



# 2013 Stream Survey Report

## Unnamed Creek ROTATION (WBIC 306800)

### Shawano County

Prepared by Al Niebur and Top Moon Lee

### Introduction and Objectives

Unnamed Creek (306800) is a Class I trout stream and consists of 3.24 miles of trout water. Located in Shawano County, Unnamed Creek (306800) is part of the South Branch Embarrass River watershed. Public access is primarily limited to road crossings. Objectives of the rotation surveys are to determine species composition, relative abundance, and size structure for trout and other gamefish.

Regulations: Entire Stream - Category 2

Size Limit: All Trout - 7 inches

Daily Bag Limit: 5 (in total)

### WISCONSIN DNR CONTACT INFO.

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### Survey Method

All streams are sampled according to WDNR wadeable streams monitoring protocols. The Unnamed Creek 306800 is on a 12 year rotation schedule with two sites identified for the segment of stream in Shawano County. All sampling sites are electrofished with either a towed barge or backpack shocker. Sampling distance is at least 35 times the mean stream width or a minimum of 100 meters. All gamefish are identified to species, measured for length, and examined for fin-clips. All fish species are collected and counted for calculation of an Index of Biotic Integrity (IBI) in at least one stream segment.



### Survey Information

Site Location	Survey Date	Distance	MSW	GPS (Start/Finish)	Method	Dippers	IBI
HWY 45	07/10/2013	335 ft	9.5 ft	44.74583, -89.06025 44.74648, -89.05962	Towed Barge Shocker	3	No
Kielblock Rd	07/10/2013	330 ft	7.2 ft	44.76680, -89.06166 44.76623, -89.06286	Backpack Shocker	1	Yes

### Metric Descriptions

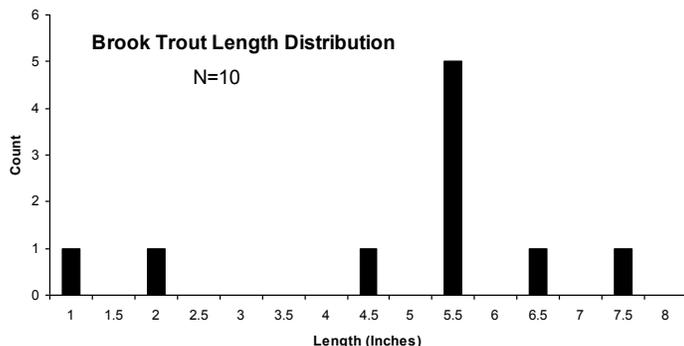
- Catch per effort (CPE) is an indirect method of measuring fish population relative abundance. For all trout surveys we typically quantify CPE by the number and size of trout captured per mile of stream. CPE indexes are compared to statewide streams by percentile (PCTL). For example, if a CPE is in the 90th percentile, it is higher than 90% of the other CPEs in the state. CPE percentiles can also be used to categorize trout abundance by 33rd (low density), 66th (moderate), 90th (high), and 95th (very high) benchmarks.
- The Index of Biotic Integrity (IBI) is a rating of environmental quality based on fish assemblage. Scores of 90-100 would indicate excellent quality while scores less than 30 would indicate poor quality. Our analysis utilizes the IBI for Wisconsin coldwater streams (maximum daily mean water temperature usually <22°C).

### Catch Per Effort

Station	Trout Species	Range and (Average Length)	Total (PCTL)	YOY	>5" (PCTL)	>8" (PCTL)	>10"	>12" (PCTL)
HWY 45	Brook	5.6-7.6 (6.5)	63 (30th)	0	63 (40th)	0	0	0
Kielblock Rd	Brook	1.4-5.8 (4.2)	95 (35th)	32	48 (35th)	0	0	0

### Results and Discussion

- This stream supports a low density brook trout fishery comprised of primarily young of year (YOY) and juvenile size trout.
- Fish assemblage indicated this stream had fair environmental quality.
- This stream likely serves as an important spawning and refuge tributary on the lower South Branch Embarrass River.



### Species Community

Species Sampled	Total	IBI Score	Integrity Rating
Brook Trout	10	<b>40</b>	<b>FAIR</b>
Central Mudminnow	14		
Johnny Darter	9		