



Water-Data Report 2008

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 mi².

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 and crest-stage gage. 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, Nov. 24 to Apr. 20, and periods of no gage-height record, Dec. 10, 19, and Jan. 4, which are poor. Considerable regulation by Squa Pan Lake, capacity 2.893 billion ft³, used for power. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,500 ft³/s, May 1, 2008, gage height, 13.90 ft; maximum gage height, 20.91 ft, Dec. 24, 1973 (backwater from ice); minimum daily discharge, 75 ft³/s, Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,500 ft³/s, May 1, gage height, 13.90 ft; maximum gage height, 14.40 ft, Apr. 18 (backwater from ice); minimum daily discharge, 242 ft³/s, Oct. 9.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	443	2,480	e2,850	e1,690	e1,150	e1,350	e1,590	48,600	1,860	5,910	1,670	599
2	403	2,150	e1,990	e1,610	e1,180	e1,330	e1,610	41,200	2,350	5,010	3,300	569
3	367	1,930	e2,650	e1,530	e1,180	e1,300	e1,630	29,300	2,300	3,920	5,440	536
4	335	5,420	e2,600	e1,480	e1,170	e1,280	e1,700	21,700	1,950	3,120	7,210	503
5	307	10,100	e2,440	e1,430	e1,160	e1,270	e1,800	18,000	1,600	2,520	9,160	476
6	284	9,720	e2,310	e1,400	e1,160	e1,260	e2,000	16,600	1,410	2,050	9,530	459
7	268	8,950	e2,160	e1,380	e1,010	e1,240	e2,290	15,700	1,250	1,700	7,210	451
8	253	7,750	e2,130	e1,660	e981	e1,250	e2,770	14,800	1,160	1,430	5,340	446
9	242	6,880	e2,040	e2,090	e984	e1,290	e3,450	15,400	1,100	1,300	4,570	504
10	253	5,760	e1,930	e2,590	e992	e1,270	e4,650	14,400	1,130	1,570	4,540	763
11	321	4,640	e1,860	e2,970	e969	e1,280	e6,110	12,400	1,840	1,830	4,240	1,060
12	444	3,830	e1,840	e3,200	e936	e1,320	e7,340	10,300	2,450	1,570	3,990	1,010
13	1,000	3,350	e1,770	e3,190	e969	e1,380	e8,220	8,530	2,290	1,270	4,070	864
14	2,490	3,120	e1,690	e3,030	e968	e1,380	e8,820	7,610	1,810	1,110	3,900	779
15	2,670	3,420	e1,630	e2,740	e976	e1,460	e9,310	6,590	1,420	1,100	3,500	712
16	2,290	9,850	e1,580	e2,490	e976	e1,320	e9,880	5,790	1,230	1,230	3,050	654
17	1,850	17,400	e1,530	e2,240	e998	e1,310	e10,900	5,160	1,290	1,090	2,610	605
18	1,490	17,900	e1,500	e2,070	e1,030	e1,690	e12,600	4,540	1,850	896	2,280	553
19	1,230	13,600	e1,460	e1,930	e1,160	e1,720	e15,200	4,150	2,030	866	2,050	510
20	1,150	9,070	e1,430	e1,820	e1,340	e1,730	e19,100	5,850	1,910	979	1,850	471
21	1,280	6,940	e1,410	e1,700	e1,450	e1,740	24,100	5,860	1,720	1,260	1,660	430
22	1,390	5,730	e1,380	e1,570	e1,480	e1,740	26,500	4,820	1,550	1,600	1,480	393
23	1,310	5,640	e1,380	e1,510	e1,500	e1,730	27,600	4,150	1,450	2,050	1,330	369
24	1,360	e5,150	e1,590	e1,440	e1,470	e1,710	29,600	3,500	1,950	1,880	1,120	348
25	1,600	e4,450	e2,030	e1,380	e1,530	e1,690	29,300	3,000	2,030	1,640	991	334
26	1,620	e4,210	e2,260	e1,310	e1,520	e1,660	27,600	2,600	1,800	1,850	934	322
27	1,520	e3,790	e2,370	e1,240	e1,480	e1,640	24,900	2,300	1,440	1,700	882	406
28	2,330	e3,770	e2,300	e1,180	e1,430	e1,620	21,600	2,070	1,660	1,570	803	1,050
29	3,480	e3,430	e2,110	e1,150	e1,380	e1,570	20,700	1,850	2,910	1,720	730	2,720
30	3,400	e3,320	e1,940	e1,120	---	e1,590	38,100	1,660	5,240	2,080	678	3,230
31	2,940	---	e1,810	e1,130	---	e1,590	---	1,520	---	1,890	633	---
Total	40,320	193,750	59,970	57,270	34,529	45,710	400,970	339,950	55,980	59,711	100,751	22,126
Mean	1,301	6,458	1,935	1,847	1,191	1,475	13,370	10,970	1,866	1,926	3,250	738
Max	3,480	17,900	2,850	3,200	1,530	1,740	38,100	48,600	5,240	5,910	9,530	3,230
Min	242	1,930	1,380	1,120	936	1,240	1,590	1,520	1,100	866	633	322

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,849	2,674	1,956	1,155	1,064	1,481	8,421	7,774	2,434	1,377	1,043	1,095
Max	9,231	9,767	7,975	3,561	3,864	10,440	16,990	20,350	6,928	5,882	5,728	5,321
(WY)	(2006)	(1964)	(1951)	(2006)	(1996)	(1936)	(1976)	(1961)	(1984)	(1954)	(1981)	(1999)
Min	265	218	175	167	101	324	1,468	1,775	634	189	152	106
(WY)	(1956)	(1956)	(1956)	(1948)	(1948)	(1948)	(1944)	(1987)	(1988)	(1991)	(1968)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1930 - 2008	
Annual total	1,013,304		1,411,037			
Annual mean	2,776		3,855		2,696	
Highest annual mean					4,311	2006
Lowest annual mean					1,409	1957
Highest daily mean	27,100	Apr 26	48,600	May 1	48,600	May 1, 2008
Lowest daily mean	220	Sep 25	242	Oct 9	75	Feb 13, 1948
Annual seven-day minimum	236	Sep 21	275	Oct 5	78	Feb 9, 1948
Maximum peak flow			49,500	May 1	49,500	May 1, 2008
Maximum peak stage			14.40	Apr 18	20.91	Dec 24, 1973
10 percent exceeds	7,040		9,100		6,910	
50 percent exceeds	1,360		1,700		1,200	
90 percent exceeds	390		725		393	

