



Water-Data Report 2007

01044550 SPENCER STREAM AT MOUTH, NEAR GRAND FALLS, ME

Kennebec Basin
Dead Subbasin

LOCATION.--Lat 45°18'07", long 70°13'26" referenced to North American Datum of 1983, Somerset County, ME, Hydrologic Unit 01030002, on left bank, in Township T3R5 BKP WKR, 0.2 mi above mouth, and 0.5 mi north of Grand Falls.

DRAINAGE AREA.--194 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: August 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1000 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, including periods of backwater from the Dead River, Oct. 7, May 26-27, June 2, 9, 17, 30, July 8, 28-29, Aug. 11-12, Sept. 2, 15, except for periods of doubtful stage-discharge relation from backwater from the Dead River, Oct. 30-31, Nov. 10-11, Dec. 2-3, May 2-24, and periods of ice effect, Dec. 5 to Jan. 7, and Jan. 12 to Apr. 20, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,810 ft³/s, Apr. 24, 2007, gage height, 7.29 ft; maximum gage height, 9.14 ft, Dec. 20, 2000 (backwater from ice); minimum discharge, 8.7 ft³/s, Sept. 10-11, 2002, gage height, 0.97 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)
Apr 24	2200	*5,810	*7.29

Minimum discharge, 35 ft³/s, Sept. 26-27, gage height, 1.30 ft.

01044550 SPENCER STREAM AT MOUTH, NEAR GRAND FALLS, ME—Continued

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	58	798	365	e175	e125	e90	e520	3,420	376	153	66	120
2	54	712	e593	e193	e122	e90	e571	e2,890	e344	127	57	e92
3	54	558	e466	e184	e120	e95	e520	e2,400	306	109	69	75
4	52	472	393	e178	e127	e99	e430	e1,990	301	95	124	69
5	58	410	e324	e176	e124	e96	e378	e1,670	638	92	106	58
6	74	378	e275	e429	e120	e93	e363	e1,440	925	98	96	48
7	e57	357	e281	e961	e116	e90	e330	e1,300	611	104	232	44
8	48	355	e270	637	e113	e87	e303	e1,300	430	e91	261	42
9	44	543	e238	487	e110	e86	e278	e1,380	e371	82	506	41
10	41	e670	e235	389	e108	e85	e257	e1,360	402	85	264	44
11	39	e522	e225	302	e107	e85	e242	e1,240	350	87	e180	47
12	254	512	e205	e271	e106	e84	e236	e1,100	285	554	e140	59
13	475	571	e202	e247	e105	e83	e252	e878	238	404	132	64
14	259	735	e212	e227	e107	e83	e266	e721	210	252	128	51
15	174	1,130	e213	e211	e110	e117	e249	e660	187	200	104	e67
16	134	878	e223	e200	e112	e381	e306	e1,090	166	242	99	179
17	113	1,220	e227	e192	e111	e544	e655	e3,120	e157	192	103	118
18	201	1,710	e243	e184	e109	e482	e850	e2,640	151	157	110	90
19	351	1,100	e238	e178	e106	e378	e955	e1,490	128	193	97	74
20	381	790	e209	e173	e103	e311	e1,190	e1,200	122	311	80	64
21	2,830	636	e191	e168	e100	e264	1,590	e1,400	143	421	70	58
22	1,990	534	e183	e163	e98	e226	2,040	e1,040	124	267	63	52
23	942	470	e226	e158	e96	e316	2,710	e840	111	185	55	48
24	759	434	e470	e153	e95	e638	5,120	e744	96	145	63	46
25	685	387	e408	e149	e94	e492	4,340	719	83	127	152	40
26	607	354	e342	e144	e93	e438	2,820	e636	83	112	200	36
27	466	336	e300	e140	e92	e455	2,410	e526	90	97	149	36
28	444	329	e251	e136	e91	e647	2,110	600	190	e88	107	85
29	1,880	308	e203	e133	---	e802	2,390	577	438	e94	85	108
30	e1,690	306	e188	e130	---	e706	2,850	445	e213	86	77	78
31	e1,010	---	e179	e127	---	e600	---	416	---	75	115	---
Total	16,224	18,515	8,578	7,595	3,020	9,043	37,531	41,232	8,269	5,325	4,090	2,033
Mean	523	617	277	245	108	292	1,251	1,330	276	172	132	67.8
Max	2,830	1,710	593	961	127	802	5,120	3,420	925	554	506	179
Min	39	306	179	127	91	83	236	416	83	75	55	36
Cfsm	2.70	3.18	1.43	1.26	0.56	1.50	6.45	6.86	1.42	0.89	0.68	0.35
In.	3.11	3.55	1.64	1.46	0.58	1.73	7.20	7.91	1.59	1.02	0.78	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	357	429	352	208	145	222	1,174	862	372	179	138	158
Max	965	932	913	404	276	514	1,771	1,330	700	229	371	612
(WY)	(2006)	(2006)	(2004)	(2006)	(2006)	(2000)	(2005)	(2007)	(2006)	(2002)	(2004)	(1999)
Min	49.4	65.1	105	60.1	60.1	115	810	544	202	115	33.5	34.8
(WY)	(2002)	(2002)	(2003)	(2002)	(2002)	(2001)	(2003)	(2004)	(2004)	(2003)	(2001)	(2002)

01044550 SPENCER STREAM AT MOUTH, NEAR GRAND FALLS, ME—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1999 - 2007	
Annual total	157,625		161,455			
Annual mean	432		442		379	
Highest annual mean					512	2006
Lowest annual mean					240	2002
Highest daily mean	3,250	Jun 11	5,120	Apr 24	5,120	Apr 24, 2007
Lowest daily mean	39	Oct 11	36	Sep 26	9.0	Sep 10, 2002
Annual seven-day minimum	49	Sep 23	45	Sep 21	10	Sep 5, 2002
Maximum peak flow			5,810	Apr 24	5,810	Apr 24, 2007
Maximum peak stage			7.29	Apr 24	9.14	Dec 20, 2000
Instantaneous low flow			35	Sep 26	8.7	Sep 10, 2002
Annual runoff (cfsm)	2.23		2.28		1.95	
Annual runoff (inches)	30.22		30.96		26.56	
10 percent exceeds	880		1,090		879	
50 percent exceeds	299		210		188	
90 percent exceeds	91		70		58	

