

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

ECOLOGICAL SITE DESCRIPTION

ECOLOGICAL SITE CHARACTERISTICS

Site Type: Forest
Site ID: F070XC009NM
Site Name: Rocky Mountain juniper / Pinon pine / Oneseed juniper
Major Land Resource Area and Common Resource Area MLRA 70 CRA / CP3
Precipitation or Climate Zone: _____
Phase: _____

ORIGINAL SITE DESCRIPTION APPROVAL:

Site Date: August 16, 2002
Site Author: Robert D. Bruce
Site Approval: _____
Approval Date: _____

REVISIONS:

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

PHYSIOGRAPHIC FEATURES

Narrative:

This site is on uplands, ridges and small benches on canyon walls.

LAND FORM:

1. upland, ridges and benches
2. _____
3. _____

ASPECT:

1. North - East
2. _____
3. _____

Elevation (feet)	Minimum 5,500	Maximum 6,500
Slope (percent)	0	15
Water Table Depth (inches)	8	20
Flooding:	Minimum	Maximum
Frequency	none	none
Duration	none	none
Ponding:	Minimum	Maximum
Depth (inches)	0"	0"
Frequency	none	none
Duration	none	none

Runoff Class:
D

CLIMATIC FEATURES

Narrative:
Precipitation is mostly during the growing season, but is limited in the winter and early Spring. The winters are cold and summers can be very warm. The sun shines about 70% in summer and 20-30% in winter.

Frost-free period (days):	Minimum 120	Maximum 190
Freeze-free period (days):	123	180
Mean annual precipitation (inches):	12	16.64

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

	Avg. Precip. In.	Avg. Snowfall Total	Temp. Min.	Temp. Max.
January	0.33	6.4	18.3	45.5
February	0.36	6.1	21.0	49.1
March	0.63	6.9	25.1	54.3
April	0.87	4.1	32.3	62.6
May	1.68	0.6	41.0	71.2
June	1.91	0.1	49.5	80.6
July	3.18	0.0	54.0	83.1
August	3.57	0.0	52.8	80.7
September	1.81	0.0	46.5	75.4
October	1.20	1.8	36.3	66.2
November	0.57	4.0	25.6	54.3
December	0.51	7.2	19.5	47.0

Climate Stations:

Station ID	Location	Lat	Long	From:	To:	Period
294856	Las vegas FAA Airpot, NM			1941	2001	
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

INFLUENCING WATER FEATURES

Narrative:

Wetland description:

System	Subsystem	Class

If Riverine Wetland System enter Rosgen Stream Type:

REPRESENTATIVE SOIL FEATURES

Narrative:

The surface texture are those found in the top 8" and the subsurface are those between 8"-20".

Parent Material Kind: sandstone

Parent Material Origin: _____

Surface Texture:

1. stony sandy loam

2. _____

3. _____

Surface Texture Modifier:

1. stony loam

2. _____

3. _____

Subsurface Texture Group: very stony loam

Surface Fragments $\leq 3''$ (% Cover): _____

Surface Fragments $> 3''$ (% Cover): 20-25

Subsurface Fragments $\leq 3''$ (% Volume): _____

Subsurface Fragments $\geq 3''$ (% Volume): 35-45

	Minimum		Maximum	
Drainage Class:	well		well	
Permeability Class:	.6	2.0	20.	6.0
Depth (inches):	0	8	8	20
Electrical Conductivity (mmhos/cm):	<2	<2	<2	<2
Sodium Absorption Ratio:				
Soil Reaction (1:1 Water):	6.6	7.8	7.4	84
Soil Reaction (0.1M CaCl ₂):				
Available Water Capacity (inches):	.07	.09	.08	.11
Calcium Carbonate Equivalent (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

