

Ecological site group DX035X02CESG10

Coconino Transition - Aridic Ustic - Limestone or Loamy Cliffs

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Key Characteristics

- Coconino Transition (C)
- Site parent material is limestone or dolomite, or soil is loamy.
- Site soils are aridic ustic or within a 14-18" precipitation zone.
- Site is and/or located on a cliff with slopes >50%.

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 on a cliff with slopes >50%. 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 limestone. Soils are loamy. Site consists of gently dipping shallow residuum weathered from sedimentary rocks eroded into steep cliff faces and canyons.

Major Land Resource Area

MLRA 035X
Colorado Plateau

Subclasses

- R035XF601AZ–Sedimentary Cliffs 13-17" p.z.
- R035XG702AZ–Breaks 14-18" p.z.

Correlated Map Unit Components

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Stage

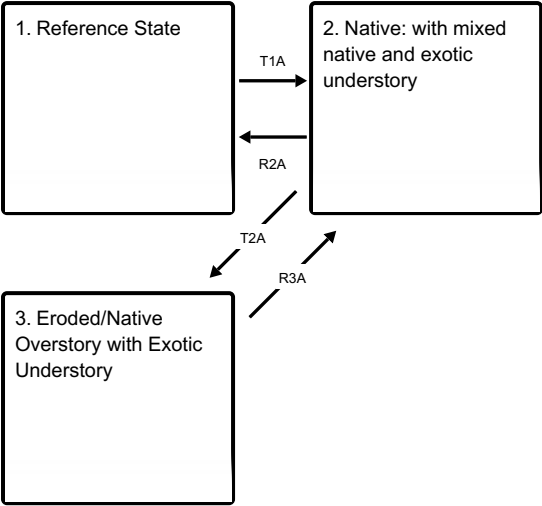
Provisional

Contributors

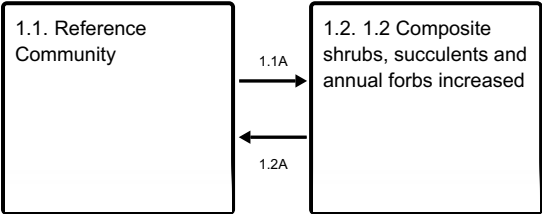
Curtis Talbot

State and transition model

Ecosystem states



State 1 submodel, plant communities



State 1
Reference State

Juniper/Pinion, grasses, shrubs and forbs

Community 1.1
Reference Community

Juniper/Pinion, grasses, shrubs and forbs

Community 1.2
1.2 Composite shrubs, succulents and annual forbs increased

Pathway 1.1A
Community 1.1 to 1.2

A decrease in palatable plant species.

Pathway 1.2A
Community 1.2 to 1.1

Management that improves palatable plant species.

State 2
Native: with mixed native and exotic understory

State 3
Eroded/Native Overstory with Exotic Understory

Native Overstory with exotic understory

Transition T1A

State 1 to 2

A loss of ecosystem function and invasion of introduced species.

Restoration pathway R2A

State 2 to 1

Restoration of ecosystem function with native species out-competing exotic species.

Transition T2A

State 2 to 3

Further degradation of ecosystem.

Restoration pathway R3A

State 3 to 2

Long term restoration building soil, plant, and hydrologic health.

Citations