

Appendix 2. Plant associations in the potential Big Draw Research Natural Area. The associations are listed by common name within physiognomic units from The Nature Conservancy's vegetation classification system (The Nature Conservancy 1997). Following the common name for a community, the scientific names are given for the equivalent plant association of Johnston (1987), vegetation type of Thilenius et al. (1995), and vegetation type from The Nature Conservancy's classification (The Nature Conservancy 1997).

I. Forest (Tree canopy cover \geq 60%)

B. Deciduous forest

2. Cold-deciduous forest

- Boxelder/Chokecherry woodland (6; may be same as Aceneg/Pruvir)
- Johnston: None
- Thilenius: None
- TNC: Acer negundo/Prunus virginiana forest

III. Shrubland (>25% canopy cover by shrubs \geq 0.5m tall)

A. Evergreen Shrubland

4. Microphyllous evergreen shrubland

- Wyoming big sagebrush/Western wheatgrass association (3)
- Johnston: Artemisia tridentata/Elytrigia smithii plant association
- Thilenius: Artemisia tridentata/Agropyron smithii shrub-steppe
- TNC: Artemisia tridentata ssp. wyomingensis/Pascopyrum smithii shrubland

V. Herbaceous vegetation (Woody plant cover <25%)

A. Perennial Graminoid

5. Temperate or Subpolar Grassland without a tree or shrub layer (tree or shrub canopy cover <10%)

- Blue grama-Western wheatgrass association (1)
- Johnston: Bouteloua gracilis/Elytrigia smithii plant association
- Thilenius: Artemisia tridentata/Bouteloua gracilis/Agropyron smithii shrub-steppe
- TNC: Pascopyrum smithii-Bouteloua gracilis-Carex filifolia herbaceous vegetation

- Western wheatgrass-Green needlegrass association (2)
- Johnston: Elytrigia smithii/Stipa viridula plant association
- Thilenius: Artemisia tridentata/Agropyron smithii shrub-steppe?
- TNC: Pascopyrum smithii-Nassella viridula herbaceous vegetation

- Bluebunch wheatgrass-Blue grama association (5)
- Johnston: Roegneria spicata/Bouteloua gracilis plant association
- Thilenius: Artemisia tridentata/Bouteloua gracilis-Agropyron spicatum shrub-steppe
- TNC: Pseudoroegneria spicata-Bouteloua gracilis herbaceous vegetation

- Little bluestem/Threadleaf sedge association (4)
- Johnston: Schizachyrium scoparium/Carex filifolia plant association
- Thilenius: Schizachyrium scoparium bunchgrass steppe
- TNC: Schizachyrium scoparium-Bouteloua spp. herbaceous vegetation