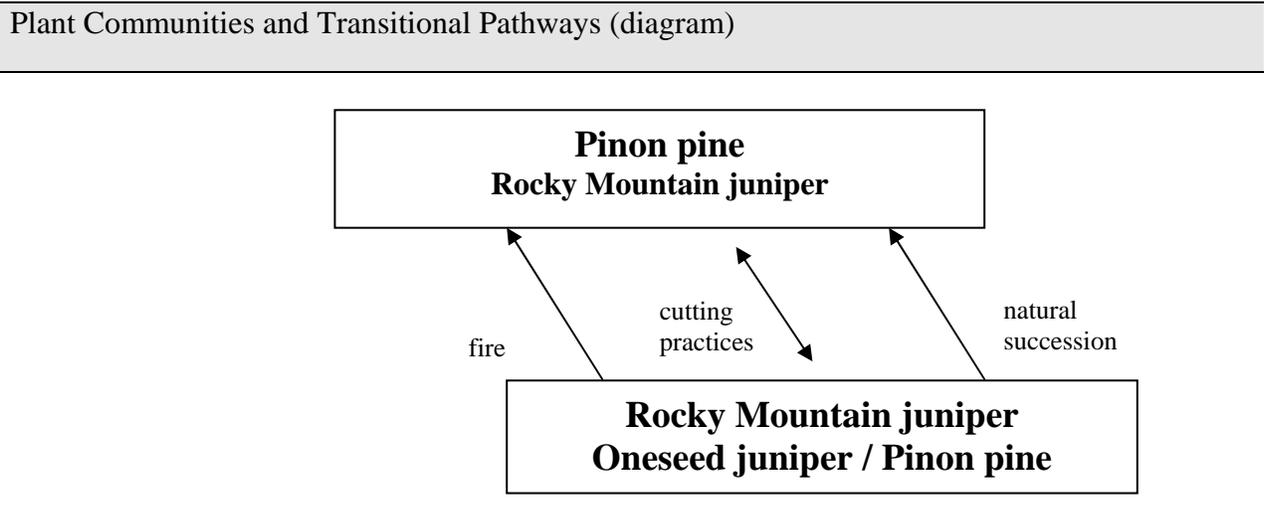
<u>Soil survey</u>	<u>Map unit symbol</u>	<u>Soil components</u>	<u>Map unit name</u>
San Miguel county area	TS	tuloso sombordoro	tuloso/sombordoro

PLANT COMMUNITIES

Ecological Dynamics of the Site:

Rocky Mountain juniper, oneseed juniper and Pinon pine occupy the overstory. Wavyleaf oak and skunkbush sumac and warm season grasses occupy the understory and rock fragments are the ground cover.

Grazing and fire have a dramatic impact on the overstory. Fire will reduce the new seedling establishment of all woody species. Over grazing will also reduce establishment and growth of juniper and pine species.



Interpretive Plant Community: Rocky Mountain juniper / Oneseed juniper / Pinõn pine

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:

The climax condition of this site should be composed of Pinõn pine and Rocky Mountain juniper with small amounts of oneseed juniper.

Plant Community: (as it exists today)



The plant community today is composed of Rocky Mountain and oneseed juniper with Pinion.

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	28								
Forb	3								
Shrub/Vine	1		5	10					
Tree	1		5	5	15				
Lichen									
Moss									
Litter	2								
Course Fragment	10								
Bare Ground	15								

Forest Overstory Composition:

The typical forest overstory composition of the historic climax community.

Common Name	Scientific Name	Percent Composition (percent by frequency)
Rocky Mountain juniper	<i>Juniperus scopulorum</i>	30
Pinõn pine	<i>Pinus edulis</i>	40
Oneseed juniper	<i>Juniperus monosperma</i>	30
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					
		75		85		95	
		%	lbs	%	lbs	%	lbs
Blue grama	<i>Bouteloua gracilis</i>	35	420	35	350	35	280
Sideoats grama	<i>Bouteloua curtipendula</i>	20	240	20	200	20	160
Clover	<i>Trifolium pratense</i>	3	36	3	30	3	24
Pinõn pine	<i>Pinus edulis</i>	3	36	3	30	3	24
Oneseed juniper	<i>Juniperus monosperma</i>	2	24	2	20	2	16
Sand dropseed	<i>Sporobolus cryptandrus</i>	5	60	5	50	5	40
Little bluestem	<i>Schizachyrium scoparium</i>	10	120	10	100	10	80
Yucca	<i>Yucca elata</i>	2	24	2	20	2	40
Wavyleaf oak	<i>Quercus undulata</i>	10	120	10	100	10	80
Forbs	<i>Forbs spp.</i>	5	60	5	50	5	40
Vine mesquite	<i>Panicum obtusum</i>	2	24	2	20	2	16
Total Annual Production		1200		1000		800	

Plant Community: (as it exists today)

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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
Rocky Mountain juniper	<i>Juniperus monosperma</i>	20	30	50	160			
Pinon pine	<i>Pinus edulis</i>	20	30	50	160			
Oneseed juniper	<i>Juniperus monosperma</i>	20	30	50	160			

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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:

Other Products:

Other Information:

Supporting Information

Associated Sites:

Site Name

Site ID

Site Narrative

Similar Sites:

Site Name

Site ID

Site Narrative

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>
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State Correlation:

This site has been correlated with the following sites: _____

Type Locality:

State: NM
County: San Miguel
Latitude: _____
Longitude: _____
Township: _____
Range: _____
Section: _____

Is the type locality sensitive? Yes No

General Legal Description: _____

Relationship to Other Established Classifications:

Other References: