

Water-Data Report 2007

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

Maine Coastal Basin
St. Croix Subbasin

LOCATION.--Lat 45°10'21", long 67°46'08" referenced to North American Datum of 1983, Washington County, ME, Hydrologic Unit 01050001, on left bank at Big Falls, 0.5 mi southeast of village of Grand Lake Stream, and 0.8 mi downstream from outlet dam of Grand Lake.

DRAINAGE AREA.--227 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 1928 to current year. Monthly discharge only for October 1928 published in WSP 1301.

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-01-1: 1952, 1954, 1955(M), 1958(M), 1960, 1983(M), 1984(M), 1989(M).

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, including period of ice effect, Dec. 29-31. Flow completely regulated by Grand Lake, 0.8 mi upstream, and other lakes, combined usable capacity about 8.25 billion ft³. Telephone and satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,990 ft³/s, Dec. 2, 2005, gage height, 7.75 ft; minimum daily discharge, 5 ft³/s, Dec. 3-6, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,840 ft³/s, Apr. 25, gage height, 5.23 ft; minimum daily discharge, 112 ft³/s, Oct. 27.

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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	638	117	128	135	803	868	376	1,400	310	430	347	501
2	641	118	130	202	857	862	377	1,250	309	430	346	493
3	633	118	129	357	854	859	378	951	310	427	345	488
4	626	117	129	430	849	850	378	731	310	425	347	487
5	627	117	129	430	842	668	381	596	311	423	346	476
6	617	117	128	434	838	478	381	530	247	392	343	463
7	611	117	129	434	834	476	381	479	205	368	343	457
8	604	119	129	437	830	473	381	410	205	367	343	454
9	599	124	129	438	825	471	381	367	205	365	345	451
10	593	121	128	438	823	468	382	368	205	365	339	446
11	585	120	128	438	819	470	382	369	206	362	339	442
12	580	123	129	438	813	468	383	369	253	362	337	442
13	581	124	129	438	809	467	386	369	318	361	338	433
14	576	144	130	438	808	467	387	367	318	361	339	426
15	571	132	130	515	810	419	387	329	316	358	336	422
16	565	123	130	566	805	327	395	308	316	358	336	418
17	557	126	130	566	802	297	412	310	318	356	333	412
18	502	125	130	683	797	264	516	310	312	356	333	408
19	370	124	129	756	793	221	690	312	317	358	332	403
20	278	124	129	754	788	220	1,060	311	352	360	328	399
21	248	124	129	752	852	202	1,370	311	408	358	325	396
22	246	124	128	751	933	182	1,630	310	444	357	324	392
23	222	124	133	748	924	183	1,600	309	446	354	326	389
24	179	124	134	746	915	183	1,400	309	442	354	327	383
25	133	124	133	744	906	183	1,660	308	439	353	328	377
26	113	124	134	741	897	184	1,820	308	438	351	325	376
27	112	124	134	739	887	184	1,810	308	437	350	325	371
28	114	127	134	737	876	183	1,800	309	437	348	415	371
29	122	126	e136	732	---	183	1,780	310	437	347	510	371
30	117	126	e137	730	---	304	1,640	309	434	348	504	364
31	116	---	e138	729	---	376	---	309	---	349	501	---
Total	13,076	3,697	4,052	17,476	23,589	12,440	25,304	13,836	10,005	11,453	11,005	12,711
Mean	422	123	131	564	842	401	843	446	334	369	355	424
Max	641	144	138	756	933	868	1,820	1,400	446	430	510	501
Min	112	117	128	135	788	182	376	308	205	347	324	364

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	340	210	256	375	485	458	341	408	446	422	469	452
Max	890	666	1,405	1,096	1,330	1,117	1,248	1,377	1,159	843	1,173	933
(WY)	(1948)	(1982)	(2006)	(1970)	(1964)	(1960)	(1936)	(2005)	(1971)	(1959)	(1952)	(1942)
Min	84.5	39.4	20.3	87.8	47.5	39.4	49.7	17.7	54.9	102	129	103
(WY)	(1950)	(1946)	(1946)	(1932)	(1930)	(1930)	(1931)	(1931)	(1931)	(1942)	(1936)	(1949)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1929 - 2007	
Annual total	175,424		158,644			
Annual mean	481		435		389	
Highest annual mean					697	1960
Lowest annual mean					178	1931
Highest daily mean	1,770	Jan 24	1,820	Apr 26	3,900	Dec 3, 2005
Lowest daily mean	107	May 14	112	Oct 27	5.0	Dec 3, 1945
Annual seven-day minimum	111	May 24	116	Oct 26	6.4	Dec 1, 1945
Maximum peak flow			1,840	Apr 25	3,990	Dec 2, 2005
Maximum peak stage			5.23	Apr 25	7.75	Dec 2, 2005
10 percent exceeds	852		815		807	
50 percent exceeds	534		368		293	
90 percent exceeds	124		128		121	

