

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

ECOLOGICAL SITE DESCRIPTION

ECOLOGICAL SITE CHARACTERISTICS

Site Type: Forest
Site ID: F039XA002NM
Site Name: Populus angustifolia – Alnus oblongifolia Narrowleaf cottonwood Arizona
Alder Zuni Mountains
Major Land Resource Area and Common Resource Area MLRA 39 CRA – NM1
Precipitation or Climate Zone: 17-25” New Mexico Mountains 1-Zuni
Phase: _____

ORIGINAL SITE DESCRIPTION APPROVAL:

Site Date: June 03, 2002
Site Author: Steve Lacy
Site Approval: _____
Approval Date: _____

REVISIONS:

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

PHYSIOGRAPHIC FEATURES

Narrative:

The riparian woodland is found in a rock controlled canyon above 6,500 feet in the Zuni Mountains..

LAND FORM:

1. canyon
2. _____
3. _____

ASPECT:

1. _____
2. _____

3.

	Minimum	Maximum
Elevation (feet)	6,500	7,200
Slope (percent)		
Water Table Depth (inches)		
	Minimum	Maximum
Flooding: Frequency		
Duration		
	Minimum	Maximum
Ponding: Depth (inches)		
Frequency		
Duration		

Runoff Class:

CLIMATIC FEATURES

Narrative:
Cold wet winters predominate. Winter precipitation is significant. Summers are moderate with monsoonal moisture coming during July – September.

	Minimum	Maximum
Frost-free period (days):	80	130
Freeze-free period (days):		
Mean annual precipitation (inches):		

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

	Avg. Precip. In.	Avg. Snowfall Total	Temp. Min.	Temp. Max.
January	1.74	10.9	9.0	39.9
February	1.42	9.6	12.0	42.4
March	1.83	11.3	18.0	47.6
April	1.10	3.4	24.3	56.3
May	0.80	0.4	31.3	66.1
June	0.68	-	39.1	77.6
July	2.45	-	46.3	80.7
August	2.78	-	45.4	77.8
September	1.61	-	38.0	72.8
October	1.53	1.8	27.7	63.2
November	1.50	5.8	17.3	50.0
December	1.43	11.2	10.1	41.6

Climate Stations:

Station ID	Location	Lat	Long	From:	Period	To:
McGaffey		3523	10833	1949		1956
		3520	10827	1956		1989
		3520	10827	1989		1999

INFLUENCING WATER FEATURES

Narrative:

Wetland description:

System	Subsystem	Class

If Riverine Wetland System enter Rosgen Stream Type:

A-2

REPRESENTATIVE SOIL FEATURES

Narrative:

Parent Material Kind: slope and fan alluvium

Parent Material Origin: Sandstone and shale

Surface Texture:

1.

2.

3.

Surface Texture Modifier:

1.

2.

3.

Subsurface Texture Group: _____

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

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

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

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

Minimum

Maximum

Drainage Class: _____

Permeability Class: _____

Depth (inches): _____

Electrical Conductivity (mmhos/cm): _____

Sodium Absorption Ratio: _____

Soil Reaction (1:1 Water): _____

Soil Reaction (0.1M CaCl₂): _____

Available Water Capacity (inches): _____

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.

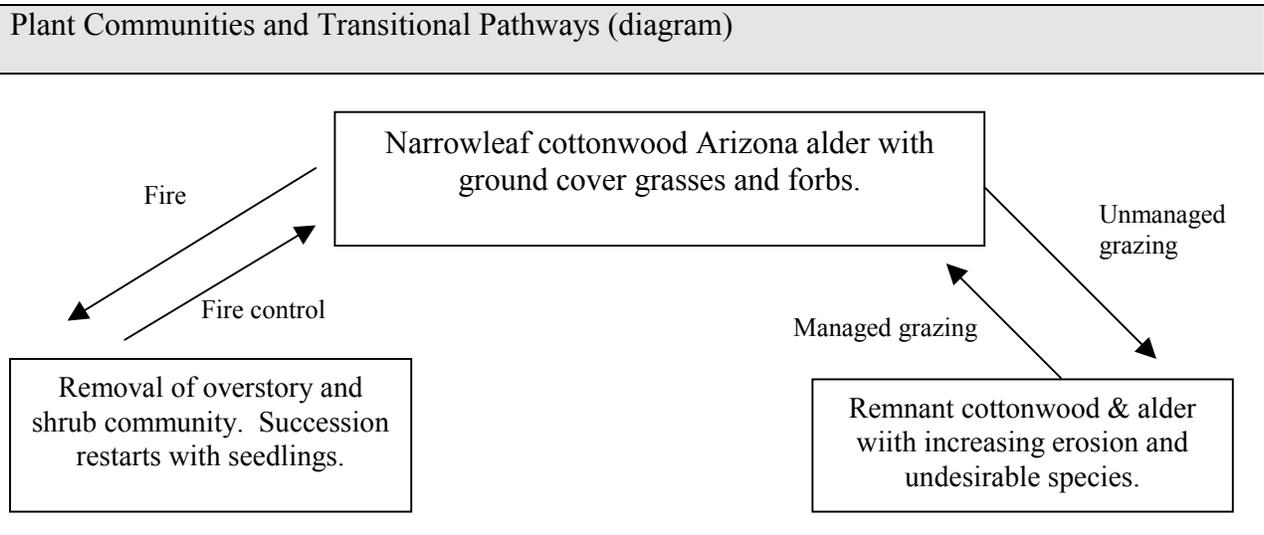
MAP UNIT NAME

	<u>Map unit</u>	
<u>Soil survey</u>	<u>symbol</u>	<u>Soil components</u>

PLANT COMMUNITIES

Ecological Dynamics of the Site:

This woodland is found along a stream in the Zuni mountains. The vegetative community is dependant on adequate moisture and avoiding major disturbances by grazing ungulates.



Interpretive Plant Community: Climax

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)
Narrowleaf cottonwood	<i>Populus angustifolia</i>	
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
Arizona alder	<i>Alnus oblongifolia</i>						
Total Annual Production							

Typical Climax Community:

Narrow stand of mixed aged groups of narrowleaf cottonwood and Arizona alder..

Plant Community: (as it exists today)

Narrow stand of mixed aged groups of narrowleaf cottonwood and Arizona alder. There are a very small number of herbaceous exotics present.

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									

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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
Arizona alder	<i>Alnus oblongifolia</i>						

Plant Community: (as it exists today)

Handbook of Wetland Vegetation Communities of New Mexico Volume II.

Rio Pagaute pp.122-125

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

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Map Unit Name

Soil Survey

Map Unit Symbol

Soil Components

ECOLOGICAL SITE INTERPRETATIONS

Animal Community:
Elk, deer, blackbear, mountain lion, bobcat, ground squirrels, birds, golden eagle.

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:
 This narrow canyon has a limited floodplain and high potential for flash floods.

Recreational Uses:

1. Birdwatching
2. Hiking
3. Camping

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:	<u>New Mexico</u>
County:	<u>Cibola</u>
Latitude:	<u>UTM N 3893440</u>
Longitude:	<u>E 278350</u>
Township:	<u>11 N</u>
Range:	<u>05W</u>
Section:	<u>30</u>

Is the type locality sensitive? Yes No

General Legal Description: _____

Relationship to Other Established Classifications:

Other References: