

Table 21 - HDT.RP. Stage Monitoring From April 25, 1860 to April 6, 1861.

Year	Month	Date	Time	Day Decimal	Decimal	Inches	Trend			Journal Text
							Fall	Rise	Stable	
1860	Apr	25		0	0.00	1.25				I fix a stake on the west side the willows at my boat's place, the top of which is at summer level and is about ten and a half inches below the stone wharf there. The river is one and one fourth inches above summer level to-day. That rock northwest of the boat's place is about fifteen inches (the top of it) below summer level. Heron Rock top (just above the junction of the rivers) is thirteen inches above summer level [EGG ROCK?] I judge by my eye that the rock on the north side, where the first bridge crossed the river, is about four inches lower than the last.
	Apr	26		1	1.00	0.00	x			The river is exactly at summer level
	Apr	27		2	2.00	0.63		x		River five eighths of an inch below summer level...At the stone bridge, the lower end of the stone is about a quarter of an inch above summer level.
		28		3	3.00					
1860	Apr	29	6:00 AM	4	3.75	2.88		x		
1860	Apr	29	Nite	4	4.25	3.00		x		River two and seven eighths inches below summer level at 6 A.M. Three plus inches below at night.
		30		6	5.00					
		1		7	6.00					
		2		8	7.00					
		3		9	8.00					
		4		10	9.00					
		5		11	10.00					
	May	6		12	10.00	3.50		x		River three and one fourth inches below summer level. Why is it only three eighths of an inch lower than last Sunday (April 29)?
		7		13	11.00					
		8		14	12.00					
		9		15	13.00					
		10		16	14.00					
		11		17	15.00					
	May	12		18	16.00	5.50		x		River five and one half plus inches below summer level.
	May	13		19	17.00	6.31		x		river is now six and fifteen sixteenths inches below summer level
		14		20	18.00					
		15		21	19.00					
		16		22	20.00					
		17		23	21.00					
		18		24	22.00					
	May	19		25	23.00	7.00		x		River seven inches below summer level.
		20		26	24.00					
		21		27	25.00					
		22		28	26.00					
		23		29	27.00					
	May	24		30	28.00	2.67		x		Water fallen about one inch. [to two and two thirds below summer level]
	May	25		31	29.00	1.00		x		7 P.M. -- River one inch below summer level.
		26		32	30.00					
		27		33	31.00					
	May	28		34	32.00	3.00		x		The river is now some three inches below summer level.
		29		35	33.00					
	May	30		36	34.00	3.75		x		[River three or four inches below summer level: from May 31]
		31		37	35.00					
		1		38	36.00					
		2		39	37.00					
	June	3		40	38.00	3.06		x		River three and three sixteenths inches above summer level, i.e., the river has begun to fall within twenty four hours and less after the rain ceased.
		4		41	39.00					
		5		42	40.00					
		6		43	41.00	8.75		x		6 1/2 PM on river up Assabet. After the rain-- The water has risen to 8 3/4 in. above S.L. & is rising fast, but little rain has fallen this Pm.
		7	6:00 AM	44	42.75	9.94		x		
		7	6:00 PM	44	43.25	12.88		x		
		8	6:00 AM	45	43.75	12.88		x		
		8	7:00 PM	45	44.25	14.50		x		River at 7 pm 14 1/2 above S.L.
		9	7:00 AM	46	44.75	14.13		x		7 am River 14 1/8 above S.L. only--though after consid. Rain in the night.
		9	6:00 PM	46	45.25	14.75		x		showers during day
		10		47	46.00					
	June	11	6:00 AM	48	46.75	12.00		x		6 A.M. River twelve inches above summer level.
	June	12	7:00 PM	49	47.00	10.33		x		As the river has gone down, these green leaves mark the rank in lines just like sawdust.
		13		50	48.00					
		14		51	49.00					
	June	15	2:00 PM	52	50.00	4.50		x		2 P.M.--River four and one half above summer level.
	June	16		53	51.00					The pickerel-weed appears to have suddenly shot up to about its final height, but it is mainly owing to the river having rapidly fallen a foot within a few days...
		17		54	52.00					
		18		55	53.00					
		19		56	54.00					
		20		57	55.00					
		21	6:00 AM	58	56.75	7.17		x		
		21	7:00 PM	58	57.25	11.50		x		
		22	6:00 AM	59	57.75	11.94		x		
		22	7:00 PM	59	58.25	14.13		x		
	June	23	7:00 AM	60	58.75	15.00		x		River at 7 A.M. fifteen inches above summer level, having fallen.
		23	7:00 PM	60	59.25	15.75		x		
1860	June	23		60	58.00					[table of hydrology, summarizing above] Thus 2 and 1/8 inches of rain at this season, falling in one day, with little or now wind, raised the river while it is falling some four inches; on the next night it rises seven sixteenths of an inch more; the next day (second after the rain) it rises three and three sixteenths inches; the next night it falls one eighth of an inch; it rises again three fourths of an inch, or five eighths absolutely, it rises still the third day after the rain. That is, after a remarkably heavy rain of one day it does not rise much in a night as it ordinarily falls in a day at this season.
		24		61	59.00					
1860	June	25	7:00 PM	62	60.00	12.50		x		7 P.M., river twelve and a half inches above summer level.
		26	5:00 PM	63	61.00	10.50		x		
	June	27	6:00 PM	64	62.00	7.63		x		River at 6 P.M. seven and five eighths inches above summer level.
		29		65	63.00					
1860	June	30	2:00 PM	66	64.00	6.00		x		At 2 P.M. the river is six inches above summer level.
1860	July	1	2:00 PM	67	65.00	3.88		x		2 P.M.River three and seven eighths above summer level.
		2		68	66.00					
		3		69	67.00					
		4	7:00 PM	70	68.00	1.38		x		
		5		71	69.00					Rain last night & all to day--
		6		72	70.00					Rained last night as well as all yesterday & some of night before 3/4 of an inch has fallen.
		6	6:00 AM	72	70.00	2.44		x		

