



Water-Data Report 2007

**01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME**

St. John Basin  
Upper St. John Subbasin

LOCATION.--Lat 46°53'38", long 69°45'06" referenced to North American Datum of 1983, Aroostook County, ME, Hydrologic Unit 01010001, on left bank at the Six Mile Landing Road Bridge, 4 mi northeast of Depot Mountain, 26.8 mi upstream from mouth.

DRAINAGE AREA.--171 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 885 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for periods of ice effect, Nov. 5-8, and Nov. 24 to Apr. 24, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,680 ft<sup>3</sup>/s Apr. 1, 1987; gage height, 15.62 ft; minimum daily discharge, 7.4 ft<sup>3</sup>/s, Sept. 24, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 21	2245	3,580	10.44
Apr 24	1300	*6,160	*12.57
Apr 26	1915	3,690	10.56
May 2	0015	2,790	9.50

Minimum discharge, 29 ft<sup>3</sup>/s, July 4-5, gage height, 3.26 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	40	749	e392	e112	e71	e44	e113	2,600	265	40	245	385
2	44	583	e365	e119	e69	e43	e107	2,630	246	38	149	213
3	44	466	e287	e121	e67	e44	e100	2,300	190	33	217	141
4	50	369	e229	e124	e65	e46	e94	1,900	155	30	412	104
5	186	e300	e191	e128	e63	e48	e90	1,820	277	33	297	80
6	218	e266	e178	e278	e61	e48	e87	1,700	1,180	37	191	65
7	141	e245	e198	e571	e60	e47	e85	1,570	1,140	68	287	59
8	99	e298	e158	e551	e58	e44	e82	1,880	594	81	332	55
9	76	557	e146	e427	e56	e42	e82	2,300	338	63	737	50
10	62	625	e219	e338	e55	e40	e80	1,970	232	75	509	45
11	53	483	e194	e277	e54	e40	e79	1,610	171	131	268	40
12	183	636	e175	e256	e52	e45	e78	1,320	130	426	166	159
13	527	959	e162	e225	e51	e48	e81	941	105	372	120	277
14	363	1,070	e158	e193	e50	e48	e83	664	83	203	99	177
15	232	1,330	e155	e176	e52	e57	e86	529	70	134	87	161
16	159	1,060	e151	e164	e51	e68	e91	474	60	123	79	387
17	122	959	e151	e152	e53	e86	e97	430	58	101	74	309
18	149	1,290	e151	e142	e53	e107	e111	405	67	75	79	191
19	294	1,010	e146	e133	e54	e127	e139	357	66	101	94	128
20	408	674	e140	e126	e55	e144	e199	470	76	282	79	97
21	2,740	505	e135	e118	e55	e148	e421	1,580	161	1,260	64	77
22	2,970	403	e112	e111	e53	e143	e979	1,350	159	1,010	52	63
23	1,500	341	e119	e105	e52	e153	e2,040	756	109	458	45	54
24	949	e282	e258	e99	e51	e156	e3,880	494	79	221	60	47
25	704	e247	e296	e94	e49	e156	4,270	376	59	134	188	42
26	545	e229	e235	e90	e48	e158	3,620	292	48	92	718	40
27	420	e214	e188	e86	e46	e151	2,720	229	42	70	658	50
28	368	e203	e152	e82	e45	e145	2,110	288	46	114	359	156
29	1,760	e195	e128	e79	---	e141	1,810	363	48	1,350	192	327
30	2,050	e222	e119	e76	---	e135	1,970	290	45	1,210	435	251
31	1,210	---	e115	e73	---	e124	---	293	---	527	682	---
<b>Total</b>	18,666	16,770	5,803	5,626	1,549	2,826	25,784	34,181	6,299	8,892	7,974	4,230
<b>Mean</b>	602	559	187	181	55.3	91.2	859	1,103	210	287	257	141
<b>Max</b>	2,970	1,330	392	571	71	158	4,270	2,630	1,180	1,350	737	387
<b>Min</b>	40	195	112	73	45	40	78	229	42	30	45	40
<b>Cfsm</b>	3.52	3.27	1.09	1.06	0.32	0.53	5.03	6.45	1.23	1.68	1.50	0.82
<b>In.</b>	4.06	3.65	1.26	1.22	0.34	0.61	5.61	7.44	1.37	1.93	1.73	0.92

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	275	340	212	123	95.6	203	1,296	723	246	207	151	131
<b>Max</b>	710	612	708	396	393	852	1,993	1,766	762	691	748	389
<b>(WY)</b>	(1991)	(1989)	(1991)	(2006)	(1996)	(1990)	(2005)	(1997)	(1994)	(1984)	(2003)	(2004)
<b>Min</b>	39.2	113	41.8	27.5	13.6	25.9	678	152	57.2	38.5	17.6	17.1
<b>(WY)</b>	(2003)	(2002)	(1998)	(1985)	(1985)	(1993)	(1985)	(1987)	(1998)	(1997)	(2001)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1984 - 2007	
<b>Annual total</b>	169,779		138,600			
<b>Annual mean</b>	465		380		333	
<b>Highest annual mean</b>					488	2006
<b>Lowest annual mean</b>					157	1985
<b>Highest daily mean</b>	3,330	Apr 3	4,270	Apr 25	6,790	Apr 1, 1987
<b>Lowest daily mean</b>	19	Sep 3	30	Jul 4	7.4	Sep 24, 1985
<b>Annual seven-day minimum</b>	22	Aug 28	37	Jun 30	8.0	Sep 20, 1985
<b>Maximum peak flow</b>			6,160	Apr 24	8,680	Apr 1, 1987
<b>Maximum peak stage</b>			12.57	Apr 24	15.62	Apr 1, 1987
<b>Instantaneous low flow</b>			29	Jul 4		
<b>Annual runoff (cfsm)</b>	2.72		2.22		1.95	
<b>Annual runoff (inches)</b>	36.93		30.15		26.49	
<b>10 percent exceeds</b>	1,140		1,060		855	
<b>50 percent exceeds</b>	251		151		124	
<b>90 percent exceeds</b>	32		48		31	

