

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1998 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
MERRIMACK RIVER BASIN								
Pemigewasset River at Woodstock, NH (01075000)	Lat 43°58'34", Long 71°40'48", Grafton County, Hydrologic Unit 01070001, on right bank, 0.2 mi east of Woodstock and 0.7 mi upstream from Eastman Brook. Drainage area is 193 mi ² .	1940-77†, 1978-80, 1985-98	6-14-98	10.15	13,800	10-24-59	16.13	47,000
Baker River near Rumney, NH (01076000)	Lat 43°47'46", Long 71°50'42", Grafton County, Hydrologic Unit 01070001, on right bank, 200 ft upstream from small right bank tributary, 0.3 mi upstream from Halls Brook, and 1.8 mi southwest of Rumney. Drainage area is 143 mi ² .	1929-77†, 1978-81, 1985-98	6-27-98	8.69	5,770	6-15-42	15.50	21,400
Merrimack River at Franklin Junction, NH (01081500)	Lat 43°25'26", Long 71°39'12", Merrimack County, Hydrologic Unit 01070002, on right bank at Franklin Junction, 1 mi downstream from confluence of Pemigewasset and Winnepesaukee Rivers. Drainage area is 1,507 mi ² .	1903-78†, 1983-98	4-01-98	14.32	18,600	3-19-36	36.4	83,000
Contoocook River at Peterborough, NH (01082000)	Lat 42°51'45", Long 71°57'35", Hillsborough County, Hydrologic Unit 01070003, 1 mi south of Peterborough, and 1.5 mi upstream from Nubanusit Brook. Drainage area is 68.1 mi ² .	1945-77†, 1978-98	6-16-98	5.11	1,610	4-06-87	6.62	2,860
Nubanusit Brook below Edward Macdowell Dam near Peterborough, NH (01083000)	Lat 42°53'43", Long 71°59'13", Hillsborough County, Hydrologic Unit 01070003, on left bank 300 ft downstream from Edward Macdowell Reservoir, 2.2 mi northwest of Peterborough, and 2.7 mi upstream from mouth. Drainage area is 44.0 mi ² .	a1920-a31†, a1945-97, 1998-	4-02-98	5.87	664	4-11-31	a	1,130

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1998 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
MERRIMACK RIVER BASIN--Continued								
Contoocook River near Henniker, NH (01085000)	Lat 43°09'10", Long 71°51'24", Merrimack County, Hydrologic Unit 01070003, 0.6 mi downstream from Sand Brook and 2.5 mi southwest of Henniker. Drainage area is 368 mi ² .	1940-77‡, 1988-98	6-18-98	11.22	5,740	b 9-21-38	b 21.30	b 22,200
Contoocook River below Hopkinton Dam, at West Hopkinton, NH (01085500)	Lat 43°11'31", Long 71°44'51", Merrimack County, Hydrologic Unit 01070003, on right bank 400 ft downstream from covered bridge at West Hopkinton, 0.2 mi downstream from Hopkinton Dam, and 5.9 mi upstream from Warner River. Drainage area is 427 mi ² .	1903-07‡, 1963-89‡, 1990-98	3-12-98	8.25	5,140	4-08-87	10.89	7,530
Blackwater River near Webster, NH (01087000)	Lat 43°17'45", Long 71°41'46", Merrimack County, Hydrologic Unit 01070003, on left bank 0.2 mi west of Dingit corner, 2.4 mi downstream from Blackwater Dam, 2.5 mi southeast of Webster, and 6.5 mi upstream from mouth. Drainage area is 129 mi ² .	1918-20‡, 1927-89‡, 1990-98	4-07-98	6.84	2,030	3-19-36	11.78	11,000
Piscataquog River below Everett Dam near East Weare, NH (01090800)	Lat 43°05'29", Long 71°39'36", Hillsborough County, Hydrologic Unit 01070002, on right bank 500 ft downstream from Everett Dam and 1.4 mi southeast of East Weare. Drainage area is 63.1 mi ² .	1963-89‡, 1990-98	6-18-98	8.31	1,240	6-12-84	9.09	1,770
Piscataquog River near Goffstown, NH (01091500)	Lat 43°00'58", Long 71°33'03", Hillsborough County, Hydrologic Unit 01070002, 0.2 mi upstream from Harry Brook, 0.9 mi downstream from Glen Lake, and 2.5 mi east of Goffstown. Drainage area is 202 mi ² .	1939-78‡, 1983-98	3-10-98	8.93	4,090	4-06-87	11.28	7,600
Souhegan River at Merrimack, NH (01094000)	Lat 42°51'27", Long 71°30'24", Hillsborough County, Hydrologic Unit 01070002, at head of Wildcat Falls, 0.9 mi southwest of Merrimack, 1.5 mi upstream from mouth. Drainage area is 171 mi ² .	1909-76‡, 1979-98	3-10-98	7.83	3,600	3-19-36	16.2	16,900
CONNECTICUT RIVER BASIN								
Ompompanoosuc River at Union Village, VT (01141500)	Lat 43°47'23", Long 72°15'19", Orange County, Hydrologic Unit 01080103, on right bank 800 ft upstream from covered bridge at Union Village, 200 ft downstream from Avery Brook, 700 ft downstream from Union Village Reservoir, and 4.0 mi upstream from mouth. Drainage area is 130 mi ² .	1940-89‡, 1990-98	4-06-98	9.97	2,360	6-03-47	a	4,800

