

**Maine Department of Environmental Protection
Biological Monitoring Unit
BioME Aquatic Life Classification Attainment Report**

Station Information

Station Number: S195	DEP Drainage: Kennebec
Waterbody: Kennebec River	HUC Code: 01030003
Town: SKOWHEGAN	HUC Name: Lower Kennebec
Directions: 4.1 km above S. D. Warren Co.	Latitude: Deg Min Sec
	Longitude: Deg Min Sec
	Stream Order: 6

Sample Information

Log Number: 1409	Type of Sample: Cones	Date Deployed: 20-JUL-04
Subsample Factor: X1	Replicates: 3	Date Retrieved: 13-SEP-04

Classification Attainment

Statutory Class: B	Final Determination: B	
Model Result with P > .6: B	Reason for Determination: Model	
Date Last Calculated:		

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.16	Class A, B, or C	1.00
Class B	0.54	Non-Attainment	0.00
		<u>A Model</u>	
<u>B or Better Model</u>		Class A	0.10
Class A or B	0.86	Class B or C or Non-Attainment	0.90
Class C or Non-Attainment	0.14		

Model Variables

01 Total Abundance of Individuals	130.67	18 Relative Abundance - Ephemeroptera	0.36
02 Generic Richness	43.00	19 EPT Generic Richness	18.00
03 Plecoptera Abundance	1.33	21 Sum of Abundances: <i>Dicrotendipes</i> ,	2.88
04 Ephemeroptera Abundance	47.33	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	3.67	23 Relative Generic Richness- Plecoptera	0.02
06 Hilsenhoff Biotic Index	6.11	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	10.63
07 Relative Abundance - Chironomidae	0.28	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.30	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	9.98
09 <i>Hydropsyche</i> Abundance	0.33	28 EP Generic Richness/14	0.71
11 <i>Cheumatopsyche</i> Abundance	6.67	30 Presence of Class A Indicator Taxa/7	0.14
12 EPT Generic Richness/ Diptera Generic Richness	1.38		

Five Most Dominant Taxa

		Taxa Rank	Taxa Name	Percent
		1	Stenacron	25.85
		2	Rheotanytarsus	17.36
		3	Neureclipsis	16.84
		4	Stenonema	6.62
		5	Cheumatopsyche	5.10

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Station Number S195 Town: SKOWHEGAN Date Deployed: 20-JUL-04
Log Number: 1409 Waterbody: Kennebec River Date Retrieved: 13-SEP-04

Sample Collection and Processing Information

Sampling Organization:
Taxonomist: Michael Winnell

Waterbody Information

Water Temperature: 21.0 °C Specific Conductance Channel Width:
Velocity: Dissolved Oxygen: 7.7 ppm Channel Depth:

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Stressor</u>	<u>Location</u>
	Open		Not Designated

Substrate

Comments about the Station or Sample

7/20/04 Date: Surface; DO: 8.2mg/L; At bridge Bottom; DO: 8.45mg/l; Temp: 20.9;see field sheet

Comments about the Final Determination

**Maine Department of Environmental Protection
Biological Monitoring Unit**

Station Number: S195 Waterbody: Kennebec River

Town: SKOWHEGAN

Log Number: 1409 Subsample: X1 Replicates: 3 Calculated:

