

Water-Data Report 2010

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. 8 to Apr. 4, 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, 40,900 ft³/s, Apr. 30, 2008, gage height, 14.89 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, 19,500 ft³/s, Apr. 5, gage height, 10.23 ft; maximum gage height, 11.58 ft, Apr. 1 (backwater from ice); minimum discharge, 302 ft³/s, Sept. 3, 4, gage height, 2.06 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	812	1,900	3,300	e1,180	e1,600	e918	e5,650	2,950	705	1,020	482	339
2	750	1,800	3,010	e1,160	e1,460	e983	e7,800	2,650	990	943	462	326
3	696	1,670	3,210	e1,150	e1,340	e979	e10,700	2,520	1,200	839	471	312
4	1,140	1,580	5,650	e1,150	e1,250	e950	e15,300	2,870	1,950	760	493	334
5	1,710	1,500	5,980	e1,140	e1,180	e904	19,200	2,530	1,670	700	562	371
6	1,470	1,430	5,330	e1,130	e1,120	e861	19,200	2,400	1,720	656	537	344
7	1,370	1,350	4,550	e1,110	e1,070	e860	18,200	3,490	2,140	602	489	326
8	1,950	1,300	e3,800	e1,100	e1,020	e858	16,200	3,060	2,300	573	456	369
9	2,100	1,260	e3,190	e1,080	e982	e844	14,200	2,920	2,070	578	450	590
10	2,220	1,210	e2,780	e1,070	e946	e822	15,300	2,880	1,730	735	450	647
11	2,330	1,170	e2,540	e1,060	e912	e800	15,400	2,640	1,480	1,120	440	576
12	2,070	1,120	e2,400	e1,050	e877	e779	13,300	2,390	1,270	1,020	422	482
13	1,820	1,060	e2,330	e1,040	e848	e762	11,400	2,150	1,140	926	401	435
14	1,630	993	e2,300	e1,030	e824	e750	9,880	1,960	1,040	866	392	436
15	1,480	1,270	e2,220	e1,020	e797	e745	8,720	1,840	938	803	388	470
16	1,360	1,970	e1,960	e1,010	e770	e750	7,720	1,660	833	752	402	476
17	1,250	2,010	e1,630	e999	e750	e804	6,830	1,490	804	710	436	470
18	1,140	1,900	e1,520	e992	e742	e935	6,090	1,390	783	656	444	464
19	1,010	1,740	e1,450	e985	e736	e1,210	5,570	1,310	734	619	442	452
20	907	1,650	e1,390	e976	e725	e1,520	5,150	1,230	728	608	433	426
21	847	2,150	e1,350	e971	e720	e1,960	4,800	1,120	897	584	417	388
22	806	2,310	e1,310	e961	e711	e2,360	4,420	1,050	787	643	403	374
23	804	2,130	e1,270	e951	e707	e2,680	4,290	997	681	715	400	370
24	789	1,980	e1,250	e951	e711	e2,980	4,030	925	826	657	393	374
25	1,230	1,880	e1,270	e987	e701	e3,190	4,120	913	1,560	641	386	481
26	2,200	1,850	e1,240	e1,150	e695	e3,170	4,260	1,110	1,250	646	399	697
27	2,300	1,880	e1,220	e1,680	e701	e3,080	3,670	993	1,020	605	405	642
28	2,170	2,680	e1,220	e2,030	e773	e3,060	3,650	833	876	555	390	761
29	1,980	3,630	e1,230	e2,090	---	e3,170	3,710	761	859	542	378	1,350
30	1,870	3,570	e1,220	e1,970	---	e3,640	3,320	739	970	524	365	1,710
31	1,840	---	e1,200	e1,760	---	e4,280	---	692	---	504	351	---
Total	46,051	53,943	74,320	36,933	25,668	51,604	272,080	56,463	35,951	22,102	13,339	15,792
Mean	1,486	1,798	2,397	1,191	917	1,665	9,069	1,821	1,198	713	430	526
Max	2,330	3,630	5,980	2,090	1,600	4,280	19,200	3,490	2,300	1,120	562	1,710
Min	696	993	1,200	951	695	745	3,320	692	681	504	351	312
Cfsm	1.01	1.22	1.62	0.81	0.62	1.13	6.14	1.23	0.81	0.48	0.29	0.36
In.	1.16	1.36	1.87	0.93	0.65	1.30	6.85	1.42	0.90	0.56	0.34	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,322	1,699	1,233	780	620	800	5,029	6,240	2,154	1,411	1,142	1,028
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 2009		Water Year 2010		Water Years 1910 - 2010	
Annual total	811,596		704,246			
Annual mean	2,224		1,929		1,967	
Highest annual mean					3,051	2008
Lowest annual mean					989	1957
Highest daily mean	17,400	Apr 24	19,200	Apr 5	38,400	Apr 30, 2008
Lowest daily mean	352	Sep 22	312	Sep 3	91	Mar 9, 1948
Annual seven-day minimum	383	Sep 17	336	Sep 1	91	Mar 9, 1948
Maximum peak flow			19,500	Apr 5	40,900	Apr 30, 2008
Maximum peak stage			11.58	Apr 1	19.78	Apr 10, 1991
Instantaneous low flow			302	Sep 3	87	Sep 11, 1960
Annual runoff (cfs)	1.81		1.57		1.60	
Annual runoff (inches)	24.57		21.32		21.75	
10 percent exceeds	4,980		3,630		4,710	
50 percent exceeds	1,370		1,080		999	
90 percent exceeds	587		448		329	

