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 a  Reference a | | 0.078  -0.042 | 0.17  0.18 | 0.47  -0.23 | | | 0.64  0.82 | |