

# Ecological site DX035X03G001 Twoneedle Pinyon/Oneseed Juniper Woodland - Zuni 13 to 17 inches

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#### **General information**

**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.



Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	<ul><li>(1) Pinus edulis</li><li>(2) Juniperus monosperma</li></ul>
Shrub	<ul><li>(1) Artemisia nova</li><li>(2) Atriplex canescens</li></ul>
Herbaceous	(1) Pascopyrum smithii

#### Legacy ID

F035XG001NM

#### Physiographic features

The western plateau ranges from 6,600-8,000 feet. It consists of an area of broad mesas and plateaus interspersed with numerous deep canyons and dry washes.

Table 2. Representative physiographic features

Landforms	(1) Plateau (2) Hill (3) Fan remnant
Elevation	2,012–2,438 m
Slope	1–10%
Aspect	Aspect is not a significant factor

#### **Climatic features**

The western plateau area experiences cool, wet winters and warm summers with monsoon moisture from July to September.

Table 3. Representative climatic features

Frost-free period (average)	135 days
Freeze-free period (average)	0 days
Precipitation total (average)	406 mm

#### Influencing water features

No water features are found proximal to this site.

#### Soil features

These soils are deep to very deep, well-drained, moderate to moderately slow permeability formed in medium to moderately fine textured material. These soils are on mesas, cuestas, fan remnants, and alluvium fans. Slopes range from 1 to 10 percent.

#### Soil survey associations:

This ecological site is associated with the map units and soil components in the following soil surveys. Future updates to this soil survey may affect these associations. For up-to-date associations between soil components and this ecological site, refer to NASIS. Associations between ecological sites and soil components are maintained in NASIS via the ecological site ID.

#### MAP UNIT NAME

Soil survey...Map unit symbol...Soil components

McKinley.....315..... Flugle McKinley.....305..... Celavar

#### Table 4. Representative soil features

Surface texture	(1) Loam (2) Sandy loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Moderate
Soil depth	51–203 cm
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-101.6cm)	7.62–25.4 cm
Calcium carbonate equivalent (0-101.6cm)	0–10%

Electrical conductivity (0-101.6cm)	0–2 mmhos/cm
Soil reaction (1:1 water) (0-101.6cm)	7.2–8
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

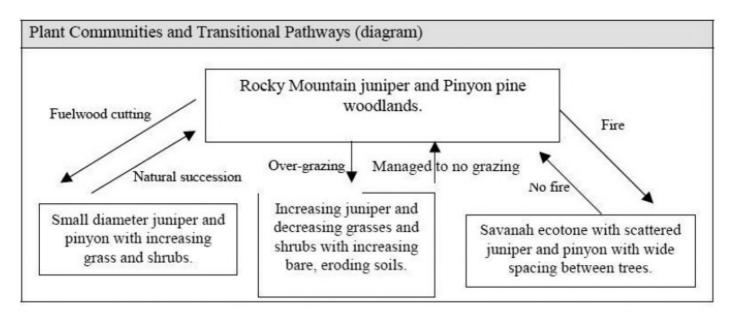
#### **Ecological dynamics**

Woodland vegetation is distinguished from forest vegetation by having smaller trees with canopies that do not overlap.

Grasses are more prevalent since the trees are widely spaced.

The terrain is dry and rocky and characterized by limited moisture.

#### State and transition model



### State 1 test

test

## Community 1.1 test

test

#### Additional community tables

Table 5. Community 1.1 plant community composition

Group Common Name Symbol Scientific Name Annual Production (Kg/Hectare) Foliar Cove
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#### Type locality

Location 1: Cit	oola County, NM
Latitude	35° 6′ 11″

Longitude	109° 2′ 40″
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#### **Contributors**

Steve Lacy

### Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

no	licators
1.	Number and extent of rills:
2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):

et of community phase composition (relative proportion of different functional groups) and spatial ibution on infiltration and runoff:  ence and thickness of compaction layer (usually none; describe soil profile features which may be aken for compaction on this site):
tional/Structural Groups (list in order of descending dominance by above-ground annual-production or live cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
nant:
dominant:
r:
ional:
unt of plant mortality and decadence (include which functional groups are expected to show mortality or dence):
age percent litter cover (%) and depth ( in):
cted annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-uction):
ntial invasive (including noxious) species (native and non-native). List species which BOTH characterize aded states and have the potential to become a dominant or co-dominant species on the ecological site if future establishment and growth is not actively controlled by management interventions. Species that me dominant for only one to several years (e.g., short-term response to drought or wildfire) are not sive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state ne ecological site:
nnial plant reproductive capability:
fu m siv