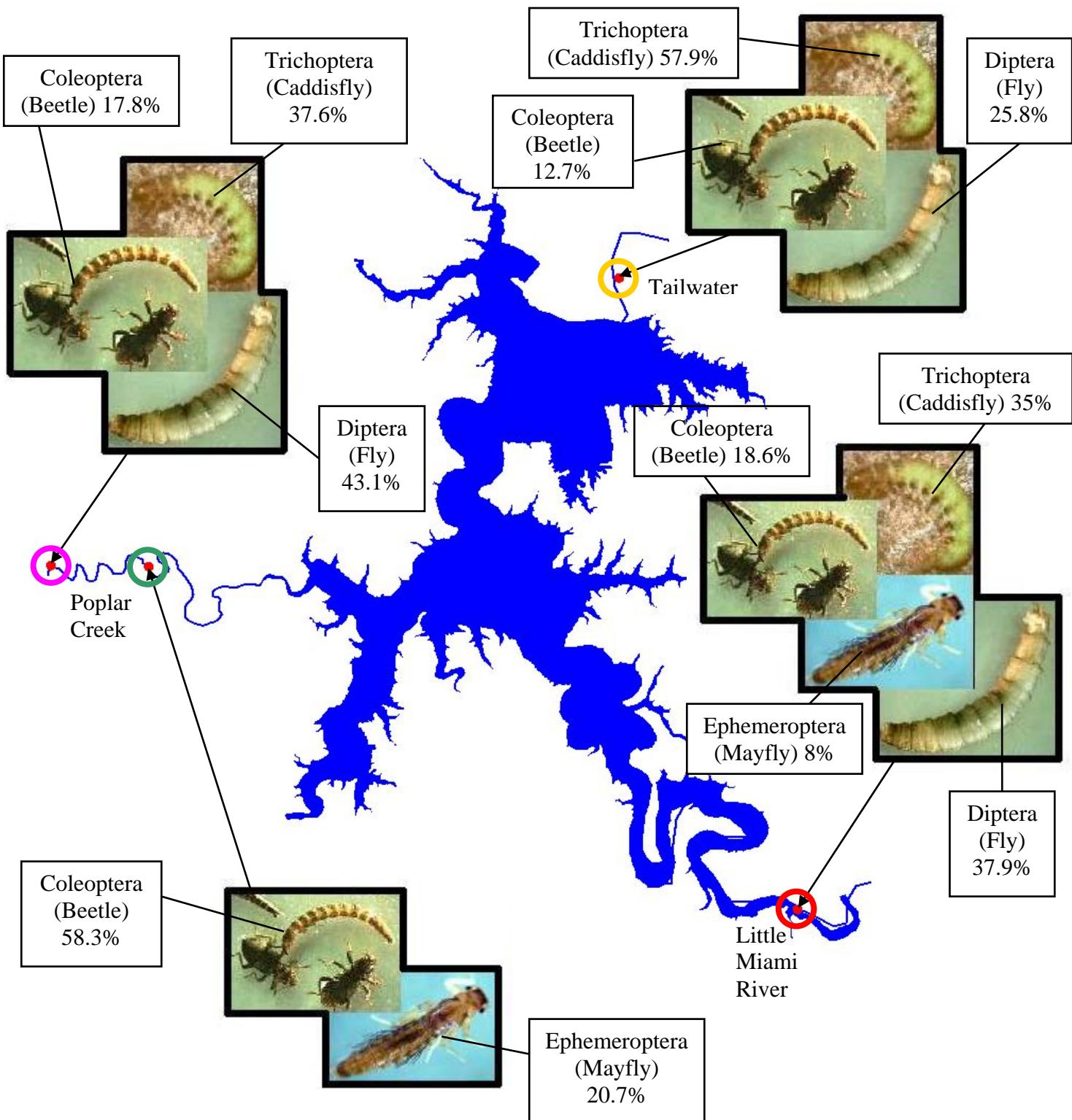


Aquatic Insects' Community Structure  
William H. Harsha Lake Analysis  
September 1-2, 2004

Relative abundance of dominant taxa found at each of the sites shown below.



Community Metrics *	Harsha Lake			
	Tailwater	Little Miami	Poplar Creek	Poplar Creek
Collection Date	9/2/04	9/2/04	9/1/04	9/1/04
Total Number of Taxa	36	32	41	35
% Contribution of Dominant Taxa	80	86	69	80
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	4.81	5.38	4.61	5.27
Shannon-Wiener Index	2.04	2.04	2.43	2.22
Number of Ephemeroptera Taxa	8	5	9	6
% Ephemeroptera Taxa (Abundance)	3	8	20	2
Number of Plecoptera Taxa	1	1	0	0
% Plecoptera Taxa (Abundance)	0	0	0	0
Number of Trichoptera Taxa	5	7	3	4
% Trichoptera Taxa (Abundance)	53	35	3	37
Number of EPT Taxa	14	13	12	10
% EPT Taxa	56	43	23	39
Number of Dipteran Taxa	11	10	19	17
% Dipteran Taxa	23	38	17	42
Number of Chironomid Taxa	8	9	18	14
% Chironomid Taxa	23	38	17	42
Number of Tanytarsini Taxa	1	3	5	4
% Tanytarsini Taxa	1	2	4	13
Number of Orthocladiinae Taxa	4	2	2	4
% Orthocladiinae Taxa	15	1	1	9
% Cricotopus + Chironomus/Total Chiron.	16	2	3	15
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	17	11	19	19
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	32	36	16	31
Ratio of EPT to Chiron. Abundance	2.38	1.15	1.39	0.91
Percent Tolerant Organisms	1	0	0	2
Numbers of Individuals / m <sup>2</sup>	12,551	19,527	1,503	12,443

5 Most Abundant Taxa on Tailwater

- Cheumatopsyche sp. (Trichoptera) 51.1%
- Stenelmis sp. (Coleoptera) 12.4%
- Cardiocladius obscurus (Diptera) 12.2%
- Polypedilum flavum (Diptera) 7.8%
- Hydropsyche simulans (Trichoptera) 4.7%

5 Most Abundant Taxa on Little Miami R.

- Polypedilum flavum (Diptera) 31.7%
- Cheumatopsyche sp. (Trichoptera) 21.1%
- Stenelmis sp. (Coleoptera) 17.1%
- Ceratopsyche morosa group sp (Trichoptera) 10.5%
- Baetis intercalaris (Ephemeroptera) 5.7%

5 Most Abundant Taxa on Poplar Creek, off Hwy 125

- Psephenus herricki (Coleoptera) 44.5%
- Stenelmis sp. (Coleoptera) 12.2%
- Stenacron interpunctatum (Ephemeroptera) 5%
- Stenonema femoratum (Ephemeroptera) 4.8%
- Baetis flavistriga (Ephemeroptera) 4.4%

5 Most Abundant Taxa on Poplar Creek below Guest Run

- Cheumatopsyche sp. (Trichoptera) 35%
- Stenelmis sp. (Coleoptera) 16.7%
- Polypedilum flavum (Diptera) 16.6%
- Paratanytarsus sp. (Diptera) 6.4%
- Cricotopus/Orthocladius sp. (Diptera) 6.4%

\* Based on 4 replicate surber samples  
Substrate sampled – small stones