Table 1. Ranking of all subset occupancy models to estimate detection probability of Flathead Catfish *Pylodictus olivaris* in eight small Kansas impoundments from July – September 2021. Occupancy (psi) was fixed in all models but detection probability (p) was allowed to vary in response to scaled mean depth of the impoundment (depth), proportion of impoundment sampled (samp), and water temperature at the time of sample collection (temp). Coefficients are presented with standard error in parentheses.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| psi(int) | p(int) | p(depth) | p(samp) | p(temp) | df | logLik | AICc | ΔAICc | weight |
| 2.28 | -2.13 | 0.25 (0.09) | 1.91 (0.83) | 0.20 (0.08) | 6 | -466.06 | 945.23 | 0.00 | 0.48 |
| 2.26 | -1.12 | 0.27 (0.11) |  | 0.20 (0.09) | 5 | -468.13 | 947.03 | 1.80 | 0.20 |
| 2.28 | -2.08 | 0.25 (0.09) | 1.86 (0.83) |  | 5 | -468.79 | 948.36 | 3.13 | 0.10 |
| 2.26 | -1.16 |  | 2.05 (1.16) | 0.20 (0.09) | 5 | -469.05 | 948.88 | 3.65 | 0.08 |
| 2.25 | 0.01 |  |  | 0.20 (0.09) | 4 | -470.36 | 949.23 | 4.01 | 0.07 |
| 2.26 | -1.10 | 0.26 (0.11) |  |  | 4 | -470.77 | 950.06 | 4.83 | 0.04 |
| 2.26 | -1.13 |  | 2.01 (1.15) |  | 4 | -471.71 | 951.93 | 6.70 | 0.02 |
| 2.25 | 0.02 |  |  |  | 3 | -472.99 | 952.28 | 7.05 | 0.01 |