

Appendix A. Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Tributary to West Branch of the White River
(if stream is known by another name please list both names with the more common name first)

County: Waukegan WBIC: 151900

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

From its confluence with the West Branch of White River (44.08101 N, 89.35654 W) to perched culvert with rock (44.09611 N, 89.34998 W)

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Please provide coordinate locations in one of three formats:

Longitude/Latitude (Degrees, Minutes, Seconds): 89° 41' 28.7" W, 44° 55' 14.0" N

Longitude/Latitude (Decimal Degrees): -89.691332, 44.920576

WTM91 (easting and northing in meters): 544361, 494173

Upstream point coordinates: 44.09611 N, 89.34998 W

Downstream point coordinates: 44.08101 N, 89.35654 W

Classification proposed Classify as Class I Trout Stream

Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at Waukegan (office location)

Fish team supervisor and district fisheries supervisor have approved the classification.
Date 9/10/18

Fish Biologist has consulted with the following staff in their office or district

Permit Drafter Name Anthony Fischer Date 9/12/18 Concerns Yes No

Water Resource Specialist Name David Bolha Date 9/28/17 Concerns Yes No

Water Management Specialist Name Sarah Adkins Date 8/29/18 Concerns Yes No

Drinking and Groundwater staff, Name Shawn Eisch Date 8/28/18 Concerns Yes No



Public notice published in local newspaper or other media. Date 9/19/18

Notice sent to all clerks of the county, town, city, or village in which the stream is located.
Date 9/11/18

Trout Stream Classification Checklist (revised 8/2013) - Continued

Notice sent to legislators in the affected districts. Date 9/11/18

Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. Date 9/11/18

No hearing requested 30 days after public notice.

Hearing requested, held, and classification recommended. Date _____

Signed: David G. Date: 29 Aug 18
Fisheries Biologist

Approved: Kentell K. Kande Date: 30 Aug 2018
Fish Team Supervisor

David Boyarski Date: 12 Sept 2018
District Fisheries Supervisor

Unnamed Creek Stream Reclassification Worksheet - 2018.

Stream Unnamed Stream

Altern NA

WBIC: 151900

Count Wauslara

Current Unclassified

Current Boundaries

Gene starts at source in central Wautoma Township and flows generally south to confluence of West Branch of White River

Upst T19NR10ESS16 SWSW

GPS 44,11613 N, 89,32200 W

Down T19NR10ESS31 NENW

GPS 44,08101 N, 89,35654 W

Length 3.79 miles

Proposed Class 1

Proposed Boundaries

Gene starts at perched culvert on Fass property and flows generally south to confluence of West Branch of White River

Upst T19NR10ESS30 NENE

GPS 44,09611 N, 89,34998 W

Down T19NR10ESS31 NENW

GPS 44,08101 N, 89,35654 W

Length 1.5 miles

Streams Nature Coldwater, Cool-Cold Headwater, Cool-Cold Mainstem

Affect Clerk Contacts

Co We Megan Kapp, Clerk, 209 S. Saint Marie St., PO Box 488, Wautoma, WI, 54982, megan.kapp@co.wauslara.wi.us

To We Patty Nett, Clerk, W8674 Fawn Ct., Wautoma, WI, 54982

Clerk NA

To NA

Vill NA

Dist Senator Patrick Testin, PO Box 7882, Madison, WI 53707-7882

Representative Scott Krug, PO Box 8952, Madison, WI 53708

Legislative Chairperson(s):

Assembly Committee on Natural Resources and Sporting Heritage - Representative Joel Kleefisch, PO Box 8952 Madison, WI 53708

Senate Committee on Natural Resources and Energy - Senator Robert Cowles, PO Box 7882, Madison, WI 53707-7882

Senate Committee on Sporting Heritage, Mining, and Forestry - Senator Thomas Tiffany, PO Box 7882, Madison, WI 53707-7882

Public Notice (media sources):

Wauslara Argus, P. O. Box 838, Wautoma, WI, 54982

Justification:

This unnamed tributary to the West Branch of White River is very important to it's fishery and water quality.

It provides important cool water in the summer time and some of the systems only spawning habitat for brook trout.

