

Table 15 - HDT.RP: Discharges from Compensating Reservoirs and Lake Cochituate

Water Body	Annual Rainfall inch/yr	Time Interval		Discharges				
		Dates	Days	Gal	gal/day	gal/min	ft3/sec	Ratio T/LC
Hopkinton (H)	44.42	Jun 13-Nov 14	125	912,796,300	7,302,370	5,071	10.37	
Marlborough (M)	46.81	Jul 14-Oct 21	100	1,052,081,000	10,520,810	7,306	14.94	
Total (H + M)				1,964,887,300	17,823,180	12,377	25.31	
Lake Cochituate (LC)	47.93	same	112.5	735,229,294	6,535,372	4,538	9.28	2.672

Notes:

1. Source is notepad text at Concord Free Public Library, Series II. No. 107d. Box 1. Folder 6. Vault A35 Thoreau Unit 1.
2. Modified from Report of the Cochituate Water Board 52 "Cocmpensating Reservoirs of Hopkinton and Marlborough.
3. Interpretive quote: "By calculation, the natural flow from the lake during the above mentioned period, being less than 1/2 what was discharged during the months July & August...."
4. Scrap of text: on this River, & was about 3 1/2 times the natural supply of the lake. The rainfall during the year, at the Marlborough was 46.81 inches, & at the Hopkinton 44.42 inches, as ascertained by rain gauge, xxboth xxxxxxxx"
5. Conversion is 1 gal = 0.133681 cubic feet.
6. Note by Thorson: The total release of 25.31 cfs is equivalent to only about one tenth (of the low-flow discharge over the back-flood bar under summer conditions

Boatman reference, page 190