Ecological site group DX035X02BESG01
Coconino Plateau - Ustic Aridic - Limestone or Loamy Bottoms

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Key Characteristics

- Coconino Plateau (B)
- Site parent material is limestone or dolomite, or soil is loamy.
- Site soils are ustic aridic or within a 10-14" precipitation zone.
- Site is and/or located in a wash.

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 bottoms with slopes <3%. Aspects tend to be southwest in the eastern half, and east in the western half of the LRU.

Climate

Site soils are ustic aridic or within a 10-14" precipitation zone. Precipitation comes predominantly from monsoonal patterns during months of July, August, and September.

Soil features

Subset subgroup- Parent Material Limestone or Dolomite, or Soil is Loamy. Site consists of broad alluvial deposits in washes, streams or fans, often deep.

Major Land Resource Area

MLRA 035X
Colorado Plateau

Subclasses

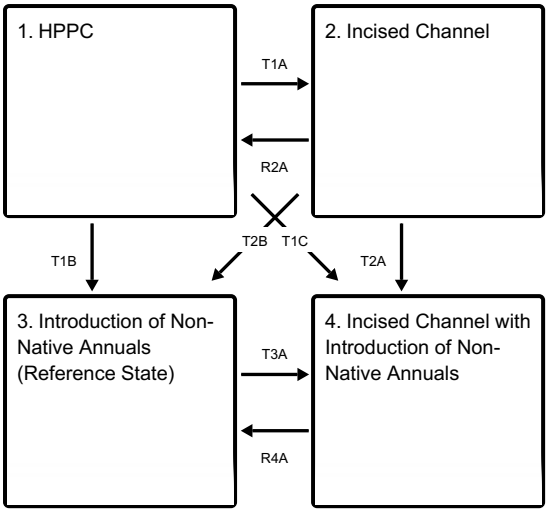
- DX035X01I112–Loamy Wash 10-14" p.z.

Stage

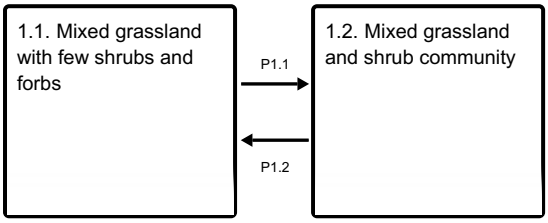
Provisional

State and transition model

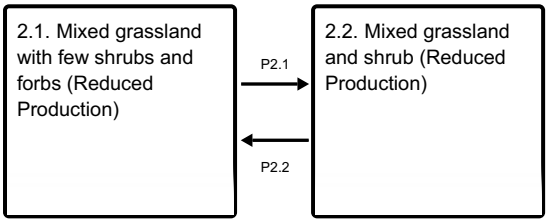
Ecosystem states



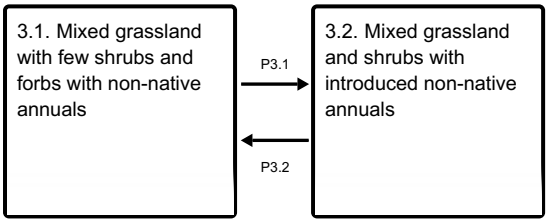
State 1 submodel, plant communities



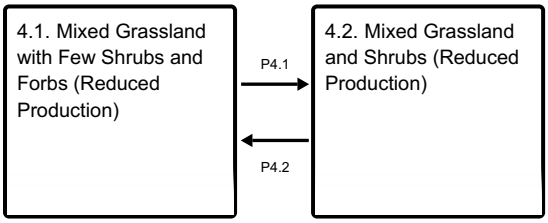
State 2 submodel, plant communities



State 3 submodel, plant communities



State 4 submodel, plant communities



State 1
HPPC

Community 1.1
Mixed grassland with few shrubs and forbs

Community 1.2
Mixed grassland and shrub community

Pathway P1.1
Community 1.1 to 1.2

Excessive grazing and/or drought

Pathway P1.2
Community 1.2 to 1.1

Improved grazing management and/or return of normal precipitation

State 2
Incised Channel

Community 2.1
Mixed grassland with few shrubs and forbs (Reduced Production)

Community 2.2
Mixed grassland and shrub (Reduced Production)

Pathway P2.1
Community 2.1 to 2.2

Excessive grazing and/or drought

Pathway P2.2
Community 2.2 to 2.1

Improved grazing management and/or return to normal precipitation

State 3
Introduction of Non-Native Annuals (Reference State)

Community 3.1
Mixed grassland with few shrubs and forbs with non-native annuals

Community 3.2
Mixed grassland and shrubs with introduced non-native annuals

Pathway P3.1
Community 3.1 to 3.2

Excessive grazing and/or drought

Pathway P3.2
Community 3.2 to 3.1

Improved grazing management and/or return to normal precipitation

State 4
Incised Channel with Introduction of Non-Native Annuals

Community 4.1
Mixed Grassland with Few Shrubs and Forbs (Reduced Production)

Community 4.2
Mixed Grassland and Shrubs (Reduced Production)

Pathway P4.1
Community 4.1 to 4.2

Excessive grazing and/or drought

Pathway P4.2
Community 4.2 to 4.1

Improved grazing management and/or return to normal precipitation

Transition T1A
State 1 to 2

Channel incision

Transition T1B
State 1 to 3

Introduction of non-native annuals

Transition T1C
State 1 to 4

Channel incision with simultaneous introduction of non-native annuals

Restoration pathway R2A
State 2 to 1

Channel repair through grade stabilization

Transition T2B
State 2 to 3

Channel repair through grade stabilization with simultaneous introduction of non-native annuals

Transition T2A
State 2 to 4

Introduction of non-native annuals

Transition T3A
State 3 to 4

Channel incision

Restoration pathway R4A
State 4 to 3

Channel repair through grade stabilization

Citations