The tributary should be classified Class 1 since it contains trout with 2 or more age groups, above the age of one year, and natural reproduction and survival of wild fish in sufficient numbers to utilize the available trout habitat and to sustain the fishery without stocking.

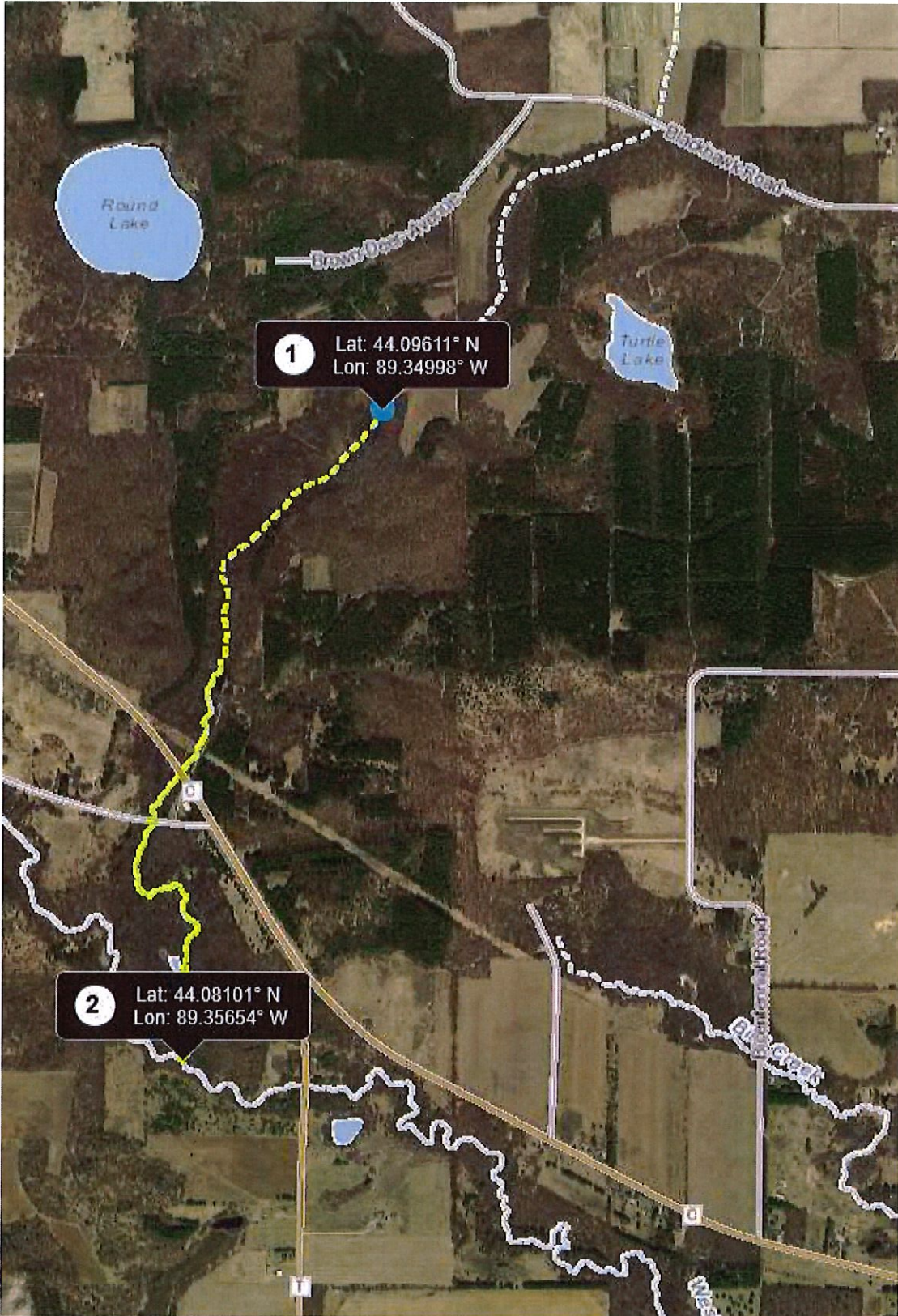
It was likely overlooked as being classified as trout water in the past, because of its small size.

Regulation will remain Category Green (Daily bag limit and length limit: 5 trout in total of any length.

No records of stocking taking place in this unnamed tributary.



Surface Water Data Viewer Map



Legend

- Municipality
- State Boundaries
- County Boundaries
- Major Roads**
 - Interstate Highway
 - State Highway
 - US Highway
- County and Local Roads**
 - County HWY
 - Local Road
- Railroads
- Tribal Lands
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water
- Index to EN_Image_Basemap_Leaf_Off



NAD_1983_HARN_Wisconsin_TM

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Notes





Surface Water Data Viewer Map



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- Intermittent Streams
- Lakes and Open water
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0.8 0 0.38 0.8 Miles

1:23,760

NAD_1983_HARN_Wisconsin_TM

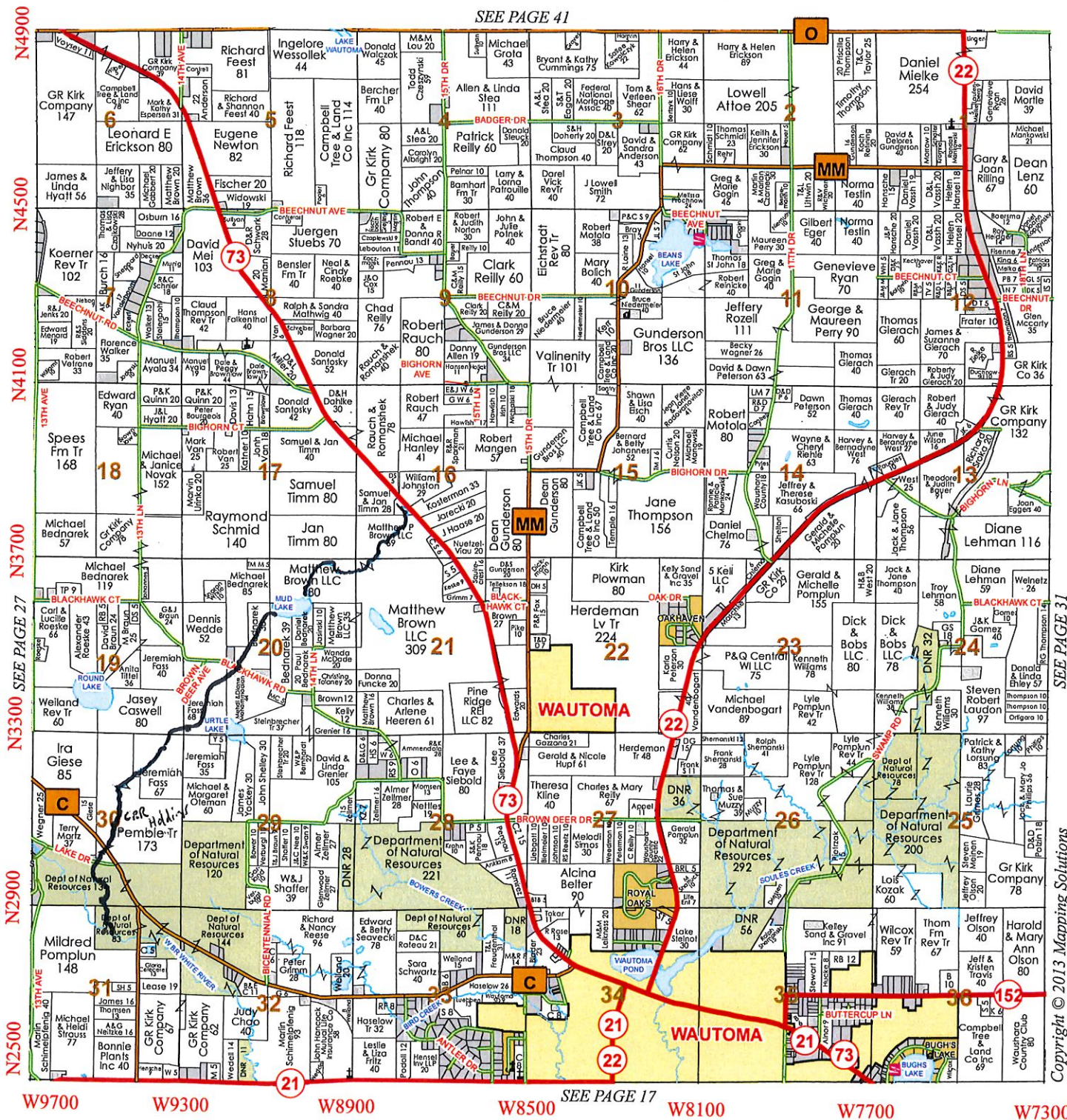
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Notes



