

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

ECOLOGICAL SITE DESCRIPTION

ECOLOGICAL SITE CHARACTERISTICS

Site Type: Forest
Site ID: F036XB001NM
Site Name: *Pinus edulis*–*Juniperus monosperma* Pinyon – Juniper woodland Zuni
Reservation
Major Land Resource Area and Common Resource Area MLRA 36 CRA – WP-2
Precipitation or Climate Zone: 13-17” Western Plateau Zuni Reservation
Phase: _____

ORIGINAL SITE DESCRIPTION APPROVAL:

Site Date: June 02, 2002
Site Author: Steve Lacy
Site Approval: _____
Approval Date: _____

REVISIONS:

Revision Date: _____
Revisor: _____
Revision
Approval: _____
Approval Date: _____
Revision Notes: _____

PHYSIOGRAPHIC FEATURES

Narrative:

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.

LAND FORM:

1. plateau
2. hill
3. fan remnants

ASPECT:

1. all
- 2.

3.

Elevation (feet)	Minimum 6,300	Maximum 7,300
Slope (percent)	1	10
Water Table Depth (inches)	-	-
Flooding: Frequency	Minimum none	Maximum
Duration		
Ponding: Depth (inches)	Minimum none	Maximum
Frequency		
Duration		

Runoff Class:
medium

CLIMATIC FEATURES

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

Frost-free period (days):	Minimum 115	Maximum 135
Freeze-free period (days):		
Mean annual precipitation (inches):	13	16

Monthly moisture (inches) and temperature (°F) distribution:

	Avg. Precip. In.	Avg. Snowfall Total	Temp. Min.	Temp. Max.
January	0.88	4.5	16.4	46.5
February	0.71	3.0	20.4	50.8
March	0.93	3.0	24.8	56.8
April	0.61	0.7	30.6	65.5
May	0.46	0.2	38.2	74.7
June	0.42	-	46.4	85.0
July	1.95	-	54.4	88.4
August	2.23	-	53.8	85.4
September	1.21	-	46.3	80.1
October	1.20	0.4	35.0	69.8
November	0.79	1.4	24.4	56.4
December	0.81	4.7	17.1	47.7

Climate Stations:

Station ID	Location	Lat	Long	From:	Period	To:
Zuni		3504	10850	1984		1999
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

INFLUENCING WATER FEATURES

Narrative:

Wetland description:

System	Subsystem	Class
_____	_____	_____

If Riverine Wetland System enter Rosgen Stream Type:

REPRESENTATIVE SOIL FEATURES

Narrative:

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.

Parent Material Kind: slope and fan alluvium

Parent Material Origin: Sandstone and shale

Surface Texture:

1. loam

2. sandy loam's

3.

Surface Texture Modifier:

1. none

2.

3.

Subsurface Texture Group: _____

Surface Fragments $\leq 3''$ (% Cover): 0-5%

Surface Fragments $> 3''$ (% Cover): 0%

Subsurface Fragments $\leq 3''$ (%Volume): 0-5%

Subsurface Fragments $\geq 3''$ (%Volume): 0%

	Minimum	Maximum
Drainage Class:	<u>well</u>	<u></u>
Permeability Class:	<u>0.6</u>	<u>0.6</u>
Depth (inches):	<u>20''</u>	<u>>80'</u>
Electrical Conductivity (mmhos/cm):	<u>0</u>	<u>2</u>
Sodium Absorption Ratio:	<u>0</u>	<u>0</u>
Soil Reaction (1:1 Water):	<u>7.2</u>	<u>8.0</u>
Soil Reaction (0.1M CaCl ₂):	<u>-</u>	<u>-</u>
Available Water Capacity (inches):	<u>3</u>	<u>10</u>
Calcium Carbonate Equivalent (percent):	<u>0%</u>	<u>10%</u>

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

<u>Soil survey</u>	<u>Map unit symbol</u>	<u>Soil components</u>
McKinley	315	Flugle
McKinley	305	Celavan

