

Table 22 - HDT.RP: Thermal Study of Springs, Brooks, Rivers, Ponds, and Air during Summer 1860.

Year	Month	Date	Springs		Brooks			Rivers			Ponds & Other			Thoreau's House		Comment			
			Time	Place	Water T °F	Air T °F	Name	Detail	Water T °F	Rank	Air T °F	Place	Subplace	Water T °F	Place		Subplace	Water T °F	Air T °F
1846	Mar	6		Boiling Spring	45													entered from Journal	
1860	Jun	30							83 at 2 PM	Boat Place	1 rod from shore	77	Walden Pond	bottom, 4 ft deep	71	83	2:15 PM	Thoreau's house	
1860	Jun	30	PM	Boiling Spring	45														
1860	Jun	30	PM	Thoreau well	49													after pumping	
1860	Jun	30	PM	Brister's Spring	49														
1860	Jun	30	PM	Walden Pond	71													bottom at 4 ft depth	
1860	Jun	30	PM	River	77													1 rd from shore	
	Jul	1							77 at 2 PM	Boat Place	1 rod from shore	75							
1860	Jul	3					Saw Mill	At Turmpike	62	2	82 at 2 PM	Boat Place	1 rod from shore	Gowing's Swamp	edge middle pool	78	82	2:00 PM	
1860	Jul	3		Holbrook's Ditch	58		Unnamed	Bet. Emerson & Connor	65	5	72 at 6 PM	Boat Place	1 rod from shore	Gowings swamp	sphagnum	77	72	6:00 PM	
1860	Jul	3		Beyond Peters	48.5		Mill Brook	Turmpike Bridge	75	10				Merriams's	cow-watering pl.	83		Reported 48-49	
1860	Jul	3		Cheneys	50		Mill Brook	East Quarter Schoolhouse	78	11							72	6PM	
1860	Jul	3		Garfield (Moor's Swamp)	52														
1860	Jul	4					Nut Meadow	Brown's Fence	64	3	83 at 2 PM	Clamshell	1 rod from shore	White Pond	Top, 5 ft fr shore	76	83	2:00 PM	
1860	Jul	4		Corner Spring (Wheeler's)	49		Nut Meadow	Road by Dugans	65	4	83 at 2 PM	Clamshell	in middle						
1860	Jul	4		Dugans	50						83 at 2 PM	Clamshell	four feet from shore						
1860	Jul	4		John Hosmers	54														
1860	Jul	6					Dakins	Road beyond Winn's	74	8	57 to 60 at 6 AM	Boat Place	1 rod from shore				58.5	6:00 AM	Reported 57-59
1860	Jul	6					Below Franc Jarvis	in road	74	9	57 to 60 at 6 AM	Boat Place	middle				75	2:00 PM	
1860	Jul	6									75 at 2 PM		1 rod from shore				75	7:00 PM	
1860	Jul	6		Henry Shattucks's Two	48						75 at 7 PM	Boat Place	1 rod off						
1860	Jul	6		Violet Sorrel (N Barrett)	48														
1860	Jul	6		J. Farmers	48														
1860	Jul	6		Minot Prattts	49														
1860	Jul	6		Oak Meadow	54														
1860	Jul	7					Hemlock	Grackie's Swamp	61	1	56 at 7 AM	Boat place	one rod off				56	7:00 AM	
1860	Jul	7									56 at 7 AM	Boat place	middle				76	2:30 PM	
1860	Jul	7		Dennis's Railroad Assabet	46.5						76 at 2:30 PM	Boat place	middle						
1860	Jul	7			54						76 at 2:30 PM	Boat place	1 rod off						
1860	Jul	7		Wheeler's	56+						4:30 PM	Assabet	stone heaps						Top and bottom, 3 ft deep.
		9					80.5 at 2	Swamp Bridge	Back road	70	6								
								Miles Swamp	Conantum	70.5	7								
1860	Aug	10	2:00 PM	Boiling Spring Walden	46														
				Walden	80														
1860	Aug	21											Bittern Cliff (deep place)	Top	78				Air at 4 1/2 is 81
1860													Bottom	73					
1860																			
1860	Aug	23											Walden	Top	75				78° air
1860	Aug	23											Bottom	53					Two measurements, 51 and 54.
1860	Aug	24											Walden	Top	75				66° air in mizzling rain.
1860	Aug	24											Walden	Bottom	53				100 feet line, left half an hour in bottle
1860	Aug	28											Walden	Top	74				62° air temp
1860	Aug	28											Walden	Bottom 100ft	55				Lay in stoppered bottle 20-30 min, same as open bottle drawn up in 5 minutes
1860	Aug	28											Walden	Mid 50 ft	63				open bottle drawn up from 50 feet after 5min (calibrated)...

Notes:

- Air temperatures at North side of Thoreau's House in shade.
- PM translates as "afternoon"
- Gray bars between monitoring periods
- Brooks: "The first five may be considered cold brooks."
- July 6 measurement sin river after 1 in ch of rain on the 5th.
- "Average temperature of the river at one rod from shore at 2 PM 76, or 77° more than that of the brooks tried."
- "As the brooks are larger they approach nearer to the river in temperature."
- "There is from one and a half to two degrees difference between the temperature of the river at one rod from shore and in the middle."
- "In the morning the middle is warmest, at 2 P.M. the coldest."
- "if the weather is colder than usual, the difference between the side and middle is less"
- "So it appears that the bottom of Walden (-) has in fact the temperature of a genuine & cold spring—or prob. is (-) the same temperature with the average mean temp. of the earth--& I suspect, the same all the year--This shows that spring need not come from a very great depth in order to be cold...Walden then must be included among the springs but it is one which has no outlet--it is a well rather. It reaches down to where the temperature of the earth is (un) changing. It is not a supervial pond--not in the mere skin of th earth. It goes deeper--"
- Aug 28. the temp. seems to fall regularly as you descend -- at the rate of about (-) 1° to 5 feet.
- I found it 2° warmer than the 24th, --though the air was then 4° warmer than now--possibly comparing one day with the next, it is warmer at the bottom in a cold day--& colder in a warm day--because when the surface is cooled it mixes more with the bottom--while the average temperature is very slightly changed.