



Water-Data Report 2007

01034000 PISCATAQUIS RIVER AT MEDFORD, ME

Penobscot Basin
Piscataquis Subbasin

LOCATION.--Lat 45°15'38", long 68°52'07" referenced to North American Datum of 1983, Piscataquis County, ME, Hydrologic Unit 01020004, on left bank 2.0 mi southwest of Medford, and 3.3 mi downstream from Pleasant River.

DRAINAGE AREA.--1,162 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: June 1924 to September 1982, October 1989 to current year.

REVISED RECORDS.--WSP 1231: 1936. WSP 1301: 1925-29(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 14, 1929, nonrecording gage at site 1.8 mi downstream at different datum.

REMARKS.--Records good, except for periods of ice effect, Dec. 29 to Jan. 5, and Jan. 10 to Apr. 15, which are poor. Flow regulated by Sebec Lake, 15 mi upstream, and other small reservoirs and power plants above station, usable capacity about 2.511 billion ft³. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,100 ft³/s, Nov. 4, 1966, gage height, 15.58 ft; minimum discharge, 77 ft³/s, Sept. 20, 2001, gage height, 1.10 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1, 1923 reached a stage of 20.8 ft, former site and datum, discharge not determined. Maximum discharge since at least 1923, 85,000 ft³/s, Apr. 1, 1987, gage height 18.65 ft, present datum, from floodmarks, from rating curve extended above 32,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 21	2300	15,100	8.14
Oct 30	0045	*27,500	*10.66
Nov 15	1100	14,900	8.10
Nov 18	0715	22,500	9.72
Apr 25	1000	24,900	10.19

Minimum discharge, 143 ft³/s, Sept. 26-28, gage height, 1.36 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	1,430	8,960	2,810	e1,640	e912	e518	e1,750	13,600	1,230	418	304	321
2	1,220	7,120	4,650	e1,550	e892	e517	e1,670	12,000	1,130	376	279	318
3	1,370	6,180	4,580	e1,490	e866	e540	e1,580	10,300	1,190	350	264	290
4	1,270	5,210	3,640	e1,440	e906	e553	e1,490	8,920	1,170	394	258	267
5	1,180	4,320	3,100	e1,450	e860	e556	e1,420	7,880	2,950	361	237	241
6	1,060	3,630	2,530	1,830	e822	e530	e1,350	7,130	4,730	338	232	219
7	1,010	3,510	2,680	3,550	e792	e500	e1,280	6,390	3,340	366	248	202
8	959	3,220	2,610	3,750	e760	e491	e1,220	5,920	2,550	382	282	193
9	915	3,620	2,250	3,500	e731	e491	e1,160	5,900	2,100	370	385	187
10	567	4,960	2,380	e3,060	e711	e518	e1,110	5,840	1,810	348	548	192
11	701	4,390	2,350	e2,640	e698	e560	e1,060	5,420	1,740	329	483	192
12	2,310	3,710	2,210	e2,320	e683	e625	e1,020	5,260	1,280	366	389	213
13	7,540	3,610	2,120	e2,070	e662	e708	e1,070	4,820	1,080	392	347	212
14	5,220	6,670	2,300	e1,920	e647	e788	e1,300	3,950	999	391	307	203
15	3,660	14,200	2,420	e1,810	e702	e877	e1,980	3,020	920	360	276	196
16	2,680	11,000	2,420	e1,710	e665	e974	3,630	3,170	801	326	258	196
17	2,050	12,400	2,450	e1,620	e613	e1,090	10,500	5,590	775	340	245	187
18	2,550	21,100	2,390	e1,550	e602	e1,220	13,600	5,740	755	367	239	179
19	3,600	14,600	2,260	e1,480	e588	e1,370	14,300	6,220	668	412	247	172
20	3,610	9,850	1,880	e1,420	e580	e1,510	14,500	6,130	507	470	235	165
21	11,000	7,440	1,790	e1,370	e568	e1,640	15,400	6,070	480	564	226	159
22	12,100	5,980	1,740	e1,310	e559	e1,760	17,100	5,590	570	658	218	158
23	7,990	5,030	1,760	e1,260	e552	e1,840	17,800	4,610	462	591	206	158
24	6,800	4,330	3,240	e1,210	e544	e1,910	21,700	3,890	424	498	214	152
25	5,820	3,740	3,550	e1,170	e538	e1,970	24,100	3,430	401	391	255	148
26	4,820	3,390	2,980	e1,130	e532	e2,000	19,000	3,100	385	358	302	146
27	4,040	3,090	2,830	e1,090	e527	e2,000	14,600	2,530	395	325	468	143
28	3,640	2,890	2,310	e1,040	e523	e2,000	12,700	1,680	449	300	412	157
29	18,900	2,740	e2,030	e1,010	---	e1,960	12,000	1,870	461	288	366	169
30	23,000	2,580	e1,870	e975	---	e1,910	13,000	1,440	457	294	345	174
31	13,000	---	e1,730	e946	---	e1,840	---	1,320	---	311	319	---
Total	156,012	193,470	79,860	54,311	19,035	35,766	244,390	168,730	36,209	12,034	9,394	5,909
Mean	5,033	6,449	2,576	1,752	680	1,154	8,146	5,443	1,207	388	303	197
Max	23,000	21,100	4,650	3,750	912	2,000	24,100	13,600	4,730	658	548	321
Min	567	2,580	1,730	946	523	491	1,020	1,320	385	288	206	143
Cfsm	4.33	5.55	2.22	1.51	0.59	0.99	7.01	4.68	1.04	0.33	0.26	0.17
In.	4.99	6.19	2.56	1.74	0.61	1.15	7.82	5.40	1.16	0.39	0.30	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,740	2,716	2,378	1,459	1,363	2,303	7,207	4,664	1,900	1,066	771	923
Max	9,242	7,672	11,590	5,222	5,659	14,520	13,520	10,920	4,678	5,162	3,686	5,426
(WY)	(2006)	(1964)	(1974)	(2006)	(1970)	(1936)	(2005)	(1969)	(1931)	(1996)	(1954)	(1954)
Min	276	325	363	339	334	513	2,876	1,315	623	249	151	149
(WY)	(1936)	(2002)	(1930)	(1948)	(1980)	(1967)	(1981)	(1999)	(1941)	(1991)	(2001)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1924 - 2007	
Annual total	1,196,410		1,015,120			
Annual mean	3,278		2,781		2,374	
Highest annual mean					3,818	2006
Lowest annual mean					1,254	1957
Highest daily mean	23,000	Oct 30	24,100	Apr 25	52,900	Nov 4, 1966
Lowest daily mean	340	Sep 19	143	Sep 27	79	Sep 20, 2001
Annual seven-day minimum	517	Sep 14	152	Sep 22	90	Sep 16, 2001
Maximum peak flow			27,500	Oct 30	60,100	Nov 4, 1966
Maximum peak stage			10.66	Oct 30	15.58	Nov 4, 1966
Instantaneous low flow			143	Sep 26	77	Sep 20, 2001
Annual runoff (cfsm)	2.82		2.39		2.04	
Annual runoff (inches)	38.30		32.50		27.76	
10 percent exceeds	7,040		6,930		5,680	
50 percent exceeds	2,350		1,260		1,210	
90 percent exceeds	629		248		418	