WAUTOMA T19N • R10E

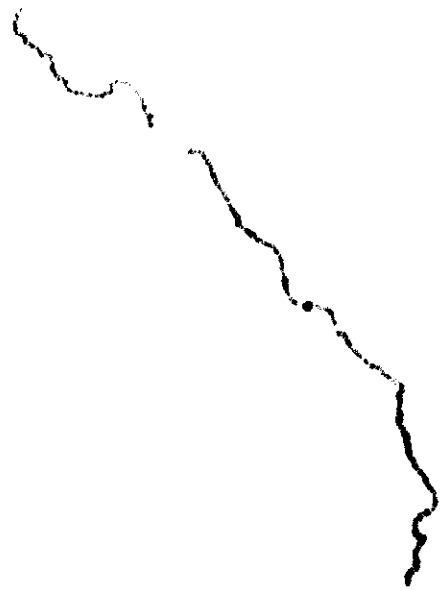
SEE PAGE 41



N4900 N4500 N4100 N3700 N3300 N2900 N2500
W9700 W9300 W8900 W8500 W8100 W7700 W7300

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SEE PAGE 17





2017 Stream Survey Report

Unnamed Tributary to West Branch of the White River

Potential (WBIC 151900)

Waushara County

Prepared by Joe Dax and Scott Bunde

Introduction and Objectives

The West Branch White River, in the White River Watershed, is a 7.90 mile river located in Waushara County. The West Branch originates at the West Branch Mill Pond, flows south southeast to eventually join up with the White River just south of Wautoma. It is one of a few streams in the state to support natural reproducing populations of Brook, Brown and Rainbow trout. Fishing access consists of large quantities of public land and multiple road crossings. Objectives for this survey are to determine species composition, relative abundance, and size structure to help classify a 3.79 mile tributary to the West Branch as a class 1 trout stream.

Regulations: Green

Size Limit: No Size Limit

Daily Bag Limit: 5 (In total)

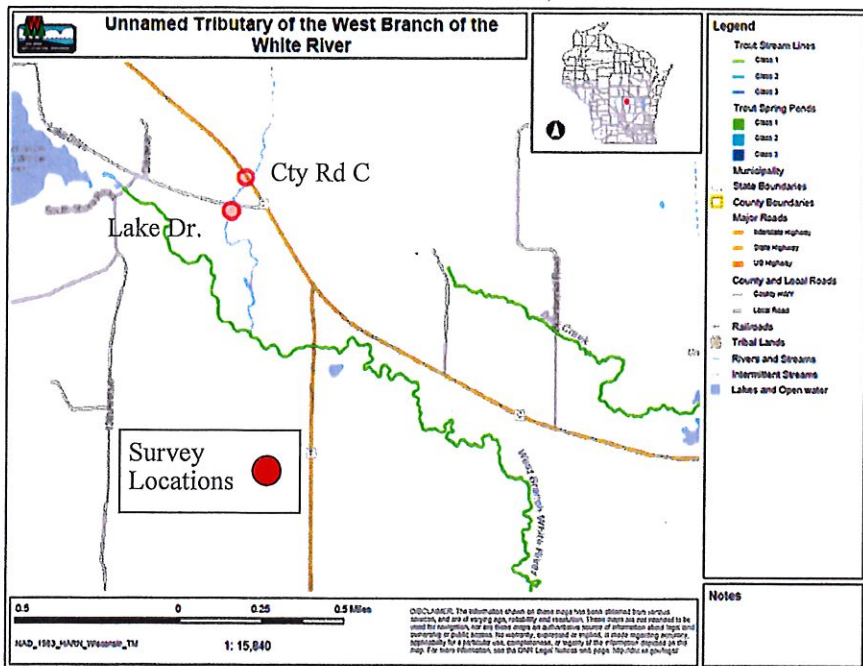
WISCONSIN DNR CONTACT INFO.

