

# Ecological site group ESG048A24

## Saline Uplands

Last updated: 06/01/2022  
Accessed: 04/25/2024

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### Key Characteristics

- Uplands
- <75% bedrock outcrop
- Surface SAR <8, or Subsurface EC <8, or Surface EC <4
- Gypsum <5% surface and <10% subsurface
- EC >1.5 surface or >2 subsurface - 42 soil components
- Uplands
- <75% bedrock outcrop
- Gypsum <5% surface, gypsum <10% subsurface, surface SAR <8, subsurface EC <8, and surface EC <4.
- EC>1.5 surface or >2 subsurface - 42 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 mountain slopes.

### Soil features

This ESG is characterized by EC >1.5 surface or >2 subsurface.

### Vegetation dynamics

The modal ecological site for this ESG is R048AY231CO - Dry Mountain Loam Gunnison Basin LRU.

### Major Land Resource Area

MLRA 048A  
Southern Rocky Mountains

### Subclasses

- F048AY475UT–Mountain Very Steep Stony Loam (Douglas Fir)
- R048AA231CO–Dry Mountain Loam Gunnison Basin LRU
- R048AY013NM–Mountain Slopes
- R048AY247CO–Deep Clay Loam
- R048AY306UT–Upland Loam (Wyoming Big Sagebrush)
- R048AY322UT–Upland Shallow Loam (Two-Needle Pinyon / Utah Juniper)
- R048AY342UT–Upland Very Steep Shallow Loam (Pinyon-Utah Juniper)
- R048AY366UT–Upland Very Steep Loam (Salina Wildrye)
- R048AY405UT–Mountain Loam (Mountain Big Sagebrush)
- R048AY415UT–Mountain Loam (Oak)
- R048AY449UT–Mountain Stony Loam (Black sagebrush)
- R048AY465UT–Mountain Very Steep Loam (Oak)

## Correlated Map Unit Components

21276877, 21276780, 21276815, 21979137, 21981770, 21407070, 21408158, 21825776, 21820408, 21820411, 21820490, 21819963, 21819967, 21866146, 21866145, 21866213, 21866858, 21866469, 21866688, 21866689, 21866960, 21866581, 21866852, 21866945, 21910660, 21910663, 21910664, 21910666, 21910723, 21910726, 21910729, 21910835, 21910838

## Stage

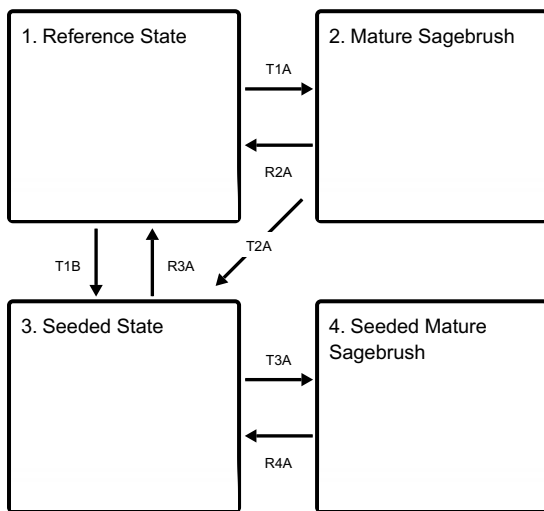
Provisional

## Contributors

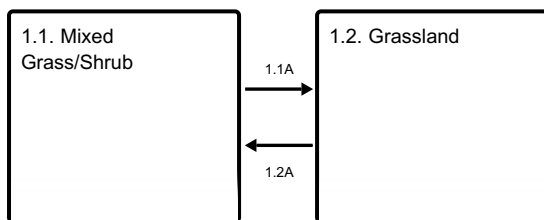
Travis Nauman

## State and transition model

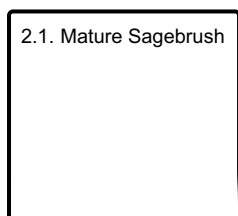
### Ecosystem states



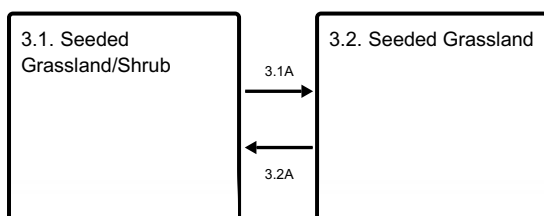
### State 1 submodel, plant communities



### State 2 submodel, plant communities



### State 3 submodel, plant communities



**State 4 submodel, plant communities**

4.1. Mature Sagebrush  
with Seeded Species

**State 1  
Reference State**

**Community 1.1  
Mixed Grass/Shrub**

Bluebunch wheatgrass, needlegrasses, other grasses, and forbs co-dominant with Wyoming big sagebrush.

**Community 1.2  
Grassland**

Bluebunch wheatgrass, needlegrasses, other grasses, forbs, and shrubs. Wyoming big sagebrush canopy cover low.

**Pathway 1.1A  
Community 1.1 to 1.2**

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

**Pathway 1.2A  
Community 1.2 to 1.1**

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

**State 2  
Mature Sagebrush**

**Community 2.1  
Mature Sagebrush**

Old stands of Wyoming big sagebrush with high canopy cover. Reduced understory. Grasses located under shrubs. Active soil loss.

**State 3  
Seeded State**

**Community 3.1  
Seeded Grassland/Shrub**

Seeded grass species, shrubs (high canopy cover), pioneering native grasses, and forbs.

**Community 3.2  
Seeded Grassland**

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

**Pathway 3.1A**

## **Community 3.1 to 3.2**

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

## **Pathway 3.2A**

### **Community 3.2 to 3.1**

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

## **State 4**

### **Seeded Mature Sagebrush**

## **Community 4.1**

### **Mature Sagebrush with Seeded Species**

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

## **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, wet climatic cycles, 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 R4A**

### **State 4 to 3**

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

## Citations