01018000 MEDUXNEKEAG RIVER NEAR HOULTON, ME

St. John Basin
Meduxnekeag Subbasin

LOCATION.--Lat 46°06′18″, long 67°52′00″ referenced to North American Datum of 1983, Aroostook County, ME, Hydrologic Unit 01010005, on right bank 0.3 mi downstream from South Branch Meduxnekeag River and 2.0 mi upstream from Houlton.

DRAINAGE AREA.--175 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--
DISCHARGE: October 1940 to September 1982, October 2003 to current year. October 1940 monthly discharge only, published in WSP 1301.
MISCELLAENOUS MEASUREMENTS: 1999-2002.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 333.92 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 26 to Dec. 1, Dec. 9-12, and Dec. 18 to Apr. 10, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft^3/s, Dec. 14, 2010, gage height, 9.93 ft; maximum gage height, 10.83 ft, Mar. 27, 1953 (backwater from ice); minimum discharge, 3.1 ft^3/s, Sept. 3, 2010.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 10	0745	2,610	6.22
Dec 14	1730	*7,160	*9.93
Mar 14	----	2,110[a]	----
Apr 15	0200	2,650	6.26

Minimum discharge, 50 ft^3/s, July 30, gage height, 2.68 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 01018000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01018000.2011.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	85	290	e245	e275	e89	e72	e507	1,080	401	167	132	405
2	276	245	404	e284	e86	e72	e532	832	324	145	107	286
3	316	214	888	e303	e84	e70	e530	667	274	125	393	232
4	226	195	1,500	e286	e82	e68	e480	633	234	132	397	228
5	164	425	1,940	e246	e80	e74	e495	929	202	171	302	396
6	133	721	1,510	e219	e80	e177	e676	1,100	177	148	207	1,060
7	188	614	1,170	e194	e84	e422	e734	942	155	159	152	1,180
8	269	749	887	e185	e84	e810	e690	1,180	142	136	124	823
9	237	1,690	e686	e185	e82	e1,240	e687	1,070	237	106	107	540
10	185	2,470	e586	e181	e82	e1,390	e828	866	250	89	98	381
11	145	1,840	e501	e173	e79	e1,390	1,220	824	197	82	126	292
12	117	1,190	e419	e166	e77	e1,860	1,810	685	156	244	171	236
13	99	852	1,400	e162	e76	e2,090	2,280	554	398	240	158	201
14	87	666	6,270	e154	e74	e2,110	2,370	521	597	169	122	200
15	100	543	4,660	e145	e74	e1,860	2,430	989	440	117	101	256
16	403	476	2,290	e135	e73	e1,550	1,930	1,640	321	91	112	502
17	559	499	1,520	e130	e73	e1,320	1,550	1,690	409	81	124	446
18	446	984	e1,140	e126	e73	e1,360	1,730	1,370	715	89	103	326
19	325	1,010	e912	e126	e79	e1,600	1,600	1,120	1,050	77	88	247
20	247	752	e739	e125	e81	e1,540	1,440	880	815	63	82	203
21	204	583	e654	e121	e79	e1,310	1,270	759	525	68	68	174
22	211	469	e627	e116	e76	e1,090	1,140	658	361	127	189	150
23	204	436	e557	e113	e74	e904	1,060	532	278	107	376	138
24	176	487	e486	e110	e73	e778	1,080	480	218	82	273	139
25	152	468	e425	e106	e72	e668	1,190	449	260	66	194	143
26	146	e418	e386	e101	e71	e587	1,230	389	392	57	158	128
27	198	e366	e358	e101	e70	e514	1,460	346	340	59	122	113
28	615	e333	e347	e100	e70	e472	1,560	625	264	64	230	101
29	610	e291	e331	e97	---	e430	1,500	709	204	56	1,220	93
30	467	e263	e310	e94	---	e443	1,340	671	186	106	1,140	98
31	357	---	e287	e91	---	e469	---	530	---	167	668	---
Total	7,947	20,539	34,435	4,950	2,177	28,740	37,349	25,720	10,522	3,590	7,844	9,717
Mean	256	685	1,111	160	77.8	927	1,245	830	351	116	253	324
Max	615	2,470	6,270	303	89	2,110	2,430	1,690	1,050	244	1,220	1,180
Min	85	195	245	91	70	68	480	346	142	56	68	93
Cfsm	1.46	3.91	6.35	0.91	0.44	5.30	7.11	4.74	2.00	0.66	1.45	1.85
In.	1.69	4.37	7.32	1.05	0.46	6.11	7.94	5.47	2.24	0.76	1.67	2.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	206	380	323	170	152	280	1,086	608	224	117	95.4	113
Max	1,006	999	1,111	682	618	1,234	1,815	1,775	685	430	502	711
(WY)	(2006)	(1964)	(2011)	(2006)	(1981)	(1979)	(1976)	(1961)	(1977)	(1951)	(1954)	(1954)
Min	17.2	24.2	11.7	20.7	17.6	43.5	269	166	62.6	29.4	8.44	5.93
(WY)	(1947)	(1956)	(1956)	(1948)	(1944)	(1967)	(1967)	(2010)	(1968)	(1971)	(1952)	(1953)

