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 mi^2.

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, Nov. 26 to Dec. 1, Dec. 9-12, and Dec. 17 to Apr. 10, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s, Dec. 14, 2010, gage height, 12.26 ft; minimum discharge, 8.7 ft^3/s, Sept. 3, 2010.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 10	0530	4,050	7.55
Dec 5	0030	3,080	6.65
Dec 14	1015	*10,800	*12.26
Mar 13	----	2,820[a]	----
Apr 14	2245	3,850	7.37

Minimum discharge, 90 ft^3/s, July 30, gage height, 2.09 ft.

[a] Estimated daily discharge.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01018035, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01018035.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	130	395	e352	e387	e141	e115	e700	1,420	568	270	188	538
2	423	338	570	e410	e137	e116	e690	1,100	461	235	155	385
3	487	296	1,390	e433	e134	e113	e698	894	393	204	436	315
4	342	273	2,420	e408	e130	e110	e638	868	339	233	488	312
5	251	607	2,850	e358	e127	e119	e658	1,380	298	284	377	518
6	202	1,050	2,200	e319	e128	e281	e915	1,580	266	235	267	1,430
7	272	852	1,740	e285	e131	e622	e988	1,310	234	243	202	1,450
8	396	1,050	1,280	e278	e133	e1,130	e918	1,730	217	210	174	1,030
9	348	2,670	e990	e275	e133	e1,680	e915	1,470	518	172	153	694
10	270	3,780	e801	e272	e130	e1,860	e1,150	1,220	478	148	141	503
11	216	2,610	e717	e261	e126	e1,870	1,730	1,210	337	137	175	382
12	179	1,670	e642	e249	e123	e2,570	2,750	967	261	450	220	315
13	153	1,200	2,510	e237	e121	e2,820	3,350	787	670	391	205	270
14	136	935	9,800	e227	e119	e2,820	3,530	743	977	265	168	277
15	157	767	6,290	e218	e118	e2,540	3,480	1,450	679	191	147	338
16	661	673	3,150	e209	e117	e2,130	2,620	2,340	473	152	170	683
17	857	715	e1,990	e198	e117	e1,780	2,110	2,260	651	136	184	577
18	643	1,540	e1,520	e194	e117	e1,880	2,490	1,830	1,310	150	155	419
19	462	1,470	e1,260	e194	e125	e2,190	2,210	1,470	1,750	133	128	326
20	353	1,070	e1,030	e190	e129	e2,080	1,960	1,160	1,250	111	121	268
21	293	830	e869	e186	e127	e1,770	1,690	1,010	813	123	104	233
22	303	665	e817	e181	e122	e1,440	1,500	883	568	203	253	205
23	295	620	e749	e176	e118	e1,180	1,410	722	444	182	493	192
24	256	707	e675	e172	e117	e1,020	1,450	654	356	140	344	191
25	222	673	e602	e168	e115	e885	1,630	614	415	116	243	194
26	215	e593	e558	e159	e114	e796	1,690	531	607	100	210	180
27	277	e526	e516	e159	e113	e690	2,040	475	517	110	169	161
28	893	e470	e498	e155	e112	e643	2,120	875	404	116	295	146
29	865	e419	e467	e152	---	e576	2,080	976	319	101	1,780	136
30	635	e378	e428	e148	---	e598	1,810	965	297	168	1,460	141
31	485	---	e405	e144	---	e635	---	752	---	247	863	---
Total	11,677	29,842	50,086	7,402	3,474	39,059	51,920	35,646	16,870	5,956	10,468	12,809
Mean	377	995	1,616	239	124	1,260	1,731	1,150	562	192	338	427
Max	893	3,780	9,800	433	141	2,820	3,530	2,340	1,750	450	1,780	1,450
Min	130	273	352	144	112	110	638	475	217	100	104	136
Cfsm	1.47	3.87	6.29	0.93	0.48	4.90	6.73	4.47	2.19	0.75	1.31	1.66
In.	1.69	4.32	7.25	1.07	0.50	5.65	7.52	5.16	2.44	0.86	1.52	1.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	526	1,006	788	411	223	621	1,664	799	424	271	211	158
Max	1,449	1,266	1,616	967	423	1,260	2,506	1,150	562	569	520	427
(WY)	(2006)	(2006)	(2011)	(2006)	(2006)	(2011)	(2008)	(2011)	(2011)	(2009)	(2008)	(2011)
Min	123	737	380	239	99.8	313	833	240	182	82.7	20.0	47.9
(WY)	(2008)	(2010)	(2008)	(2011)	(2007)	(2008)	(2006)	(2010)	(2007)	(2010)	(2010)	(2006)

