

# Ecological site group 29-1

## Ecological Site Group 1

Last updated: 05/10/2025  
Accessed: 05/10/2025

### Key Characteristics

None specified

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.

### Climate

The group is characterized by a four-state STM with four community phases in the first state, four community phases in the second state, two community phases in the third state, and one community phase in the fourth state.

### Vegetation dynamics

The group is characterized by a four-state STM with four community phases in the first state, four community phases in the second state, two community phases in the third state, and one community phase in the fourth state.

### Major Land Resource Area

MLRA 029X  
Southern Nevada Basin and Range

### Stage

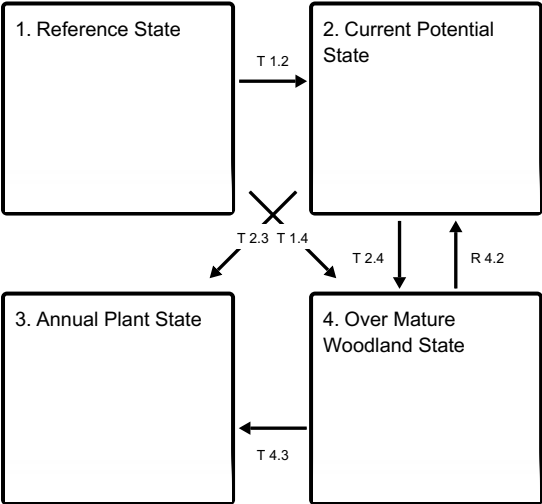
Provisional

### Contributors

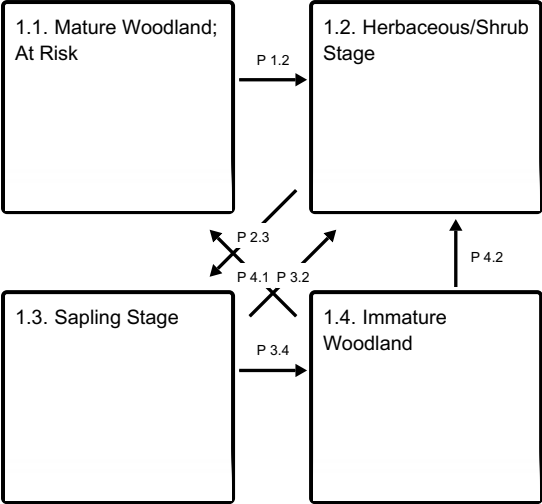
Curtis Talbot

### State and transition model

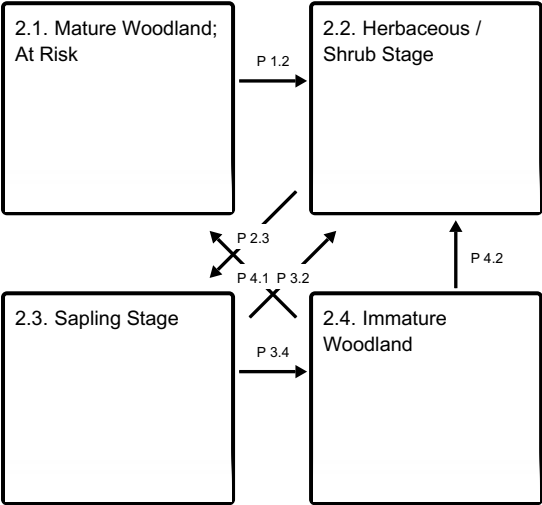
Ecosystem states



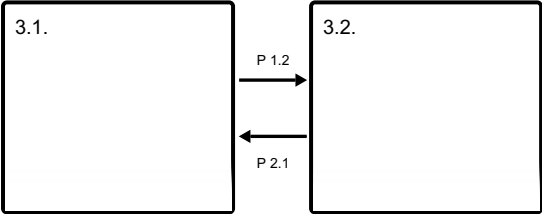
State 1 submodel, plant communities



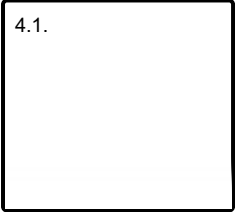
State 2 submodel, plant communities



State 3 submodel, plant communities



State 4 submodel, plant communities



State 1  
Reference State

Community 1.1  
Mature Woodland; At Risk

singleleaf pinyon - Utah juniper overstory shrub - perennial grass dominated understory few tree seedlings and saplings occur in understory

## **Community 1.2**

### **Herbaceous/Shrub Stage**

perennial bunchgrasses & sprouting shrubs dominant non-sprouting shrubs present tree seedlings (<20") are present burned tree skeletons may be present

## **Community 1.3**

### **Sapling Stage**

shrubs and perennial bunchgrasses dominant tree saplings (20"-4.5') present

## **Community 1.4**

### **Immature Woodland**

singleleaf peinyon & Utah juniper >4.5' tree seedlings and saplings present in the understory shrub-perennial grass dominated understory

## **Pathway P 1.2**

### **Community 1.1 to 1.2**

Fire

## **Pathway P 2.3**

### **Community 1.2 to 1.3**

time and lack of disturbance

## **Pathway P 3.2**

### **Community 1.3 to 1.2**

fire

## **Pathway P 3.4**

### **Community 1.3 to 1.4**

time and lack of disturbance

## **Pathway P 4.1**

### **Community 1.4 to 1.1**

time and lack of disturbance

## **Pathway P 4.2**

### **Community 1.4 to 1.2**

fire

## **State 2**

### **Current Potential State**

## **Community 2.1**

### **Mature Woodland; At Risk**

singleleaf pinyon - Utah juniper overstory shrub - perennial grass dominated understory few tree seedlings and sapling occur in understory annual non-native species present

## **Community 2.2**

### **Herbaceous / Shrub Stage**

perennial bunchgrass & sprouting shrubs dominant non-sprouting shrubs present tree seedlings (<20") are present  
burned tree skeletons may be present annual non-native species present and may be increasing

## **Community 2.3**

### **Sapling Stage**

shrubs and perennial bunchgrasses dominant tree saplings (20"-4.5') present annual non-native species present  
and may be increasing

## **Community 2.4**

### **Immature Woodland**

singleleaf pinyon & Utah juniper >4.5' tree seedlings and saplings present in the understory shrub - perennial grass  
dominated understory annual non-native species present and may be increasing

## **Pathway P 1.2**

### **Community 2.1 to 2.2**

fire

## **Pathway P 2.3**

### **Community 2.2 to 2.3**

time and lack of disturbance

## **Pathway P 3.2**

### **Community 2.3 to 2.2**

fire

## **Pathway P 3.4**

### **Community 2.3 to 2.4**

time and lack of disturbance

## **Pathway P 4.1**

### **Community 2.4 to 2.1**

time and lack of disturbance

## **Pathway P 4.2**

### **Community 2.4 to 2.2**

fire

## **State 3**

### **Annual Plant State**

## **Community 3.1**

Annual non-natives dominate site Trace amounts of perennial bunchgrasses

## **Community 3.2**

Sprouting shrub overstory Annual non-native understory

**Pathway P 1.2**  
**Community 3.1 to 3.2**

Time allows for sprouting shrubs to recover

**Pathway P 2.1**  
**Community 3.2 to 3.1**

Fire

**State 4**  
**Over Mature Woodland State**

**Community 4.1**

Singleleaf pinyon - Utah juniper overstory, canopy closed Shrubs & deep-rooted perennial bunchgrasses declining  
Annual non-native species common in understory Soil erosion probable

**Transition T 1.2**  
**State 1 to 2**

Introduction of non-native annual species

**Transition T 1.4**  
**State 1 to 4**

Time and lack of disturbance

**Transition T 2.3**  
**State 2 to 3**

Severe and Repeated Fire

**Transition T 2.4**  
**State 2 to 4**

Time and lack of disturbance

**Restoration pathway R 4.2**  
**State 4 to 2**

Thinning of trees and seeding or recovery of understory species

**Transition T 4.3**  
**State 4 to 3**

Severe and Repeated Fire

**Citations**