

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

This draft ecological site description is approved for field use and testing for a one year period beginning MM, YYYY.
Additional information and comments on this site should be sent to the Utah State Range Management Specialist.

STATE: Utah

SITE TYPE: Rangeland

ECOLOGICAL SITE NAME: Upland Very Steep Loam (Pinyon-Utah juniper)

SITE NUMBER: 034XY338UT

MLRA: 034

Original Site Description: Author: JLB DJS

Date: 05/25/1981

Revised Site Description: Author: JLB DJS

Date: 01/12/1994

Approved by: Title: State Range Cons. Signed: Pat Shaver

Date: 06/25/1994

Ecological Site Definition - A distinctive kind of land, with specific physical characteristics, which differs from other kinds of land in its ability to produce a distinctive kind and amount of vegetation, and in its response to management.

A. PHYSICAL CHARACTERISTICS

(description narrative of this particular site)

1. SOILS

Depth: 20-40 inches

Surface Textures:

Surface Fragments(<=3" % cover, >3" % cover):

Subsurface Textures:

Subsurface Fragments(<=3" % vol, >3" % vol):

Geologic Parent Materials: Colluvium from Sedimentary

Moisture Regime:

Temperature Regime:

Runoff: Rapid

Permeability(min-max):

Drainage Class(min-max): Well Drained

Water Erosion Hazard:

Wind Erosion Hazard:

Electrical Conductivity (EC in mmhos/cm):

Sodium Adsorption Ration (SAR):

Soil Reaction (1:1 water):

Soil Reaction (0.1 M CaCl₂):

pH Range:

Available Water Capacity (inches):

Major Soils Associated With This Site:

Soil Survey Area: 624

Dast Family

Minnimaud L Severely Eroded

Patent L Eroded

Additional information may be found in Section II of the Field Office Technical Guide.

2. PHYSIOGRAPHIC FEATURES

Site Type: Rangeland

Ecological Site Name: Upland Very Steep Loam (Pinyon-Utah juniper)

Site Number: 034XY338UT

1. Potential Plant Community Description and Ecological Factors

The dominant aspect of the plant community is pinyon and Utah juniper. The understory composition by air-dry weight is approximately 35 percent perennial grasses, 10 percent forbs and 55 percent shrubs.

2. Plant Community Composition by Weight and Percentage

Grasses and Grasslike, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Salina wildrye	LESAS		65	97.5	10	15
Needleandthread	HECO26		65	97.5	10	15
Indian ricegrass	ACHY		32.5	65	5	10
Muttongrass	POFE	1	6.5	13	1	2
Bottlebrush squirreltail	ELEL5	1	6.5	13	1	2
Geyer sedge	CAGE2	1	6.5	13	1	2
Western wheatgrass	PASM	1	6.5	13	1	2
Other perennial grasses	PPGG	1	13	32.5	2	5
Other annual grasses	AAGG	1	13	32.5	2	5

Forbs, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Gumweed tansyaster	MAGR2	2	6.5	13	1	2
Plateau yellow catseye	CRFL5	2	6.5	13	1	2
Longleaf phlox	PHLO2	2	6.5	13	1	2
Grassy rockgoldenrod	PEPU7	2	6.5	13	1	2
Shaggy fleabane	ERPU2	2	6.5	13	1	2
Cushion wild buckwheat	EROV	2	6.5	13	1	2
Woolly milkvetch	ASMO7	2	6.5	13	1	2
Sprawling skyrocket	IPPO2	2	6.5	13	1	2
Thickleaf beardtongue	PEPA6	2	6.5	13	1	2
Juniper desert parsley	LOJU	2	6.5	13	1	2
Other perennial forbs	PPFF	2	32.5	65	5	10
Other annual forbs	AAFF	2	32.5	65	5	10

Shrubs/Vines, %

Common Name	National	Group	Pounds per Acre	% by Weight of
-------------	----------	-------	-----------------	----------------

Site Type: Rangeland

Ecological Site Name: Upland Very Steep Loam (Pinyon-Utah juniper)

