

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 (Willow-Sedge)

SITE NUMBER: 048AY008UT

MLRA: 048A

Original Site Description: Author: GLW, GSC

Date: 02/18/1992

Revised Site Description: Author:

Date:

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

Date: 05/27/1994

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: Moderately Coarse to Fine

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

Subsurface Textures:

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

Geologic Parent Materials: Wide Range of Parent Rock and Lacustrine
Sediments

Moisture Regime:

Temperature Regime:

Runoff:

Permeability(min-max):

Drainage Class(min-max): Imperfectly to Poorly

Water Erosion Hazard: Not Serious

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

Iceslew SiL, 1 to 3%

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

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1. Potential Plant Community Description and Ecological Factors

The general view of this site is sedges and willows. The natural plant community is composed of approximately 75 percent perennial grasses and grasslike plants, 10 percent forbs, and 15 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
Nebraska sedge	CANE2		150	300	5	10
Leafy tussock sedge	CAAQ		150	300	5	10
Smallwing sedge	CAMI7		150	300	5	10
Tufted hairgrass	DECE		150	300	5	10
Baltic rush	JUBAM		150	300	5	10
Redtop	AGST2		90	150	3	5
Alpine timothy	PHAL2	1	30	90	1	3
Great basin wildrye	LECI4	1	30	90	1	3
Slender wheatgrass	ELTR7	1	30	90	1	3
Pale spikerush	ELPA3	1	30	90	1	3
Western wheatgrass	PASM	1	30	90	1	3
Meadow barley	HOBR2	1	30	90	1	3
Weeping alkaligrass	PUDI	1	30	90	1	3
Bottlebrush squirreltail	ELEL5	1	30	90	1	3
Other perennial grasses	PPGG	1	300	450	10	15
Other annual grasses	AAGG	1	300	450	10	15

Forbs, %

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Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
White clover	TRRE3	2	30	90	1	3
Rocky mountain groundsel	SEST3	2	30	90	1	3
Common silverweed	ARAN7	2	30	90	1	3
Rocky mountain iris	IRMI	2	30	90	1	3
Utah buttercup	RAJO	2	30	90	1	3
Seaside arrowgrass	TRMA4	2	30	90	1	3
Common dandelion	TAOF	2	30	90	1	3
Broadleaf plantain	PLMA2	2	30	90	1	3
Field horsetail	EQAR	2	30	90	1	3
Nuttall sunflower	HENU	2	30	90	1	3
Golden dock	RUMA4	2	30	90	1	3
Common yarrow	ACMI2	2	30	90	1	3
Yellow evening primrose	OEFL	2	30	90	1	3
Other perennial forbs	PPFF	2	300	450	10	15
Other annual forbs	AAFF	2	300	450	10	15

Shrubs/Vines, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Booth willow	SAB02		90	150	3	5
Drummond willow	SADR		30	90	1	3
Coyote willow	SAEX		30	90	1	3
Woods rose	ROWO	3	30	90	1	3
Golden hardhack	PEFL15	3	30	90	1	3
Whitestem gooseberry	RIIN2	3	30	90	1	3
Other shrubs	SSSS	3	90	150	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

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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	3400	3500
Average Year	2900	3000
Unfavorable Year	2400	2500

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	5
Shrubs	5	8	5
Trees			
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 while sedges, rushes, dandelion, groundsel, iris and silver cinquefoil increase. Fire is not an important factor in this site. Canada thistle, elk thistle, and musk thistle are most likely to invade 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	15	40	30	5	5	0	0	0
Name	PNC											
ID Number	UT0081											
Description	Excellent Condition											

7. Aspect Differences Near MLRA Boundaries

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

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8. Associated Sites Within MLRA

048AY006UT
 Semiwet Fresh Streambank

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 degradation 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

The potential is poor to fair for openland habitat, good to fair for woodland habitat, and 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

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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 represents a view of lush, high producing vegetation primarily grasses and grass-like 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 lake 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: Iceslew SiL, 1 to 3 % — fine-loamy, mixed, (calc.), frigid Aeris Fluvaquents

Type Location: NE ¼; NW ¼; SW ¼; Section 31, Township 15S, Range 21E

General Legal Description:

Field Office Site Location

Price
 Roosevelt

Legal Description:

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