

Supplement 1. Example spring temperature data from iButtons.

Yellow highlight instances where the difference between the two depths less than 1°C

All data determined to be flowing conditions as part of the day had larger temperature differences, rainfall evidence or field visit verification.

Date	Time	AM/PM	°C @32 cm	°C @ 2cm	Temp Difference (°C)	Rainfall (cm)
6/6/11	12:20	AM	13.0	13.0	0.0	0.127
6/6/11	4:20	AM	12.0	12.0	0.0	
6/6/11	8:20	AM	14.5	13.5	1.0	
6/6/11	12:20	PM	25.0	20.5	4.5	
6/6/11	4:20	PM	22.5	19.0	3.5	
6/6/11	8:20	PM	18.5	16.0	2.5	
6/7/11	12:20	AM	13.5	13.5	0.0	0
6/7/11	4:20	AM	12.0	12.0	0.0	
6/7/11	8:20	AM	15.5	14.5	1.0	
6/7/11	12:20	PM	27.5	22.5	5.0	
6/7/11	4:20	PM	26.5	21.0	5.5	
6/7/11	8:20	PM	21.5	18.5	3.0	
6/8/11	12:20	AM	17.5	16.5	1.0	0
6/8/11	4:20	AM	16.5	15.5	1.0	
6/8/11	8:20	AM	18.0	16.5	1.5	
6/8/11	12:20	PM	27.5	22.0	5.5	
6/8/11	4:20	PM	28.0	23.0	5.0	
6/8/11	8:20	PM	23.0	19.5	3.5	
6/9/11	12:20	AM	20.5	19.0	1.5	
6/9/11	4:20	AM	19.0	18.0	1.0	
6/9/11	8:20	AM	18.0	17.0	1.0	
6/9/11	12:20	PM	22.5	19.5	3.0	0.381
6/9/11	4:20	PM	25.0	21.5	3.5	
6/9/11	8:20	PM	19.0	18.0	1.0	
6/10/11	12:20	AM	18.0	17.0	1.0	0.9144
6/10/11	4:20	AM	17.5	16.5	1.0	
6/10/11	8:20	AM	19.0	17.5	1.5	
6/10/11	12:20	PM	24.5	21.0	3.5	
6/10/11	4:20	PM	23.5	20.5	3.0	

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Date	Time	AM/PM	°C @32 cm	°C @ 2cm	Temp Difference (°C)	Rainfall (cm)
6/10/11	8:20	PM	19.0	18.0	1.0	0.1524
6/11/11	12:20	AM	16.5	16.0	0.5	
6/11/11	4:20	AM	15.5	14.5	1.0	
6/11/11	8:20	AM	14.5	14.0	0.5	
6/11/11	12:20	PM	15.0	14.5	0.5	
6/11/11	4:20	PM	15.5	15.0	0.5	
6/11/11	8:20	PM	13.0	13.0	0.0	2.9464
6/12/11	12:20	AM	12.5	12.5	0.0	
6/12/11	4:20	AM	13.0	14.0	-1.0	
6/12/11	8:20	AM	13.0	14.0	-1.0	
6/12/11	12:20	PM	14.0	14.0	0.0	
6/12/11	4:20	PM	15.0	14.0	1.0	
6/12/11	8:20	PM	14.0	13.5	0.5	0.0254
6/13/11	12:20	AM	13.0	13.0	0.0	
6/13/11	4:20	AM	12.5	12.5	0.0	
6/13/11	8:20	AM	13.5	13.0	0.5	
6/13/11	12:20	PM	18.0	16.0	2.0	
6/13/11	4:20	PM	17.0	15.5	1.5	
6/13/11	8:20	PM	15.0	14.5	0.5	0.0254
6/14/11	12:20	AM	14.0	13.5	0.5	
6/14/11	4:20	AM	13.0	12.5	0.5	
6/14/11	8:20	AM	13.0	12.5	0.5	
6/14/11	12:20	PM	15.0	14.0	1.0	
6/14/11	4:20	PM	15.0	14.0	1.0	
6/14/11	8:20	PM	14.0	13.5	0.5	0
6/15/11	12:20	AM	10.5	10.5	0.0	
6/15/11	4:20	AM	10.5	11.0	-0.5	
6/15/11	8:20	AM	13.0	12.5	0.5	

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Date	Time	AM/PM	°C @32 cm	°C @ 2cm	Temp Difference (°C)	Rainfall (cm)	
6/15/11	12:20	PM	21.0	17.5	3.5		
6/15/11	4:20	PM	21.5	18.0	3.5		
6/15/11	8:20	PM	16.5	15.0	1.5		
6/16/11	12:20	AM	11.5	11.5	0.0	0	**field verification of flowing water
6/16/11	4:20	AM	10.5	10.5	0.0		
6/16/11	8:20	AM	14.0	13.5	0.5		
6/16/11	12:20	PM	25.0	20.5	4.5		
6/16/11	4:20	PM	24.5	20.5	4.0		
6/16/11	8:20	PM	20.0	17.5	2.5		
6/17/11	12:20	AM	16.0	15.5	0.5	0.635	
6/17/11	4:20	AM	14.5	14.5	0.0		
6/17/11	8:20	AM	16.5	15.5	1.0		
6/17/11	12:20	PM	17.5	16.5	1.0		
6/17/11	4:20	PM	18.5	17.0	1.5		
6/17/11	8:20	PM	17.5	16.5	1.0		
6/18/11	12:20	AM	16.5	15.5	1.0	1.2446	
6/18/11	4:20	AM	16.5	15.5	1.0		
6/18/11	8:20	AM	17.0	15.5	1.5		
6/18/11	12:20	PM	22.5	19.5	3.0		
6/18/11	4:20	PM	23.0	19.5	3.5		
6/18/11	8:20	PM	20.5	18.0	2.5		
6/19/11	12:20	AM	17.5	16.5	1.0	0	
6/19/11	4:20	AM	15.5	15.0	0.5		
6/19/11	8:20	AM	17.0	16.0	1.0		
6/19/11	12:20	PM	22.0	18.5	3.5		
6/19/11	4:20	PM	22.5	20.0	2.5		
6/19/11	8:20	PM	17.5	16.5	1.0		
6/20/11	12:20	AM	13.0	13.0	0.0	0	
6/20/11	4:20	AM	11.0	11.5	-0.5		

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6/20/11	12:20	PM	24.0	20.0	4.0	
6/20/11	4:20	PM	22.5	19.5	3.0	
6/20/11	8:20	PM	18.0	17.0	1.0	