



2013 Stream Survey Report

Hydes Creek ROTATION (WBIC 294000)

Shawano and Waupaca County

Prepared by Al Niebur and Top Moon Lee

Introduction and Objectives

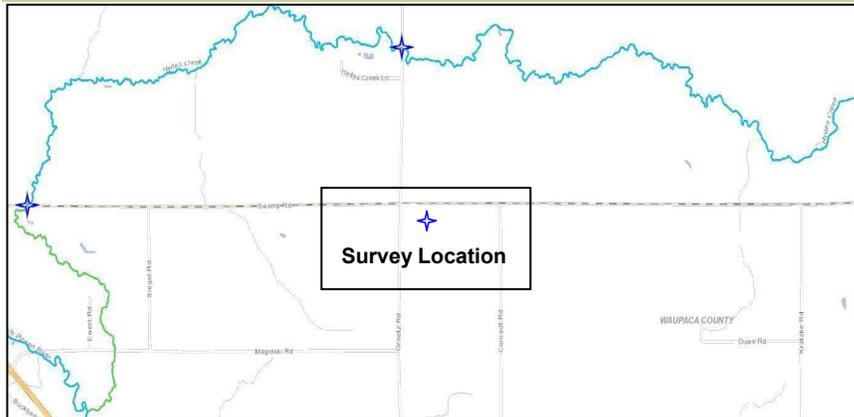
Hydes Creek is a Class I and II trout stream comprised of 8.73 miles of trout water. It originates in Shawano County and flows west into Waupaca County. Trout populations are supported entirely by natural reproduction with no stocking. Fishing access is primarily limited to road crossings. Objectives 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 Hydes Creek is on a 12 year rotation schedule with 3 sites identified for the segment of stream in Shawano and Waupaca Counties. 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	County	Survey Date	Distance	MSW	GPS (Start/Finish)	Method	Dippers	IBI
Swamp Rd Downstream	Waupaca	06/25/2013	521 ft	14.9 ft	44.67947,-88.85699 44.67966,-88.85665	Towed Barge Shocker	3	Yes
Swamp Rd Upstream	Shawano	06/25/2013	595 ft	17.0 ft	44.67974,-88.85638 44.68057,-88.85566	Towed Barge Shocker	3	No
Fairview Rd	Shawano	06/25/2013	683 ft	19.5 ft	44.68857,-88.81788 44.68847,-88.81731	Towed Barge Shocker	3	Yes

Results and Discussion

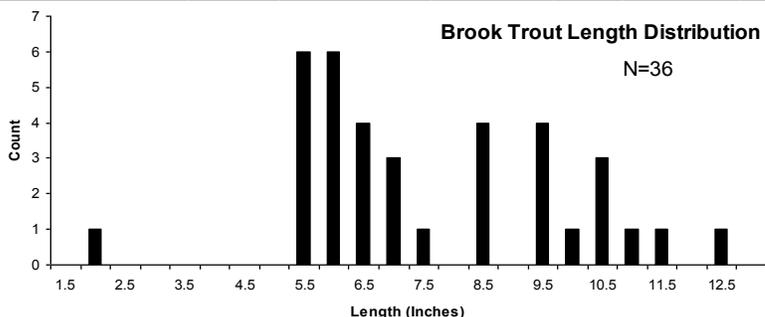
- The upstream reaches of Hydes creek support a low density brook trout population with adult CPEs only ranking at the 70th percentile or lower. Larger trout were present with some fish exceeding 12 inches.
- Young of year (YOY) were captured at only one site and in very low number. Spawning habitat may be limiting in Hydes Creek.
- An IBI survey was conducted at the most downstream location and indicated fair environmental quality. Habitat was poor in this area with high amounts of fine sediment. The presence of several thermally tolerant species indicate the lower reaches of this stream are likely prone to warming.
- Any easement acquisition should be focused on the Swamp Creek Rd crossing and upstream. Habitat development would be a high priority.

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 (max. daily mean water temp. usually <22°C).

Catch Per Effort

Station	Trout Species	Average Length and (Range)	Total (PCTL)	YOY	>5" (PCTL)	>8" (PCTL)	>10"	>12" (PCTL)
Swamp Rd Downstream	Brook	6.7 (5.6-8.5)	253 (55th)	10	242 (70th)	131 (90th)	61	10 (95th)
Swamp Rd Upstream	Brook	8.2 (2.4-12.6)	88 (30th)	0	88 (45th)	9 (35th)	0	0
Fairview Rd	Brook	-	8 (5th)	0	8 (10th)	8 (35th)	8	0



Species Community and IBI (Both Counties Combined)

Species Sampled	Total	IBI Score	Integrity Rating
Black Bullhead	13	30-40	FAIR
Brook Trout	26		
Central Mudminnow	11		
Common Shiner	11		
Creek Chub	33		
Fantail Darter	1		
Green Sunfish	1		
Johnny Darter	17		
White Sucker	55		