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)

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Instructions: Bold fields must be completed. Record all measurements in metric units.									
Station Summary		Market Architecture							
Stream Name			Waterbody ID (Code SWI	MS Station ID	FH Database ID			
Daru	in Creek.		791800	10	0048186	10048186			
Date (MMDDYYYY)	Station Name	A) .						
07/06/2017		n Creek G	3 North						
Latitude - Longitude I				•		Datum Used			
	GPS	>				NAD83			
Start Latitude	Start Longitude	End Latitude		ongitude	County				
42.590731	1 -88-76 150	97 42.5903	391 -8	8,7591	80 m	al worth			
Water Characteristics									
Time (24-hr clock)	ir Temperature (C) Water Temperatu		re (C) Cor	nductivity (μs		Transparency (cm)			
0930	17.5		3 890			63			
Dissolved Oxygen (mg/l)	C	Dissolved Oxygen %	Saturation	рН					
And the state of t	-	gang op have been been been been been been been be	المراجعة الم		7.3	5			
Flow (m³/sec)	Water Level (check on	e - measure distanc	e if Above or Beld	ow Normal):	Water Clarity	/: _.			
0.211	Normal Belo	w:(m)	Above: <u>(</u>).0 <u>5</u> (m) Clear	Turbid Stained			
Channel and Basin Ch	naracteristics								
Mean Stream Width (m) Station Length (m)									
`	4.3			1	(O)				
Channel Condition: (check one)	Natural	-year-old nnelization	10- to 20-year Channelization		< 10-year-old Channelization	Concrete Channel			
Percent Channelizatio	n Sinuosity	Gradient (m	/km)	Stream Orde		sin Area (km²)			
\mathcal{D}	1014	1 0	, 20		E.	59.71			
Comments / Notes	DS= 0.576					,			
6.11		A.	A						
(Other Sheet has flow data)									



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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	Riparian zone well protected; buffer wide (> 10.0 m)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m)	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m)	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m)	
rock	15	(10)	5	. 0	
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil	Limited erosion; 0.20 - 0.50 m of bank is bare soil	Moderate erosion; 0.51 - 1.0 m of bank is bare soil	Extensive erosion; > 1.0 m of bank is bare soil	10
	15	(10)	5	0	
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station	Pools present; not frequent or overabundant; 30 to 39% or 61 to 70% of station	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station	3
	10	7	(3)	0	
Width:Depth Ratio Average stream width divided by average thalweg depth in runs	Streams very deep and narrow; width/depth ≤ 7	Stream relatively deep and narrow; width/depth 8-15	Stream moderately deep and narrow; width/depth 16-25	Stream relatively wide and shallow; width/depth > 25	10
and pools	15	(10)	5	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	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14	Habitat diversity low; occasional riffles or bends, ratio 15 to 25	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25	
	15	10	(5)	0	<u>.</u>
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60%	Fines extensive in all habitats; > 60% of stream bed covered	5
	15	10	5	0 .	
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream	Cover common, but not extensive; 10 - 15% of stream	Occasional cover, limited to one or two areas; 5 - 9% of stream	Cover rare or absent; limited to < 5% of stream	15"
	15	10	5	0	
				Total Score	(58)

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Instructions: Bold fields must be completed. Record all measurements in metric units. Station Summary SWIMS Station ID FH Database ID Waterbody ID Code Stream Name 791800 10048186 10048186 Varien Creek Date (MMDDYYYY) Station Name Darien Creek @ North 07/06/2017 Datum Used Latitude - Longitude Determination Method Used NAD 23 GPS End Longitude End Latitude County Start Longitude Start Latitude -88-759186 Walworth 42.59039 42.590739 -88.7615097 Water Characteristics Conductivity (µs/cm) Transparency (cm) Water Temperature (C) Time (24-hr clock) Air Temperature (C) 03 930 17.58 Dissolved Oxygen % Saturation Dissolved Oxygen (mg/l) 7.35 Water Clarity: Water Level (check one - measure distance if Above or Below Normal): Flow (m³/sec) Clear X Turbid Stained Below: _ 0211 _ Normal (m) Channel and Basin Characteristics Station Length (m) Mean Stream Width (m) 160 **Channel Condition:** 10- to 20-year-old < 10-year-old > 20-year-old Concrete Channel Natural Channelization Channelization (check one) Channelization Basin Area (km²) Stream Order Gradient (m/km) Sinuosity Percent Channelization 1.14 .20 0 bital Width = 16.5 CA Comments / Notes 16.5/20= 0.825 Distance Depth Distance 12.8 TDS= .574 603 1,6 24 14.4 10 .81 3.2 15.2 1.0 .45 .84 4 10 4.8 ,72 Bank 12 .18 5.6 2) E. D= 16.5 6.4 .41 7.2 200 8 0 (04) .05 9.10 · · (02 10.4 .56 11.2 1.6 100 .50 12

t, s