1860	July	7	7:00 PM	73	71.00	3.63		x		
		7	7:00 AM	73	71.00	2.50		x		7 A.M. River two and a half above summer level.
		8		74	72.00					
		9		75	73.00					
		10		76	74.00					
1860	July	11	7:00 PM	77	75.00	8.50		x		River at 7 P.M. eight and a half inches above summer level.
1860	July	12	8:00 PM	78	76.00	8.75		x		River at 8 P.M. is eight and three quarters inches above summer level.
		13		79	77.00					
1860	July	14		80	78.00	10.63		x		Water ten and five eights above sumemr level; probably about done rising.
		15		81	79.00					
		16		82	80.00					
		17		83	81.00					
		18		84	82.00					
		19		85	83.00					
		20		86	84.00					
		21		87	85.00					
		22		88	86.00					
		23		89	87.00					
		24		90	88.00					
		25		91	89.00					
		26		92	90.00					
		27		93	91.00					
		28		94	92.00					
		29		95	93.00					
		30		96	94.00					
1860	July	31	5:00 PM	97	95.00	9.88		x		AT 5 P.M. the reiver is nine and seven eights inches above summer level.
	Aug	1		98	96.00					
	Aug	2	2:00 PM	99	97.00	12.88		x		Higher than for a long time--on ac. Of the rain of the 31st
		3		100	98.00					
		4		101	99.00					
		5		102	100.00					
		6		103	101.00					
		7		104	102.00					
		8		105	103.00					
		9		106	104.00					
		10		107	105.00					
		11		108	106.00					
1860	Aug	12	5:00 PM	109	107.00	3.75		x		River at 5 P.M. three and three quarters inches below summer level.
		13		110	108.00					
		14		111	109.00					
		15		112	110.00					
1860	Aug	16	2:00 PM	113	111.00	10.50		x		River about ten and a half inches above summer level.
		17		114	112.00					
		18		115	113.00					
		19		116	114.00					
		20		117	115.00					
		21		118	116.00					
		22		119	117.00					
		23		120	118.00	15.75		x		
		24		121	119.00					
		25		122	120.00					
		26		123	121.00					
		27		124	122.00					
		28		125	123.00					
		29		126	124.00					
		30		127	125.00					
		31		128	126.00					
1860	Sep	1		129	127.00	8.00		x		River about eight inches above summer level yesterday.
		2		130	128.00					
1860	Sep	3	2:00 PM	131	129.00	6.88		x		2 P.M. River six and seven eights above summer level
		4		132	130.00					
		5		133	131.00					
		6		134	132.00					
		7		135	133.00					
		8		136	134.00					
		9		137	135.00					
		10		138	136.00					
		11		139	137.00					
		12		140	138.00					
		13		141	139.00					
		14		142	140.00					
	Sep	15	AM	143	141.75	38.50		x		In morn. River is 3 feet 2 1/2 inches above S.L.
	Sep	15		143	142.25	38.50		x		slightly higher than in morn--or at height. Thus it reached its height the 3d day after the rain--had risen on the morning of the 3day about 30 inches on ac. Of the rain of one day (the 12th)
1860	Sep	16	6:00 AM	144	142.00	36.88		x		7 A.M. - River fallen one and half inches. It is three feet and seven eights of an inch above summer level. i.e. at notch on tree. I mark a willow eight feet above sumer level.
1860	Sep	17	6:30 AM	145	143.00	34.13		x		6:30 A.M. -- River thirty-four and an eight above sumemr level, oir fallen about four inches since evening of 15th. It flows now (a sunk bottle) one hundred feet in two minutes at boat's place, there being no wind.
		18		146	144.00					
1860	Sep	19	4:00 PM	147	145.00	22.13		x		4 P.M. River fallen about one foot.
		20		148	146.00					
1860	Sep	21	2:00 PM	149	147.00	20.25		x		Hard rain last night. About one and seven eights inches fallen since yesterday morning, and river rising again
		22		150	148.00					
		23		151	149.00					
1860	Sep	24	2:00 PM	152	150.00	33.00		x		2 P.M. - The river risen about thirty-three inches above sumemr level
		25		153	151.00					
		26		154	152.00					
1860	Sep	27		155	153.00	35.00		x		River about thirty-five inches above summer level, and goes not higher this time.
1860	Nov	11								Nov. 10 and 11 were rainy, raising the river considerably on to the meadows
1860	Nov	13				28.00		x		River two feet four inches above summer level (and at height) on account of rain of 10th and 11th and 12th.
1861	Apr	6						x		Am surprised to find the river fallen some nine inches notwithstanding themelted snow.

Notes:

1. Data extracted from Journal entries
2. Assignment of trends based on early mark within monitoring periods separated by gray bars
3. Datum is summer level, as defined in the first entry.
4. He ends the monitoring when the dam was supposed to be taken down.