

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>Stony Creek & Moraine Dr. (Moraine Dr)</i>		Waterbody ID Code <i>28700</i>	SWIMS Station ID <i>10008868</i>	FH Database ID <i>72784</i>
Date (MMDDYYYY) <i>09112017</i>	Station Name <i>Stony Creek 3 - (Moraine Dr)</i>			
Latitude - Longitude Determination Method Used <i>SWIMS</i>				Datum Used WGS84 <i>NAD83</i>
Start Latitude <i>43.52787°N</i>	Start Longitude <i>88.14783°W</i>	End Latitude <i>43.52807°N</i>	End Longitude <i>88.14904°W</i>	County <i>Washington</i>

Water Characteristics

Time (24-hr clock) <i>0957</i>	Air Temperature (C) <i>17</i>	Water Temperature (C) <i>12.31</i>	Conductivity (µs/cm) <i>642.5</i>	Transparency (cm) <i>+120</i>
Dissolved Oxygen (mg/l) <i>9.77</i>		Dissolved Oxygen % Saturation <i>93.0</i>		pH <i>7.62</i>
Flow (m³/sec) <i>0.022</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

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>1.52</i>	Gradient (m/km) <i>0.29</i>	Stream Order <i>2</i>	Basin Area (km²) <i>30.06</i>

Comments / Notes

Flow table in column

Flow (m³/sec)	D	V	D	V	
0	0.3	.74	7.5	0.25	.64
.5	0.3	.74	8.0	0.25	.71
1.0	0.3	.72	8.5	0.25	.93
1.5	0.3	.60	9.0	0.25	.75
2.0	0.3	.71	9.5	0.25	.69
2.5	0.3	.69	10.0	0.25	.47
3.0	0.3	.77	10.5	0.25	.31
3.5	0.3	.80	11.0	0.25	.51
4.0	0.3	.82	11.5	0.2	.38
4.5	0.3	.79	12.0	0.2	.32
5.0	0.3	.70			
5.5	0.3	.61			
6.0	0.3	.66			
6.5	0.3	.76			
7.0	0.3	.73			

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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) 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
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 0	5
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 0	3
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 5	Stream relatively wide and shallow; width/depth > 25 0	0
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 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 0	10
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 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					62