



Water-Data Report 2007

01027200 NORTH BRANCH PENOBSCOT RIVER NEAR PITTSTON FARM, ME

Penobscot Basin
West Branch Penobscot Subbasin

LOCATION.--Lat 45°56'07", long 69°59'37" referenced to North American Datum of 1983, Somerset County, ME, Hydrologic Unit 01020001, on left bank, and 500 ft upstream of Leadbetter Falls.

DRAINAGE AREA.--232 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: September 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,086.20 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for period of ice effect, Nov. 25 to Apr. 25, which is poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s, Oct. 21, 2006, gage height, 10.22 ft, from rating curve extended above 6,000 ft³/s; maximum gage height, 12.14 ft, Apr. 8, 2005 (backwater from ice); minimum discharge, 5.6 ft³/s, Sept. 10-11, 2002, gage height, 3.29 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 21	0945	*11,700 ^a	10.22
Dec 24	0730	Ice Jam	*10.83
Apr 24	---	5,980 ^b	---
May 1	0215	4,720	7.99

Minimum discharge, 30 ft³/s, Sept. 26-27, gage height, 3.75 ft.

^a From rating curve extended above 6,000 ft³/s

^b Estimated

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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	95	1,270	e414	e135	e88	e50	e142	4,400	292	364	73	145
2	109	1,050	e400	e130	e86	e50	e133	3,550	273	248	60	111
3	124	814	e330	e127	e88	e49	e125	2,810	267	192	70	92
4	124	654	e279	e124	e93	e49	e119	2,600	246	152	295	78
5	224	539	e229	e124	e94	e48	e115	2,590	473	127	294	66
6	230	472	e212	e338	e91	e50	e110	2,310	733	114	193	57
7	184	438	e243	e687	e84	e49	e106	2,190	541	100	296	55
8	151	456	e216	e745	e76	e48	e102	2,460	379	90	364	53
9	128	618	e310	e694	e71	e48	e98	2,670	300	83	724	49
10	112	627	e306	e572	e66	e47	e96	2,290	286	131	515	46
11	98	536	e280	e467	e62	e47	e94	2,020	234	122	347	43
12	410	948	e262	e385	e59	e46	e92	1,740	192	635	242	53
13	937	1,200	e254	e327	e57	e47	e91	1,280	167	658	224	62
14	701	1,130	e272	e289	e55	e50	e91	926	138	468	195	51
15	514	1,240	e272	e257	e54	e62	e90	721	115	318	155	57
16	390	1,040	e265	e234	e54	e76	e90	926	97	275	137	157
17	322	1,080	e256	e215	e54	e98	e91	1,590	85	209	128	125
18	571	1,220	e230	e200	e55	e122	e106	1,500	80	156	124	94
19	1,000	950	e195	e187	e56	e147	e156	1,260	67	127	112	74
20	1,360	743	e163	e174	e58	e174	e267	1,160	71	142	94	61
21	8,080	594	e152	e163	e61	e176	e618	1,260	166	558	78	53
22	4,940	490	e139	e154	e63	e172	e1,370	1,040	134	428	66	47
23	2,550	425	e153	e144	e62	e186	e3,000	787	101	280	57	43
24	1,610	382	e334	e135	e60	e203	e5,980	616	81	191	63	38
25	1,190	e326	e389	e126	e57	e210	e5,610	498	65	141	117	34
26	932	e300	e302	e119	e55	e196	4,180	405	57	111	744	31
27	738	e287	e249	e112	e53	e179	3,370	331	111	91	589	36
28	679	e278	e203	e105	e52	e166	3,090	402	623	84	333	403
29	2,800	e261	e174	e100	---	e159	3,030	382	830	127	216	425
30	2,320	e255	e154	e94	---	e158	3,710	316	590	118	169	299
31	1,470	---	e141	e90	---	e151	---	330	---	93	178	---
Total	35,093	20,623	7,778	7,753	1,864	3,313	36,272	47,360	7,794	6,933	7,252	2,938
Mean	1,132	687	251	250	66.6	107	1,209	1,528	260	224	234	97.9
Max	8,080	1,270	414	745	94	210	5,980	4,400	830	658	744	425
Min	95	255	139	90	52	46	90	316	57	83	57	31
Cfsm	4.88	2.96	1.08	1.08	0.29	0.46	5.21	6.59	1.12	0.96	1.01	0.42
In.	5.63	3.31	1.25	1.24	0.30	0.53	5.82	7.59	1.25	1.11	1.16	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	501	517	405	247	86.3	198	1,610	758	358	238	214	114
Max	1,161	937	801	671	247	353	2,486	1,528	468	371	519	245
(WY)	(2006)	(2006)	(2004)	(2006)	(2006)	(2006)	(2005)	(2007)	(2002)	(2002)	(2004)	(2005)
Min	76.0	112	142	55.6	37.2	57.1	1,209	525	239	94.9	45.3	22.4
(WY)	(2002)	(2002)	(2003)	(2002)	(2003)	(2005)	(2007)	(2002)	(2004)	(2003)	(2002)	(2003)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2001 - 2007	
Annual total	198,330		184,973			
Annual mean	543		507		438	
Highest annual mean					582	2006
Lowest annual mean					299	2003
Highest daily mean	8,080	Oct 21	8,080	Oct 21	8,080	Oct 21, 2006
Lowest daily mean	57	Sep 23	31	Sep 26	5.9	Sep 10, 2002
Annual seven-day minimum	64	Sep 18	40	Sep 21	6.9	Sep 4, 2002
Maximum peak flow			11,700	Oct 21	11,700	Oct 21, 2006
Maximum peak stage			10.83	Dec 24	12.14	Apr 8, 2005
Instantaneous low flow			30	Sep 26	5.6	Sep 10, 2002
Annual runoff (cfsm)	2.34		2.18		1.89	
Annual runoff (inches)	31.80		29.66		25.68	
10 percent exceeds	1,250		1,230		1,070	
50 percent exceeds	294		184		183	
90 percent exceeds	99		56		44	

