



Water-Data Report 2007

01017960 MEDUXNEKEAG RIVER ABOVE SOUTH BRANCH MEDUXNEKEAG RIVER NEAR HOULTON, ME

St. John Basin
Meduxnekeag Subbasin

LOCATION.--Lat 46°06'18", long 67°52'53" referenced to North American Datum of 1983, Aroostook County, ME, Hydrologic Unit 01010005, on left bank at A.E. Staley Plant and 3.1 mi upstream from Houlton.

DRAINAGE AREA.--88.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 2003 to current year.

GAGE.--Water-stage recorder. Datum of gage is 355 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for periods of ice effect, Dec. 5-14, 20-23, and Dec. 27 to Apr. 15, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s, Oct. 17, 2005, gage height, 7.23 ft; maximum gage height, 11.04 ft, Apr. 4, 2005 (backwater from ice); minimum discharge, 2.8 ft³/s, Aug. 20, 29, 2005, gage height, 2.16 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 15	1045	*1,990	6.90
Mar 20	0245	Ice Jam	*8.00
Apr 25	0315	1,700	6.56

Minimum discharge, 5.9 ft³/s, Sept. 24, gage height, 2.23 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	16	263	203	e108	e48	e23	e106	702	128	80	44	92
2	17	220	248	e103	e47	e24	e102	651	119	62	34	69
3	19	198	221	e102	e47	e25	e93	570	105	49	29	49
4	20	176	184	e93	e45	e27	e87	486	95	39	38	35
5	28	155	e162	e92	e43	e28	e81	418	127	39	34	25
6	31	142	e141	e119	e41	e25	e79	368	157	57	25	17
7	25	137	e132	e381	e40	e24	e75	323	120	69	21	16
8	21	138	e128	e343	e38	e23	e70	290	95	69	21	14
9	20	220	e121	e311	e37	e23	e66	265	79	58	68	11
10	18	314	e113	e253	e36	e23	e62	240	67	78	55	11
11	17	254	e104	e209	e35	e29	e61	216	58	62	45	11
12	16	215	e97	e205	e34	e38	e74	218	50	75	34	13
13	42	266	e99	e152	e33	e48	e95	198	42	72	26	14
14	78	710	e121	e131	e33	e51	e122	175	37	50	21	13
15	66	1,840	142	e117	e34	e56	e157	155	33	48	15	13
16	51	1,210	164	e107	e33	e82	226	155	29	82	12	13
17	41	915	174	e98	e31	e123	321	233	27	61	12	12
18	43	1,300	160	e91	e30	e203	444	280	57	47	12	11
19	84	936	146	e85	e28	e290	571	405	47	54	13	10
20	104	644	e127	e80	e27	e300	705	479	39	56	12	9.1
21	288	494	e110	e76	e26	e270	890	447	52	62	9.8	8.6
22	401	392	e100	e71	e26	e229	1,060	373	80	53	8.8	7.8
23	258	322	e98	e68	e25	e201	1,200	292	69	40	8.2	6.7
24	214	278	248	e65	e25	e177	1,570	244	54	33	8.5	6.5
25	194	243	275	e63	e24	e173	1,560	214	43	29	11	13
26	165	217	222	e60	e24	e164	1,150	186	34	24	36	14
27	140	202	e193	e58	e24	e147	903	158	31	26	91	10
28	124	197	e151	e56	e24	e133	801	174	68	21	72	10
29	349	183	e132	e54	---	e129	777	203	155	65	39	9.4
30	540	181	e121	e52	---	e120	759	161	110	60	27	9.2
31	380	---	e114	e50	---	e109	---	142	---	45	77	---
Total	3,810	12,962	4,751	3,853	938	3,317	14,267	9,421	2,207	1,665	959.3	553.3
Mean	123	432	153	124	33.5	107	476	304	73.6	53.7	30.9	18.4
Max	540	1,840	275	381	48	300	1,570	702	157	82	91	92
Min	16	137	97	50	24	23	61	142	27	21	8.2	6.5
Cfsm	1.40	4.91	1.74	1.41	0.38	1.22	5.40	3.45	0.84	0.61	0.35	0.21
In.	1.61	5.48	2.01	1.63	0.40	1.40	6.03	3.98	0.93	0.70	0.41	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	231	334	248	166	67.4	102	484	284	117	50.5	25.7	48.9
Max	501	446	334	344	154	133	803	367	174	71.3	35.1	93.6
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2005)	(2006)	(2006)	(2006)	(2004)	(2004)
Min	40.5	97.4	153	83.2	30.8	65.8	297	135	50.5	38.0	18.0	11.5
(WY)	(2005)	(2005)	(2007)	(2005)	(2004)	(2004)	(2006)	(2004)	(2004)	(2004)	(2005)	(2006)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2003 - 2007	
Annual total	69,253.2		58,703.6			
Annual mean	190		161		180	
Highest annual mean					238	2006
Lowest annual mean					153	2004
Highest daily mean	1,840	Nov 15	1,840	Nov 15	2,050	Oct 17, 2005
Lowest daily mean	7.2	Sep 19	6.5	Sep 24	3.1	Aug 20, 2005
Annual seven-day minimum	8.6	Sep 15	8.5	Sep 18	4.1	Aug 18, 2005
Maximum peak flow			1,990	Nov 15	2,320	Oct 17, 2005
Maximum peak stage			8.00	Mar 20	11.04	Apr 4, 2005
Instantaneous low flow			5.9	Sep 24	2.8	Aug 20, 2005
Annual runoff (cfsm)	2.16		1.83		2.04	
Annual runoff (inches)	29.28		24.82		27.78	
10 percent exceeds	417		357		426	
50 percent exceeds	137		78		89	
90 percent exceeds	14		16		20	

