Creek Trawl (Relevant Variables) Dredge Table

Discussion An exploratory dredge was performed, populated with Creek Trawl total CPUE as an dependent variable and all lifestage variables from the Creek Trawl as explanatory variables. All lifestage variables with 1- and 2-yr lags were added as explanatory variables although not all of these variables have single regression relationships with the Creek Trawl total CPUEs. The results shown in Table 5, are models suggested by the dredge subset to show only models below a 2.5 delta. Models are ranked by the dredge using Akaike information criterion with a correction for small samples (AICc) to estimate the goodness-of-fit of all linear models relative to all other linear models. "Parameters for the dredge are estimated using randomly sampled half of the data" with "log-likelihood given the remianing half of the data is used to calculate the AIC weights" (Package 'MuMln') Any model within 2.0 delta away from another model is not significantly different according to the AICc estimator.

Many of the models in Table 5 are illogical (e.g., Adult 1-yr. lag and Legal 1-yr. lag which are the same data). Multiple OLS regression models, both additive and with interaction, will be constructed using the models suggested by thi dredge in the next step.

Table 8: Exploratory dredge results of all relevant CPUE predicted with all relevant Creek Trawl lifestage variables with 1- and 2-yr. lags previously shown to have a significant relationhsip using single regression. Results show a subset of models ranked by AICc.

	(Intercept)	B90_CPUELAG	B90_MatureMaleCPUE	B90_SubadultLAG	T38_CPUELAG	T38_ImmatureFemaleLAG	T38_ImmatureMaleLAG	T38_JuvLAG	T38_SubadultLAG	T38_SublegalLAG	df	logLik	AICc	delta	w
33	2.368349	NA	NA	NA	NA	NA	0.3251731	NA	NA	NA	3	1.0170262	6.147766	0.0000000	0.220
257	2.384052	NA	NA	NA	NA	NA	NA	NA	NA	0.127959	3	0.6418507	6.898117	0.7503510	0.151
5	2.499268	NA	NA	0.0628136	NA	NA	NA	NA	NA	NA	3	0.5197726	7.142273	0.9945073	0.134
129	2.396959	NA	NA	NA	NA	NA	NA	NA	0.2062587	NA	3	0.3579914	7.465835	1.3180696	0.114
9	2.394343	NA	NA	NA	0.090364	NA	NA	NA	NA	NA	3	0.1453933	7.891032	1.7432659	0.092
2	2.454075	0.0317337	NA	NA	NA	NA	NA	NA	NA	NA	3	-0.0087891	8.199396	2.0516307	0.079
65	2.448377	NA	NA	NA	NA	NA	NA	0.2532513	NA	NA	3	-0.0952955	8.372409	2.2246435	0.072
7	2.369265	NA	0.124825	0.0615186	NA	NA	NA	NA	NA	NA	4	1.7723062	8.455388	2.3076219	0.069
17	2.433365	NA	NA	NA	NA	0.2317977	NA	NA	NA	NA	3	-0.1945887	8.570996	2.4232298	0.065