

**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>Ladd Creek</i>		Waterbody ID Code <i>792400</i>	SWIMS Station ID <i>10039595</i>	FH Database ID <i>74356359</i>
Date (MMDDYYYY) <i>08082017</i>	Station Name <i>E. Salt Box Rd.</i>			
Latitude - Longitude Determination Method Used <i>Google Maps</i>				Datum Used <i>WGS 84</i>
Start Latitude <i>42.538868</i>	Start Longitude <i>-88.747086</i>	End Latitude <i>42.538760</i>	End Longitude <i>-88.745132</i>	County <i>Walworth</i>

Water Characteristics

Time (24-hr clock) <i>1449</i>	Air Temperature (C)	Water Temperature (C) <i>18.17</i>	Conductivity (µs/cm) <i>766.3</i>	Transparency (cm) <i>80</i>
Dissolved Oxygen (mg/l) <i>10.45</i>		Dissolved Oxygen % Saturation <i>112.9</i>	pH <i>7.55</i>	
Flow (m³/sec) <i>_____</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>5.1</i>	Station Length (m) <i>178.5</i>				
Channel Condition: (check one)	<input type="checkbox"/> Natural	<input checked="" 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>0.75%</i>	Sinuosity <i>1.02</i>	Gradient (m/km) <i>0.17</i>	Stream Order <i>3</i>	Basin Area (km²) <i>16.4</i>	

Comments / Notes

TDS = 0.4908

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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) 15	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) <u>10</u>	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	10
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil <u>10</u>	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station <u>0</u>	0
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 <u>5</u>	Stream relatively wide and shallow; width/depth > 25 0	5
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 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 <u>5</u>	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	5
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% <u>5</u>	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream <u>15</u>	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream 0	15
Total Score					<u>50</u>