

Appendix 5. Plant community types in the potential Sixmile Basin Research Natural Area. The communities 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).

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

**A. Evergreen Shrubland**

**4. Microphyllous evergreen shrubland**

- Wyoming big sagebrush/Western wheatgrass association
  - 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 cover <10%)**

- Western wheatgrass/Green needlegrass association
  - Johnston: Elytrigia smithii/Stipa viridula plant association
  - Thilenius: Artemisia tridentata/Agropyron smithii sodgrass steppe?
  - TNC: Pascopyrum smithii-Nassella viridula herbaceous vegetation
- Western wheatgrass/Blue grama association
  - Johnston: Elytrigia smithii/Bouteloua gracilis plant association
  - Thilenius: Bouteloua gracilis-Agropyron smithii sodgrass steppe preliminary type
  - TNC: Pascopyrum smithii-Bouteloua gracilis-Carex filifolia herbaceous vegetation
- Hardstem bulrush/Sedge association
  - Johnston: Scirpus americanus/Carex spp. plant association
  - Thilenius: None
  - TNC: Scirpus acutus herbaceous vegetation

7. Temperate or Subpolar Grassland with a shrub layer (10%-25% canopy cover by shrubs  $\geq 0.5$ m tall)
- Wyoming big sagebrush/Western wheatgrass association
  - Johnston: Artemisia tridentata/Elytrigia smithii plant association
  - Thilenius: Artemisia tridentata/Bouteloua gracilis-Agropyron smithii sodgrass-steppe
  - TNC: Artemisia tridentata ssp. wyomingensis/Mixed Grass sparse shrubland