Table 1:

| Model/Effect | Comparison | n | Effect Size*1* | SE | p-value | Model R² | F-test p |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Intensity × Status Interaction** | | | | | | | |
| Interaction Model: Main Effect | MC.Eimeria TRUE vs FALSE | 185 | +5.65% | 1.546 | <0.001 | 0.114 | <0.001 |
| Interaction Model: Interaction Term | ΔCt × Infection Status | 185 | +0.50% | 0.165 | 0.003 | 0.114 | <0.001 |
| **Species-Specific Effects** | | | | | | | |
| Species Model: *E. ferrisi* | vs Uninfected | 169 | +1.25% | 0.428 | 0.004 | 0.082 | <0.001 |
| Species Model: *E. falciformis* | vs Uninfected | 169 | +2.06% | 0.686 | 0.003 | 0.082 | <0.001 |
| **Infection Detection** | | | | | | | |
| Infection Status Effect | Infected vs Uninfected | 305 | +1.15% | 0.279 | <0.001 | 0.053 | <0.001 |
|  | | | | | | | |
| qPCR Intensity Correlation | Predicted WL vs ΔCt (infected mice) | 92 | +0.23% | NA | 0.025 | NA | NA |
| Oocyst Count Correlation | Predicted WL vs OPG (positive counts) | 55 | +0.18% | NA | 0.183 | NA | NA |
| *1*Effect size represents increase in predicted weight loss. Interaction term shows how ΔCt effect changes with infection status. | | | | | | | |