

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 <i>Unnamed trib to L. Turtle</i>	Waterbody ID Code <i>792300</i>	SWIMS Station ID <i>10010919</i>	FH Database ID <i>128553</i>
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Date (MMDDYYYY) <i>09 06 2017</i>	Station Name <i>Unnamed @ County Line Rd</i>
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Latitude - Longitude Determination Method Used <i>Google Maps</i>	Datum Used <i>NAD 83</i>
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Start Latitude <i>42.565093</i>	Start Longitude <i>-88.775556</i>	End Latitude <i>42.584624</i>	End Longitude <i>-88.776098</i>	County <i>Waukesha</i>
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Water Characteristics

Time (24-hr clock) <i>7:10:27 AM</i>	Air Temperature (C) <i>15.50</i>	Water Temperature (C) <i>12.32</i>	Conductivity (µs/cm) <i>805.6</i>	Transparency (cm) <i>58</i>
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Dissolved Oxygen (mg/l) <i>10.04</i>	Dissolved Oxygen % Saturation <i>96.8</i>	pH <i>7.79</i>
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Flow (m³/sec) <i>0.025</i>	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 type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained
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Channel and Basin Characteristics

Mean Stream Width (m) <i>3</i>	Station Length (m) <i>100</i>
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Channel Condition: (check one)
 Natural
 > 20-year-old Channelization
 10- to 20-year-old Channelization
 < 10-year-old Channelization
 Concrete Channel

Percent Channelization <i>0</i>	Sinuosity <i>1.45</i>	Gradient (m/km) <i>0.31</i>	Stream Order <i>2</i>	Basin Area (km²) <i>14.39</i>
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Comments / Notes: *Width 8.6"*

	depth	flow
0.0	0	0
0.4	0.3	0.35
0.8	0.4	0.35
1.2	0.45	0.45
1.6	0.5	0.56
2.0	0.55	0.62
2.4	0.5	0.49
2.8	0.4	0.58
3.2	0.3	0.36
3.6	0.3	0.36
4.0	0.3	0.32
4.4	0.3	0.31
4.8	0.5	0.38
5.2	0.6	0.69
5.6	0.6	0.83
6.0	0.6	0.89

	depth	flow
6.4	0.55	0.60
6.8	0.50	0.53
7.2	0.35	0.25
7.6	0.2	0.4
8.0	0.15	0
8.4	0.10	0
8.8	0	0

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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
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	5
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	7
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
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
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
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	0
Total Score					57