

Macroinvertebrate Analysis for 2009 Group 3 Interstate Sites

Sampling Site	BABC	BILL	BIRD	BISC	BRIG	BULK	CAMP	COOK	DEEP	DENT	DRYB
<b>Raw Summary</b>											
Number of Individuals	235	252	232	211	212	242	273	258	241	206	194
Percent Shredders (SH)	13.2	40.9	31.0	9.5	6.6	11.6	1.5	23.6	18.7	49.0	1.5
Percent Collector-Gatherers (CG/GC)	63.4	63.9	62.1	66.8	68.4	47.1	54.6	59.7	51.0	20.4	69.1
Percent Filterer-Collectors (FC)	1.3	2.4	5.6	17.1	7.5	19.4	33.7	5.4	9.1	23.3	11.9
Percent Scrapers (SC)	34.5	13.5	46.6	8.1	43.9	50.0	8.8	23.3	12.0	6.3	7.2
Percent Predators (P/PR)	15.7	4.0	10.8	0.9	8.0	5.4	3.7	7.8	17.0	7.3	11.3
Number of EPT Taxa	18	15	19	11	15	16	11	16	23	15	5
Number of EPT Individuals	200	216	205	56	188	175	35	173	143	158	43
<b>Metric Scores</b>											
Taxonomic Richness	22	22	24	19	19	21	21	27	38	21	19
Shannon Diversity Index	2.5	2.3	2.1	1.8	2.4	2.1	1.7	2.5	2.8	2.2	1.9
Modified Hilsenhoff Biotic Index	2.5	3.1	1.5	5.0	2.0	1.5	5.6	3.3	3.4	2.5	4.6
EPT Index	18	15	19	11	15	16	11	16	23	15	5
Percent Ephemeroptera	60.4	54.4	61.6	16.1	72.6	55.8	4.8	37.2	26.6	13.6	21.1
Percent Chironomidae	12.8	9.5	6.5	53.1	9.9	8.3	50.2	24.0	24.1	9.7	45.9
Percent Dominant Taxa	24.7	25.4	38.4	53.1	19.8	32.2	50.2	24.0	24.1	34.5	45.9
<b>Percent of Reference or Percentage Score</b>											
Taxonomic Richness	57.9	57.9	63.2	50.0	50.0	55.3	55.3	71.1	100.0	55.3	50.0
Shannon Diversity Index	89.9	81.8	76.7	64.4	87.3	76.3	60.3	90.1	100.0	79.6	67.7
Hilsenhoff Index	48.2	38.4	80.4	23.7	59.0	76.9	21.3	36.4	35.4	48.2	25.9
EPT Index	78.3	65.2	82.6	47.8	65.2	69.6	47.8	69.6	100.0	65.2	21.7
Percent Ephemeroptera	60.4	54.4	61.6	16.1	72.6	55.8	4.8	37.2	26.6	13.6	21.1
Percent Chironomidae	12.8	9.5	6.5	53.1	9.9	8.3	50.2	24.0	24.1	9.7	45.9
Percent Dominant Taxa	24.7	25.4	38.4	53.1	19.8	32.2	50.2	24.0	24.1	34.5	45.9
<b>Biological Condition Scores</b>											
Taxonomic Richness	2	2	4	2	2	2	2	4	6	2	2
Shannon Diversity Index	6	6	6	4	6	6	4	6	6	6	4
Hilsenhoff Index	0	0	4	0	2	4	0	0	0	0	0
EPT Index	2	0	4	0	0	2	0	2	6	0	0
Percent Ephemeroptera	6	6	6	4	6	6	2	6	6	4	4
Percent Chironomidae	4	4	4	0	4	4	0	2	2	4	0
Percent Dominant Taxa	4	4	2	0	6	2	0	4	4	2	0
<b>Total Biological Score</b>											
Total Biological Score	24	22	30	10	26	26	8	24	30	18	10
Biological Percent of Reference	75	69	94	31	81	81	25	75	94	56	31

Macroinvertebrate Analysis for 2009 Gro

Sampling Site	LWAP	PARK	PRIN	REDH	RUSS	SACK	SMIT	STRA	WBCO	WHIT
<b>Number of Individuals</b>	259	222	194	195	221	218	230	234	211	229
<b>Percent Shredders (SH)</b>	9.3	8.6	11.9	11.3	23.1	2.3	24.8	11.5	0.5	7.9
<b>Percent Collector-Gatherers (CG/GC)</b>	63.7	67.1	23.7	69.7	56.1	48.6	52.2	76.5	5.7	62.0
<b>Percent Filterer-Collectors (FC)</b>	10.8	11.7	65.5	6.2	1.4	4.6	4.3	2.1	91.5	0.9
<b>Percent Scrapers (SC)</b>	55.6	43.2	16.5	22.1	48.0	58.3	13.0	9.0	1.4	63.8
<b>Percent Predators (P/PR)</b>	8.9	9.9	7.7	7.7	12.7	11.9	14.8	10.7	0.5	15.7
<b>Number of EPT Taxa</b>	16	17	10	18	13	16	15	14	4	11
<b>Number of EPT Individuals</b>	220	162	64	97	192	203	131	193	34	219
<b>Taxonomic Richness</b>	21	21	14	26	19	20	27	21	11	13
<b>Shannon Diversity Index</b>	2.1	2.3	1.4	2.3	2.0	2.3	2.8	1.9	0.9	1.7
<b>Modified Hilsenhoff Biotic Index</b>	1.2	1.9	1.8	4.1	1.3	1.4	3.3	2.3	2.8	0.6
<b>EPT Index</b>	16	17	10	18	13	16	15	14	4	11
<b>Percent Ephemeroptera</b>	66.4	54.5	22.7	43.6	52.9	79.4	31.3	63.7	0.0	76.0
<b>Percent Chironomidae</b>	5.0	14.9	2.1	36.9	9.5	2.3	19.6	13.2	4.7	2.6
<b>Percent Dominant Taxa</b>	44.8	27.5	63.4	36.9	39.8	23.4	19.6	48.7	76.3	46.7
<b>Taxonomic Richness</b>	55.3	55.3	36.8	68.4	50.0	52.6	71.1	55.3	28.9	34.2
<b>Shannon Diversity Index</b>	75.0	84.1	51.8	84.3	72.0	81.3	100.0	69.3	33.7	60.2
<b>Hilsenhoff Index</b>	100.0	63.2	64.4	28.8	91.9	87.9	35.7	50.7	41.8	209.5
<b>EPT Index</b>	69.6	73.9	43.5	78.3	56.5	69.6	65.2	60.9	17.4	47.8
<b>Percent Ephemeroptera</b>	66.4	54.5	22.7	43.6	52.9	79.4	31.3	63.7	0.0	76.0
<b>Percent Chironomidae</b>	5.0	14.9	2.1	36.9	9.5	2.3	19.6	13.2	4.7	2.6
<b>Percent Dominant Taxa</b>	44.8	27.5	63.4	36.9	39.8	23.4	19.6	48.7	76.3	46.7
<b>Taxonomic Richness</b>	2	2	0	4	2	2	4	2	0	0
<b>Shannon Diversity Index</b>	6	6	4	6	4	6	6	4	2	4
<b>Hilsenhoff Index</b>	6	2	2	0	6	6	0	2	0	8
<b>EPT Index</b>	2	2	0	2	0	2	0	0	0	0
<b>Percent Ephemeroptera</b>	6	6	4	6	6	6	6	6	0	6
<b>Percent Chironomidae</b>	6	4	6	2	4	6	4	4	6	6
<b>Percent Dominant Taxa</b>	0	4	0	2	2	4	6	0	0	0
<b>Total Biological Score</b>	28	26	16	22	24	32	26	18	8	24
<b>Biological Percent of Reference</b>	88	81	50	69	75	100	81	56	25	75