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Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1998 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
CONNECTICUT RIVER BASIN--Continued								
Mascoma River at West Canaan, NH (01145000)	Lat 43°39'00", Long 72°04'50", Grafton County, Hydrologic Unit 01080104, on right bank 45 ft downstream from Boston and Maine Railroad bridge, 0.9 mi east of West Canaan, 1.2 mi downstream from Indian River, 3.5 mi west of Canann and at mile 19.3. Drainage area is 80.5 mi ² .	1939- 78†, 1985-98	6-27-98	8.59	3,420	3-27-53 b 9-22-38	8.94 9.60	3,780 4,320
Black River at North Spring- field, VT (01153000)	Lat 43°20'00", Long 72°30'55", Windsor County, Hydrologic Unit 01080106, on right bank, 800 ft downstream from North Springfield Dam, 1,300 ft upstream from Great Brook, and 8.1 mi upstream from mouth. Drainage area is 158 mi ² .	1929- 89†, 1990-98	04-06-98	7.93	4,150	9-22-38	17.68	15,500

† Operated as a continuous-record gaging station.

a At different site and datum.

b Extreme outside period of record.

Miscellaneous Sites

Discharge measurements in the following table were made at miscellaneous sites throughout New Hampshire and Vermont.

Discharge measurements made at miscellaneous sites

Stream	Tributary to	Location	Drainage area (mi ²)	Measured pre-viously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
SACO RIVER BASIN						
01064795 Cold River	Bearcamp River	Lat 43°50'11", Long 71°21'02", Carroll County, Hydrologic Unit 01060002, at State Route 113 bridge, 0.6 mi southeast of Miles Pond, 0.8 mi upstream of the confluence with the Bearcamp River, and, 2.5 mi northwest of South Tamworth.	--	--	6-14-98	2,940
					6-14-98	4,450
					6-14-98	3,790
					6-15-98	1,220
					6-15-98	1,230
01065000 Ossipee River	Saco River	Lat 43°47'46", Long 71°03'25", Carroll County, Hydrologic Unit 01060002, at State Route 153 bridge at Effingham Falls, 0.3 mi downstream of the streamgage, 0.4 mi downstream from the outlet of Ossipee Lake (Berry Bay), and 4 mi northwest of Effingham.	330	1924-90†	6-15-98	5,920
					6-15-98	6,220
					6-16-98	6,460
					6-16-98	6,910
					6-17-98	7,310
					6-17-98	7,690
					6-18-98	6,900
					6-18-98	6,850
					6-19-98	5,870
6-19-98	5,960					
PISCATAQUA RIVER BASIN						
01073320 Lamprey River	Great Bay	Lat 43°01'36", Long 71°10'02", Rockingham County, Hydrologic Unit 01060003, at State Route 107 bridge, 0.5 mi south of the interchange at State Route 101, 0.6 mi upstream of Dead Pond, and 1.0 mi southeast of Raymond.	--	--	10-21-96	879
					10-21-96	1,200
					10-21-96	1,560
					10-21-96	1,990
					10-23-96	1,620
					10-24-96	804
					10-24-96	716
12-03-96	814					
MERRIMACK RIVER BASIN						
01075000 Pemigewasset River	Merrimack River	Lat 43°58'34", Long 71°40'48", Grafton County, Hydrologic Unit 01070001, 0.2 mi east of Woodstock and 0.7 mi upstream from Eastman Brook.	193	1940-77‡, 1978-97	4-08-98	798
					6-11-98	190
01076000 Baker River	Pemigewasset River	Lat 43°47'46", Long 71°50'42", Grafton County, Hydrologic Unit 01070001, 0.3 mi upstream from Halls Brook, and 1.8 mi southwest of Rumney, NH.	143	1929-77‡, 1978-97	4-09-98	656
					6-27-98	4,590
					8-03-98	47.6
01077510 Newfound River	Pemigewasset River	Lat 43°37'05", Long 71°44'25", Grafton County, Hydrologic Unit 01070001, below outlet of Newfound Lake, 1.7 mi north of Bristol, NH, off State Highway 3A.	98	1983-87, 1991-97	12-18-97	81.1
					2-13-98	126
					4-14-98	236
					6-19-98	1,570
7-28-98	64.2					
01080931 Winnepesaukee River	Merrimack River	Lat 43°28'18", Long 71°32'00", Merrimack and Belknap County line, Hydrologic Unit 01070002, at the Jamestown (Silver Lake) Road bridge 560 ft below the dam at Lochmere, 0.7 mi southeast of East Tilton, 1.5 mi upstream of the Tioga River confluence.	--	--	6-30-98	b 2,220
01080990 Winnepesaukee River	Merrimack River	Lat 43°27'07", Long 71°34'25", Merrimack and Belknap County line, Hydrologic Unit 01070002, at northbound Interstate Route 93 bridge, 0.1 mi south of the US Route 3 interchange, 1.2 mi upstream from the streamgage at Tilton, and 1.4 mi downstream from the Tioga River confluence.	e496	--	6-30-98	3,601

