Table A4. Species-specific slope estimates in logit-regression models of persistence and colonization probabilities as functions of a variable representing high-flow frequency in dynamic occupancy models for 26 fish taxa at 13 sites in the Conasauga River (1995-2014). The high-flow variable was an annual count of days in March through September with daily average discharge greater than the 90th percentile of the mean monthly flow based on the period-of-record for USGS gage 02384500, Conasauga River near Eton GA. Prior to analysis, the flow variable was transformed by subtracting the mean and dividing by the standard deviation of the untransformed data. Species-specific slopes are on the logit scale and were calculated as the sum of the fixed-effect and the species-specific random effect for the slope relating high-flow days to persistence or colonization. The 2.5% and 97.5% values bracket the 95% credible interval for the slope estimate.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Persistence | |  |  | Colonization | |  |
| Species | Mean | 2.5% | 97.5% | | Mean | 2.5% | 97.5% | |
| *Campostoma oligolepis* | 0.09 | -2.44 | 2.72 | | 0.47 | -3.96 | 5.24 | |
| *Cottus carolinae* | 0.40 | -2.53 | 4.04 | | 0.35 | -4.97 | 5.50 | |
| *Cyprinella caerulea* | 0.11 | -2.97 | 3.36 | | 0.18 | -5.14 | 4.65 | |
| *Cyprinella callistia* | 0.30 | -2.68 | 3.70 | | 0.41 | -4.56 | 5.64 | |
| *Cyprinella trichroistia* | 0.59 | -1.73 | 4.43 | | 0.45 | -2.72 | 3.55 | |
| *Cyprinella venusta* | 0.31 | -2.57 | 3.58 | | 0.41 | -4.68 | 5.62 | |
| *Etheostoma coosae* | 0.66 | -1.89 | 4.21 | | 0.64 | -4.07 | 6.97 | |
| *Etheostoma jordani* | 0.00 | -2.73 | 2.85 | | -0.23 | -7.48 | 4.15 | |
| *Etheostoma rupestre* | 0.11 | -2.40 | 2.77 | | 0.76 | -3.50 | 6.08 | |
| *Etheostoma stigmaeum* | 0.30 | -2.64 | 3.67 | | 0.60 | -4.07 | 5.94 | |
| *Etheostoma trisella* | 0.37 | -2.69 | 4.21 | | 0.54 | -4.27 | 5.87 | |
| *Fundulus stellifer* | 0.20 | -2.46 | 3.27 | | 0.65 | -4.09 | 6.97 | |
| *Hypentelium etowanum* | 0.18 | -2.63 | 3.34 | | 0.24 | -4.99 | 5.15 | |
| *Luxilus chrysocephalus* | 0.26 | -2.35 | 3.34 | | -0.29 | -6.30 | 3.72 | |
| *Macrhybopsis sp. cf. M. aestivalis* | 1.35 | -1.33 | 5.84 | | 0.87 | -1.92 | 4.26 | |
| *Micropterus coosae* | 0.19 | -3.13 | 3.89 | | 0.50 | -4.01 | 5.71 | |
| *Notropis stilbius* | 0.48 | -2.43 | 4.39 | | 0.48 | -4.26 | 5.45 | |
| *Notropis xaenocephalus* | 0.82 | -2.11 | 5.72 | | 0.97 | -2.05 | 5.98 | |
| *Noturus leptacanthus* | 0.51 | -2.25 | 4.12 | | 0.67 | -3.91 | 6.48 | |
| *Noturus sp. cf. N. munitus* | 1.68 | -1.51 | 8.17 | | 0.26 | -3.75 | 3.71 | |
| *Percina antesella* | -0.06 | -2.74 | 2.63 | | -0.49 | -5.98 | 2.58 | |
| *Percina jenkinsi* | 0.28 | -2.93 | 4.00 | | -0.19 | -6.42 | 3.82 | |
| *Percina kathae* | 0.03 | -2.83 | 3.40 | | 0.26 | -4.70 | 4.59 | |
| *Percina nigrofasciata* | 0.33 | -2.71 | 3.82 | | 0.41 | -4.69 | 5.56 | |
| *Percina palmaris* | 0.53 | -2.18 | 4.25 | | 0.24 | -5.25 | 5.13 | |
| *Phenacobius catostomus* | 0.66 | -2.18 | 4.72 | | 0.55 | -4.19 | 5.96 | |