

## Quittapahilla Watershed 2004 Fish Survey Index of Biotic Integrity (IBI)

Metric	Metric Description	Q1	Q2	Q3	Q4	Q5	Q6	Snitz	Beck	Bach	Kill
1*	Total number of fish species**	9 (5)	8 (3)	4 (3)	7 (3)	6 (3)	8 (3)	10 (5)	7 (5)	5 (3)	6 (3)
2*	Number of benthic-insectivorous species	2 (3)	2 (3)	1 (1)	2 (3)	2 (3)	3 (5)	3 (5)	3 (5)	2 (3)	1 (1)
3*	Number of water column species***	3 (3)	1 (1)	1 (1)	1 (1)	1 (1)	0 (1)	2 (3)	2 (3)	0 (1)	1 (1)
4*	Number of terete minnow species	2 (3)	3 (3)	1 (1)	2 (3)	0 (1)	1 (1)	2 (3)	0 (1)	1 (1)	1 (1)
5	Percentage of dominant species	28 (5)	45.2 (3)	97.2 (1)	89.5 (1)	41.1 (3)	64.9 (1)	70.7 (1)	70.1 (1)	61.3 (1)	65.3 (1)
6	Percentage of individuals that are white suckers	14.6 (3)	18.8 (1)	0.4 (5)	3.4 (3)	41.1 (1)	0.05 (5)	13.2 (3)	7.4 (3)	3.1 (3)	8.1 (3)
7	Percentage of individuals that are generalists	84.7 (1)	47.1 (1)	2.2 (5)	10.0 (5)	55.8 (1)	25.1 (3)	89.6 (1)	26.7 (3)	66.1 (1)	30.6 (3)
8	Percentage of individuals that are insectivores	14.6 (1)	50.9 (5)	97.2 (5)	89.7 (5)	44.1 (3)	73.2 (5)	6.6 (1)	73.2 (5)	31.2 (3)	65.3 (5)
9	Percentage of individuals that are top carnivores***	0.6 (1)	1.8 (3)	0.4 (1)	0 (1)	0 (1)	0 (1)	3.7 (3)	0 (1)	2.6 (3)	2.0 (3)
10*	Fish per sample (fish/100 sq. meters)	18.7 (3)	6.3 (3)	19.6 (3)	46.3 (3)	2.4 (1)	13.7 (3)	31.0 (3)	88.0 (3)	56.0 (3)	14.6 (3)
11	Percentage of species with two age classes	20.0 (3)	22.2 (3)	20.0 (3)	37.5 (3)	16.6 (3)	50.0 (5)	25.0 (3)	42.8 (5)	42.8 (5)	28.5 (3)
12	Percentage of individuals with disease or anomalies	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
<b>IBI Score</b>		<b>31</b>	<b>29</b>	<b>29</b>	<b>31</b>	<b>21</b>	<b>33</b>	<b>31</b>	<b>35</b>	<b>27</b>	<b>27</b>

\* Values are based on maximum species richness line (MSRL) and maximum density line (MDL) graphs in Daniels, et al., 2002.

\*\* Stocked species (trout) and species present only as young of year are not included.

\*\*\* Excludes juvenile black bass (no adults collected).