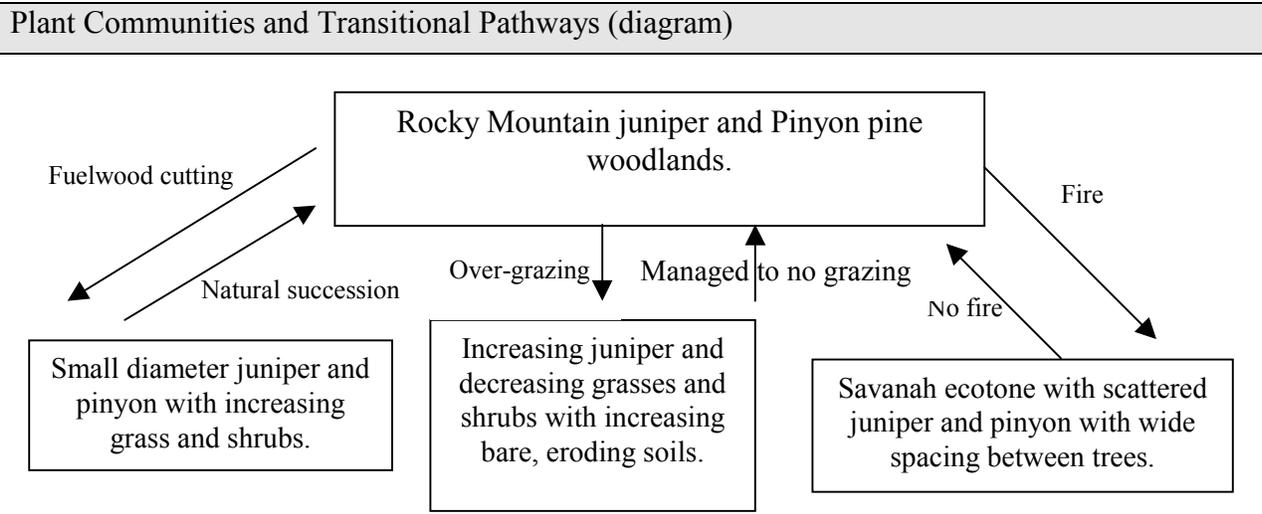
PLANT COMMUNITIES

Ecological Dynamics of the Site:

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.



Interpretive Plant Community: Naturalized Community

Ground Cover and Structure:

Cover Type	Percent Ground Cover by Height Class (feet)								
	<.5	.5-1	>1-2	>2-4.5	>4.5-13	>13-40	>40-80	>80-120	>120
Grass/Grass Like									
Forb									
Shrub/Vine									
Tree									
Lichen									
Moss									
Litter									
Course Fragment									
Bare Ground									

Forest Overstory Composition:

The typical forest overstory composition of the historic climax community.

Common Name	Scientific Name	Percent Composition (percent by frequency)
Total		

Forest Understory Composition:

The typical annual production of understory species to a height of 4.5 feet (excluding boles of trees) under low, high, and representative canopy covers.

Common Name	Scientific Name	Annual Production Per Acre Percent and Pounds (air-dry weight)					
		Canopy Cover Percent					
		80		90		100	
		%	lbs	%	lbs	%	lbs
Total Annual Production							

Typical Climax Community:

--

Plant Community: (as it exists today)

--

Ground Cover and Structure:

Cover Type	Percent Ground Cover by Height Class (feet)								
	<.5	.5-1	>1-2	>2-4.5	>4.5-13	>13-40	>40-80	>80-120	>120
Grass/Grass Like									
Forb									
Shrub/Vine									
Tree									
Lichen									
Moss									
Litter									
Course Fragment									
Bare Ground									

Forest Overstory Composition:

The typical forest overstory composition of the historic climax community.

Common Name	Scientific Name	Percent Composition (percent by frequency)

Forest Understory Composition:

The typical annual production of understory species to a height of 4.5 feet (excluding boles of trees) under low, high, and representative canopy covers.

Common Name	Scientific Name	Annual Production Per Acre Percent and Pounds (air-dry weight)					
		Canopy Cover Percent					
		75		85		95	
		%	lbs	%	lbs	%	lbs

Plant Community: (as it exists today)

ECOLOGICAL SITE INTERPRETATIONS

Forest Site Productivity

Common Name	Scientific Name	Annual Productivity (per acre per year)						
		Site Index		Cubic Feet (CMAI)		Other Units		
		Low	High	Low	High	Low	High	Unit

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

ECOLOGICAL SITE INTERPRETATIONS

Animal Community:

Plant Preference by Animal Kind:

Animal Kind: _____

Animal Type: _____

Common Name	Scientific Name	Plant Part	Forage Preferences											
			J	F	M	A	M	J	J	A	S	O	N	D

Animal Kind: _____

Animal Type: _____

Common Name	Scientific Name	Plant Part	Forage Preferences											
			J	F	M	A	M	J	J	A	S	O	N	D

Hydrology Functions:

Recreational Uses:

Wood Products:
firewood

Other Products:

Other Information:

Supporting Information

Associated Sites:

<u>Site Name</u>	<u>Site ID</u>	<u>Site Narrative</u>
------------------	----------------	-----------------------

Similar Sites:

<u>Site Name</u>	<u>Site ID</u>	<u>Site Narrative</u>
------------------	----------------	-----------------------

Inventory Data References (narrative):

Inventory Data References:

<u>Data Source</u>	<u>Number of</u> <u>Records</u>	<u>Sample Period</u>	<u>State</u>	<u>County</u>
--------------------	------------------------------------	----------------------	--------------	---------------

State Correlation:

This site has been correlated with the following sites: _____

Type Locality:

State: New Mexico

County: McKinley

Latitude: 35⁰ 6' 11" N

Longitude: 109⁰ 2' 40" W

Township: T 21 W

Range: R 10 N

Section: _____

Is the type locality sensitive? Yes No

General Legal Description: _____

Relationship to Other Established Classifications:

Other References: