Table 1. Percent frequency of establishment and persistence of plant materials, seeded grass entries and weeds (± SE), throughout the study with contrast (P-value) of grass entries.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Plots | | --Year 1-- | --Year 2-- | --Year 3-- | | |
|  | -----------------Grass Entries1 (%)----------------- | | | | |
| Control | | 1 ± 4.1 e | 0 ± 4.1 e | 0 ± 4.1 e | | |
| Bozoisky II | | 21 ± 4.1 d | 4 ± 4.1 e | 1 ± 4.1 e | | |
| Hycrest II | | 64 ± 4.1 a | 44 ± 4.1 c | 48 ± 4.1 bc | | |
| Vavilov II | | 57 ± 4.1 ab | 53 ± 4.1 bc | 50 ± 4.1 bc | | |
| Native mix | | 47 ± 4.1 bc | 48 ± 4.1 bc | 65 ± 4.1 a | | |
|  | |  |  |  | | |
|  | ---------------------Weeds2 (%)--------------------- | | | | |
| Control | | 93 ± 5.6 a | —3 | 99 ± 5.6 a | | |
| Bozoisky II | | 58 ± 5.6 b | — | 99 ± 5.6 a | | |
| Hycrest II | | 43 ± 5.6 c | — | 51 ± 5.6 bc | | |
| Vavilov II | | 44 ± 5.6 c | — | 49 ± 5.6 bc | | |
| Native mix | | 45 ± 5.6 bc | — | 45 ± 5.6 bc | | |
|  | | | | |

1 Means for grass entry not followed by the same letter differ (P < 0.05).

2 Means for weeds not followed by the same letter differ (P < 0.05).

3 —, data not collected.

Table 2. Biomass production (kg · ha-1) of seeded grass entries and weeds (± SE) over years.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ---------------Year 1--------------- | | ---------------Year 3--------------- | |
|  | Grass1 | Weeds | Grass | Weeds |
| Control | 0 ± 232.2 f | 1254 ± 232.2 c | 136 ± 232.2 e | 1178 ± 232.2 c |
| Bozoisky II | 105 ± 232.2 e | 1481 ± 232.2 bc | 139 ± 232.2 e | 1301 ± 232.2 bc |
| Hycrest II | 1455 ± 232.2 bc | 562 ± 232.2 d | 1181 ± 232.2 c | 573 ± 232.2 d |
| Vavilov II | 1797 ± 232.2 ab | 429 ± 232.2 d | 1229 ± 232.2 c | 515 ± 232.2 d |
| Native Mix | 1940 ± 232.2 a | 517 ± 232.2 d | 1548 ± 232.2 abc | 502 ± 232.2 d |

1Means followed by different letters are significantly different (P < 0.05).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 3. Biomass production of vegetation classes (kg · ha-1) on five study sites across the Channeled Scablands of eastern Washington during May and July over two years. | | | | | |
|  |  | ----------Year 2---------- | | ----------Year 3---------- | |
| Location | Plant | ---May--- | ---July--- | ---May--- | ---July--- |
| Site 11 | Annual grass | 720 ab | 372 de | 575 bc | 393 cde |
|  | Forb | 160 fg | 826 a | 361 de | 491 cd |
|  | Forage kochia | 6 g | 59 g | 109 fg | 42 g |
|  | Vavilov II | 13 g | 132 fg | 112 fg | 283 ef |
|  |  |  |  |  |  |
| Site 22 | Annual grass | 175 | 128 | 194 | 106 |
|  | Forb | 143 | 617 | 104 | 372 |
|  | Forage kochia | 11 | 65 | 108 | 167 |
|  | Vavilov II | 190 | 728 | 506 | 514 |
|  |  |  |  |  |  |
| Site 33 | Annual grass | 388 ab | 262 cd | 509 a | 390 ab |
|  | Forb | 50 f | 504 a | 152 e | 304 bc |
|  | Forage kochia | 10 h | 18 gh | 10 h | 40 fg |
|  | Vavilov II | 19 gh | 58 f | 29 gh | 206 de |
|  |  |  |  |  |  |
| Site 44 | Annual grass | 369 | 373 | 567 | 403 |
|  | Forb | 129 | 433 | 189 | 246 |
|  | Forage kochia | 0 | 14 | 120 | 65 |
|  | Vavilov II | 29 | 269 | 74 | 300 |
|  |  |  |  |  |  |
| Site 55 | Annual grass | 610 | 466 | 219 | 224 |
|  | Forb | 330 | 746 | 64 | 368 |
|  | Forage kochia | 55 | 64 | 81 | 286 |
|  | Vavilov II | 124 | 292 | 365 | 836 |
| 1 Standard Error = 67.1. Means followed by different letters differ at the KBu location (P < 0.05).  2 Standard Error = 100.1.  3 Standard Error = 29.07. Means followed by different letters differ at the N location (P < 0.05).  4 Standard Error = 47.4.  5 Standard Error = 62.4. | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Table 4. Kochia density (plants · 0.25 m2) on five study sites across the Channeled Scablands of eastern Washington during May and July over two years. | | | |
| Location | Month | Year 2 | Year 3 |
| Site 1 | May | 0.3 | 1.0 |
|  | July | 0.8 | 0.5 |
|  |  |  |  |
| Site 2 | May | 0.8 | 3.1 |
|  | July | 2.4 | 1.9 |
|  |  |  |  |
| Site 3 | May | 0.8 | 1.3 |
|  | July | 1.3 | 1.3 |
|  |  |  |  |
| Site 4 | May | 2.4 | 2.1 |
|  | July | 1.3 | 1.3 |
|  |  |  |  |
| Site 5 | May | 10.1 | 7.4 |
|  | July | 13.0 | 5.6 |