Table 14 - HDT.RP: Vertical Difference in Current Velocity Gradients at Backflood Bar

Label	Date	Location	Device	Depth	Distance	Time	Velocity	Text
		Place (Thoreau)		ft	ft	min	ft/min	
G	Jul 30, 59	Above Dodds (30 rds above A)	Sunk bottle		75	40	1.88	tring the current therethere being a very faint chiefly side winda calmMy bottle foats about 75 feet in 40 minutes & then a very faint breeze beginning to drive it backI can not wait to see when it will go a hundred.
			Wood Chip	0			upstream	chip went pretty fast up stream
			Sunk bottle	1			slowly down	went slowly down
			Sunk bottle	3			fast down	went faster than when the box was sunk only 1 foot
			Sunk bottle	7			slower than 7	water flowed faster down at 3 feet depth than at one there where it was about 7 feet deep
			Weeds	bottom				weeds at bottom will all be slanted down
G	Aug 2, 59	Above Dodds (30 rds above A)	Board	0				Loose board moves faster than one with a sunk box but soon drifts diagonally across & lodges.
			Sunk box	1.167	100	9	11.11	The box sunk 14 inches below the board floats 100 feet in 9 minutes
			Sunk box	2.5	100	9.25	10.81	sunk 2 1/2 feet in 9 1/4 minutes
			Sunk box	5.5	100	5.5	18.18	5 1/2 feet is not half way in 13 minutes or, allowing for its starting this time a little out of the wind & current-say it is 20 minutes in going 100 feet.

Notes.

1. Two vertical velocity gradients measured on backflood bar. See related comparision of velocities at different places.

Boatman reference, page 188-189