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Discharge measurements made at miscellaneous sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured pre-viously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MERRIMACK RIVER BASIN--Continued						
01081500 Merrimack River	Atlantic Ocean	Lat 43°25'26", Long 71°39'12", Merrimack County Hydrologic Unit 01070002, at Franklin Junction, NH, 1 mi downstream from confluence of Pemigewasset and Winnepesaukee Rivers.	1,507	1903-78‡, 1979-97	10-27-97	848
					4-09-98	6,550
01082000 Contoocook River	Merrimack River	Lat 42°51'45", Long 71°57'35", Hillsborough County, Hydrologic Unit 01070003, 1 mi south of Peterborough, NH, and 1.5 mi upstream from Nubanusit Brook.	68.1	1945-77‡, 1978-97	11-07-97	63.8
					04-14-98	86.3
					08-19-98	16.0
01083000 Nubanusit Brook	Contoocook River	Lat 42°53'43", Long 71°59'13", Hillsborough County, Hydrologic Unit 01070003, on left bank 300 ft down- stream from Edward MacDowell Reser- voir, 2.2 mi northwest of Peterborough, NH and 2.7 mi upstream from mouth.	44.0	1920-31‡, 1945-89‡, 1990-97a	7-24-97	14.2
					8-08-97	11.2
					8-08-97	13.7
					9-09-97	75.3
					9-10-97	64.7
					11-05-97	80.4
					1-05-98	40.9
					4-14-98	83.8
6-10-98	61.4					
8-08-98	13.3					
01085000 Contoocook River	Merrimack River	Lat 43°09'10", Long 71°51'24", Merrimack County, Hydrologic Unit 01070003, 0.6 mi downstream from Sand Brook and 2.5 mi southwest of Henniker, NH.	368	1939-77‡, 1978-97	10-30-97	158
					2-04-98	404
					6-17-98	5,280
01085350 Contoocook River	Merrimack River	Lat 43°10'43", Long 71°45'07", Merrimack County, Hydrologic Unit 01070003, at bridge crossing for State Route 9 and U.S. Route 202, 0.6 mi East of Keyser Pond, 0.8 mi upstream from Hopkinton dam, and 3.6 mi East of Henniker.	--	--	3-11-98	4,700
					4-01-98	4,780
01085500 Contoocook River	Merrimack River	Lat 43°11'31", Long 71°44'05", Merrimack County, Hydrologic Unit 01070003, on right bank 400 ft downstream from covered bridge at West Hopkinton, NH, 0.2 mi downstream from Hopkinton Dam, and 5.9 mi upstream from Warner River.	427	1903-07‡, 1963-89‡, 1990-97	12-10-97	523
					4-03-98	4,550
					4-03-98	4,590
					5-28-98	303
					6-17-98	3,590
7-31-98	139					
01087000 Blackwater River	Merrimack River	Lat 43°17'45", Long 71°41'46", Merrimack County, Hydrologic Unit 01070003, on left bank 0.2 mi west of Dingit Corner, NH, 2.4 mi downstream from Blackwater Dam, 2.5 mi southeast of Webster, and 6.5 mi upstream from mouth.	129	1927-89‡, 1990-97	4-09-98	373
					5-29-98	96.0
01089000 Soucook River	Merrimack River	Lat 43°14'22", Long 71°27'47", Merrimack County, Hydrologic Unit 01070002 at State Route 9 bridge, 0.9 mi upstream from Cemetary Brook and 4.4 mi northeast of the State Capitol in Concord.	76.8	1951-87‡	10-22-96	1,690
					10-22-96	1,460
					10-23-96	789
					10-23-96	746
					6-16-98	1,150
					6-16-98	1,100
					6-17-98	2,120
					6-17-98	1,570
					6-18-98	1,240
6-18-98	1,050					

