**Supplemental Table S1.** Native perennial graminoids cover.

|  |  |
| --- | --- |
| **Scientific name** | **Common name** |
| *Achnatherum hymenoides* | Indian ricegrass |
| *Achnatherum nelsonii* | Columbia needlegrass |
| *Aristida purpurea* | purple threeawn |
| *Bouteloua gracilis* | blue grama |
| *Carex duriuscula* | needleleaf sedge |
| *Carex garberi* | elk sedge |
| *Carex filifolia* | threadleaf sedge |
| *Carex inops* | long-stolon sedge |
| *Carex leptalea* | bristlystalked sedge |
| *Carex praticola* | meadow sedge |
| *Danthonia intermedia* | timber oatgrass |
| *Danthonia unispicata* | onespike danthonia |
| *Elymus elymoides* | squirreltail |
| *Elymus lanceolatus* | thickspike wheatgrass |
| *Festuca idahoensis* | Idaho fescue |
| *Hesperostipa comata* | needle and thread |
| *Hordeum jubatum* | foxtail barley  |
| *Juncus arcticus* | arctic rush |
| *Koeleria macrantha* | prairie Junegrass |
| *Leucopoa kingii* | spike fescue |
| *Leymus cinereus* | basin wildrye |
| *Leymus triticoides* | beardless wildrye |
| *Melica bulbosa* | oniongrass |
| *Nassella viridula* | green needlegrass |
| *Pascopyrum smithii* | western wheatgrass |
| *Poa fendleriana* | muttongrass |
| *Poa secunda* | Sandberg bluegrass |
| *Pseudoroegneria spicata* | bluebunch wheatgrass |
| *Sporobolus airoides* | alkali sacaton |
| *Sporobolus cryptandrus* | sand dropseed |

**Supplemental Table S2.** ANOVA table for number of species, Shannon index, annual native graminoid, and perennial native graminoid percent cover (Type III table).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **Effect** | **D.f.** | **F** | **P-value** |
| N. of species | Method | 2 | 825.656 | 0.0000 |
|  | Site | 3 | 165.381 | 0.0000 |
|  | Method\*Site | 6 | 81.298 | 0.0000 |
| Shannon index | Method | 2 | 1285.575 | 0.0000 |
|  | Site | 3 | 53.540 | 0.0000 |
|  | Method\*Site | 6 | 63.045 | 0.0000 |
| Introduced annual graminoids cover | Method | 2 | 145.12 | 0.0000 |
|  | Site | 3 | 6.246 | 0.0003 |
|  | Method\*Site | 6 | 2.063 | 0.0550 |
| Native perennial graminoids cover | Method | 2 | 237.957 | 0.0000 |
|  | Site | 3 | 48.393 | 0.0000 |
|   | Method\*Site | 6 | 6.346 | 0.0000 |