

GRSM FISH COLLECTION FORM (3-PASS)

SHEET ___ of ___

DATE 8/8/22

STREAM Mill Branch

BEGAN 1100

H₂O TEMP 18.4

LOCALITY Cades Cove

ENDED

CONDUCT 11.1

TAG # UP M1220 Site Code

SHOCKER # 2

DOWN M1220 *INSERT NEW SITE INSTRUCTIONS HERE*

PERSON # 6

VOLTAGE 650

	SPECIES	TL (mm)	WT (g)	RUN #	NOTES	SPECIES	TL (mm)	WT (g)	RUN #	NOTES
1	RBT	135	19.6	1						
		147	26.1							
		174	44.8							
		76	4.1							
5		70	3.3							
		60	2.4							
		74	3.9							
		70	3.6							
	CKC	14	130.4		60-150					
10	BND	31	108.4		46-81					
	RVC	188	71.9		Indi.					
	WPS	3	17.7		90-94					
	RSD	2	4.3		56-67					
	SFS	3	6.7		62-74					
15										
	RBT	65	2.7	2						
	CKC	4	62.8		82-131					
	RSD	2	8.9		71-82					
	WPS	1	5.3		89					
20	BND	11	42.4		22-86					
	SFS	4	8.2		60-67					
	RBT	78	4.2	3						
	RBT	63	2.5							
25	WPS	77	3.1		Indi.					
	SFS	62	2.1		Indi.					
	BND	22	74.2		57-81					
30										
35										
40										
45										

Hellbenders

Y / N

TL (mm)

WT (g)

Date Entered: 8/11/22

Initials: CMACK

Date Verified: 8/11/22

Initials: CMACK

Date Validated: 8/11/22

Initials: CMACK

Date Scanned: 8/11/22

Initials: CMACK

Date Archived:

Initials:

2. Fish disease/ deformities?

Stream Mill Branch

Section MIL 2D - MIL 2C

Date: 8/8/22
Time: Start: 11:00a End: 13:05a

End: 13:05

Voltage	650
Shocker#	2

Location Cades Cove Mill Branch

Crew: Josh S.

Temp (C°) 18.4 Cond. (μS) 11.1

Cell Width = $\frac{\text{Depth to Depth}}$

$$12 \leftarrow \frac{18}{3} \rightarrow 36$$

Transect	Width (m)	Width (m)	%gradient
0	4.9		
10	7.5		
20	6.8		
30	7.1		
40	6.0		
50	6.8		
60	6.1		
70	5.4		
80	5.3		
90	7.9		
100	7.6		
Mean	5.854		

Area (Length x Mean Width) = 383.7

Upper tag: mil-20
Lower tag: mil-20

Notes:

DISTANCE ON TAPE (feet)	DEPTH (feet)	VELOCITY (feet/sec)	CELL VOLUME (cubic feet/sec)
1.2	0	0.72	0.432
1.4	0.6	1.88	2.820
1.5	0.9	1.94	3.492
1.6	0.9	1.34	2.680
1.7	1.1	1.18	2.596
1.8	1.1	0.57	1.140
2.0	0.9	0.36	0.612
2.1	0.8	0.34	0.578
2.2	0.9	0.27	0.405
2.3	0.6		
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3.0			

DISCHARGE (cfs) = 14.755

$$\frac{D_1 + D_2}{2} \times \text{CUR} \times V$$