

## Appendix S2. Description of Ecological Sites

1. Loamy 10-12PZ (10 to 12 inch Precipitation Zone or 254 to 305 mm) with *P. spicata* and *A. thurberianum* the dominate bunchgrasses.
2. Sandy Loam 8-10PZ (203 to 254 mm) with *H. comata* and *P. spicata* the dominate bunchgrasses.
3. Clayey 10-12PZ with *A. thurberianum* and *P. secunda* the dominate bunchgrasses.
4. North slopes 6-10PZ (152 to 254 mm) and with *P. spicata* the dominate bunchgrass.  
South slopes 6-10PZ (152 to 254 mm) with *A. thurberianum* the dominate bunchgrass