

Macroinvertebrate Analysis for 2009 PA-MD Interstate Sites

Sampling Site	BBDC 4.1	CNWG 4.4	DEER 44.2	EBAU 1.5	FBDC 4.1	LNGA 2.5	OCTO 6.6	SBCC 20.4	SCTT 3.0
Raw Summary									
Number of Individuals	331	263	243	206	242	225	267	294	231
Percent Shredders (SH)	19.0	2.3	4.1	3.9	21.1	1.3	10.5	16.3	3.9
Percent Collector-Gatherers (CG/GC)	39.6	28.1	32.5	34.0	44.6	68.0	30.7	24.8	74.0
Percent Filterer-Collectors (FC)	18.7	47.9	42.4	32.5	23.6	15.1	27.0	27.6	21.2
Percent Scrapers (SC)	21.8	30.4	25.1	27.7	12.4	16.4	39.7	22.8	0.4
Percent Predators (P/PR)	2.1	1.1	4.9	2.4	11.2	2.2	0.0	9.9	0.4
Number of EPT Taxa	10	11	14	9	15	10	13	8	5
Number of EPT Individuals	121	180	148	115	145	98	114	163	49
Metric Scores									
Taxonomic Richness	22	19	24	21	25	22	22	18	12
Shannon Diversity Index	2.0	2.3	2.6	2.4	2.4	2.2	2.3	2.3	1.3
Modified Hilsenhoff Biotic Index	4.5	4.9	4.7	4.7	3.2	5.1	4.7	4.1	5.7
EPT Index	10	11	14	9	15	10	13	8	5
Percent Ephemeroptera	4.5	24.7	21.8	19.9	8.7	29.3	17.2	8.5	4.3
Percent Chironomidae	33.8	8.7	10.3	8.3	25.2	24.0	4.9	16.0	65.4
Percent Dominant Taxa	33.8	22.4	21.8	26.2	25.2	26.7	29.6	19.7	65.4
Percent of Reference or Percentage Score									
Taxonomic Richness	88	76	96	84	100	88	88	72	48
Shannon Diversity Index	80.2	89.0	100.0	95.2	93.2	84.8	91.2	89.2	52.0
Hilsenhoff Index	70.1	65.0	66.7	67.4	100.0	62.4	67.1	78.1	55.3
EPT Index	66.7	73.3	93.3	60.0	100.0	66.7	86.7	53.3	33.3
Percent Ephemeroptera	4.5	24.7	21.8	19.9	8.7	29.3	17.2	8.5	4.3
Percent Chironomidae	33.8	8.7	10.3	8.3	25.2	24.0	4.9	16.0	65.4
Percent Dominant Taxa	33.8	22.4	21.8	26.2	25.2	26.7	29.6	19.7	65.4
Biological Condition Scores									
Taxonomic Richness	6	4	6	6	6	6	6	4	2
Shannon Diversity Index	6	6	6	6	6	6	6	6	4
Hilsenhoff Index	4	2	2	2	6	2	2	4	2
EPT Index	0	2	6	0	6	0	4	0	0
Percent Ephemeroptera	2	6	4	4	2	6	4	2	2
Percent Chironomidae	2	4	4	4	2	2	6	4	0
Percent Dominant Taxa	2	4	4	4	4	4	4	6	0
Total Biological Score									
Total Biological Score	22	28	32	26	32	26	32	26	10
Biological Percent of Reference	69	88	100	81	100	81	100	81	31