

**01085500 CONTOOCCOOK RIVER BELOW HOPKINTON DAM, AT WEST HOPKINTON, NH**

Merrimack Basin  
Contoocook Subbasin

LOCATION.--Lat 43°11'34", long 71°44'52" referenced to North American Datum of 1927, Merrimack County, NH, Hydrologic Unit 01070003, on right bank, 400 ft downstream from covered bridge at West Hopkinton, 0.2 mi downstream from Hopkinton Dam, 2.6 mi southwest of State Highways 103 and 127 intersection in Contoocook, 3.6 mi west of State Highway 103 and US 202 intersection in Hopkinton, and 6.0 mi upstream from Warner River.

DRAINAGE AREA.--427 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Discharge records: August 1903 to April 1907 (monthly discharges only, no winter records, published as "at West Hopkinton"), August 1963 to September 1989, October 2001 to March 2013. Partial-record station: October 1989 to September 30, 2001, April 1, 2013 to present. Peak streamflow: Water years 1964 to current year. Miscellaneous discharge measurements: Water years 1990-2001, 2013 to present. Water-quality discrete samples: Water years 1965, 1967 to 1970, 1975 to 1999.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 355.83 ft above National Geodetic Vertical Datum of 1929. August 1903 to April 1907, non-recording gage at site 400 ft upstream at different datum.

COOPERATION.--National Streamflow Information Program and the U.S. Army Corps of Engineers, New England District.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants and by Nubanusit Lake, Edward Macdowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce, Hopkinton Lake since 1962 (Reservoirs in Merrimack River basin), and other reservoirs upstream. Diversion from Hopkinton Lake to Everett Lake on the Piscataquog River during periods of high flow in March 1968, April 1969, March 1977, March 1979, May-June 1984, April 1987, March-April 2003, April 2005, October 2005, May 2006, April 2007, and March-April 2010.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,730 ft<sup>3</sup>/s, July 3, gage height, 7.66 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	477	4,190	248	814	1,950	702	---	---	---	---	---	---
2	415	3,830	243	922	2,090	715	---	---	---	---	---	---
3	420	2,830	333	933	1,870	697	---	---	---	---	---	---
4	404	2,160	335	747	1,280	672	---	---	---	---	---	---
5	412	1,660	372	783	959	612	---	---	---	---	---	---
6	387	1,290	400	722	869	584	---	---	---	---	---	---
7	324	1,180	316	586	896	545	---	---	---	---	---	---
8	319	1,050	357	494	715	582	---	---	---	---	---	---
9	314	775	373	430	671	582	---	---	---	---	---	---
10	366	758	425	488	532	575	---	---	---	---	---	---
11	321	776	532	501	687	604	---	---	---	---	---	---
12	331	502	545	495	669	686	---	---	---	---	---	---
13	213	406	573	478	697	1,310	---	---	---	---	---	---
14	208	453	533	585	604	1,990	---	---	---	---	---	---
15	315	387	497	1,050	591	1,930	---	---	---	---	---	---
16	352	403	477	1,210	590	1,720	---	---	---	---	---	---
17	324	481	430	1,110	508	1,600	---	---	---	---	---	---
18	280	519	540	894	569	1,390	---	---	---	---	---	---
19	377	504	863	760	485	1,250	---	---	---	---	---	---
20	542	388	1,240	793	472	1,160	---	---	---	---	---	---
21	815	284	1,430	790	524	1,080	---	---	---	---	---	---
22	851	307	2,030	619	486	933	---	---	---	---	---	---
23	828	174	2,110	630	383	814	---	---	---	---	---	---
24	515	230	2,060	e520	474	806	---	---	---	---	---	---
25	416	321	1,880	503	463	797	---	---	---	---	---	---
26	409	331	1,630	445	456	790	---	---	---	---	---	---
27	665	250	1,490	452	496	798	---	---	---	---	---	---
28	744	293	1,340	380	589	965	---	---	---	---	---	---
29	806	307	1,100	353	---	1,100	---	---	---	---	---	---
30	2,050	379	1,100	334	---	1,210	---	---	---	---	---	---
31	3,480	---	972	969	---	1,350	---	---	---	---	---	---
<b>Total</b>	18,680	27,418	26,774	20,790	21,575	30,549	---	---	---	---	---	---
<b>Mean</b>	603	914	864	671	771	985	---	---	---	---	---	---
<b>Max</b>	3,480	4,190	2,110	1,210	2,090	1,990	---	---	---	---	---	---
<b>Min</b>	208	174	243	334	383	545	---	---	---	---	---	---

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	494	715	872	677	731	1,295	1,956	997	619	323	257	252
<b>Max</b>	2,736	1,782	1,929	1,886	2,016	2,878	3,596	1,839	2,242	1,474	1,084	1,422
<b>(WY)</b>	(2006)	(2007)	(2012)	(2006)	(1984)	(2010)	(1987)	(1972)	(2006)	(2009)	(2009)	(2011)
<b>Min</b>	61.0	88.8	175	110	163	363	428	330	105	61.4	43.0	41.4
<b>(WY)</b>	(1965)	(1965)	(1965)	(1981)	(1977)	(1965)	(2012)	(1985)	(1964)	(1978)	(1983)	(2010)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Years 1963 - 2013	
<b>Annual total</b>	241,823			
<b>Annual mean</b>	661		765	
<b>Highest annual mean</b>			1,322	2006
<b>Lowest annual mean</b>			229	1965
<b>Highest daily mean</b>	4,190	Nov 1	7,500	Apr 9, 1987
<b>Lowest daily mean</b>	49	Sep 17	15	Jul 22, 1965
<b>Annual seven-day minimum</b>	54	Sep 12	24	Jul 12, 1965
<b>Maximum peak flow</b>			7,530	Apr 8, 1987
<b>Maximum peak stage</b>			10.89	Apr 8, 1987
<b>10 percent exceeds</b>	1,390		1,860	
<b>50 percent exceeds</b>	504		469	
<b>90 percent exceeds</b>	80		100	

