

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: Wet Fresh Meadow (Sedge)

SITE NUMBER: 047CY008UT

MLRA: E47C

Original Site Description: Author:

Date:

Revised Site Description: Author: GWL, LLR

Date: 12/15/1992

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: Silt Loam

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

Subsurface Textures:

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

Geologic Parent Materials: Valley Fill Over Glacial Outwash from Uinta Mountain Group Sandstone and Quartzite

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): 0.14-0.15

Major Soils Associated With This Site:

Soil Survey Area: 647

Enochville Family SiL 0-2

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

1. Potential Plant Community Description and Ecological Factors

This site is dominated by sedges, grasses and rushes. The potential plant community is approximately 90 percent grasses and grasslike plants, 5 percent forbs, and 5 percent shrubs by air-dry weight.

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
Nebraska sedge	CANE2		1000	1250	20	25
Leafy tussock sedge	CAAQ		1000	1250	20	25
Tufted hairgrass	DECE		750	1000	15	20
Smallwing sedge	CAMI7		250	500	5	10
Baltic rush	JUBAM		250	500	5	10
Alpine timothy	PHAL2	1	250	500	5	10
Field meadow foxtail	ALPR3	1	150	250	3	5
Bog bluegrass	POLE2	1	150	250	3	5
Redtop	AGST2	1	150	250	3	5
Slender wheatgrass	ELTR7	1	150	250	3	5
Fewflower spikerush	ELQU2	1	150	250	3	5
Hardstem bulrush	SCACO2	1	150	250	3	5
Other perennial grasses	PPGG	1	750	1000	15	20
Other annual grasses	AAGG	1	750	1000	15	20

Forbs, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
White marsh marigold	CALE4	2	50	100	1	2
Elephanthead lousewort	PEGR2	2	50	100	1	2
Large mountain bittercress	CACO6	2	50	100	1	2
Field mint	MEAR4	2	50	100	1	2
Longstock clover	TRLO	2	50	100	1	2
Seaside arrowgrass	TRMA4	2	50	100	1	2
Meadow plantain	PLTW	2	50	100	1	2
Alpine leafyhead aster	ASFO	2	50	100	1	2
Graceful buttercup	RAIN	2	50	100	1	2
Alkalimarsh groundsel	SEHY2	2	50	100	1	2
Hookspur violet	VIAD	2	50	100	1	2
Other perennial forbs	PPFF	2	150	250	3	5
Other annual forbs	AAFF	2	150	250	3	5

Shrubs/Vines, %

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Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Golden hardhack	DAFL3	3	50	150	1	3
Geyer willow	SAGE2	3	50	150	1	3
Woods rose	ROWO	3	50	150	1	3
Other shrubs	SSSS	3	150	250	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	6400	6500
Average Year	4900	5000
Unfavorable Year	3400	3500

4. Ground Cover and Structure

a. Vegetative

Vegetation Type	Percent Canopy Cover	Height Range (ft)	Percent Basal Area Cover
Grasses & Grass-like (perennial)	90	2	80
Forbs (perennial)	5	1	1
Shrubs	1	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: annual weeds, curlycup gumweed, poverty weed, teasel, and rubber rabbitbrush. With heavy grazing use, baltic rush, sedges, and arrowgrass will increase and may become the dominant plant community.

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
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Percent Growth	0	0	5	15	40	20	10	5	5	0	0	0
Name	PNC											
ID Number	UT0081											
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	UT0082											
Description	sedge, grass											

7. Aspect Differences Near MLRA Boundaries

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

8. Associated Sites Within MLRA

047CY430UT
 Mountain Loam (Mountain big sagebrush)

047CY004UT
 Semiwet Fresh Meadow

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 is one of Utah's highest yielding range sites. The plants are predominantly grasses and grasslike plants with a few forbs and practically no shrubs. To control soil erosion and deterioration of the plant community, this site may be properly grazed early with 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

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The potential is poor to fair for openland habitat, good to fair for woodland habitat, good to fair for wetland habitat dependent on slope, and poor to fair for rangeland wildlife habitat.

b. List of Potential Species Present

It is good all around habitat for waterfowl and shorebirds, muskrats, and beaver wherever it is adjacent to streams and ponds. It is fair for upland game, birds, and songbirds. It provides some feed for moose, 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

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 presents a view of lush, high producing vegetation primarily grasses and grasslike plants. It presents a pleasing view, especially when livestock or big game are grazing it – one of a pleasant pastoral panorama. Fishing is opportune in adjacent lakes and streams.

4. Wood Products

None

5. Other Uses

E. THREATENED AND ENDANGERED SPECIES

1. Plants
2. Animals

F. MODAL LOCATION AND DOCUMENTATION

State: Utah
 Latitude:

County:
 Longitude:

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Modal Soil: Enochville Family SiL 0-2% — fine-silty, mixed Cumulic Cryoborolls

Type Location: SW ¼, SW ¼, SE ¼; Section 36, Township 3N, Range 13E

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	11				
UTAH - RANGE - 2					
Permanent Transect Location					

Other References