

Ecological site group ESG048A20

Bottoms

Last updated: 05/10/2022
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Key Characteristics

- Additional water
- Ephemeral water
- Subsurface EC <4
- Sand <50% & Clay >25% for surface and subsurface - 89 soil components
- Additional water
- Ephemeral water
- Subsurface EC <4 - 98 soil components

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Physiography

This ESG is located on floodplains and drainageways.

Climate

This ESG is characterized by the aquic moisture regime.

Soil features

This ESG is characterized by EC <4.

Vegetation dynamics

The modal ecological site for this ESG is R048AY241CO - Mountain Meadow

Major Land Resource Area

MLRA 048A
Southern Rocky Mountains

Subclasses

- R048AA241CO–Mountain Meadow Gunnison Basin LRU
- R048AY004NM–Mountain Loam
- R048AY006NM–Mountain Meadow
- R048AY008UT–Wet Fresh Meadow (Willow-Sedge)
- R048AY122WY–Mountain Loam
- R048AY241CO–Mountain Meadow
- R048AY245CO–Mountain Swale
- R048AY305CO–Alpine Meadow

Correlated Map Unit Components

21232340, 21286160, 21286312, 21286328, 21286407, 21286119, 21286099, 21286102, 21286089, 21285893, 21286024, 21286133, 21285143, 21285225, 21359447, 21359565, 21284216, 21284218, 21284283, 21284376, 21284416, 21284383, 21284410, 21664084, 21664086, 21664214, 21664090, 21664095, 21664097, 21276860, 21276894, 21276874, 21276863, 21276897, 21276900, 21271112, 21271134, 21271135, 21251656, 21251678, 21250625, 21250614, 21250787, 21270399, 21270447, 21270313, 21834924, 21979168, 21979191, 21979846, 21978931, 21978934, 21978909, 21978912, 21980434, 21980667, 21980666, 21979987, 21980234, 21980322, 21980675, 21979918, 21979921, 21979915, 21981004, 21981011, 21981709, 21407156, 21866001, 21866003, 21865719, 21865717, 21866168, 21866190, 21866390, 21865712, 21865711, 21866923, 21866549, 21866836, 21866834, 21866479, 21910818, 21910826, 21910834, 21910852, 21910861, 21910865, 21910868, 20985927, 20993652, 21285824, 21285840, 21276868, 21250944, 21268169, 21981708, 21866924

Stage

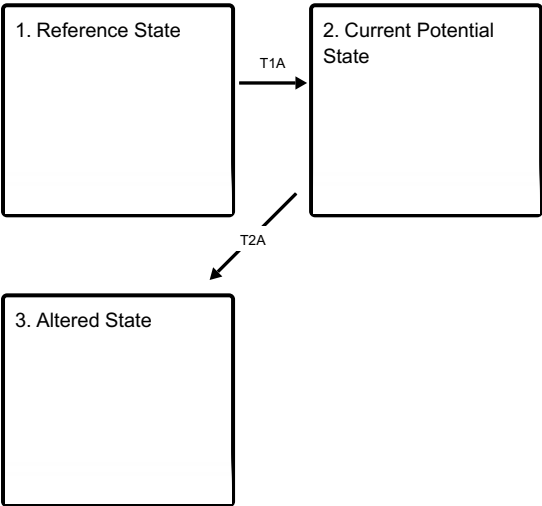
Provisional

Contributors

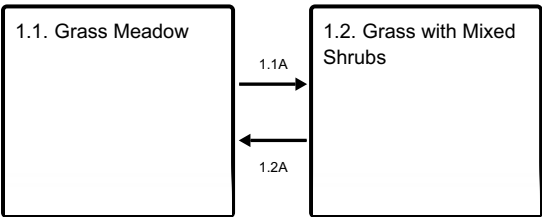
Travis Nauman

State and transition model

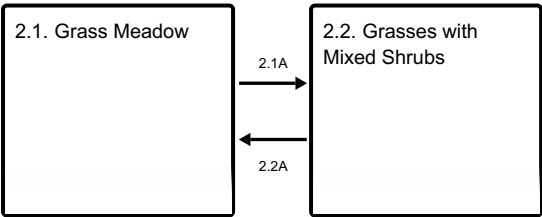
Ecosystem states



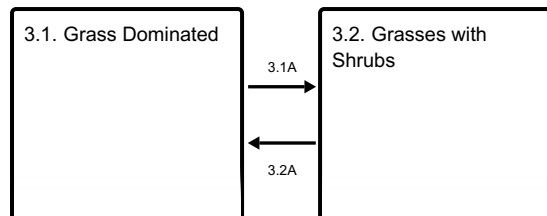
State 1 submodel, plant communities



State 2 submodel, plant communities



State 3 submodel, plant communities



State 1 Reference State

Community 1.1 Grass Meadow

Tufted hairgrass, Nebraska sedge, slender wheatgrass, other grasses, other sedges, and rushes.

Community 1.2 Grass with Mixed Shrubs

Rushes have increased. Nebraska sedge, slender wheatgrass, tufted hairgrass, willows, shrubby cinquefoil, other grasses, other sedges, and rushes are present.

Pathway 1.1A Community 1.1 to 1.2

lack of fire, improper grazing, prolonged drought, time without disturbance

Pathway 1.2A Community 1.2 to 1.1

disturbance, fire, insect herbivory of shrubs, proper grazing, wetter climate cycles

State 2 Current Potential State

Community 2.1 Grass Meadow

Tufted hairgrass, Nebraska sedge, slender wheatgrass, other grasses, other sedges, and rushes. Presence of introduced grasses (Kentucky bluegrass, timothy, redtop) and forbs.

Community 2.2 Grasses with Mixed Shrubs

Kentucky bluegrass, timothy, and redtop are dominant. Other grasses, sedges, and rushes with willows are present. Introduced grasses and forbs are present.

Pathway 2.1A Community 2.1 to 2.2

lack of fire, improper grazing prolonged drought, time without disturbance

Pathway 2.2A Community 2.2 to 2.1

disturbance, fire, insect herbivory of shrubs, proper grazing, wetter climate cycles

State 3

Altered State

Community 3.1

Grass Dominated

Seeded grass species, other grasses, shrubs, and forbs. Presence of introduced grasses and forbs.

Community 3.2

Grasses with Shrubs

Seeded grass species, shrubs, and forbs. Presence of introduced grasses and forbs.

Pathway 3.1A

Community 3.1 to 3.2

lack of fire, improper grazing, prolonged drought, time without disturbance

Pathway 3.2A

Community 3.2 to 3.1

disturbance, fire, insect herbivory of shrubs, proper grazing, wetter climate cycles

Transition T1A

State 1 to 2

establishment of non-native invasive plants

Transition T2A

State 2 to 3

vegetation and/or mechanical treatments of the landscape

Citations