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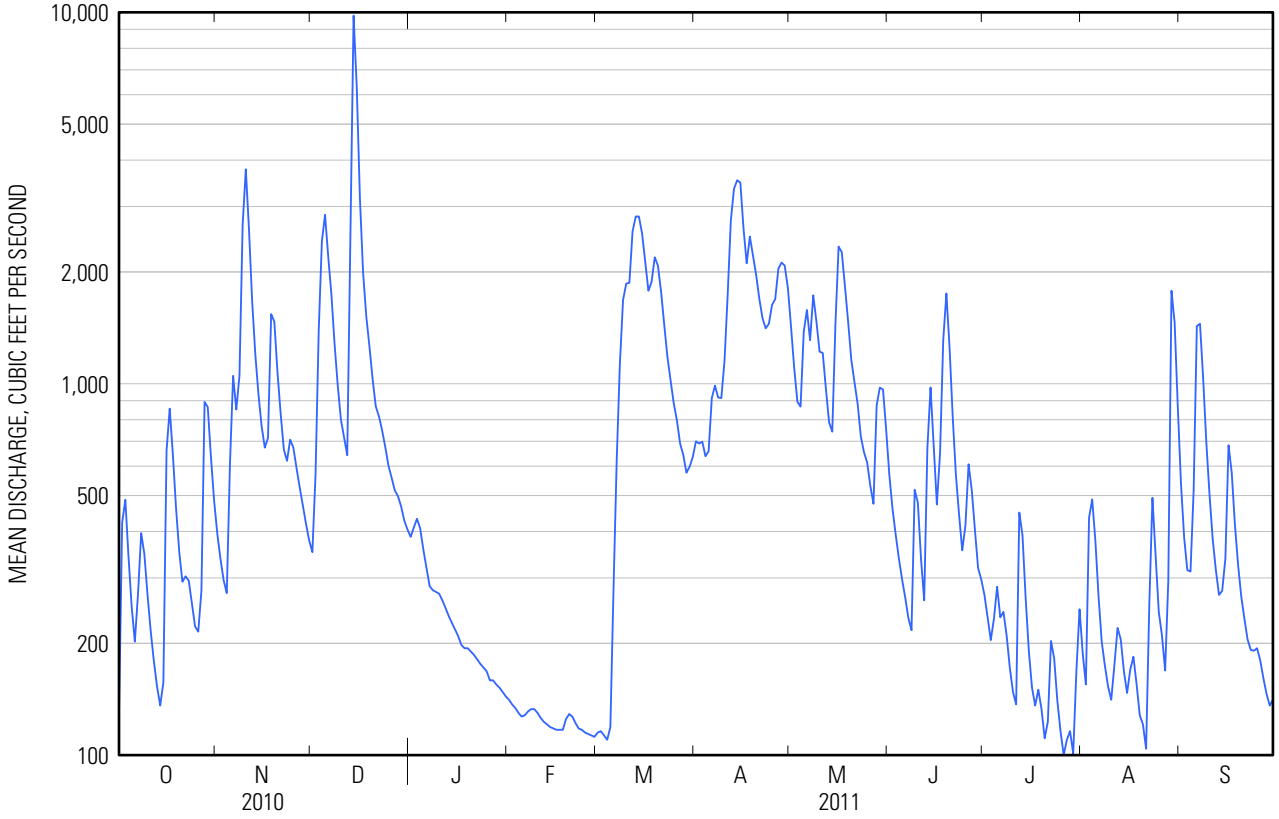
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2005 - 2011	
Annual total	199,584.8		275,209			
Annual mean	547		754		595	
Highest annual mean					754	2011
Lowest annual mean					435	2010
Highest daily mean	9,800	Dec 14	9,800	Dec 14	9,800	Dec 14, 2010
Lowest daily mean	9.8	Sep 3	100	Jul 26	9.8	Sep 3, 2010
Annual seven-day minimum	13	Aug 28	113	Feb 26	13	Aug 28, 2010
Maximum peak flow			10,800	Dec 14	10,800	Dec 14, 2010
Maximum peak stage			12.26	Dec 14	12.26	Dec 14, 2010
Instantaneous low flow			90	Jul 30	8.7	Sep 3, 2010
Annual runoff (cfsm)	2.13		2.93		2.32	
Annual runoff (inches)	28.89		39.84		31.46	
10 percent exceeds	1,160		1,820		1,430	
50 percent exceeds	295		423		319	
90 percent exceeds	37		130		74	



