

Station Summary

Waterbody Name ARROWHEAD RIVER		WBIC 241700	Field Seq no. generated by SWIMS 199649962
SWIMS Station ID 713267	SWIMS Station Name ARROWHEAD RIVER - BREEZEWOOD (WOODLAND) ROAD		
Field Sample ID (retrieval date) 20190927-71-01	Basin (WMU) WOLF RIVER	Watershed Name ARROWHEAD RIVER AND DAG	County WINNEBAGO
Project Name LARGE RIVER SUPPLEMENTAL MONITORING IN FOX AND WOLF RIVER BASIN			

Latitude 44.155025	Longitude -88.68801	Determination Method Waypoint 34	Datum Used
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Site Access Details: 5m US of private/farm bridge, DS of Woodland Dr, sample site. Center of channel

Sample and Site Descriptors

Sampling Device

Standard Non-wadeable Hester Dendy Hester Dendy Area Calculation = Plate Size (cm) _____
 Number of Plates _____
 Other Device: _____ Device Area Calculation = Plate Size (cm) _____

Habitat Sampled

Suspended River Bed

Snags (no./100m) 0 Avg. size (dbh) — Coniferous and/or Deciduous (circle)

Riparian Land Use, Vegetation, and Condition: one side manicured lawn, other side wetland / Agriculture

Substrate Composition

Bedrock _____ % Boulder _____ % Cobble _____ % Gravel _____ %
 Sand _____ % Silt _____ % Clay 100 % Muck _____ %
 Aquatic Macrophytes _____ % CWD _____ % Other (_____): _____ %

Field Measurements

	Deployment	Retrieval	Total Colonization Time (Days)
Date:	7/31/19	9/27/19	58
Time:	16:15	14:30	
Personnel:	DB, ZK	DB, ZK	
Water Depth at Location (m):	1.0	1.3	
Sampler Height Above Substrate (m):	0.3	0.3	
Bank Placement: (R) L			
Distance From Bank:	4m	4m	
Water Temp (C):	24.1	15.9	
Water Color (clear, turbid, stained):	turbid	turbid	
D.O. (mg/L):	11.3 (137.6% sat.)	5.9 (62.0%)	
pH:	8.1	7.6	
Conductivity:	718.5	727.0	
Transparency Tube (cm):	91	34	
Turbidity (NTUs):			
Water Velocity (m/s):	N/A (0)	0.444 ft/s	

Non-Wadeable Macroinvertebrate Field Data Report

Form 3200-136 (R 10/11)

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Draw Map:

Ethanol replaced the second day?	Yes	No
Label on inside of jar?	Yes	No
Label on outside of jar?	Yes	No

Additional Notes:

For Lab Use Only		
Sample Sorter <i>Cowh, Natalie</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>44.8%</i>
Date Processed <i>11/15/20</i>	Specimens Saved <i>subsample archived in ABC until Jan 2024</i>	

<i>F4 -21</i>	<i>05-19</i>	<i>61-33</i>	<i>F1</i>	<i>A3</i>	<i>H4</i>	<i>E1</i>	<i>F5</i>	<i>A5</i>	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><i>202 + 179</i></div> <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: inline-block; margin-left: 10px; text-align: center; vertical-align: middle;"><i>500</i></div>
	<i>F7-19</i>		<i>A4</i>	<i>F3</i>	<i>02</i>	<i>D1</i>	<i>C5</i>		
<i>H7-3</i>	<i>H5-24</i>		<i>00</i>	<i>G8</i>	<i>F6</i>	<i>C2</i>	<i>02</i>		
			<i>C7</i>	<i>G3</i>	<i>E2</i>	<i>B1</i>	<i>08</i>		
			<i>07</i>						

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon	L/R Y/N
caenis	L	0-14	23	Merrillum B 2019	imm	N	N
C. punctata	L	x1	11	Klub 2016			
stenacron	L	-111	8	Merrillum B 2019	imm		
Coenagrionidae	L	-1111	9	"	imm	N	
Enallagma	L	11	2	"	imm		
Epithema cynosuza = Tetragoneuria cynosuza	L	111	3	Tennessee 2019			
Hydrophilidae	P	1111	4	Merrillum B 2019		N	
Decetis	L	1	1	"	imm		
Triaenodes	L	1	1	"	imm		
Polycentropodidae	L	1111	4	"	imm	N	
Nyctophylax	L	11	2	"			
Polycentropus	L	0-111	30	"			
Scalis	L	1	1	"			
Elophila	L	1	1	"			
Dubiraphia	L	11	2	"			
Berosus	L	11	2	"			
Hydrophila	L	1	1	Wiggins 1996			
Nephegenidae	L	1	1	Merrillum B 2019	imm	N	
Hyaella azteca	A	0	25	Sorek et al 2015			
Coccidotea racovitzai racovitzai	A	B-11	48	Will 1972			
Cyclopidae	A	1	1	Thorp Reg 2016			
Dugesidae	A	x111	13	"			
Phyza	A	111	3	"			
Gyraulid circumstriatus	A	1	1	"			
Bitomyia tentaculata	A	11	2	"			
Stylaria lacustris	A	1	1	Kath Brin 1998			↓
Split A2a Chironomidae	L	Bx-111					
Split A2b Chironomidae	L	Bx-111					
Split A2c Chironomidae	L	Bx-111					
Split A2d Chironomidae	L	Bx-111					
Split A2e Chironomidae	L	Bx-111					
Split A2f Chironomidae	L	B-11-111					
Split A3 worms	A	111-111					
Tanyptera 08270000	L	111		And et al 2013	mt-ndet/imm/can	N	N
Ablabesmyia (Ablabesmyia)	L	88, 121		"	imm		
Zaurelmyia	L	8-	35	"			
Thienemannimyia sculp	L	-1111	9	"	imm		
Orthocladiinae 08300000	L	"	2	"	imm		
Chironomidae 08330000	L	-	5	"	mt-ndet/imm	n=1, Y	↓

