**Table 3.** Comparison in weights and rates of weight gain between brumated and non-brumated frogs held in captivity for 32-weeks. Frogs brumated for 12 weeks showed significantly lower weights compared to captive non-brumated conspecifics at every time point measured (Figure 3). Similarly, brumated frogs had a significantly lower rate of weight gain compared to non-brumated frog and this trajectory prevailed throughout the 32-week study. Week 0 represents the beginning of the brumation period (blue shaded) and week 12 marks the end.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Differences in weight between groups** | | | | | |  | **Differences in rate of weight gain** | | | | | | | |
| **Week** | **Estimate** | **SE** | **DF** | | **T-value** | **P-value** |  | **Contrasts** | | **Estimate** | **SE** | | **DF** | **T-ratio** | **P-value** |
| **0** | 2.246 | 0.300 | 737 | | -1.150 | 0.2503 |  | **Brumated – non-brumated** | | -0.345 | 0.300 | | 995 | -1.150 | 0.2503 |
| **4** | 2.412 | 0.292 | 737 | | 2.889 | 0.0040\*\* |  | **Brumated – non-brumated** | | -1.232 | 0.300 | | 995 | -4.114 | <0.0001\*\*\*\* |
| **8** | 0.846 | 0.564 | 737 | | 2.953 | 0.0032\*\* |  | **Brumated – non-brumated** | | -1.208 | 0.300 | | 995 | -4.031 | 0.0001\*\*\*\* |
| **12** | 1.937 | 0.564 | 737 | | 3.434 | 0.0006\*\*\* |  | **Brumated – non-brumated** | | -2.262 | 0.300 | | 995 | -7.552 | <0.001\*\*\*\* |
| **16** | 2.107 | 0.564 | 737 | | 3.735 | 0.0002\*\*\* |  | **Brumated – non-brumated** | | -3.038 | 0.300 | | 995 | -10.143 | <0.001\*\*\*\* |
| **20** | 3.230 | 0.617 | 737 | | 5.237 | 2.14e-07\*\*\*\* |  | **Brumated – non-brumated** | | -2.853 | 0.453 | | 995 | -6.293 | <0.001\*\*\*\* |
| **24** | 3.931 | 0.617 | 737 | | 6.374 | 3.25e-10\*\*\*\* |  | **Brumated – non-brumated** | | -2.460 | 0.439 | | 995 | -5.601 | <0.001\*\*\*\* |
| **28** | 4.968 | 0.617 | 737 | | 8.054 | 3.25e-10\*\*\* |  | **Brumated – non-brumated** | | -3.151 | 0.463 | | 995 | -6.808 | <0.001\*\*\*\* |
| **32** | 6.979 | 0.399 | 737 | | 17.499 | <2.00e-16\*\*\* |  | **Brumated – non-brumated** | | -1.562 | 0.475 | | 995 | -3.482 | 0.0005\*\*\* |
| **Confidence interval: 0.95** | | | |  | | | | **F-statistic: 66.66** |  |  | | **F-statistic 11.49** | | **DF 32** | **p<0.05** |