**Table S5.** Summary of linear mixed models of effects of food insecurity on foraging variables in experiment 4.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Dependent variable | Treatment effect3 | Parameter estimate | 95% CI | Test statistic  | p-value |
|  |  |  |  | Type, df | Value |  |
| Peck rate1 (pecks.hr-1) | Overall4 |  |  | F2,118 | 87.16  | <0.001\*\*\* |
| FIlow v. FS1 | βFIlow = 8.81 | 5.01 to 12.62 | t118 | 4.54 | <0.001\*\*\* |
| FShigh v. FS1 | βFIhigh = 25.27 | 21.46 to 29.07 | t118 | 13.01 | <0.001\*\*\* |
| FIhigh v. FIlow | βFIhigh = 16.46 | 12.65 to 20.26 | t118 | 8.47 | <0.001\*\*\* |
| Reinforcement rate1 (reinforcements.hr-1) | Overall |  |  | F2,118 | 32.95  | <0.001\*\*\* |
|  | FIlow v. FS1 | βFIlow = -5.51 | -7.32 to -3.71 | t118 | -5.97 | <0.001\*\*\* |
|  | FShigh v. FS1 | βFIhigh = -7.16 | -8.97 to -5.35 | t118 | -7.75 | <0.001\*\*\* |
|  | FIhigh v. FIlow | βFIhigh = -1.65 | -3.46 to 0.16 | t118 | -1.79 | 0.077 |
| Consumption rate2 (g.reinforcement-1) | Overall |  |  | F2,55 | 23.07  | <0.001\*\*\* |
|  | FIlow v. FS1 | βFIlow = 0.032 | 0.019 to 0.045 | t55 | 4.89 | <0.001\*\*\* |
|  | FShigh v. FS1 | βFIhigh = 0.043 | 0.030 to 0.056 | t55 | 6.57 | <0.001\*\*\* |
|  | FIhigh v. FIlow | βFIhigh = 0.011 | -0.001 to 0.024 | t55 | 1.77 | 0.082 |

Notes:

1. Models include random effects of aviary/bird. Unit of analysis is bird day.
2. Model includes random effect of aviary. Unit of analysis is aviary day.
3. The reference category is always given second.
4. Overall tests: type III ANOVA with Satterthwaite’s method.
5. \*\*\* p < 0.001.