BioME Aquatic Life Taxonomic Inventory Report

Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
		<i>Pristina</i>	08020202004			0.00	0.67
<i>Pristina osborni</i>	08020202004007	0.67	0.00		--	0.5	0.0
<i>Ripistes</i>	08020202011	0.00	1.00		--	0.0	0.8
<i>Ripistes parasita</i>	08020202011001	1.00	0.00		--	0.8	0.0
<i>Slavina</i>	08020202012	0.00	0.33		--	0.0	0.3
<i>Slavina appendiculata</i>	08020202012001	0.33	0.00		--	0.3	0.0
<i>Uncinaiis</i>	08020202017	0.00	0.67		CG	0.0	0.5
<i>Uncinaiis uncinata</i>	08020202017001	0.67	0.00		--	0.5	0.0
<i>Orconectes</i>	09010301008	0.00	0.33		CG	0.0	0.3
<i>Orconectes limosus</i>	09010301008013	0.33	0.00		--	0.3	0.0
<i>Acroneuria</i>	09020209042	0.00	1.33	0	PR	0.0	1.0
<i>Acroneuria lycorias</i>	09020209042125	1.33	0.00		--	1.0	0.0
<i>Hagenius</i>	09020302008	0.00	0.33	1	PR	0.0	0.3
<i>Hagenius brevistylus</i>	09020302008015	0.33	0.00		--	0.3	0.0
<i>Neurocordulia</i>	09020305026	0.00	0.33	2	PR	0.0	0.3
<i>Neurocordulia obsoleta</i>	09020305026051	0.33	0.00		--	0.3	0.0
<i>Coenagrionidae</i>	09020309	0.33	0.33		--	0.3	0.3
<i>Argia</i>	09020309048	1.00	1.00	7	PR	0.8	0.8
<i>Baetis</i>	09020401001	0.00	0.33	4	CG	0.0	0.3
<i>Baetis intercalaris</i>	09020401001008	0.33	0.00		--	0.3	0.0
<i>Acentrella</i>	09020401008	0.00	0.33	3	CG	0.0	0.3
<i>Acentrella ampla</i>	09020401008001	0.33	0.00		--	0.3	0.0
<i>Plauditus</i>	09020401012	0.67	0.67		CG	0.5	0.5
<i>Heptageniidae</i>	09020402	8.33	0.00		--	6.4	0.0
<i>Leucrocuta</i>	09020402011	1.00	1.24	1	SC	0.8	0.9
<i>Stenacron</i>	09020402014	0.00	33.78	7	SC	0.0	25.9
<i>Stenacron interpunctatum</i>	09020402014045	27.33	0.00		--	20.9	0.0
<i>Stenonema</i>	09020402015	6.33	8.65	4	SC	4.8	6.6
<i>Stenonema modestum</i>	09020402015051	0.67	0.00		--	0.5	0.0
<i>Isonychia</i>	09020404018	0.67	0.67	2	CF	0.5	0.5
<i>Paraleptophlebia</i>	09020406026	1.33	1.33	1	CG	1.0	1.0
<i>Tricorythodes</i>	09020411038	0.33	0.33	4	CG	0.3	0.3
<i>Chimarra</i>	09020601003	1.67	1.67	2	CF	1.3	1.3
<i>Neureclipsis</i>	09020603008	22.00	22.00	7	CF	16.8	16.8
<i>Cheumatopsyche</i>	09020604015	6.67	6.67	5	CF	5.1	5.1
<i>Hydropsyche</i>	09020604016	0.00	0.33	4	CF	0.0	0.3
<i>Hydropsyche scalaris-group</i>	09020604016048	0.33	0.00		--	0.3	0.0

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Replicates: 3

Calculated:

BioME Aquatic Life Taxonomic Inventory Report

Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
		<i>Hydroptila</i>	09020607026			1.00	1.00
<i>Micrasema</i>	09020609044	0.00	0.33	2	SH	0.0	0.3
<i>Micrasema rusticum-grp.</i>	09020609044100	0.33	0.00		--	0.3	0.0
<i>Ceraclea</i>	09020618072	0.33	0.33	3	CG	0.3	0.3
<i>Oecetis</i>	09020618078	3.67	6.67	8	PR	2.8	5.1
<i>Oecetis inconspicua-complex</i>	09020618078156	3.00	0.00		--	2.3	0.0
<i>Chironomidae</i>	09021011	2.67	0.00		--	2.0	0.0
<i>Ablabesmyia</i>	09021011001	0.00	1.08	8	PR	0.0	0.8
<i>Ablabesmyia mallochi</i>	09021011001004	1.00	0.00		--	0.8	0.0
<i>Corynoneura</i>	09021011036	0.33	0.36	7	CG	0.3	0.3
<i>Cricotopus</i>	09021011037	0.67	0.72	7	SH	0.5	0.6
<i>Cladotanytarsus</i>	09021011068	0.33	0.36	7	CG	0.3	0.3
<i>Paratanytarsus</i>	09021011071	0.33	0.36	6	--	0.3	0.3
<i>Rheotanytarsus</i>	09021011072	21.00	22.68	6	CF	16.1	17.4
<i>Stempellina</i>	09021011073	0.33	0.36	2	CG	0.3	0.3
<i>Tanytarsus</i>	09021011076	1.33	2.16	6	CF	1.0	1.7
<i>Tanytarsus glabrescens</i>	09021011076134	0.67	0.00		--	0.5	0.0
<i>Dicrotendipes</i>	09021011085	2.67	2.88	8	CG	2.0	2.2
<i>Microtendipes</i>	09021011094	0.33	1.44	6	CF	0.3	1.1
<i>Microtendipes pedellus-grp.</i>	09021011094166	0.67	0.00		--	0.5	0.0
<i>Microtendipes rydalensis-grp.</i>	09021011094168	0.33	0.00		--	0.3	0.0
<i>Polypedilum</i>	09021011102	0.00	0.36	6	SH	0.0	0.3
<i>Polypedilum illinoense-grp.</i>	09021011102185	0.33	0.00		--	0.3	0.0
<i>Helopelopia</i>	09021011114	3.00	3.24	6	PR	2.3	2.5
<i>Simulium</i>	09021012047	0.33	0.67	4	CF	0.3	0.5
<i>Simulium fibrinflatum</i>	09021012047059	0.33	0.00		--	0.3	0.0
<i>Stenelmis</i>	09021113070	0.33	0.33	5	SC	0.3	0.3
<i>Amnicola</i>	10010104013	0.00	0.67		SC	0.0	0.5
<i>Amnicola limosa</i>	10010104013018	0.67	0.00		--	0.5	0.0
<i>Physa</i>	10010202026	0.33	0.33		SC	0.3	0.3