080	964	4,820	679
10	1,400	7,170	e2,760	e7,920	e893	e677	e2,530	28,700	4,530	946	6,860	616
11	1,190	7,200	e2,820	e6,050	e868	e656	e2,430	25,700	3,640	983	4,940	571
12	1,240	6,760	e2,760	e4,910	e845	e639	e2,310	22,100	3,010	1,670	3,440	591
13	3,060	9,830	e2,310	e4,560	e822	e639	e2,260	17,600	2,440	3,440	2,520	703
14	6,450	13,700	e2,180	e3,910	e802	e665	e2,250	13,300	1,990	4,430	1,900	910
15	5,420	17,400	e2,370	e3,490	e840	e797	e2,220	10,400	1,670	3,480	1,560	1,250
16	4,140	17,400	e2,410	e3,160	e819	e931	e2,290	8,720	1,440	2,670	1,400	1,490
17	3,280	14,100	e2,440	e2,890	e863	e1,140	e2,350	7,750	1,310	2,160	1,260	2,030
18	2,920	15,900	e2,480	e2,680	e850	e1,490	e2,470	8,460	1,330	1,840	1,130	2,330
19	3,490	15,400	e2,370	e2,500	e817	e2,130	e2,710	8,880	1,250	1,920	1,050	1,840
20	5,610	11,800	e2,150	e2,330	e820	e2,600	e3,350	8,200	1,140	1,940	980	1,380
21	17,400	9,280	e1,920	e2,170	e825	e2,830	e4,790	11,600	1,810	4,010	902	1,100
22	43,800	7,590	e1,820	e2,030	e822	e2,970	e9,690	16,200	2,050	8,560	814	918
23	34,800	6,400	e1,950	e1,900	e810	e3,080	e18,900	12,600	2,210	6,530	731	779
24	23,900	5,550	e2,430	e1,790	e796	e3,200	e35,700	9,090	1,870	4,280	721	680
25	16,700	4,830	e4,460	e1,690	e782	e3,430	50,500	7,080	1,480	2,910	846	618
26	12,400	e4,320	e6,430	e1,610	e769	e3,720	54,400	5,800	1,230	2,090	1,470	585
27	9,730	e4,020	e4,740	e1,530	e758	e3,840	48,000	4,840	1,070	1,570	2,880	584
28	7,910	e3,760	e3,780	e1,460	e748	e3,840	38,900	4,330	1,120	1,260	3,110	742
29	10,200	e3,600	e3,030	e1,400	---	e3,880	33,600	4,650	1,380	2,230	2,390	2,020
30	22,600	e3,510	e2,580	e1,340	---	e3,910	32,600	4,810	3,150	4,540	1,950	4,330
31	20,500	---	e2,360	e1,290	---	e3,870	---	4,220	---	4,440	2,890	---
Total	271,667	261,310	103,490	100,760	25,223	57,503	382,640	522,630	91,420	81,094	68,044	41,326
Mean	8,763	8,710	3,338	3,250	901	1,855	12,750	16,860	3,047	2,616	2,195	1,378
Max	43,800	17,400	6,930	10,100	1,250	3,910	54,400	40,400	12,900	8,560	6,860	4,330
Min	806	3,510	1,820	1,290	748	639	2,220	4,220	1,070	946	721	571
Cfsm	3.27	3.25	1.25	1.21	0.34	0.69	4.76	6.29	1.14	0.98	0.82	0.51
In.	3.77	3.63	1.44	1.40	0.35	0.80	5.31	7.25	1.27	1.13	0.94	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,613	4,297	2,767	1,555	1,219	1,857	14,830	15,050	4,358	2,861	2,519	2,386
Max	11,560	10,180	9,781	5,903	6,456	9,249	27,790	35,100	10,840	10,320	11,740	7,655
(WY)	(2006)	(1964)	(1951)	(2006)	(1996)	(1979)	(1976)	(1961)	(1947)	(1984)	(1981)	(1954)
Min	690	605	624	341	201	378	3,999	2,681	1,152	796	265	265
(WY)	(1954)	(1948)	(1956)	(1948)	(1948)	(1956)	(1965)	(1987)	(1968)	(1991)	(1953)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1910 - 2007	
Annual total	2,291,654		2,007,107			
Annual mean	6,279		5,499		4,799	
Highest annual mean					7,193	1976
Lowest annual mean					2,844	1965
Highest daily mean	43,800	Oct 22	54,400	Apr 26	86,800	Apr 29, 1979
Lowest daily mean	436	Sep 23	571	Sep 11	110	Sep 10, 2002
Annual seven-day minimum	481	Sep 18	669	Mar 8	119	Sep 4, 2002
Maximum peak flow			59,400	Apr 26	91,700	Apr 29, 1979
Maximum peak stage			24.30	Apr 23	37.89	Apr 9, 1991
Instantaneous low flow			552	Sep 11	106	Sep 10, 2002
Annual runoff (cfsm)	2.34		2.05		1.79	
Annual runoff (inches)	31.81		27.86		24.33	
10 percent exceeds	15,200		13,500		12,000	
50 percent exceeds	3,560		2,520		2,030	
90 percent exceeds	920		808		560	

