APPENDIX 8. Analysis of variance and Tukey's studentized range test results comparing densities of fish larvae (all species combined) across transects, locations, and months.

St. Clair River All Species Analysis of Variance for Upper River

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	PROBABILITY OF NONSIGNIFICANT F
Month	3	335.80	< .001
Location	2	16.82	.008
Year	1	7.88	.030
Transect	2	6.41	.144
Month*Year	3	151.23	< .001
Month*Location	6	27.18	.016
Month*Transect	6	18.67	.087
Location*Year	2	4.60	.247
Transect*Location	4	13.69	.087
Transect*Year	2	5.87	.169
Month*Loc*Year	6	7.24	.612
Month*Tran*Loc	12	36.11	.053
Month*Tran*Year	6	6.63	.661
Tran*Loc*Year	4	7.22	.354
Month*Tran*Loc*Year	12	26.42	.202
Error	72	115.97	

St. Clair River All Species Analysis of Variance for Lower River

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	PROBABILITY OF NONSIGNIFICANT F
Month	3	224.79	< .001
Location	2	62.23	< .001
Year	1	10.84	.023
Transect	2	12.73	.047
Month*Year	3	199.01	< .001
Month*Location	6	42.53	.004
Month*Transect	6	17.02	.218
Location*Year	2	.78	.823
Transect*Location	4	13.39	.165
Transect*Year	2	2.95	.481
Month*Loc*Year	6	17.56	.202
Month*Tran*Loc	12	28.78	.299
Month*Tran*Year	6	14.59	.307
Tran*Loc*Year	4	10.17	.288
Month*Tran*Loc*Year	12	43.78	.059
Error	72	143.70	

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

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Transect:  7      9      8
    mean: 3.23   3.43   3.94
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Detroit River All Species Analysis of Variance for 1983

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	PROBABILITY OF NONSIGNIFICANT F
Month	3	272.09	< .001
Location	2	23.11	.003
Transect	3	37.59	< .001
Month*Location	6	9.44	.497
Month*Transect	9	14.53	.507
Location*Transect	6	18.84	.117
Month*Tran*Loc	18	51.66	.083
Error	48	83.18	

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

Transect:	13	10	11	14
mean:	2.58	2.79	3.33	4.20

Month:	May	August	June	July
mean:	1.46	2.01	3.64	5.79

Location:	E	M	E1
mean:	2.65	3.18	3.85

Detroit River All Species Analysis of Variance for 1984

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	PROBABILITY OF NONSIGNIFICANT F
Month	3	383.56	< .001
Location	2	.02	.985
Transect	3	3.17	.117
Month*Location	6	10.45	.007
Month*Transect	9	4.05	.549
Location*Transect	6	7.25	.044
Month*Tran*Loc	18	49.80	< .001
Error	48	24.52	