

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 Fresh Meadow

SITE NUMBER: 047CY004UT

MLRA: E47C

Original Site Description: Author:

Date:

Revised Site Description: Author: GWL JLB

Date: 12/10/1992

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

B.

1. SOILS

Depth:

Surface Textures:

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

Subsurface Textures:

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

Geologic Parent Materials: Alluvium and Colluvium from Sedimentary and

Metamorphic Parent Materials

Moisture Regime:

Temperature Regime:

Runoff:

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: 047

Moral L Wet 1-8%

Straw L Moist 2-6%

Ute Family SiCL 0-2%

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

2. PHYSIOGRAPHIC FEATURES

Site Type: Rangeland
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1. Potential Plant Community Description and Ecological Factors

The general view of this site is bluegrass and western wheatgrass. The composition by air-dry weight is approximately 75 percent grasses and grasslike plants, 15 percent forbs and 10 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
Nevada bluegrass	PONE3		200	300	10	15
Western wheatgrass	PASM		200	300	10	15
Kentucky bluegrass	POPR		100	200	5	10
Prairie junegrass	KOMA		100	200	5	10
Smallwing sedge	CAMI7		100	200	5	10
Baltic rush	JUBAM		60	100	3	5
Meadow barley	HOBR2		60	100	3	5
Letterman needlegrass	ACLE9	1	20	60	1	3
Columbia needlegrass	ACNE9	1	20	60	1	3
Bluebunch wheatgrass	PSSP6	1	20	60	1	3
Slender wheatgrass	ELTR7	1	20	60	1	3
Alpine timothy	PHAL2	1	20	60	1	3
Alkali wildrye	LESI5	1	20	60	1	3
Other perennial grasses	PPGG	1	60	100	3	5
Other annual grasses	AAGG	1	60	100	3	5

Forbs, %

Common Name	National	Group	Pounds per Acre	% by Weight of
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	Symbol				Total Composition	
			Low	High	Low	High
Rocky mountain iris	IRMI	2	20	60	1	3
Showy cinquefoil	POGR9	2	20	60	1	3
Lambstongue groundsel	SEIN2	2	20	60	1	3
Silverleaf milkvetch	ASAR4	2	20	60	1	3
Louisiana wormwood	ARLU	2	20	60	1	3
Western mountain aster	ASOC	2	20	60	1	3
Common dandelion	TAOF	2	20	60	1	3
Lobeleaf groundsel	SEMU3	2	20	60	1	3
Pale agoseris	AGGL	2	20	60	1	3
Nodding onion	ALCE2	2	20	60	1	3
Common yarrow	ACMI2	2	20	60	1	3
Littleleaf pussytoes	ANMI3	2	20	60	1	3
Spurred lupine	LUCAC3	2	20	60	1	3
Trailing fleabane	ERFL	2	20	60	1	3
Other perennial forbs	PPFF	2	200	300	10	15
Other annual forbs	AAFF	2	200	300	10	15

Shrubs/Vines, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Silver sagebrush	ARCA13		100	200	5	10
Golden hardhack	PEFL15	3	20	60	1	3
Woods rose	ROWO	3	20	60	1	3
Other shrubs	SSSS	3	60	100	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	2400	2500
Average Year	1900	2000
Unfavorable Year	900	1000

4. Ground Cover and Structure

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 a. Vegetative

Vegetation Type	Percent Canopy Cover	Height Range (ft)	Percent Basal Area Cover
Grasses & Grass-like (perennial)	65	2	70
Forbs (perennial)	5	1	5
Shrubs	5	3	5
Trees			
Cryptogams			

b. Other

Litter	
Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

As this site deteriorates due to grazing pressure, bluegrass and western wheatgrass decrease while yarrow and dandelion increase. Kentucky bluegrass will invade and dominate this site.

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	5	20	50	5	10	5	5	0	0
Name	PNC											
ID Number	UT0041											
Description	Excellent Condition											

7. Aspect Differences Near MLRA Boundaries

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

8. Associated Sites Within MLRA

047CY008UT
 Wet Fresh Meadow (Sedge)

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 grazing for cattle, sheep, and horses during spring, 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

Food, Cover, and Water

b. List of Potential Species Present

Wildlife using this site include rabbit, coyote, badger, mule deer, blackbird, and oriole.

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

Hunting and Hiking

4. Wood Products

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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: Morval L Wet 1-8% — fine-loamy, mixed Aridic Argiborolls

Type Location: SW ¼, SE ¼; Section 5, Township 1S, Range 23E

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					
Permanent Transect Location					

Other References