

# 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>W. Br. Ladd Creek</i>		Waterbody ID Code <i>792500</i>	SWIMS Station ID <i>10048185</i>	FH Database ID <i>143528931</i>
Date (MMDDYYYY) <i>09062017</i>	Station Name <i>W. Br Ladd @ CTRB</i>			
Latitude - Longitude Determination Method Used <i>Google Maps</i>				Datum Used <i>WGS 84</i>
Start Latitude <i>43.535282</i>	Start Longitude <i>-88.768687</i>	End Latitude <i>42.534435</i>	End Longitude <i>-88.768826</i>	County <i>Walworth</i>

### Water Characteristics

Time (24-hr clock) <i>1145</i>	Air Temperature (C) <i>17</i>	Water Temperature (C) <i>12.18</i>	Conductivity (µs/cm) <i>722.1</i>	Transparency (cm) <i>120</i>
Dissolved Oxygen (mg/l) <i>9.52 mg/L</i>		Dissolved Oxygen % Saturation <i>91.4</i>		pH <i>7.75</i> TDS = <i>.442</i>
Flow (m³/sec) <i>.011</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 checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	

### Channel and Basin Characteristics

Mean Stream Width (m) <i>3</i>	Station Length (m) <i>100</i>			
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				
Percent Channelization <i>0</i>	Sinuosity <i>1.19</i>	Gradient (m/km) <i>.33</i>	Stream Order <i>2</i>	Basin Area (km²) <i>4.23</i>

Comments / Notes

*Flow:*

Stream width:	5.5 ft
0.0	0
0.5	.2
1.0	.25
1.5	.3
2.0	.3
2.5	.25
3.0	.35
3.5	.4
4.0	.4
4.5	.3
5.0	.15
5.5	0

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Rating Item	Excellent	Good	Fair	Poor	Score
<b>Riparian Buffer Width (m)</b> 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	
<b>Bank Erosion</b> 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
	15	10	5	0	
<b>Pool Area</b> % 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	
<b>Width:Depth Ratio</b> 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	5
	15	10	5	0	
<b>Riffle:Riffle or Bend:Bend Ratio</b> 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	10
	15	10	5	0	
<b>Fine Sediments</b> % 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	0
	15	10	5	0	
<b>Cover for Fish</b> % 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
	15	10	5	0	
<b>Total Score</b>					38