APPENDIX 9. Analysis of variance and Tukey's studentized range test results comparing alewife larvae densities across transects, locations, and months.

St. Clair River Alewife Analysis of Variance Excluding Transect I

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	PROBABILITY OF NONSIGNIFICANT F
Month	1	299.67	< .001
Location	2	12.01	.031
Year	1	11.86	.009
Transect	4	13.85	.090
Month*Year	1	111.81	< .001
Month*Location	2	23.85	.002
Month*Transect	4	23.02	.012
Location*Year	2	1.52	.632
Transect*Location	8	25.38	.071
Transect*Year	4	11.21	.159
Month*Loc*Year	2	6.10	.164
Month*Tran*Loc	8	22.29	.117
Month*Tran*Year	4	7.27	.360
Tran*Loc*Year	8	21.37	.135
Month*Tran*Loc*Year	8	25.72	.069
Error	60	98.26	

St. Clair River Alewife Analysis of Variance Transect I Only

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	PROBABILITY OF NONSIGNIFICANT F
Month	1	3.92	.125
Location	2	1.25	.658
Year	1	.13	.768
Month*Year	1	49.97	< .001
Month*Location	2	13.50	.032
Location*Year	2	7.78	.108
Month*Loc*Year	2	.90	.739
Error	12	17.32	

Detroit River Alewife Analysis of Variance

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	PROBABILITY OF NONSIGNIFICANT F
Month	2	361.56	< .001
Location	2	13.88	.014
Year	1	8.91	.018
Transect	3	9.31	.117
Month*Year	2	125.31	< .001
Month*Location	4	9.67	.188
Month*Transect	6	10.70	.332
Location*Year	2	.27	.914
Transect*Location	6	14.28	.171
Transect*Year	3	6.84	.223
Month*Loc*Year	4	5.43	.475
Month*Tran*Loc	12	18.72	.438
Month*Tran*Year	6	6.89	.610
Tran*Loc*Year	6	18.33	.076
Month*Tran*Loc*Year	12	34.04	.054
Error	72	109.85	

Tukey's Test on main effect means; alpha=.05

Location:	E	M	E1
mean:	2.03	2.47	2.79