

MACROINVERTEBRATE DATA SHEET

Please check the box next to the "Site #" if this is a new site and please be sure to attach a map. (PLEASE PRINT)

☐ Site # _____ Stream _____ County _____

Site Location _____

Time (military time) _____ Rainfall (inches in last 7 days) _____ Water Temp. (°C) _____

Trained Data Submitter (responsible volunteer) _____ Stream Team Number _____

Trained Participants _____

Invertebrate Type	30 pks	30 pks	Net Set #3	Score
Habitat type →	OakCreek	PictureCanyon		After entering the number(#)
Overall # organisms	203	1008		
# of families (richness)	13	8		2017 Leaf packs 30 pks each location
<u>Sensitive</u>	<u># of Organisms</u>	<u># of Organisms</u>	<u># of Organisms</u>	<u>Circle Types Present</u>
Caddisfly Larvae <i>case</i>	33			3
Caddisfly <i>no case</i>	61			3
Mayfly Nymphs	23			3
Gilled Snails (right)				3
Riffle Beetles	1			3
Stonefly Nymphs	7			3
Water Penny Larvae				3
<u>Somewhat Tolerant</u>	<u># of Organisms</u>	<u># of Organisms</u>	<u># of Organisms</u>	<u>Circle Types Present</u>
Other Beetle Larvae		3		2
Clams/Mussels				2
Crane Fly Larvae	1			2
Crayfish				2
Dragonfly Nymphs	2	33		2
Damselfly Nymphs		330		2
Scuds	1			2
Sowbugs				2
Fishfly Larvae		2		2
Alderfly Larvae				2
Watersnipe Fly				2
<u>Tolerant</u>	<u># of Organisms</u>	<u># of Organisms</u>	<u># of Organisms</u>	<u>Circle Types Present</u>
Aquatic Worms	41	435		1
Black Fly Larvae	2			1
Leeches	7	33		1
Midge Larvae	12	1		1
Pouch Snails (left)	12	171		1
Other Snails (flat)				1
<div style="display: flex; justify-content: space-between; font-size: small;"> < 12 = Poor 12-17 = Fair 18-23 = Good > 23 = Excellent </div>				Water Quality Rating

Comments (mention any changes from your usual readings) _____

Fish Present (Please Mark) Yes ☐ or No ☐

Step 24 of 24

Picture Canyon 2017

Calculated Values

Total Number of Individuals

33.99

Total Tolerance Value

248.2

Your Biotic Index

7.30

Your Percent EPT

1.2

What Do These Numbers Mean?

Biotic Index is a comparison of the abundance of taxa and their tolerance to environmental stress. The index can indicate organic and nutrient pollution. The lower the biotic index, the better the water quality.

Biotic index	Water quality	Degree of organic pollution
< 3.75	Excellent	Organic pollution unlikely
3.75–5.0	Good	Some organic pollution
5.1–6.5	Fair	Substantial pollution likely
6.6–10.0	Poor	Severe pollution likely

Percent EPT is short for the total number of Ephemeroptera (mayflies), Plecoptera (stoneflies), and Trichoptera (caddisflies). Many species within these three groups are sensitive to changes in water quality.

In general, the more EPT taxa, the better the water quality. There are exceptions: certain net-spinning Trichoptera (*Hydropsychidae*) are more tolerant to pollution than other caddisflies and are therefore not counted as part of the total Percent EPT.

Results from the Leaf Pack Network® Biotic and Water Quality Calculator,
<https://leafpacknetwork.org/biotic-index/>

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Oak Creek 2017

Step 24 of 24

Calculated Values

Total Number of Individuals

6.880000000000001

Total Tolerance Value

31.0

Your Biotic Index

4.51

Your Percent EPT

64.0

What Do These Numbers Mean?

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