

Water-Data Report 2007

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME

Penobscot Basin
Lower Penobscot Subbasin

LOCATION.--Lat 45°14'10", long 68°39'05" referenced to North American Datum of 1983, Penobscot County, ME, Hydrologic Unit 01020005, on left bank 20 ft upstream from State Route 6/155 highway bridge, 1,000 ft downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,671, including 249 mi² drained by Chamberlain Lake through Telos Canal.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: November 1901 to current year. Daily gage height and monthly discharge only for November 1901 to September 1902. Prior to 1904, published as "at Montague."

REVISED RECORDS.--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WDR 81-1: Drainage area. WDR ME-97-1: 1992(M).

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1912, nonrecording gage 50 ft downstream at same datum. Dec. 11, 1912 to June 24, 1998, water-stage recorder at site 50 ft downstream at same datum.

REMARKS.--Records good, except for periods of ice effect, Dec. 7-23, and Dec. 28 to Apr. 16, which are poor. Flow regulated by many reservoirs above station, combined capacity about 54.336 billion ft³. Telephone and satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft³/s, May 1, 1923, gage height, 25.15 ft; minimum daily discharge, 1,630 ft³/s, Oct. 29, 1905.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71,800 ft³/s, Apr. 25, gage height, 15.66 ft; minimum daily discharge, 3,810 ft³/s, Aug. 23.

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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	7,670	29,500	17,000	e9,750	e8,610	e6,040	e16,800	52,100	13,000	5,920	4,330	4,580
2	7,560	25,300	21,200	e10,600	e8,550	e5,940	e16,000	49,500	12,200	5,360	4,090	4,700
3	7,230	22,900	23,500	e11,200	e8,570	e6,330	e15,200	45,400	11,900	5,620	4,490	4,450
4	7,570	20,200	21,500	e10,700	e8,290	e6,110	e14,300	41,600	11,900	5,100	4,410	5,220
5	7,330	17,300	19,500	e10,500	e8,120	e6,650	e13,500	37,300	12,900	5,560	4,530	5,060
6	6,860	15,900	15,800	e11,700	e7,940	e6,970	e13,100	33,300	16,800	5,170	4,220	4,920
7	5,420	15,000	e14,700	e16,400	e7,850	e6,770	e12,400	31,000	15,500	5,610	4,110	4,710
8	5,910	14,400	e14,800	e18,500	e7,860	e7,060	e12,000	30,300	13,000	5,700	4,630	4,820
9	6,580	15,600	e13,500	e18,800	e7,900	e6,980	e11,300	30,500	11,400	5,190	4,990	4,720
10	6,500	19,500	e13,200	e18,300	e7,750	e6,900	e10,700	33,000	10,700	5,310	5,210	4,880
11	5,890	19,900	e13,100	e15,800	e7,540	e6,870	e10,400	34,100	10,200	5,520	5,180	4,780
12	7,520	18,800	e11,600	e14,500	e7,340	e7,160	e10,500	34,400	9,580	5,300	5,060	4,470
13	18,300	19,300	e10,700	e14,500	e7,200	e7,200	e10,900	33,300	8,300	5,500	4,760	4,710
14	16,500	26,300	e10,900	e12,700	e7,390	e7,400	e11,400	30,300	7,990	5,530	4,500	4,590
15	12,600	45,900	e11,900	e11,800	e7,540	e7,770	e13,700	25,800	6,600	5,270	4,310	4,580
16	10,100	46,900	e12,200	e11,600	e7,580	e8,910	e15,900	23,300	6,520	5,310	4,010	4,430
17	8,900	46,400	e12,100	e11,000	e7,230	e10,500	30,500	26,800	6,060	5,120	4,310	4,260
18	8,600	61,300	e12,900	e10,800	e7,280	e13,300	40,500	30,500	6,040	5,510	4,330	4,420
19	10,300	54,500	e12,200	e10,800	e7,090	e16,100	45,200	33,900	6,070	4,970	4,210	4,400
20	11,600	45,500	e11,400	e11,300	e6,800	e18,100	47,500	36,300	7,110	5,060	4,070	4,130
21	21,800	41,500	e10,200	e11,400	e7,070	e18,500	49,700	36,000	8,170	5,330	4,110	4,400
22	32,200	37,000	e10,400	e10,600	e7,000	e18,400	52,700	35,600	6,060	5,750	4,070	4,380
23	27,400	32,300	e10,400	e10,600	e6,710	e18,200	55,200	32,200	4,680	5,170	3,810	4,210
24	24,700	27,900	13,700	e10,300	e6,680	e18,700	62,000	28,000	4,670	5,110	3,890	4,270
25	22,600	24,100	15,900	e10,200	e6,540	e19,300	70,100	22,400	6,140	4,870	4,090	4,450
26	20,600	22,100	15,300	e9,950	e6,400	e20,100	66,900	20,200	5,880	4,790	4,930	4,240
27	18,200	19,600	15,000	e9,710	e6,110	e19,500	60,700	17,700	5,580	4,370	5,590	4,370
28	16,700	17,700	e13,000	e9,470	e6,060	e19,400	57,300	15,800	5,680	4,480	4,430	4,610
29	31,400	17,500	e11,900	e9,270	---	e20,400	54,200	15,600	6,380	4,400	4,290	4,540
30	48,500	16,200	e11,400	e9,040	---	e18,900	52,900	14,700	5,830	4,410	4,430	4,510
31	37,100	---	e9,980	e8,820	---	e17,800	---	13,700	---	4,460	4,490	---
Total	480,140	836,300	430,880	370,610	207,000	378,260	953,500	944,600	262,840	160,770	137,880	136,810
Mean	15,490	27,880	13,900	11,960	7,393	12,200	31,780	30,470	8,761	5,186	4,448	4,560
Max	48,500	61,300	23,500	18,800	8,610	20,400	70,100	52,100	16,800	5,920	5,590	5,220
Min	5,420	14,400	9,980	8,820	6,060	5,940	10,400	13,700	4,670	4,370	3,810	4,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8,769	12,060	10,880	8,177	7,494	11,010	29,550	23,660	11,670	7,689	6,423	6,616
Max	34,350	33,340	34,680	25,140	21,960	46,110	51,060	46,430	38,660	24,490	17,460	27,130
(WY)	(2006)	(2006)	(1974)	(2006)	(1970)	(1936)	(2000)	(1974)	(1917)	(1996)	(1976)	(1954)
Min	2,255	2,629	3,411	2,890	1,799	2,449	14,490	9,163	4,079	4,028	3,229	3,187
(WY)	(1904)	(1906)	(1909)	(1904)	(1904)	(1911)	(1926)	(1999)	(1988)	(1991)	(2001)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1903 - 2007	
Annual total	5,976,160		5,299,590			
Annual mean	16,370		14,520		12,000	
Highest annual mean					19,380	2006
Lowest annual mean					6,382	1911
Highest daily mean	61,300	Nov 18	70,100	Apr 25	152,000	May 1, 1923
Lowest daily mean	4,450	Sep 3	3,810	Aug 23	1,630	Oct 29, 1905
Annual seven-day minimum	5,030	Aug 30	4,040	Aug 19	1,700	Feb 11, 1904
Maximum peak flow			71,800	Apr 25	153,000	May 1, 1923
Maximum peak stage			15.66	Apr 25	25.15	May 1, 1923
10 percent exceeds	31,800		33,100		25,700	
50 percent exceeds	13,700		10,300		7,800	
90 percent exceeds	6,110		4,470		4,520	

