

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: Semiwet Streambank (Birch-Alder)

SITE NUMBER: 047CY003UT

MLRA: E47C

Original Site Description: Author: JLB RHF

Date: 06/16/1992

Revised Site Description: Author:

Date:

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

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:

Surface Textures:

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

Subsurface Textures:

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

Geologic Parent Materials: Alluvium from Sedimentary and Quartzite

Moisture Regime:

Temperature Regime: Frigid

Runoff:

Permeability(min-max):

Drainage Class(min-max): Somewhat Poorly 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: 013, 047

Cumulic Haploborolls SL 1-3%

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

2. PHYSIOGRAPHIC FEATURES

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1. Potential Plant Community Description and Ecological Factors

The general view of this site is birch and alder with an occasional ponderosa pine or narrowleaf cottonwood protruding through the canopy. There is a grass forb understory. The composition by air-dry weight is approximately 40 percent grasses, 30 percent forbs and 30 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
Baltic rush	JUBAM		120	240	5	10
Clustered field sedge	CAPR5		120	240	5	10
Spreading bent	AGST2		72	120	3	5
Mat muhly	MURI		72	120	3	5
Mountain brome	BRCA5		72	120	3	5
Reed canarygrass	PHAR3	1	24	72	1	3
Field horsetail	EQAR	1	24	72	1	3
Other perennial grasses	PPGG	1	72	120	3	5
Other annual grasses	AAGG	1	72	120	3	5

Forbs, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Missouri goldenrod	SOMI2		240	360	10	15
Feathery false solomonsseal	MARAR		72	120	3	5
Northern bedstraw	GABO2		72	120	3	5
Common yarrow	ACMI2	2	24	72	1	3
Louisiana wormwood	ARLU	2	24	72	1	3
Fendlers meadowrue	THFE	2	24	72	1	3
Spreading dogbane	APAN2	2	24	72	1	3
Thickleaf peavine	LALA3	2	24	72	1	3
Sticky purple cranesbill	GEVI2	2	24	72	1	3
Rocky mountain iris	IRMI	2	24	72	1	3
American licorice	GLLE3	2	24	72	1	3
Cow parsnip	HELA4	2	24	72	1	3
Common dandelion	TAOF	2	24	72	1	3
Meadow thistle	CISC2	2	24	72	1	3
Prairie goldenbanner	THRH	2	24	72	1	3
Other perennial forbs	PPFF	2	72	120	3	5
Other annual forbs	AAFF	2	72	120	3	5

Shrubs/Vines, %

Common Name	National	Group	Pounds per Acre	% by Weight of
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	Symbol				Total Composition	
			Low	High	Low	High
Water birch	BEOC2		240	360	10	15
Yellow willow	SALU2		120	240	5	10
Speckled alder	ALIN2		72	120	3	5
Black hawthorn	CRDO2	3	24	72	1	3
Fourline honeysuckle	LOIN5	3	24	72	1	3
Narrowleaf cottonwood	POAN3	3	24	72	1	3
Redosier	COSE16	3	24	72	1	3
Woods rose	ROWO	3	24	72	1	3
Gooseberry currant	RIMO2	3	24	72	1	3
Saskatoon serviceberry	AMAL2	3	24	72	1	3
Silver buffaloberry	SHAR	3	24	72	1	3
Ill scented sumac	RHTRT	3	24	72	1	3
Western poison ivy	TORY	3	24	72	1	3
Other shrubs	SSSS	3	72	120	3	5

Trees, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High

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	2500	2800
Average Year	2200	2400
Unfavorable Year	1800	2100

4. Ground Cover and Structure

a. Vegetative

Vegetation Type	Percent Canopy Cover	Height Range (ft)	Percent Basal Area Cover
Grasses & Grass-like (perennial)	15	1	5
Forbs (perennial)	10	2	5
Shrubs	50	20	20
Trees	5	50	5
Cryptogams			

b. Other

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Litter	
Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

As this site deteriorates due to grazing pressure the sedges, rushes, spreading bent, and muhlenbergia decrease while Kentucky bluegrass, horsetail, goldenbanner, hawthorn, and silver buffaloberry may result in the less desirable species increasing.

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	5	15	40	20	10	5	5	0	0	0
Name	PNC											
ID Number	UT0031											
Description	Excellent Condition											

7. Aspect Differences Near MLRA Boundaries

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

8. Associated Sites Within MLRA

047CY007UT
 Semidry Stream Terrace (Ponderosa pine)

034XY021UT
 Wet Fresh Streambank (Willow)

047CY005UT
 Semiwet Streambank (Lodgepole pine)

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 provides forage for cattle and sheep in late spring, summer, and fall. Palatable shrubs provide a high protein diet.

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

The site provides food, cover, and water for wildlife.

b. List of Potential Species Present

Wildlife using this site include rabbit, coyote, mule deer, elk, moose, and song birds.

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 offers color and aesthetic appeal in all seasons. Recreation activities include hiking, picnicking, and hunting.

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4. Wood Products

None

5. Other Uses

E. THREATENED AND ENDANGERED SPECIES

1. Plants
2. Animals

F. MODAL LOCATION AND DOCUMENTATION

State: Utah County:
 Latitude: Longitude:

Modal Soil: Cumulic Haploborolls SL 1-3% — sandy-skeletal, siliceous Cumulic Haploborolls

Type Location: SW ¼, NW ¼; Section 24, Township 1N, Range 1W USBM

General Legal Description:

Field Office Site Location

Roosevelt

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	1				
Permanent Transect Location					

Other References