

Water-Data Report 2007

**01017000 AROOSTOOK RIVER AT WASHBURN, ME**

St. John Basin  
Aroostook Subbasin

LOCATION.--Lat 46°46'38", long 68°09'26" referenced to North American Datum of 1983, Aroostook County, ME, Hydrologic Unit 01010004, on right bank at Bangor and Aroostook Railroad bridge, 0.1 mi downstream from Salmon Brook.

DRAINAGE AREA.--1,654 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: August 1930 to current year.

REVISED RECORDS.--WSP 951: 1935, WSP 1301: 1933-50 (adjusted monthly runoff). WDR ME-82-1: Drainage area. WDR ME-97-1: 1991(M).

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, at datum 2.0 ft higher.

REMARKS.--Records good, except for period of ice effect, Dec. 3 to Apr. 24, and period of no gage-height record, Dec. 16-19, which are poor. Considerable regulation by Squa Pan Lake, capacity 2.893 billion ft<sup>3</sup>, used for power. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,400 ft<sup>3</sup>/s, Apr. 19, 1983, gage height, 13.73 ft; maximum gage height, 20.91 ft, Dec. 24, 1973 (backwater from ice); minimum daily discharge, 75 ft<sup>3</sup>/s, Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,500 ft<sup>3</sup>/s, Apr. 25-26, gage height, 10.73 ft; maximum gage height, 12.74 ft, Apr. 24 (backwater from ice); minimum daily discharge, 220 ft<sup>3</sup>/s, Sept. 25-26.

## 01017000 AROOSTOOK RIVER AT WASHBURN, ME—Continued

**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	701	7,220	2,930	e1,610	e1,180	e1,060	e1,650	17,000	2,560	742	405	799
2	770	5,960	3,460	e1,720	e1,220	e1,060	e1,670	17,300	2,300	687	392	793
3	737	4,960	e3,260	e1,650	e1,170	e1,040	e1,640	16,900	2,060	654	426	671
4	720	4,230	e2,920	e1,560	e1,150	e1,100	e1,590	15,400	1,820	645	774	559
5	1,060	3,670	e2,510	e1,560	e1,140	e1,090	e1,570	13,900	1,840	616	1,040	481
6	1,240	3,270	e1,930	e1,800	e1,150	e1,120	e1,520	12,800	2,730	599	959	430
7	1,170	2,980	e1,990	e2,860	e1,150	e1,090	e1,550	12,000	2,480	667	745	385
8	1,010	2,850	e1,990	e3,390	e1,100	e1,130	e1,540	11,800	2,120	707	686	347
9	864	3,130	e1,880	e3,480	e1,000	e1,120	e1,460	12,200	1,800	669	930	321
10	736	3,710	e1,840	e3,250	e1,030	e1,090	e1,440	12,200	1,760	596	1,320	314
11	644	3,810	e1,820	e2,780	e1,080	e1,130	e1,400	11,000	2,120	586	1,200	306
12	786	4,420	e1,700	e2,490	e1,030	e1,170	e1,380	10,200	1,990	661	974	311
13	2,280	6,240	e1,430	e2,460	e1,050	e1,260	e1,400	9,260	1,670	830	800	310
14	3,410	9,450	e1,490	e2,260	e1,050	e1,260	e1,440	7,660	1,390	876	675	316
15	3,020	16,600	e1,650	e2,050	e1,080	e1,310	e1,530	6,300	1,180	814	598	322
16	2,460	17,000	e1,660	e1,880	e1,090	e1,310	e1,750	5,380	1,030	1,000	537	303
17	2,000	14,700	e1,600	e1,750	e1,080	e1,160	e2,160	4,990	916	1,250	493	299
18	1,830	14,800	e1,580	e1,630	e1,070	e1,040	e2,780	5,100	903	1,170	455	303
19	2,220	13,300	e1,570	e1,540	e1,000	e1,230	e3,720	5,840	964	956	424	288
20	3,070	10,700	e1,500	e1,470	e1,020	e1,300	e5,220	6,820	916	858	398	271
21	9,050	8,280	e1,510	e1,430	e1,110	e1,320	e7,240	8,110	868	917	372	259
22	15,300	6,780	e1,470	e1,390	e1,100	e1,410	e10,000	8,330	877	1,050	342	253
23	13,800	5,660	e1,460	e1,370	e1,100	e1,490	e14,100	7,180	910	959	318	243
24	10,700	4,680	e2,310	e1,330	e1,150	e1,530	e19,500	5,990	879	801	336	227
25	8,470	4,070	e2,770	e1,280	e1,080	e1,580	26,400	5,160	798	685	386	220
26	6,880	3,630	e2,790	e1,210	e1,070	e1,630	27,100	4,430	707	603	453	220
27	5,640	3,310	e2,520	e1,140	e1,060	e1,650	25,400	3,790	641	534	480	227
28	4,730	3,070	e2,220	e1,080	e1,060	e1,650	21,300	3,540	656	487	472	310
29	5,620	2,880	e1,800	e1,050	---	e1,630	18,600	3,720	746	536	446	400
30	8,220	2,720	e1,560	e1,260	---	e1,740	17,200	3,500	818	526	422	439
31	8,420	---	e1,520	e1,240	---	e1,670	---	2,970	---	457	562	---
<b>Total</b>	127,558	198,080	62,640	56,970	30,570	40,370	225,250	270,770	42,449	23,138	18,820	10,927
<b>Mean</b>	4,115	6,603	2,021	1,838	1,092	1,302	7,508	8,735	1,415	746	607	364
<b>Max</b>	15,300	17,000	3,460	3,480	1,220	1,740	27,100	17,300	2,730	1,250	1,320	799
<b>Min</b>	644	2,720	1,430	1,050	1,000	1,040	1,380	2,970	641	457	318	220

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,856	2,625	1,956	1,146	1,062	1,481	8,357	7,732	2,441	1,369	1,015	1,099
<b>Max</b>	9,231	9,767	7,975	3,561	3,864	10,440	16,990	20,350	6,928	5,882	5,728	5,321
<b>(WY)</b>	(2006)	(1964)	(1951)	(2006)	(1996)	(1936)	(1976)	(1961)	(1984)	(1954)	(1981)	(1999)
<b>Min</b>	265	218	175	167	101	324	1,468	1,775	634	189	152	106
<b>(WY)</b>	(1956)	(1956)	(1956)	(1948)	(1948)	(1948)	(1944)	(1987)	(1988)	(1991)	(1968)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1930 - 2007	
<b>Annual total</b>	1,290,870		1,107,542			
<b>Annual mean</b>	3,537		3,034		2,681	
<b>Highest annual mean</b>					4,311	2006
<b>Lowest annual mean</b>					1,409	1957
<b>Highest daily mean</b>	17,000	Nov 16	27,100	Apr 26	42,500	Apr 19, 1983
<b>Lowest daily mean</b>	231	Sep 19	220	Sep 25	75	Feb 13, 1948
<b>Annual seven-day minimum</b>	253	Sep 14	236	Sep 21	78	Feb 9, 1948
<b>Maximum peak flow</b>			27,500	Apr 25	43,400	Apr 19, 1983
<b>Maximum peak stage</b>			12.74	Apr 24	20.91	Dec 24, 1973
<b>10 percent exceeds</b>	8,740		8,300		6,900	
<b>50 percent exceeds</b>	2,610		1,400		1,180	
<b>90 percent exceeds</b>	342		443		390	

