

Ecological site group DX035X02CESG16

Coconino Transition - Aridic Ustic - Basalt or Clayey Upland

Last updated: 10/25/2022
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Key Characteristics

- Coconino Transition (C)
- Soil at site is basalt or clayey.
- Site soils are aridic ustic or within a 14-18" precipitation zone.
- Site is and/or located in an upland with slopes <15%.

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

Site is and/or located in an upland with slopes <15%. Aspects tend to be northeast except valleys near Truxton Wash and Aubrey Valley.

Climate

Site soils are aridic ustic or within a 14-18" precipitation zone. Precipitation comes predominantly from monsoonal patterns during months of July, August, and September. Winter precipitation is equally predominant in the northern half of the LRU.

Soil features

Parent material is basalt. Soils are clay loam or clayey. Site consists of gently dipping shallow and moderately deep residuum weathered from basalt rocks eroded into steep cliff faces and canyons.

Major Land Resource Area

MLRA 035X
Colorado Plateau

Subclasses

- R035XF603AZ–Clay Loam Upland 13-17" p.z.
- R035XG701AZ–Basalt Upland 14-18" p.z.
- R035XG704AZ–Cinder Upland 14-18" p.z.
- R035XG706AZ–Clayey Upland 14-18" p.z.

Correlated Map Unit Components

22353532, 22353530, 22353533, 22353535, 22353538, 22353539, 22353541, 22353542, 22353769, 22353771, 22353773, 22353777, 22353780, 22353783, 22353828, 22391434, 23195924, 23195934, 23195967, 22976300, 22976318, 22976324

Stage

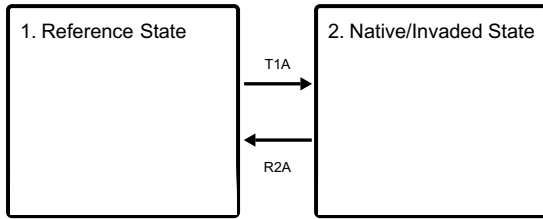
Provisional

Contributors

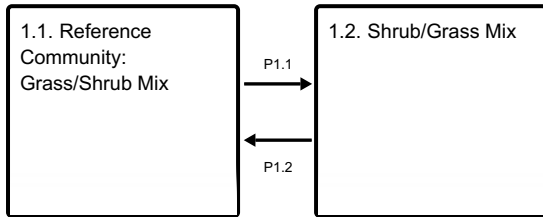
Curtis Talbot

State and transition model

Ecosystem states



State 1 submodel, plant communities



State 1

Reference State

Western wheatgrass - Snakeweed - Rabbitbrush/Blue grama - Squirreltail

Community 1.1

Reference Community: Grass/Shrub Mix

Western wheatgrass - Blue grama/Big sagebrush

Community 1.2

Shrub/Grass Mix

Big sagebrush - snakeweed - Rabbitbrush/Blue grama - squirreltail

Pathway P1.1

Community 1.1 to 1.2

A decrease in palatable species, especially grasses and an increase of shrubs.

Pathway P1.2

Community 1.2 to 1.1

Disturbance to set the shrubs back along with management to improve grass composition.

State 2

Native/Invaded State

Sagebrush/Blue grama with Annuals, native and non-natives

Transition T1A

State 1 to 2

A decline in ecosystem function and a shift to shrub dominant with introduced species.

Restoration pathway R2A State 2 to 1

A slow restoration of soil, plant, and water function.

Citations