

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>L. Turtle @ 67</i>	Waterbody ID Code <i>791700</i>	SWIMS Station ID <i>10010960</i>	FH Database ID <i>128624</i>
Date (MMDDYYYY) <i>08082007</i>	Station Name <i>Little Turtle @ Hwy 67</i>		
Latitude - Longitude Determination Method Used <i>GPS</i>			Datum Used <i>NAD83</i>
Start Latitude <i>42.50627</i>	Start Longitude <i>-88.796684</i>	End Latitude _____	End Longitude _____
County <i>Dalworth</i>			

Water Characteristics

Time (24-hr clock) <i>1302</i>	Air Temperature (C) _____	Water Temperature (C) <i>16.85</i>	Conductivity (µs/cm) <i>755.9</i>	Transparency (cm) <i>120</i>
Dissolved Oxygen (mg/l) <i>10.04</i>		Dissolved Oxygen % Saturation <i>106.1</i>	pH, <i>7.50</i>	TDS= <i>48360</i>

Flow (m³/sec) <i>0.063</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>4.7</i>	Station Length (m) <i>164.5</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>1.13</i>	Gradient (m/km) <i>.15</i>	Stream Order <i>2</i>	Basin Area (km²) <i>21.8</i>
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Comments / Notes *15.2 ft stream width*

	depth	flow	depth	flow
<i>0.0</i>	<i>0</i>	<i>0</i>	<i>10.5</i>	<i>0.59</i>
<i>0.75</i>	<i>0.3</i>	<i>0.021</i>	<i>11.25</i>	<i>0.63</i>
<i>1.5</i>	<i>0.3</i>	<i>0.14</i>	<i>12.0</i>	<i>0.57</i>
<i>2.25</i>	<i>0.45</i>	<i>0.11</i>	<i>12.75</i>	<i>0.48</i>
<i>3.0</i>	<i>0.55</i>	<i>0.37</i>	<i>13.5</i>	<i>0.27</i>
<i>3.75</i>	<i>0.6</i>	<i>0.48</i>	<i>14.25</i>	<i>0.19</i>
<i>4.5</i>	<i>0.7</i>	<i>0.33</i>	<i>15.0</i>	<i>0.13</i>
<i>5.25</i>	<i>0.7</i>	<i>0.39</i>		
<i>6.0</i>	<i>0.8</i>	<i>0.54</i>		
<i>6.75</i>	<i>0.8</i>	<i>0.44</i>		
<i>7.5</i>	<i>0.8</i>	<i>0.44</i>		
<i>8.25</i>	<i>0.85</i>	<i>0.49</i>		
<i>9.0</i>	<i>0.8</i>	<i>0.49</i>		
<i>9.75</i>	<i>0.9</i>	<i>0.54</i>		

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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 10	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil <u>0</u>	0
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 <u>7</u>	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 0	7
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 <u>10</u>	Stream moderately deep and narrow; width/depth 16-25 5	Stream relatively wide and shallow; width/depth > 25 0	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 <u>15</u>	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 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	15
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% 5	Fines extensive in all habitats; > 60% of stream bed covered <u>0</u>	0
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream <u>10</u>	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream 0	10
Total Score					52