S4. Summary of GLMMs with Poisson distribution and log link of species richness in response to treatment. Significance of factors is indicated by the superscripts and was determined by releveling factors.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Coefficient | SE | Z | P |
| GLMM for Species Richness Dec 2012 (Pre-treatment) |
| Intercept (Control) a | 1.22 | 0.15 | 8.12 | < 0.0001 |
| Herbicide a | 0.15 | 0.16 | 0.96 | 0.34 |
| Pull a | -0.056 | 0.17 | -0.34 | 0.74 |
| GLMM for Species Richness Jan/Feb 2013 (1-2 months following treatment) |
| Intercept (Control) a | 1.25 | 0.10 | 12.26 | < 0.0001 |
| Herbicide b | -0.52 | 0.14 | -3.61 | 0.00031 |
| Pull b | -0.29 | 0.13 | -2.14 | 0.033 |
| GLMM for Species Richness Oct 2014 (22 months following treatment) |
| Intercept (Control) a | 0.86 | 0.19 | 4.59 | < 0.0001 |
| Herbicide b | -1.11 | 0.23 | -4.87 | < 0.0001 |
| Pull aReference a | 0.078-0.042 | 0.170.18 | 0.47-0.23 | 0.640.82 |