

Ecological site group ESG048A21

Outcrops

Last updated: 06/01/2022
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Key Characteristics

- Uplands
- >75% bedrock outcrop - 527 soil components
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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 mountain slopes and ridges.

Soil features

This ESG is characterized by >75% bedrock outcrop.

Vegetation dynamics

The modal ecological site for this ESG is R048AY229CO - Rocky Loam.

Major Land Resource Area

MLRA 048A
Southern Rocky Mountains

Subclasses

- R048AY229CO–Rocky Loam

Correlated Map Unit Components

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Stage

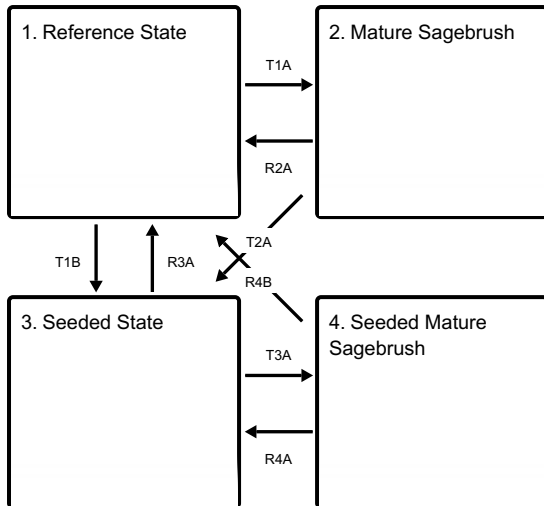
Provisional

Contributors

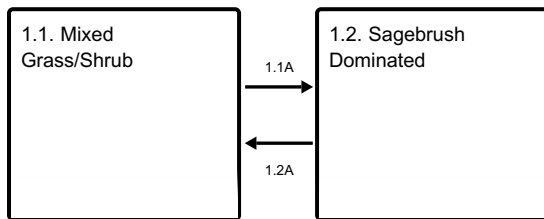
Travis Nauman

State and transition model

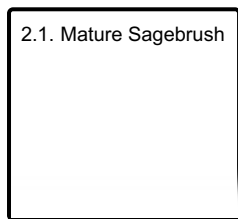
Ecosystem states



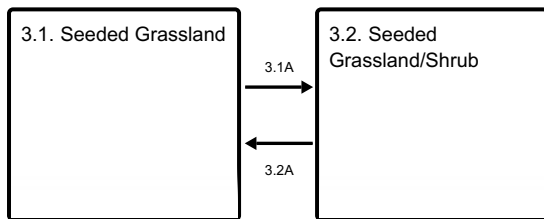
State 1 submodel, plant communities



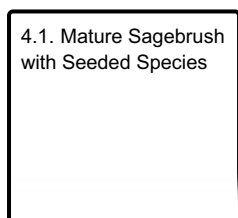
State 2 submodel, plant communities



State 3 submodel, plant communities



State 4 submodel, plant communities



State 1 Reference State

Community 1.1 Mixed Grass/Shrub

Western wheatgrass, bluebunch wheatgrass, prairie junegrass, big sagebrush, other grasses, forbs, and shrubs. Shrub canopy cover is low.

Community 1.2

Sagebrush Dominated

Dominant shrub big sagebrush. Reduced understory & litter. Shrub canopy cover is high.

Pathway 1.1A

Community 1.1 to 1.2

extended improper grazing, lack of fire, extended drought, time without disturbance, and/or lack of insect/pathogen outbreaks

Pathway 1.2A

Community 1.2 to 1.1

fire, proper grazing, wet climatic cycles, vegetation treatments, and/or small scale insect/pathogen outbreaks

State 2

Mature Sagebrush

Community 2.1

Mature Sagebrush

Old stands of big sagebrush with high canopy cover. Very sparse understory. Grasses located under shrubs.

State 3

Seeded State

Community 3.1

Seeded Grassland

Seeded grass species and other pioneering native grasses, shrubs, and forbs.

Community 3.2

Seeded Grassland/Shrub

Seeded grass species. Shrubs (high canopy cover). Pioneering native grasses and forbs.

Pathway 3.1A

Community 3.1 to 3.2

extended improper grazing, lack of fire, extended drought, time without disturbance, and/or lack of insect/pathogen outbreaks

Pathway 3.2A

Community 3.2 to 3.1

fire, proper grazing, wet climatic cycles, vegetative treatments, and/or small scale insect/pathogen outbreaks

State 4

Seeded Mature Sagebrush

Community 4.1

Mature Sagebrush with Seeded Species

Old stands of big sagebrush with high canopy cover. Very sparse understory. Grasses located under shrubs.

Transition T1A

State 1 to 2

extended improper grazing, lack of fire, extended drought, time without disturbance, and/or lack of insect/pathogen outbreaks

Transition T1B

State 1 to 3

seeded herbaceous species plants and/or shrub removal

Restoration pathway R2A

State 2 to 1

fire, vegetation treatments, insect herbivory, drought, proper grazing, and/or encroached shrub removal

Transition T2A

State 2 to 3

seeded herbaceous species planted and/or shrub removal

Restoration pathway R3A

State 3 to 1

intensive management and inputs may be required to return to reference state, wet climatic years, native plantings, vegetative treatments, proper grazing, and/or fire

Transition T3A

State 3 to 4

extended improper grazing, lack of fire, extended drought, time without disturbance, and/or lack of insect/pathogen outbreaks

Restoration pathway R4B

State 4 to 1

intensive management and inputs may be required to return to reference state, wet climatic years, native plantings, vegetative treatments, proper grazing, and/or fire

Restoration pathway R4A

State 4 to 3

fire, proper grazing, wet climatic cycles, small scale insect/pathogen outbreaks, seeding, and/or vegetative treatments

Citations