



Water-Data Report 2007

01018035 MEDUXNEKEAG RIVER AT LOWERY ROAD NEAR HOULTON, ME

St. John Basin
Meduxnekeag Subbasin

LOCATION.--Lat 46°10'52", long 67°48'14" referenced to North American Datum of 1983, Aroostook County, ME, Hydrologic Unit 01010005, on left bank at downstream side of Lowery Road bridge and 4.6 mi upstream of the International Border with Canada.

DRAINAGE AREA.--257 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: July 2005 to current year.

GAGE.--Water-stage recorder. Datum of gage is 290 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for periods of ice effect, Dec. 5-13, 19-23, Dec. 28 to Jan. 5, and Jan. 10 to Apr. 16, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,810 ft³/s, Dec. 2, 2005, gage height, 9.15 ft; maximum gage height, 9.35 ft, Jan. 14, 2006 (backwater from ice); minimum discharge, 16 ft³/s, Aug. 20, 2005, gage height, 1.70 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 15	0500	*5,370	*8.81
Nov 18	0445	3,550	7.23
Apr 25	0045	4,990	8.34

Minimum discharge, 24 ft³/s, Sept. 24-25, gage height, 1.75 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	64	675	554	e293	e143	e69	e308	1,920	306	180	149	257
2	71	554	694	e283	e138	e70	e292	1,760	278	149	119	182
3	81	485	617	e281	e137	e74	e262	1,520	244	125	111	140
4	81	421	516	e253	e134	e81	e236	1,280	221	103	151	109
5	101	363	e439	e264	e128	e82	e216	1,100	309	104	157	84
6	106	326	e375	555	e123	e75	e210	974	400	148	131	68
7	90	308	e364	1,140	e117	e72	e200	859	314	190	107	59
8	77	317	e348	977	e113	e69	e184	770	245	178	114	54
9	70	564	e345	874	e110	e67	e170	711	202	145	278	46
10	64	839	e319	e749	e107	e69	e157	645	171	146	226	44
11	58	708	e286	e589	e104	e84	e160	582	150	131	163	46
12	60	620	e258	e584	e101	e113	e181	593	136	191	124	53
13	102	845	e255	e463	e98	e141	e226	536	120	199	97	51
14	156	2,600	325	e363	e97	e152	e315	453	106	161	79	48
15	139	5,020	393	e329	e101	e165	e455	399	95	154	66	48
16	114	3,390	474	e303	e100	e238	e682	402	86	203	58	52
17	99	2,670	502	e282	e95	e352	1,070	663	86	165	52	48
18	113	3,300	459	e264	e90	e588	1,480	835	142	126	55	42
19	190	2,370	e404	e247	e85	e868	1,910	1,250	127	124	53	40
20	244	1,660	e332	e234	e82	e893	2,360	1,420	105	136	49	35
21	718	1,240	e299	e223	e79	e808	2,900	1,310	121	157	45	33
22	879	976	e281	e211	e77	e674	3,320	1,050	175	136	38	31
23	628	812	e295	e203	e75	e585	3,790	795	159	109	34	30
24	543	708	709	e195	e73	e509	4,750	639	131	89	39	27
25	477	622	755	e187	e72	e504	4,410	544	109	79	59	27
26	395	554	633	e179	e72	e487	3,160	459	91	72	132	36
27	324	519	535	e172	e72	e435	2,480	381	82	61	160	32
28	280	506	e408	e166	e70	e389	2,170	435	165	66	135	33
29	964	468	e361	e159	---	e375	2,100	480	324	287	92	33
30	1,240	471	e322	e154	---	e350	2,030	397	249	223	88	30
31	909	---	e306	e148	---	e317	---	344	---	188	225	---
Total	9,437	34,911	13,163	11,324	2,793	9,755	42,184	25,506	5,449	4,525	3,386	1,818
Mean	304	1,164	425	365	99.8	315	1,406	823	182	146	109	60.6
Max	1,240	5,020	755	1,140	143	893	4,750	1,920	400	287	278	257
Min	58	308	255	148	70	67	157	344	82	61	34	27
Cfsm	1.18	4.53	1.65	1.42	0.39	1.22	5.47	3.20	0.71	0.57	0.43	0.24
In.	1.37	5.05	1.91	1.64	0.40	1.41	6.11	3.69	0.79	0.65	0.49	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	877	1,215	679	666	262	344	1,119	935	361	168	82.3	118
Max	1,449	1,266	934	967	423	372	1,406	1,047	541	220	109	247
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2007)	(2006)	(2006)	(2006)	(2007)	(2005)
Min	304	1,164	425	365	99.8	315	833	823	182	137	66.5	47.9
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2006)	(2007)	(2007)	(2005)	(2005)	(2006)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2005 - 2007	
Annual total	195,013		164,251			
Annual mean	534		450		567	
Highest annual mean					683	2006
Lowest annual mean					450	2007
Highest daily mean	5,020	Nov 15	5,020	Nov 15	5,020	Nov 15, 2006
Lowest daily mean	30	Sep 19	27	Sep 24	18	Aug 20, 2005
Annual seven-day minimum	35	Sep 14	31	Sep 21	24	Aug 17, 2005
Maximum peak flow			5,370	Nov 15	5,810	Dec 2, 2005
Maximum peak stage			8.81	Nov 15	9.35	Jan 14, 2006
Instantaneous low flow			24	Sep 24	16	Aug 20, 2005
Annual runoff (cfsm)	2.08		1.75		2.20	
Annual runoff (inches)	28.23		23.77		29.95	
10 percent exceeds	1,210		968		1,340	
50 percent exceeds	363		203		308	
90 percent exceeds	58		61		60	

