

APPENDIX F

AQUATIC BIOLOGY INVESTIGATION

The following tables, F-1 through F-4, illustrate species distribution, diversity, and evenness values of the fish collected, and general morphology of the sampling station.

TABLE F-1
SPECIES DISTRIBUTION AMONG STATIONS

Scientific Names	STATIONS							Totals
	1	2	3	4	5	6	7	
<u>Campostoma anomalum</u>			1			5		6
<u>Catostomus commersoni</u>	12		5			8		25
<u>Cottus biardi</u>	1							1
<u>Cyprinus carpio</u>					3			3
<u>Etheostoma flabellaria</u>			6					6
<u>Hypentelium nigricans</u>						1		1
<u>Ictularus nebulosis</u>			1		1			2
<u>Lepomis macrochirus</u>			8			11	2	21
<u>Micropterus dolomieu</u>						33		33
<u>Notropis cornutus</u>			20					20
<u>Notropis spilopterus</u>						25		25
<u>Notropis stramineus</u>			93			5		98
<u>Pimephales notatus</u>			52			54	2	108
<u>Pimephales promelas</u>						2		2
<u>Rhinichthys atratulus</u>			43		4	53	9	150
<u>Semotilus atromaculatus</u>			84	3	170	14		271

Number of Individuals:

140 3 0 397 8 211 13 772

Number of Species:

4 1 0 10 3 11 3

TABLE F-2
SPECIES DIVERSITY (H) AND EVENNESS (H/H MAX.)
FOR ACTUAL SAMPLE SIZES

Stream	H	Evenness	No. of Individuals	No. of Species
Redstone Creek	1.52	0.53	164	8
Crabapple Run	2.67	0.81	211	11
Allen Run	3.15	0.71	397	10

TABLE F-3
SPECIES DIVERSITY (H) AND EVENNESS (H/H MAX.) FOR EQUAL SAMPLE
SIZES, INDIVIDUALS RANDOMLY CHOSEN FOR COMPARISON BETWEEN STREAMS

Redstone Creek	1.52	0.53	164	8
Crabapple Run	2.54	0.81	164	10
Allen Run	2.02	0.71	164	8

TABLE F-4
ACTUAL COLLECTION SIZES AND
GENERAL STREAM MORPHOLOGY

Stream	Length Shocked (ft.)	Area Shocked (sq. ft.)	Mean Width of Shocked Area (ft.)	Mean Depth (in.)	No. of Individuals	No. of Species
Redstone Creek	690	16,834	Various	11.0	164	8
Crabapple Run	200	1,935	10	3.4	211	11
Allen Run	190	1,870	11	7.0	397	10