Dave Bartz—Fisheries Biologist
Scott Bunde - Fisheries Technician
 Wisconsin Dept. of Natural Resources
 427 E. Tower Drive, Suite 100
 Wautoma WI 54982

Phone: 920 - 787 - 3016
 E-mail: dave.bartz@wisconsin.gov

Survey Information

Station	Survey Date	Station Length	Temperature (F°)	MSW	GPS (Start/Finish)	Gear	Dippers	IBI
Lake Drive	08/29/2017	330 ft	55	5.6 ft	44.08577, -89.35800 44.08643, -89.35780	Backpack Shocker	2	Yes
County Road C	08/29/2017	330 ft	56	6.0 ft	44.08697, -89.35727 44.08770, -89.35664	Backpack Shocker	2	Yes



Survey Method

- All streams are sampled according to WDNR wadeable streams monitoring protocols. The Unnamed Tributary is a potential trout site for the segment of the West Branch of the White River in Waushara County.
- All sampling stations are electrofished with either a towed barge shocker (pictured below) or backpack shocker.
- Sampling distance is at least 35 times the mean stream width or a minimum of 330 feet (100 meters).
- All trout and other gamefish are measured for length.
- In at least one stream segment (if multiple stations are being sampled) all fish species are collected and counted for calculation of an Index of Biotic Integrity (IBI).
- Metrics used to describe trout populations include average length, catch per unit effort (CPUE) and length frequency distribution.



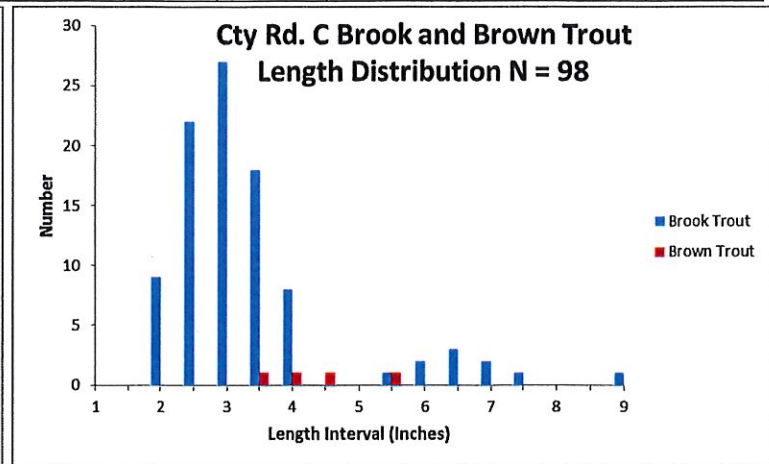
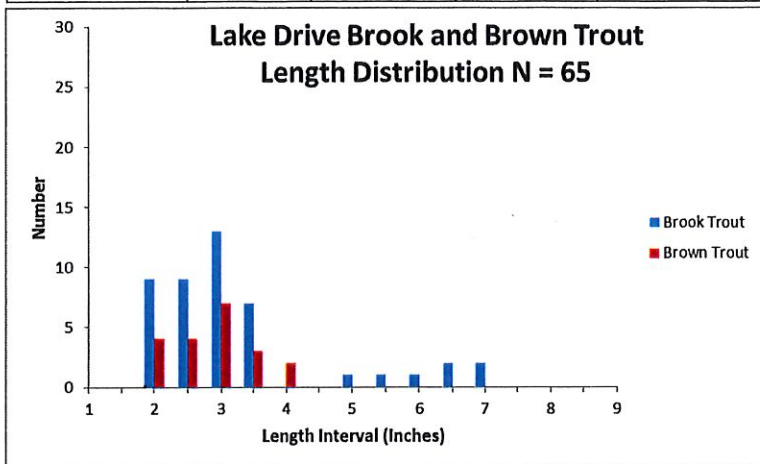
Metric Descriptions