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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Seasonal records, July 2005 to September 2006. pH: Seasonal records, July 2005 to September 2006. WATER TEMPERATURE: Seasonal records, July 2005 to September 2006, July 2011 to September 2011. DISSOLVED OXYGEN: Seasonal records, July 2005 to September 2006.

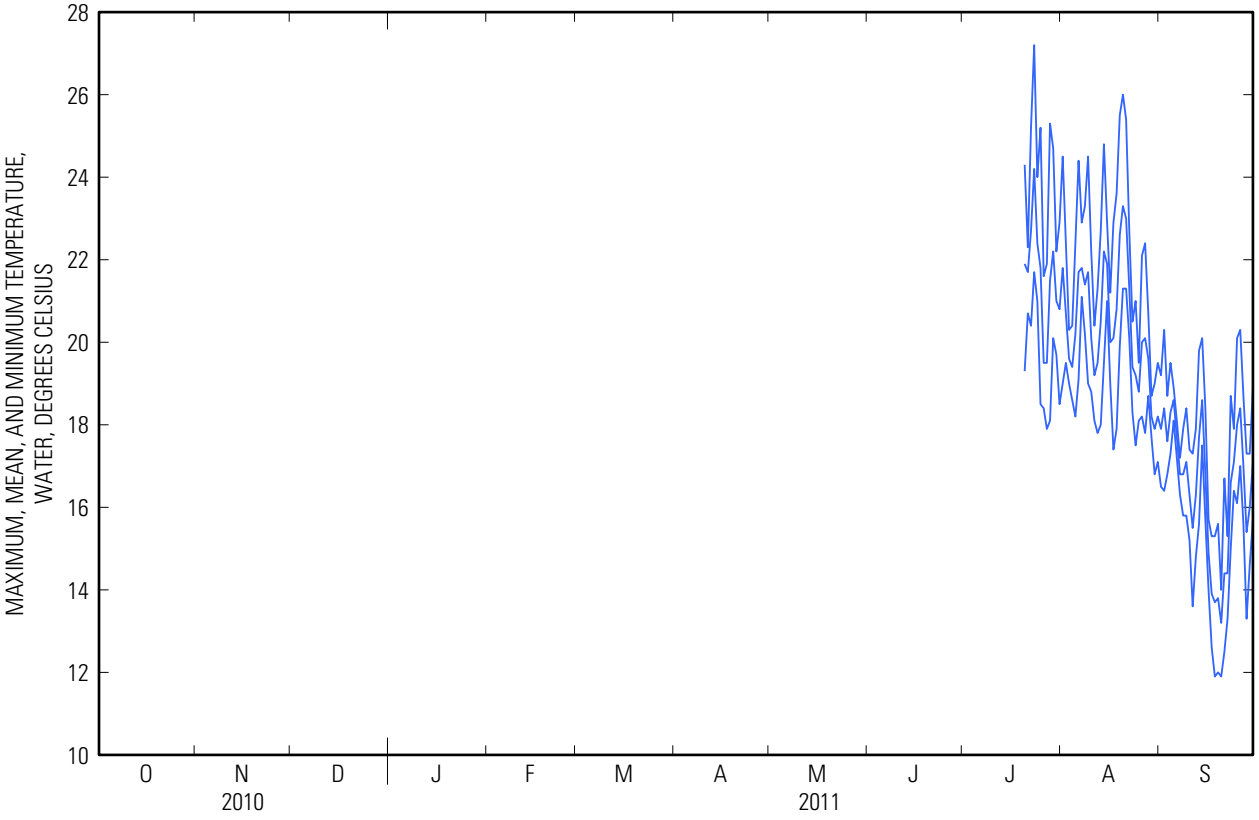
INSTRUMENTATION.--In-situ thermistor located on left bank 70 feet streamward of gage house and about 0.5 feet above river bed.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 328 microsiemens/cm, Aug. 19-23, and 29, 2005; minimum, 121 microsiemens/cm, Sept. 2-3, 2005. pH: Maximum, 8.8 standard units, July 19, 21, 2005, and Sept. 28, 2006; minimum, 7.4 standard units, Sept. 1-2, 2005. WATER TEMPERATURE: Maximum, 29.6°C, Aug. 9-10, 2005; minimum, 9.4°C, Sept. 27, 2006. DISSOLVED OXYGEN: 14.3 mg/L, Sept. 30, 2006; minimum, 6.3 mg/L, July 20, 2005, and Aug. 3, 2006.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	---	---	---	---	---	---	24.5	19.0	21.8	19.2	16.5	17.9
2	---	---	---	---	---	---	22.4	19.5	20.7	20.3	16.4	18.4
3	---	---	---	---	---	---	20.3	19.0	19.6	18.7	16.8	17.6
4	---	---	---	---	---	---	20.4	18.6	19.4	19.5	17.3	18.3
5	---	---	---	---	---	---	22.4	18.2	20.2	18.9	18.1	18.6
6	---	---	---	---	---	---	24.4	19.1	21.7	18.1	17.2	17.7
7	---	---	---	---	---	---	22.9	21.1	21.8	17.2	16.3	16.8
8	---	---	---	---	---	---	23.3	20.2	21.4	17.9	15.8	16.8