Discharge measurements made at miscellaneous sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured pre-viously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MERRIMACK RIVER BASIN--Continued						
01090800 Piscataquog River	Merrimack River	Lat 43°05'29", Long 71°39'36", Hillsborough County, Hydrologic Unit 01070002, on right bank 500 ft downstream from Everett Dam and 1.4 mi southeast of East Weare, NH.	63.1	1963-89†, 1990-97	12-10-98 4-03-98	64.7 459
01091500 Piscataquog River	Merrimack River	Lat 43°00'58", Long 71°33'03", Hillsborough County, Hydrologic Unit 01070002, 0.2 mi upstream from Harry Brook, 0.9 mi downstream from Glen Lake, and 2.5 mi east of Goffstown, NH.	202	1939-78†, 1979-97	4-09-98 8-04-98	441 25.6
01094000 Souhegan River	Merrimack River	Lat 42°51'27", Long 71°30'24", Hillsborough County, Hydrologic Unit 01070002, at head of Wildcat Falls, 0.9 mi southwest of Merrimack, NH, 1.5 mi upstream from mouth.	171	1909-76†, 1977-97	6-09-98	193
CONNECTICUT RIVER BASIN						
01132001 Connecticut River	Long Island Sound	Lat 44°20'32", Long 71°53'22", Grafton County, Hydrologic Unit 01080101, at New Hampshire State Route 18 bridge, 0.8 mi downstream from Moore Reservoir, 1.2 mi Southeast of Lower Waterford, Vermont, and 2.3 mi North of Partridge Lake.	--	--	4-30-96 4-30-96 4-02-98 4-02-98 4-02-98 4-02-98 4-03-98 4-03-98	14,800 11,400 38,700 36,600 44,300 40,200 33,700 30,300
01141500 Ompompanoosuc River	Connecticut River	Lat 44°47'23", Long 71°15'19", Coos County, Hydrologic Unit 01080103, on right bank 800 ft upstream from covered bridge at Union Village, VT, 200 ft downstream from Avery Brook, 700 ft downstream from Union Village Reservoir, and 4.0 mi upstream from mouth (Revised).	130	1940-89†, 1990-97	10-30-97 4-10-98 6-09-98 7-15-98 9-17-98	40.2 641 88.9 143 71.0
01145000 Mascoma River	Connecticut River	Lat 43°39'00", Long 72°04'50", Grafton County, Hydrologic Unit 01080104, on right bank 45 ft downstream from Boston and Maine Railroad bridge, 0.9 mi east of West Canaan, 1.2 mi downstream from Indian River, 3.5 mi west of Canaan and at mile 19.3.	80.5	1939-78†, 1985-97	4-10-98 7-27-98	300 24.2
01152010 Sugar River	Connecticut River	Lat 43°23'10", Long 72°05'30", Sullivan County, Hydrologic Unit 01080107, behind Crutch Factory at Sunapee, NH, and 800 ft downstream from State Highway 11, and 2,000 ft below outlet of Lake Sunapee.	46	1983-87, 1991-97	12-12-97 6-01-98	25.3 48.7
01153000 Black River	Connecticut River	Lat 43°20'00", Long 72°30'55", Windsor County, Hydrologic Unit 01080106, on right bank at North Springfield, VT, 800 ft downstream from North Springfield Dam, 1,300 ft upstream from Great Brook, and 8.1 mi upstream from mouth.	158	1929-89†, 1990-97	11-19-97 4-21-98 8-10-98	208 796 50.9

† Operated as a continuous-record gaging station.

a At different site and datum.

b Spillway discharge only.