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## Appendix 1

Table of model-averaged coefficients ( $\beta$ ), standard errors (SE), z-values, and p-values of dynamic occupancy models with an AIC < 2 from the top model for *Plethodon teyahalee* following oak regeneration treatments from 2008 (pre-treatment) to 2011 (post-treatment) on Cold Mountain Game Land, Haywood County, NC. Covariates represent changes in habitat estimates from pre- (i.e. 2008) to post- (i.e. 2011) oak regeneration treatments.  $\psi$  = pretreatment year,  $\epsilon$  = extinction probability,  $p$  = detection,  $\gamma$  = colonization probability, canopy cover = percent canopy cover, CWD = percent coarse woody debris cover, leaf litter = percent leaf litter cover, understory = percent understory cover.

Covariate	$\beta$	SE	z	pr(> z )
$\psi$ (intercept)	0.98	0.43	2.28	0.02
$\psi$ (elevation)	-0.23	0.52	0.44	0.66
$\gamma$ (intercept)	1.46	1.59	0.92	0.36
$\epsilon$ (intercept)	-1.56	0.73	2.13	0.03
$\epsilon$ (canopy cover)	0.79	0.65	1.21	0.23
$\epsilon$ (CWD)	0.85	0.78	1.09	0.28
$\epsilon$ (leaf litter)	-0.66	0.52	1.27	0.20
$\epsilon$ (understory cover)	-0.55	0.48	1.16	0.25
$p$ (intercept)	-1.84	0.16	11.36	< 0.01
$p$ (date)	0.00	0.00	1.17	0.24
$p$ (leaf litter)	0.10	0.09	1.12	0.26

Table of model-averaged coefficients ( $\beta$ ), standard errors (SE), z-values, and p-values of dynamic occupancy models with an AIC <2 from the top model for *Plethodon metcalfi* following oak regeneration treatments from 2008 (pre-treatment) to 2011 (post-treatment) on Cold Mountain Game Land, Haywood County, NC. Covariates represent changes in habitat estimates from pre- (i.e. 2008) to post- (i.e. 2011) oak regeneration treatments.  $\psi$  = pretreatment year,  $\epsilon$  = extinction probability,  $p$  = detection,  $\gamma$  = colonization probability, canopy cover = percent canopy cover, CWD = percent coarse woody debris cover, leaf litter = percent leaf litter cover, understory = percent understory cover.

Covariate	$\beta$	SE	z	pr(> z )
$\psi$ (intercept)	1.17	0.62	1.89	0.06
$\psi$ (elevation)	0.00	0.36	0.01	0.99
$\gamma$ (intercept)	-0.92	1.44	0.64	0.52
$\epsilon$ (intercept)	-0.22	0.57	0.39	0.70
$\epsilon$ (canopy cover)	-0.34	0.54	0.63	0.53
$\epsilon$ (CWD)	0.87	0.58	1.50	0.13
$\epsilon$ (understory cover)	-0.14	0.45	0.32	0.75
$p$ (intercept)	-1.83	0.21	8.57	<0.01
$p$ (date)	-0.02	0.00	3.52	0.00
$p$ (leaf litter)	0.11	0.10	1.10	0.27