9	---	---	---	---	---	---	24.5	19.0	21.7	18.4	15.8	17.1
10	---	---	---	---	---	---	22.2	18.8	20.1	17.4	15.2	16.3
11	---	---	---	---	---	---	20.4	18.1	19.2	17.3	13.6	15.5
12	---	---	---	---	---	---	21.3	17.8	19.5	17.9	14.8	16.3
13	---	---	---	---	---	---	22.7	18.0	20.5	19.8	15.6	17.7
14	---	---	---	---	---	---	24.8	19.5	22.2	20.1	17.5	18.6
15	---	---	---	---	---	---	22.9	21.0	21.9	18.4	15.7	16.8
16	---	---	---	---	---	---	21.2	19.0	20.0	15.7	14.0	14.9
17	---	---	---	---	---	---	22.9	17.4	20.1	15.3	12.6	13.9
18	---	---	---	---	---	---	23.6	17.9	20.8	15.3	11.9	13.7
19	---	---	---	---	---	---	25.5	19.9	22.6	15.6	12.0	13.8
20	---	---	---	24.3	19.3	21.9	26.0	21.3	23.3	14.0	11.9	13.2
21	---	---	---	22.3	20.7	21.7	25.4	21.3	23.0	16.7	12.5	14.4
22	---	---	---	25.2	20.4	22.7	22.7	20.1	21.3	15.3	13.3	14.4
23	---	---	---	27.2	21.7	24.2	20.5	18.3	19.4	18.7	15.0	16.6
24	---	---	---	24.0	21.0	22.4	21.0	17.5	19.2	17.9	16.4	17.1
25	---	---	---	25.2	18.5	21.8	19.5	18.1	18.8	20.1	16.1	18.0
26	---	---	---	21.6	18.4	19.5	22.1	18.2	20.0	20.3	17.0	18.4
27	---	---	---	21.9	17.9	19.5	22.4	17.8	20.1	18.7	15.6	17.0
28	---	---	---	25.3	18.1	21.5	20.7	18.7	19.6	17.3	13.3	15.4
29	---	---	---	24.7	20.1	22.2	18.7	17.7	18.2	17.3	14.6	16.0
30	---	---	---	22.2	19.7	21.0	19.0	16.8	17.9	18.9	15.7	17.1
31	---	---	---	22.9	18.5	20.8	19.5	17.1	18.2	---	---	---
Month	---	---	---	---	---	---	26.0	16.8	20.5	20.3	11.9	16.5

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