State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Page 1 of 2

Instructions: **Bold** fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
~~Menomonee River~~ Butler Creek	18100	10039174	73706436

Date (MMDDYYYY)	Station Name
07052017	Butler Creek @ Campbell Court

Latitude - Longitude Determination Method Used	Datum Used
GPS	NAD 83

Start Latitude	Start Longitude	End Latitude	End Longitude	County
43.11198	-88.08043	43.11034	-88.08132	Milwaukee

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
9:27		18.4	1545	72

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH	
7.45	81.60%	7.2	tds 978.3

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
.033	☐ Normal ☐ Below: _____ (m) ☒ Above: .1 ____ (m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
5.85	213

Channel Condition: (check one)
☐ Natural ☐ > 20-year-old Channelization ☒ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
Modified	1.19 ~~2.4~~	~~≠~~ .29	3	29.48

Comments / Notes [15 ft wide]

Rocky Bottom Cobble to gravel

Depth	Flow		Depth	Flow
0.0	.4	.09	11.25	.3	.63
0.75	.3	.31	12.00	.35	.43
1.5	.3	.27	12.75	.35	.32
2.25	.4	.21	13.5	.3	0
3.00	.3	.34	14.25	.3	0
3.75	.3	.17	15.0	.1	0
4.5	.3	.49			
5.25	.55	.52			
6.00	.45	.60			
6.75	.5	.32			
7.5	.5	.53			
8.25	.45	.95			
9.0	.46	.78			
9.75	.45	.37			
10.5	.3	.70			

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	(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 10	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 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)
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	(10)
				Total Score	62