Table 1. Species richness (# species / 0.25 m2) comparisons between summer grazed (GS) and non-grazed (Control) and between winter grazed (NGS) and non-grazed (Control) treatments for vegetation functional groups in 2011, four years after prairie dogs were controlled on study sites.

|  |  |
| --- | --- |
| Functional Group | Species Richness (# species / 0.25 m2) |
| Summer Grazed Treatment | Winter Grazed Treatment |
| Grazed | Non-Grazed | P | Grazed | Non-Grazed | P |
| Total species | 7.3 | 6.5 | 0.0658 | 7.2 | 5.9 | 0.0023 |
| Native Species | 6.0 | 5.3 | 0.0538 | 5.2 | 3.9 | 0.0011 |
| Introduced Species | 1.25 | 1.25 | 0.5 | 2.0 | 2.0 | 0.4974 |
| Native perennials | 3.7 | 3.7 | 0.4418 | 3.1 | 2.6 | 0.0879 |
|  Native perennial grasses | 2.4 | 2.3 | 0.1986 | 1.9 | 1.9 | 0.4332 |
|  Native perennial forbs | 1.2 | 1.3 | 0.2626 | 1.1 | 0.6 | 0.0840 |
| Native annuals | 2.3 | 1.6 | 0.0372 | 2.3 | 1.3 | 0.0183 |
|  Native annual grasses | 0.25 | 0.1 | 0.0403 | 0.3 | 0.1 | 0.0727 |
|  Native annual forbs | 2.0 | 1.5 | 0.0651 | 1.9 | 1.1 | 0.0223 |
| Introduced perennials | 0.0 | 0.0 | 0.1733 | 0.2 | 0.1 | 0.3405 |
|  Introduced perennial grasses | 0 | 0 | ns | 0.1 | 0.0 | 0.1733 |
|  Introduced perennial forbs | 0 | 0 | ns | 0.1 | 0.1 | 0.5 |
| Introduced annuals | 1.2 | 1.3 | 0.4301 | 1.8 | 1.9 | 0.3923 |
|  Introduced annual grasses | 0.7 | 0.7 | 0.5 | 1.0 | 1.0 | 0.5 |
|  Introduced annual forbs | 0.6 | 0.6 | 0.5 | 0.9 | 0.9 | 0.3923 |

Table 2. Species richness (# species / 0.25 m2) comparisons between active prairie dog towns (Active), towns controlled for 4 years and summer grazed (GS), towns controlled for 4 years and winter grazed (NGS), towns controlled for 9 years (9 Year), and towns controlled for ≥25 years (25+ Year) for vegetation functional groups in 2011.

|  |  |
| --- | --- |
| Functional Group | Species Richness (# species / 0.25 m2) |
| Active | GS | NGS | 9 Year | 25+ Year |
| Total species | 6.0 | 7.3 | 7.2 | 5.5 | 4.0 |
| Native Species | 4.9 | 6.0 | 5.2 | 3.5 | 2.8 |
| Introduced Species | 1.0 | 1.25 | 2.0 | 2.0 | 1.1 |
| Native perennials | 3.5 | 3.7 | 3.1 | 3.2 | 2.7 |
|  Native perennial grasses | 1.3 | 2.4 | 1.9 | 2.3 | 1.6 |
|  Native perennial forbs | 2.2 | 1.2 | 1.1 | 1.0 | 1.1 |
| Native annuals | 1.4 | 2.3 | 2.3 | 0.3 | 0.0 |
|  Native annual grasses | 0.1 | 0.25 | 0.3 | 0.2 | 0.0 |
|  Native annual forbs | 1.4 | 2.0 | 1.9 | 0.1 | 0.0 |
| Introduced perennials | 0.3 | 0.0 | 0.2 | 0.0 | 0.0 |
|  Introduced perennial grasses | 0.3 | 0 | 0.1 | 0.0 | 0.0 |
|  Introduced perennial forbs | 0.0 | 0 | 0.1 | 0.0 | 0.0 |
| Introduced annuals | 0.7 | 1.2 | 1.8 | 2.0 | 1.1 |
|  Introduced annual grasses | 0.3 | 0.7 | 1.0 | 0.8 | 1.0 |
|  Introduced annual forbs | 0.4 | 0.6 | 0.9 | 1.2 | 0.1 |