

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 (Lodgepole pine)

SITE NUMBER: 047CY005UT

MLRA: E47C

Original Site Description: Author:

Date:

Revised Site Description: Author: GWL JLB

Date: 06/16/1992

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: >60 inches

Surface Textures:

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

Subsurface Textures:

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

Geologic Parent Materials: Alluvium from Sedimentary and Quartzite Materials

Moisture Regime:

Temperature Regime: Frigid

Runoff:

Permeability(min-max):

Drainage Class(min-max): Moderately 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 CaCl<sub>2</sub>):

pH Range:

Available Water Capacity (inches):

Major Soils Associated With This Site:

Soil Survey Area: 013

**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 lodgepole pine with shrub understory and sparse grass. The composition by air-dry weight of the understory is approximately 35 percent grasses and grasslike plants, 20 percent forbs, 45 percent shrubs, and 15 percent trees.

## **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		105	175	15	25
Clustered Field sedge	CAPR5		7	35	1	5
Slender wheatgrass	ELTR7	1	7	21	1	3
Mat muhly	MURI	1	7	21	1	3
Reed canarygrass	PHAR3	1	7	21	1	3
Field horsetail	EQAR	1	7	21	1	3
Great basin wildrye	LECI4	1	7	21	1	3
Other perennial grasses	PPGG	1	21	35	3	5
Other annual grasses	AAGG	1	21	35	3	5

Forbs, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Missouri goldenrod	SOMI2		35	70	5	10
Feathery false solomonsseal	MARAR	2	7	21	1	3
Common yarrow	ACMI2	2	7	21	1	3
Northern bedstraw	GABO2	2	7	21	1	3
Louisiana wormwood	ARLU	2	7	21	1	3
Woodland strawberry	FRVE	2	7	21	1	3
Sticky purple cranesbill	GEVI2	2	7	21	1	3
Smalleaf pussytoes	ANMI3	2	7	21	1	3
Cow parsnip	HELA4	2	7	21	1	3
Bull thistle	CIVU	2	7	21	1	3
Mountain bluebells	MECI3	2	7	21	1	3
Western stickweed	HAFLA2	2	7	21	1	3
Curly dock	RUCR	2	7	21	1	3
Black mustard	BRNI	2	7	21	1	3
Lobeleaf groundsel	SEMU3	2	7	21	1	3
Other perennial forbs	PPFF	2	35	70	5	10
Other annual forbs	AAFF	2	35	70	5	10

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		70	105	10	15
Speckled alder	ALIN2		35	70	5	10
Yellow willow	SALU2		21	35	3	5
Woods rose	ROWO	3	7	21	1	3
Saskatoon serviceberry	AMAL2	3	7	21	1	3
Sticky currant	RIVI3	3	7	21	1	3
Silver buffaloberry	SHAR	3	7	21	1	3
Whitestem gooseberry	RIIN2	3	7	21	1	3
Twinberry honeysuckle	LOIN5	3	7	21	1	3
Ill scented sumac	RHTRT	3	7	21	1	3
Other shrubs	SSSS	3	35	70	5	10

Trees, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Lodgepole pine	PICO		70	105	10	15
Ponderosa pine	PIPO		21	35	3	5
Quaking aspen	POTR5		21	35	3	5
Narrowleaf cottonwood	POAN3		21	35	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	600	700
Unfavorable Year	400	500

### **4. Ground Cover and Structure**

a. Vegetative

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Vegetation Type	Percent Canopy Cover	Height Range (ft)	Percent Basal Area Cover
Grasses & Grass-like (perennial)	10	1	5
Forbs (perennial)	5	1	5
Shrubs	25	15	10
Trees	50	65	10
Cryptogams			

b. Other

Litter	
Coarse Fragments	
Bare Ground	

### **5. Ecological Dynamics of the Site**

As this site deteriorates due to grazing pressure perennial grasses decrease, rushes show little change, and forbs increase. Wildlife use the shrubs extensively in late fall and winter and may kill plants with over use. This site periodically floods due to high spring runoff.

### **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)

047CY021UT  
 Wet Fresh Streambank (Willow)

047CY003UT  
 Semiwet Streambank (Birch-Alder)

### **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 little grazing for cattle in the summer and fall.

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 and cover for wildlife.

b. List of Potential Species Present

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

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 aesthetic appeal in all seasons. Recreation activities include hunting, picnicking and fishing.

**4. Wood Products**

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Lodgepole pine 140 trees per acre with diameter at breast height 11-15 inches, height 64 feet, age 56-58 years.  
 Other trees include ponderosa pine, quaking aspen, narrowleaf cottonwood.

## **5. Other Uses**

### **E. THREATENED AND ENDANGERED SPECIES**

1. Plants
2. Animals

### **F. MODAL LOCATION AND DOCUMENTATION**

State: Utah                      County:  
 Latitude:                        Longitude:

Modal Soil: No Mapping is Completed

Type Location: NW ¼, NW ¼; Section 10, 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**