

Ten Mile Existing Conditions

Three nested frequency tend studies were read in 2008 on the Ten Mile Allotment TM-PC-N1, TM-UC-N1, and TM-TM-N3. Data collected from the three studies is presented below.

TM-PC-N1 Summary – This study is located in the Price Cougar pasture. The ground cover measured at this site is 52.3%. There were 22 different plant species recorded at this site. The Simpson's Index for Diversity for this site is .79. The Resource Value Rating (RVR) for this site is low medium with a score of 5. The vegetation frequency index is low medium with a score of 688. The relative frequency grass/grass like plants is 56.5% the relative frequency of forbs is 29.8% and the relative frequency of shrubs/trees is 13.7%. The relative frequency of annual taxa is 19.3% and perennial taxa is 80.7%. The relative frequency of introduced species is 54.5%. There were 2 invasive species recorded at this site with a relative frequency of 17.3%. There were 3 poisonous species recorded with a relative frequency of 21.7%.

The grass with the highest relative frequency at this site is *Agropyron cristatum* (38.23%). The forb with the highest relative frequency is *Zigadenus paniculatus* (10.47%). The shrub/tree with the highest relative frequency is *Artemisia tridentata* var.wyomingensis (12.35%).

TM-TM-N3 Summary - This study is located in the Ten Mile pasture. The ground cover measured at this site is 68.3%. There were 46 different plant species recorded at this site. The Simpson's Index for Diversity for this site is .94. The Resource Value Rating (RVR) for this site is low medium with a score of 5. The vegetation frequency index is medium with a score of 1369. The relative frequency grass/grass like plants is 28.3% the relative frequency of forbs is 57.8% and the relative frequency of shrubs/trees is 14%. The relative frequency of annual taxa is 3.1% and perennial taxa is 96.9%. The relative frequency of introduced species is 3%. There were no invasive species recorded at this site. There were 4 poisonous species recorded with a relative frequency of 10.2%.

The grass with the highest relative frequency at this site is *Stipa lettermanii* (15.34%). The forb with the highest relative frequency is *Penstemon watsonii* (8.55%). The shrub/tree with the highest relative frequency is *Artemisia tridentata* (6.36%) and *Symphoricarpos oreophillus* (6.14%) a close second.

TM-UC-N1 (old 341) Summary - This study is located in the Price Cougar pasture. The ground cover measured at this site is 57.8%. There were 22 different plant species recorded at this site. The Simpson's Index for Diversity for this site is .77. The Resource Value Rating (RVR) for this site is low medium with a score of 5. The vegetation frequency index is low medium with a score of 615. The relative frequency grass/grass like plants is 68% the relative frequency of forbs is 14% and the relative frequency of shrubs/trees is 18%. The relative frequency of annual taxa is 14.6% and perennial taxa is 85.4%. The relative frequency of introduced species is 57.2%. There was 1 invasive

species recorded at this site with a relative frequency of 14.5%. There were 3 poisonous species recorded with a relative frequency of 9.3%.

The grass with the highest relative frequency at this site is *Agropyron cristatum* (42.11%). The forb with the highest relative frequency is *Zigadenus paniculatus* (4.23%). The shrub/tree with the highest relative frequency is *Artemisia tridentata var.wyomingensis* (15.77%).