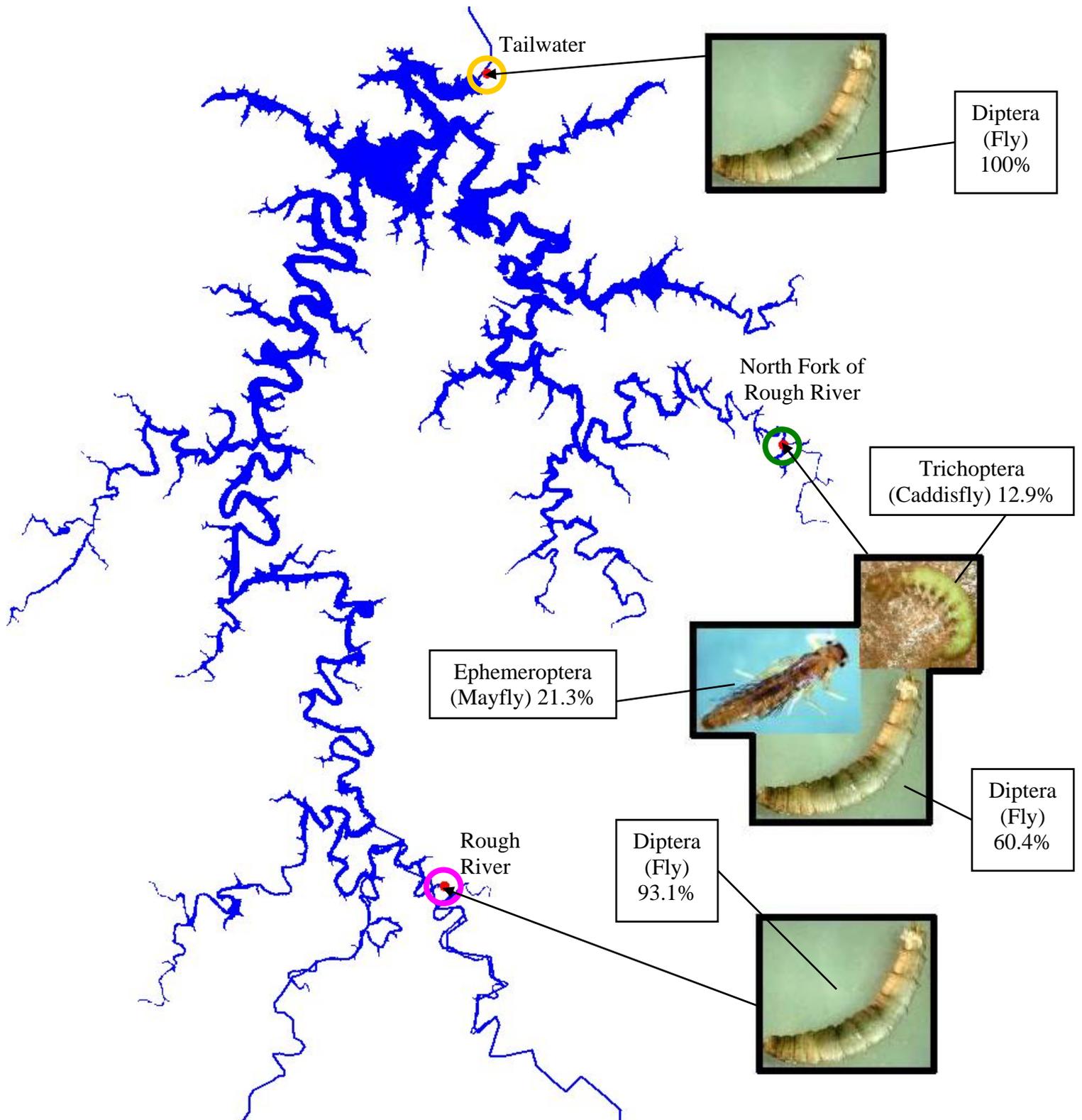


Aquatic Insects' Community Structure
Rough River Analysis
September 14, 2004

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



COMMUNITY METRICS *	Rough River Lake		
	Tailwater	Rough River	North Fork
Collection Date	9/14/04	9/14/04	9/14/04
Total Number of Taxa	10	33	32
% Contribution of Dominant Taxa	96	87	54
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	7.61	6.93	6.70
Shannon-Wiener Index	1.58	1.92	2.88
Number of Ephemeroptera Taxa	0	5	7
% Ephemeroptera Taxa (Abundance)	0	2	21
Number of Plecoptera Taxa	0	0	0
% Plecoptera Taxa (Abundance)	0	0	0
Number of Trichoptera Taxa	0	7	3
% Trichoptera Taxa (Abundance)	0	4	13
Number of EPT Taxa	0	12	10
% EPT Taxa	0	5	34
Number of Dipteran Taxa	7	14	16
% Dipteran Taxa	74	93	59
Number of Chironomid Taxa	7	9	16
% Chironomid Taxa	74	92	59
Number of Tanytarsini Taxa	0	2	4
% Tanytarsini Taxa	0	27	35
Number of Orthoclaadiinae Taxa	2	5	2
% Orthoclaadiinae Taxa	16	61	2
% Cricotopus + Chironomus/Total Chiron.	22	31	3
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	10	13	13
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	100	66	26
Ratio of EPT to Chiron. Abundance	0.00	0.06	0.57
Percent Tolerant Organisms	24	4	3
Numbers of Individuals / m ²	2,954	5,457	1,384
* Based on 4 replicate surber samples Substrate sampled – small stones			

5 Most Abundant Taxa on Tailwater

1. Phaenopsectra obediens group sp. (Diptera) 60.2%
2. Cricotopus / Orthocladius sp. (Diptera) 21.9%
3. Dicrotendipes sp. (Diptera) 12.9%
4. Paratendipes albimanus (Diptera) 2.5%
5. Polypedilum illinoense group sp. (Diptera) 1.5%

5 Most Abundant Taxa on Rough River

1. Rheocricotopus robacki (Diptera) 32.2%
2. Tanytarsus sp. (Diptera) 24.8%
3. Cricotopus / Orthocladius sp. (Diptera) 23.5%
4. Cricotopus (Cricotopus) bicinctus (Diptera) 4.4%
5. Paratanytarsus sp. (Diptera) 2.5%

5 Most Abundant Taxa on North Fork of Rough River

1. Paratanytarsus sp. (Diptera) 18.3%
2. Cheumatopsyche sp. (Trichoptera) 11.4%
3. Tanytarsus sp. (Diptera) 11.2%
4. Stenacron interpunctatum (Ephemeroptera) 7.4%
5. Ablabesmyia mallochi (Diptera) 7%
5. Thienemannimyia group sp. (Diptera) 7%