Site Number: 034XY338UT

	Symbol				Total Composition	
			Low	High	Low	High
Birchleaf mountainmahogany	CEMO2		65	97.5	10	15
Mormontea	EPVI		19.5	32.5	3	5
Wyoming big sagebrush	ARTRW		19.5	32.5	3	5
Slender wild buckwheat	ERMI4		19.5	32.5	3	5
Winterfat	KRLA2	3	6.5	19.5	1	3
Rubber rabbitbrush	ERNA10	3	6.5	19.5	1	3
Low rabbitbrush	CHBI8	3	6.5	19.5	1	3
Granite pricklygilia	LEPU	3	6.5	19.5	1	3
Broom snakeweed	GUSA2	3	6.5	19.5	1	3
Central pricklypear	OPPO	3	6.5	19.5	1	3
Littleleaf brickellbush	BRMI	3	6.5	19.5	1	3
Mountain snowberry	SYOR2	3	6.5	19.5	1	3
Utah serviceberry	AMUT	3	6.5	19.5	1	3
Gambel oak	QUGA	3	6.5	19.5	1	3
Mexican cliffrose	PUME	3	6.5	19.9	1	3
Thright mock goldenweed	STARA	3	6.5	19.5	1	3
Other shrubs	SSSS	3	97.5	130	15	20

Trees, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Pinyon pine	PIED		78	97.5	12	15
Utah juniper	JUOS		19.5	32.5	3	5

3. Plant Community Annual Production

At the highest potential similarity index, this site will produce approximately the following amount of air-dry herbage, expressed as pounds/acre:

	Low	High
Favorable Year	700	800
Average Year	550	650
Unfavorable Year	400	500

4. Ground Cover and Structure

a. Vegetative

Site Type: Rangeland
 Ecological Site Name: Upland Very Steep Loam (Pinyon-Utah juniper)
 Site Number: 034XY338UT

Vegetation Type	Percent Canopy Cover	Height Range (ft.)	Percent Basal Area Cover
Grasses & Grass-like (perennial)	20	2	10
Forbs (perennial)	5	1	2
Shrubs	30	4	15
Trees	20	12	10
Cryptogams			

b. Other

Litter	
Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

This site is not used by livestock because of steep slopes. When the potential natural plant community is burned, pinyon and Utah juniper decrease while birchleaf mountainmahogany increases. Toward the upper limits of the site Gambel oak and serviceberry may increase.

Plant Communities & Transitional Pathways

(Show a steady state diagram with influences to move from one steady state to another)

6. Plant Growth Curves

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Percent Growth	0	0	0	10	30	45	5	5	5	0	0	0
Name	PNC											
ID Number	UT3381											
Description	Excellent Condition											

7. Aspect Differences Near MLRA Boundaries

(Give related range sites in MLRA's above and below)

8. Associated Sites Within MLRA

034XY342UT
 Upland Very Steep Shallow Loam (Pinyon-Utah juniper)

034XY259UT
 Semidesert Very Steep Shallow Loam (Utah juniper-Pinyon)

9. Correlated Sites in Other States

(Give site name and number)

D. MAJOR USES OF THIS SITE

1. Livestock

a. Site Factors Influencing Management

This site is not grazed by livestock because of steep slopes.

b. Guide to Forage Quality(Plant preference by season)

Species	Oct-Nov	Dec-Feb	Mar-May	Jun-Sep

VG = Very Good G = Good F = Fair P = Poor

2. Wildlife

a. Site Factors Influencing Management

This site provides food and cover for wildlife.

b. List of Potential Species Present

Wildlife using this site include jackrabbit, woodrat, pinyon jay, coyote, mule deer and elk.

This is a short list of the more common species found. Many other species are present as well and migratory birds are present at times.

c. Guide to Forage Preference of Managed Wildlife Species

Wildlife Species →				
Plant Species ↓	Use	Season	Use	Season

Use - A = preferred or desirable
 B = some use, but less important
 C = little use or used occasionally

Season - F = Fall (Oct-Nov)
 W = Winter (Dec-Feb)
 Sp. = Spring (Mar-May)
 Su. = Summer (Jun-Sep)

3. Recreational Uses

This site has aesthetic appeal but recreation potential is restricted because of steep slopes.

4. Wood Products

Site Type: Rangeland
 Ecological Site Name: Upland Very Steep Loam (Pinyon-Utah juniper)
 Site Number: 034XY338UT

This site produces firewood and posts. The site index is 44.

5. Other Uses

E. THREATENED AND ENDANGERED SPECIES

1. Plants
2. Animals

F. MODAL LOCATION AND DOCUMENTATION

State: Utah County:
 Latitude: Longitude:

Modal Soil: Dast Family — coarse-loamy, mixed, frigid Typic Ustochrepts

Type Location:

General Legal Description:

Field Office Site Location

Roosevelt
 Price

Data Collected and References

Sampling Source	Number of Records	Range Similarity Index			
		> 76%	51-75%	26-50%	0-25%
NRCS - ECS - 417					
UTAH - RANGE - 2					
Permanent Transect Location					

Other References