

Water-Data Report 2007

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

St. John Basin
Allagash Subbasin

LOCATION.--Lat 47°04'11", long 69°04'46" referenced to North American Datum of 1983, Aroostook County, ME, Hydrologic Unit 01010002, on left bank 3.0 mi upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,229 mi², not including 249 mi² drained by Chamberlain Lake through Telos Canal.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: July 1910 to November 1910, May to November 1911, September 1931 to current year. Monthly discharges only for some periods prior to November 1911, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1911. WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft above National Geodetic Vertical Datum of 1929. Prior to December 1911, nonrecording gage at site 3.0 mi downstream at different datum.

REMARKS.--Records good, except for period of ice effect, Dec. 6 to Apr. 24, which is poor. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft³, 58 mi upstream. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft³/s, Apr. 18, 1983, gage height, 13.68 ft; maximum gage height, 19.78 ft, Apr. 10, 1991 (backwater from ice); minimum discharge, 87 ft³/s, Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,900 ft³/s, Apr. 25, gage height, 9.26 ft; maximum gage height, 13.18 ft, Apr. 24 (backwater from ice); minimum discharge, 325 ft³/s, Sept. 26, gage height, 2.10 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	466	5,940	2,550	e973	e780	e414	e829	13,900	1,830	788	774	1,060
2	415	5,310	2,520	e962	e743	e413	e810	14,500	1,740	734	702	926
3	409	4,740	2,160	e957	e711	e412	e804	13,800	1,630	710	695	845
4	418	4,250	1,920	e987	e679	e419	e798	12,400	1,520	715	882	767
5	816	3,800	1,660	e1,050	e650	e423	e823	11,600	1,550	695	898	685
6	943	3,240	e1,360	e1,170	e624	e422	e869	10,900	2,330	672	814	628
7	678	2,790	e1,360	e1,490	e600	e413	e883	10,200	2,250	639	835	609
8	555	2,580	e1,310	e2,420	e575	e395	e869	10,100	1,890	661	940	588
9	485	2,690	e1,170	e2,740	e553	e379	e855	10,500	1,670	655	1,240	540
10	433	2,790	e1,170	e2,560	e535	e374	e842	9,770	1,560	653	1,230	496
11	388	2,610	e1,150	e2,360	e515	e376	e849	8,830	1,420	644	1,150	476
12	447	2,900	e1,070	e2,160	e498	e380	e910	8,090	1,240	850	999	499
13	1,110	3,940	e955	e2,060	e483	e388	e947	7,380	1,090	1,210	884	505
14	1,100	4,810	e944	e1,880	e477	e412	e1,030	6,450	968	1,130	799	480
15	935	6,330	e931	e1,780	e500	e444	e1,060	5,520	876	1,040	746	512
16	896	6,590	e918	e1,680	e493	e501	e1,060	4,650	807	1,000	727	659
17	870	6,600	e909	e1,590	e477	e566	e1,210	3,900	760	922	705	661
18	923	7,090	e896	e1,510	e461	e645	e1,420	3,410	873	845	677	595
19	1,240	6,540	e846	e1,440	e445	e701	e1,780	3,270	901	791	638	552
20	1,420	5,840	e690	e1,380	e437	e758	e2,470	3,310	822	804	600	509
21	6,050	5,100	e674	e1,320	e433	e791	e3,930	3,730	910	1,030	575	463
22	9,190	4,440	e667	e1,270	e430	e785	e6,550	3,870	998	1,080	556	426
23	7,660	3,960	e664	e1,210	e426	e803	e10,700	3,590	1,010	968	546	407
24	6,410	3,610	e1,040	e1,170	e424	e828	e14,000	3,170	957	870	586	378
25	5,610	3,300	e1,460	e1,120	e420	e849	15,400	2,970	855	782	728	341
26	5,050	3,090	e1,490	e1,070	e418	e869	15,200	2,840	771	711	938	330
27	4,470	3,020	e1,330	e1,010	e416	e862	14,300	2,650	713	650	900	364
28	4,050	2,930	e1,180	e954	e415	e862	13,000	2,580	829	616	776	1,000
29	5,700	2,780	e1,070	e899	---	e855	12,200	2,540	1,020	804	706	1,290
30	7,200	2,410	e1,020	e855	---	e842	12,500	2,220	884	961	742	1,070
31	6,650	---	e993	e813	---	e842	---	1,980	---	874	1,000	---
Total	82,987	126,020	38,077	44,840	14,618	18,423	138,898	204,620	36,674	25,504	24,988	18,661
Mean	2,677	4,201	1,228	1,446	522	594	4,630	6,601	1,222	823	806	622
Max	9,190	7,090	2,550	2,740	780	869	15,400	14,500	2,330	1,210	1,240	1,290
Min	388	2,410	664	813	415	374	798	1,980	713	616	546	330
Cfsm	2.18	3.42	1.00	1.18	0.42	0.48	3.77	5.37	0.99	0.67	0.66	0.51
In.	2.51	3.81	1.15	1.36	0.44	0.56	4.20	6.19	1.11	0.77	0.76	0.56

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	1,319	1,657	1,216	762	608	782	4,879	6,305	2,190	1,400	1,089	1,043
Max	5,854	5,473	4,549	2,494	2,400	3,610	10,100	13,550	4,544	4,053	5,292	3,419
(WY)	(2006)	(2006)	(1951)	(2006)	(1996)	(1979)	(1976)	(1961)	(1947)	(1954)	(1976)	(1999)
Min	149	235	252	192	119	181	623	1,269	611	365	165	122
(WY)	(1969)	(1969)	(1969)	(1948)	(1948)	(1956)	(1944)	(1987)	(1998)	(1965)	(1968)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1910 - 2007	
Annual total	922,104		774,310			
Annual mean	2,526		2,121		1,950	
Highest annual mean					2,985	2006
Lowest annual mean					989	1957
Highest daily mean	13,200	Apr 16	15,400	Apr 25	32,100	Apr 18, 1983
Lowest daily mean	278	Sep 18	330	Sep 26	91	Mar 9, 1948
Annual seven-day minimum	281	Sep 13	386	Mar 8	91	Mar 9, 1948
Maximum peak flow			15,900	Apr 25	36,900	Apr 18, 1983
Maximum peak stage			13.18	Apr 24	19.78	Apr 10, 1991
Instantaneous low flow			325	Sep 26	87	Sep 11, 1960
Annual runoff (cfsm)	2.06		1.73		1.59	
Annual runoff (inches)	27.91		23.44		21.56	
10 percent exceeds	6,180		5,760		4,710	
50 percent exceeds	1,760		935		980	
90 percent exceeds	445		446		320	

