

# 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>Menomonee River</i>		Waterbody ID Code <i>16000</i>	SWIMS Station ID <i>10016339</i>	FH Database ID <i>50622</i>
Date (MMDDYYYY) <i>07052007</i>	Station Name <i>Shoen Lauren Park</i>			
Latitude - Longitude Determination Method Used <i>Swims</i>				Datum Used <i>NAD 1983</i>
Start Latitude <i>43.213924</i>	Start Longitude <i>-88.13974</i>	End Latitude <i>43.215870</i>	End Longitude <i>-88.139506</i>	County <i>Winchester</i>

Water Characteristics				
Time (24-hr clock) <i>1005</i>	Air Temperature (C) _____	Water Temperature (C) <i>20.57</i>	Conductivity (µs/cm) <i>945.4</i>	Transparency (cm) _____
Dissolved Oxygen (mg/l) <i>5.40</i>		Dissolved Oxygen % Saturation <i>61.6</i>	pH <i>7.04</i>	<i>TDS 604.9</i>
Flow (m³/sec) <i>.345</i>	Water Level (check one - measure distance if Above or Below Normal): <input type="checkbox"/> Normal <input type="checkbox"/> Below: _____ (m) <input checked="" type="checkbox"/> Above: <i>.01</i> (m)		Water Clarity: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	

Channel and Basin Characteristics				
Mean Stream Width (m) <i>7.5</i>		Station Length (m) <i>2102.5</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>1.14</i>	Gradient (m/km) <i>.02</i>	Stream Order <i>4</i>	Basin Area (km²) <i>48.72</i>

Comments / Notes *19.0 Feet wide*

<i>0</i>	<i>.5</i>	<i>0.56</i>	<i>10.8</i>	<i>0.6</i>	<i>1.56</i>
<i>.9</i>	<i>.8</i>	<i>1.02</i>	<i>11.7</i>	<i>1.0</i>	<i>1.35</i>
<i>1.8</i>	<i>.8</i>	<i>.70</i>	<i>12.6</i>	<i>1.0</i>	<i>1.77</i>
<i>2.7</i>	<i>1.0</i>	<i>1.56</i>	<i>13.5</i>	<i>0.8</i>	<i>2.01</i>
<i>3.6</i>	<i>0.9</i>	<i>1.67</i>	<i>14.4</i>	<i>0.8</i>	<i>1.65</i>
<i>4.5</i>	<i>0.5</i>	<i>1.71</i>	<i>15.3</i>	<i>0.8</i>	<i>1.33</i>
<i>5.4</i>	<i>0.8</i>	<i>1.87</i>	<i>16.2</i>	<i>0.7</i>	<i>1.28</i>
<i>6.3</i>	<i>1.0</i>	<i>1.64</i>	<i>17.1</i>	<i>0.4</i>	<i>1.72</i>
<i>7.2</i>	<i>0.9</i>	<i>2.02</i>	<i>18.0</i>	<i>0.5</i>	<i>1.77</i>
<i>8.1</i>	<i>0.9</i>	<i>2.33</i>	<del><i>18.9</i></del>	<del><i>0.4</i></del>	<del><i>0.16</i></del>
<i>9.0</i>	<i>0.9</i>	<i>2.04</i>	<del><i>18.8</i></del>	<del><i>0.4</i></del>	<del><i>0.16</i></del>
<i>9.9</i>	<i>0.9</i>	<i>2.04</i>	<i>18.8</i>	<i>0.4</i>	<i>0.16</i>

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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)  15	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m)  10	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	15
<b>Bank Erosion</b> 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  0	10
<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  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  0	7
<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  15	Stream relatively deep and narrow; width/depth 8-15  10	Stream moderately deep and narrow; width/depth 16-25  5	Stream relatively wide and shallow; width/depth > 25  0	10
<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  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  5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25  0	5
<b>Fine Sediments</b> % 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  0	10
<b>Cover for Fish</b> % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream  15	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	10
<b>Total Score</b>					67