- Catch per unit effort (CPUE)** is an indirect method of measuring fish population relative abundance. For all trout surveys we typically quantify CPUE by the number and size of trout captured per mile of stream. CPUE indexes are compared to statewide streams by percentile (PCTL). For example, if a CPUE is in the 90th percentile, it is higher than 90% of the other CPUEs in the state. CPUE percentiles can also be used to categorize trout abundance by 33rd (low density), 66th (moderate), 90th (high), and 95th (very high) benchmarks.
- 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). A coolwater stream IBI may also be reported when applicable.
- Length frequency distribution** is a graphical representation of the percentage of fish captured by half or one inch size intervals.

2017 Stream Survey Report - continued
 Unnamed Tributary to West Branch of the White River
 Potential (WBIC 151900)

Size and Abundance (CPUE) Metrics

Station	Species	Total Number Sampled	Average Length (inches)	Length Range (inches)	CPUE (No. per Mile)						
					Total CPUE (PCTL)	YOY CPUE	>5" CPUE (PCTL)	>6" CPUE (PCTL)	>8" CPUE (PCTL)	>10" CPUE	>12" CPUE (PCTL)
Lake Drive	Brook	45	3.5	2.0 - 7.0	720 (80th)	603	111 (55th)	79 (55th)	-	-	-
County Road C	Brook	94	4.2	2.0 - 9.2	1504 (93rd)	1206	159 (63rd)	143 (71st)	16 (50th)	-	-
Lake Drive	Brown	20	3.1	2.2 - 4.0	320 (66th)	286	0	-	-	-	-
County Road C	Brown	4	4.5	3.5 - 5.7	64 (37th)	16	0	-	-	-	-



Species Community and IBI - Lake Dr.			
Species Sampled	Total	IBI Score	Integrity Rating
Brook Trout	45	Coldwater IBI Score: 90	Coldwater IBI Rating: Excellent
Brown Trout	20		
Mottled Sculpin	3		



Mottled sculpin (pictured above) is a small nongame species commonly found in coldwater streams. Similar to trout they require colder temperatures, are considered thermally intolerant, and their presence can be indicative of healthier environmental quality.



Young of the year (YOY) Brook, Rainbow, and Brown Trout sampled at confluence of this tributary and the West Branch of White River.

Species Community and IBI - Cty Rd. C			
Species Sampled	Total	IBI Score	Integrity Rating
Brook Trout	94	Coldwater IBI Score: 90	Coldwater IBI Rating: Excellent
Brown Trout	4		
White Sucker	1		

Summary

- For the Tributary overall, brook trout density was at moderate to high levels with total trout from the 80th to 93rd percentile.
- Largest sized brook and brown trout were 9 inches and 5.5 inches respectively.
- Brook trout young of year (YOY) and yearling density were at moderately high levels.
- The fish assemblage sampled in the Unnamed Tributary indicated Excellent overall environmental quality.
- The Trout Potential survey was the first at the site and determined there are at least 2 age groups present above the age of one year.
- June 6, 2018 Scott Bunde and Dave Bartz walked the stream from County Rd C upstream to the perched culvert. The back pack shocker was used periodically along this walk to check trout presence. Brook trout of various ages were found along the entire stretch.

Entered 10/24/11

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name Unnamed Trib to W.Br. White River	Waterbody ID Code 151900	SWIMS Station ID 10049300	FH Database ID 149983464
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Date (MMDDYYYY) 10202017	Station Name US Confluence w/ W. Branch
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Latitude - Longitude Determination Method Used GPS	Datum Used WGS 84
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Start Latitude 44.08129	Start Longitude 89.35642	End Latitude 44.08196	End Longitude 89.35660	County Waushara
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Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
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Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH
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Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Below: _____ (m) <input type="checkbox"/> Above: _____ (m)	Water Clarity: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained
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Channel and Basin Characteristics