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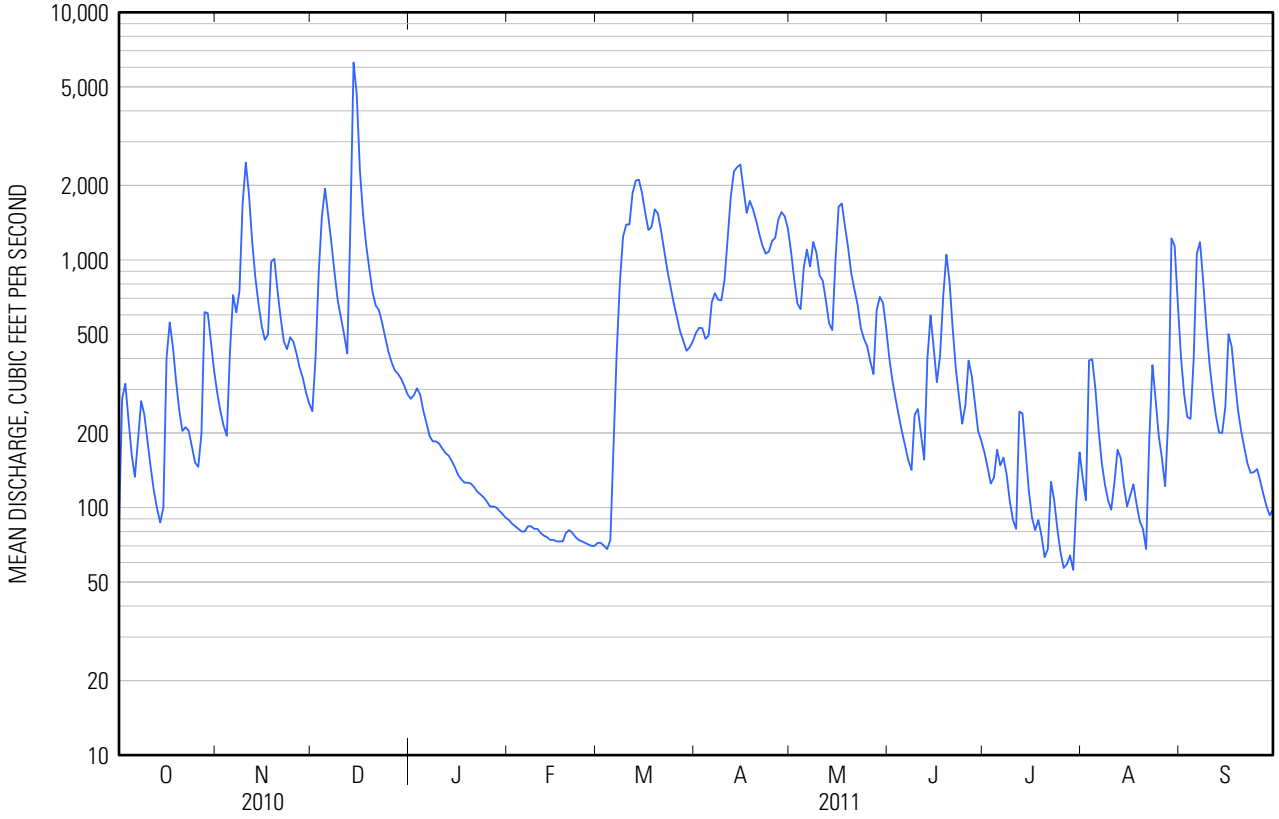
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1941 - 2011	
Annual total	136,344.4		193,530			
Annual mean	374		530		315	
Highest annual mean					530	2011
Lowest annual mean					152	1957
Highest daily mean	6,270	Dec 14	6,270	Dec 14	6,270	Dec 14, 2010
Lowest daily mean	3.7	Sep 3	56	Jul 29	3.7	Sep 6, 1953
Annual seven-day minimum	5.5	Aug 20	70	Jul 24	4.4	Sep 5, 1960
Maximum peak flow			7,160	Dec 14	7,160	Dec 14, 2010
Maximum peak stage			9.93	Dec 14	10.83	Mar 27, 1953
Instantaneous low flow			50	Jul 30	3.1	Sep 3, 2010
Annual runoff (cfsm)	2.13		3.03		1.80	
Annual runoff (inches)	28.98		41.14		24.45	
10 percent exceeds	824		1,350		800	
50 percent exceeds	202		290		144	
90 percent exceeds	21		82		25