

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 (Redtop)

SITE NUMBER: 047AY004UT

MLRA: E47

Original Site Description: Author:

Date:

Revised Site Description: Author: DJS TW

Date: 09/09/1992

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: 40-60 inches

Surface Textures: Fine Sand to Clay, Medium to Moderately Fine

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

Subsurface Textures:

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

Geologic Parent Materials: Wide Range of Parent Rock

Moisture Regime:

Temperature Regime:

Runoff:

Permeability(min-max):

Drainage Class(min-max): Moderately Well to Poor

Water Erosion Hazard: None

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: Neutral-Moderately Alkaline

Available Water Capacity (inches):

Major Soils Associated With This Site:

Soil Survey Area: 613

Kovich L, 0-2%

Cudahy SiL, 0-3%

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 vegetation of this site is primarily influenced by a water table deeper than 20 inches, but within the root zone. It is primarily a grass site with approximately 80 percent grass and grass-like plants, 15 percent forbs and 5 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
Northern meadow sedge	CAPR7		375	500	15	20
Tufted hairgrass	DECE		125	250	5	10
Timothy	PHPR3		125	250	5	10
Slender wheatgrass	ELTR7		125	250	5	10
Mountain brome	BRCA5		125	250	5	10
Muttongrass	POFE		125	250	5	10
Great basin wildrye	LECI4		75	125	3	5
Baltic rush	JUBAM		75	125	3	5
Redtop	AGST2		75	125	3	5
Marsh meadow foxtail	ALGE2	1	25	75	1	3
Western wheatgrass	PASM	1	25	75	1	3
Sheep fescue	FEOV	1	25	75	1	3
Columbia needlegrass	ACNE9	1	25	75	1	3
Nodding brome	BRAN	1	25	75	1	3
Other perennial grasses	PPGG	1	125	250	5	10
Other annual grasses	AAGG	1	125	250	5	10

Forbs, %

Common Name	National	Group	Pounds per Acre	% by Weight of
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	Symbol				Total Composition	
			Low	High	Low	High
Sticky purple cranesbill	GEVI2	2	25	75	1	3
Field horsetail	EQAR	2	25	75	1	3
Thickleaf peavine	LALA3	2	25	75	1	3
Tobacco root	VAED	2	25	75	1	3
Thickleaf groundsel	SECR	2	25	75	1	3
Rocky mountain iris	IRMI	2	25	75	1	3
Hookspur violet	VIAD	2	25	75	1	3
Feathery false solomonsseal	MARAR	2	25	75	1	3
Bull thistle	CIVU	2	25	75	1	3
Great mullein	VETH	2	25	75	1	3
Streambank wild hollyhock	ILRI	2	25	75	1	3
Duncecap larkspur	DEOC	2	25	75	1	3
Common yarrow	ACMI2	2	25	75	1	3
Northern bedstraw	GABO2	2	25	75	1	3
Uinta perennial forbs	TRDA2	2	25	75	1	3
Other perennial forbs	PPFF	2	250	375	10	15
Other annual forbs	AAFF	2	250	375	10	15

Shrubs/Vines, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Golden hardhack	PEFL15	3	75	75	1	3
Silver sagebrush	ARCA13	3	75	75	1	3
Woods rose	ROWO	3	75	75	1	3
Other shrubs	SSSS	3	75	125	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	4100	4200
Average Year	2400	2500
Unfavorable Year	1650	1750

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)	70	2	60
Forbs (perennial)	10	1	5
Shrubs	5	2	1
Trees			
Cryptogams			

b. Other

Litter	
Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

Plant species not a part of the climax plant community that are most likely to invade the site if plant cover deteriorates are cheatgrass, foxtail barley, annual forbs, curlycup gumweed, dandelion, houndstongue, povertyweed, big sagebrush, rubber rabbitbrush, and snakeweed. If excessive grazing occurs, yellowbrush, rushes and sedges will increase and may become dominant plants.

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	UT0041											
Description	Excellent Condition											

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Percent Growth	0	0	0	10	40	35	5	5	5	0	0	0
Name	Good Condition No. 1											
ID Number	UT0042											
Description	Sedge, Grass											

7. Aspect Differences Near MLRA Boundaries

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

8. Associated Sites Within MLRA

047AY308UT

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 Upland Loam (Basin big sagebrush)

047AY430UT
 Mountain Loam (Mountain big sagebrush)

047AY006UT
 Semiwet Fresh Streambank (Narrowleaf cottonwood)

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 produces a large volume of forage and a variety of grasses and forbs. To control soil erosion and degradation of the plant community this site may be properly grazed early with the animals being removed early to allow key plants to go ungrazed during the last part of the growing season. A stubble height of 4 to 6 inches should be adhered to.

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 potential is fair to good for openland habitat, good for woodland habitat, and fair for wetland habitat and good for rangeland habitat.

b. List of Potential Species Present

It is good all around habitat for upland game including pheasants, cottontail rabbits as well as songbirds. It provides feed for elk and deer and brood rearing areas for sage grouse.

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

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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 good values for aesthetics and natural beauty. It has forbs and grasses, which have flowers in bloom throughout the summer and into the fall. It has little or no possibilities for screening and only slight value as camping and picnicking areas from a vegetation standpoint. Hunting for upland game birds, snowshoe rabbits, elk and mule deer is fair to good on the site. Fishing is opportune on stream through and adjacent to this site.

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: Kovich L, 0-2% – fine-loamy, mixed, frigid Cumulic Haplaquolls

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Type Location: SW ¼; NE ¼; SE ¼; Section 27 Township 3S, Range 4E

General Legal Description:

Field Office Site Location

Logan

Provo

Richfield

Cedar City

Murray

Price

Data Collected and References

Sampling Source	Number of Records	Range Similarity Index			
		> 76%	51-75%	26-50%	0-25%
NRCS - ECS - 417	5				
UTAH - RANGE - 2					
Permanent Transect Location					

Other References