Mean Stream Width (m) 3	Station Length (m) 100
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Channel Condition: (check one) <input checked="" type="checkbox"/> Natural <input type="checkbox"/> > 20-year-old Channelization <input type="checkbox"/> 10- to 20-year-old Channelization <input type="checkbox"/> < 10-year-old Channelization <input type="checkbox"/> Concrete Channel
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Percent Channelization 0	Sinuosity 1.18	Gradient (m/km) 0.85%	Stream Order 1	Basin Area (km²)
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Comments / Notes

observed several small brook trout, mostly in pools. Also saw one larger (9-10") brook trout.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Page 2 of 2

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m)	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m)	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m)	15
	15	10	5	0	
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil	Limited erosion; 0.20 - 0.50 m of bank is bare soil	Moderate erosion; 0.51 - 1.0 m of bank is bare soil	Extensive erosion; > 1.0 m of bank is bare soil	10
	15	10	5	0	
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station	3
	10	7	3	0	
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7	Stream relatively deep and narrow; width/depth 8-15	Stream moderately deep and narrow; width/depth 16-25	Stream relatively wide and shallow; width/depth > 25	10
	15	10	5	0	
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14	Habitat diversity low; occasional riffles or bends, ratio 15 to 25	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25	15
	15	10	5	0	
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60%	Fines extensive in all habitats; > 60% of stream bed covered	5
	15	10	5	0	
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream	Cover common, but not extensive; 10 - 15% of stream	Occasional cover, limited to one or two areas; 5 - 9% of stream	Cover rare or absent; limited to < 5% of stream	10
	15	10	5	0	
Total Score					68

Wisconsin Department of Natural Resources

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Unnamed, White River Watershed (UF08)

[Return to Search](#) [Go to Watershed](#)

Unnamed Stream (151900)
 Size: 3.79 Miles
 Segment: 0 - 3.79
 Natural Community: Coldwater, Shallow Seepage
 Year Last Monitored: 2005
 General Condition: Unknown



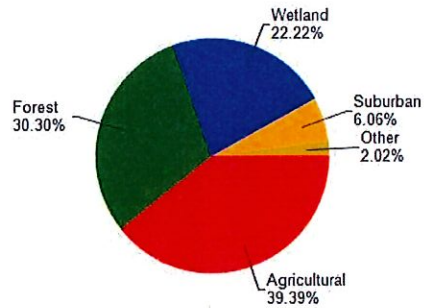
- Overview
- Conditions
- Goals
- Monitoring & Projects
- Ecosystem Challenges
- Fish & Habitat
- Photo Gallery
- Map Gallery

Watershed Characteristics

Unnamed is located in the White River watershed which is 149.81 mi². Land use in the watershed is primarily agricultural (39%), forest (30%) and a mix of wetland (22%) and other uses (8%). This watershed has 156.65 stream miles, 1,017.38 lake acres and 18,495.17 wetland acres.

Nonpoint Source Characteristics

This watershed is ranked Not Ranked for runoff impacts on streams, Not Ranked for runoff impacts on lakes and High for runoff impacts on groundwater and therefore has an overall rank of High. This value can be used in ranking the watershed or individual waterbodies for grant funding under state and county programs. However, all waters are affected by diffuse pollutant sources regardless of initial water quality. Applications for specific runoff projects under state or county grant programs may be pursued. For more information, go to [surface water program grants](#).



The Official Internet site for the Wisconsin Department of Natural Resources
 101 S. Webster Street PO Box 7921 Madison, Wisconsin 53707-7921 • 608.266.2621

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 Natural Community Coldwater, Shallow Seepage
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 General Condition Unknown



- Overview
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Counties		Waushara
Trout Water <input checked="" type="checkbox"/>		No
Outstanding or Exceptional <input checked="" type="checkbox"/>		No
Impaired Water <input checked="" type="checkbox"/>		No
Fish and Aquatic Life		
Current Use <input checked="" type="checkbox"/>		NA
Attainable Use <input checked="" type="checkbox"/>		NA
Designated Use <input checked="" type="checkbox"/>		NA



The Official Internet site for the Wisconsin Department of Natural Resources
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Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

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Channel and Basin Characteristics

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