

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

SITE NUMBER: 028AY020UT

MLRA: 028A

Original Site Description: Author: DJS

Date: 03/15/1981

Revised Site Description: Author: DJS

Date: 08/04/1993

Approved by: Title: State Range Cons.

Signed: Pat Shaver

Date: 08/30/1993

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:

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

Subsurface Textures: Loamy and Clayey

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

Geologic Parent Materials: Mixed Alluvium & Lacustrine Sediments from Mixed

Moisture Regime:

Temperature Regime:

Runoff:

Permeability(min-max):

Drainage Class(min-max): Poorly 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: 601

Logan Variant

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

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C. PLANT COMMUNITY CHARACTERISTICS

1. Potential Plant Community Description and Ecological Factors

The general view of this site is Nebraska sedge and arctic rush. The composition by air-dry weight is approximately 90 percent perennial grasses, 5 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
Nebraska sedge	CANE2		1050	1200	35	40
Clustered field sedge	CAPR5		450	600	15	20
Arctic rush	JUAR2		150	300	5	10
Wooly sedge	CALA30		150	300	5	10
Redtop	AGST2		90	150	3	5
Meadow barley	HOBR2	1	30	90	1	3
Slender wheatgrass	ELTR7	1	30	90	1	3
Alkali bluegrass	POJU	1	30	90	1	3
Pale spikerush	ELPA3	1	30	90	1	3
Prairie wedgescale	SPOB	1	30	90	1	3
Other perennial grasses	PPGG	1	90	150	3	5
Other annual grasses	AAGG	1	90	150	3	5

Forbs, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Alkali marsh aster	ASPA8	2	30	90	1	3
Meadow milkvetch	ASDI5	2	30	90	1	3
Common silverweed	ARAN7	2	30	90	1	3
Field mint	MEAR4	2	30	90	1	3
Common monkey flower	MIGU	2	30	90	1	3
Yellow evening primrose	OEFL	2	30	90	1	3
Elephanthead lousewort	PEGR2	2	30	90	1	3
Alkali buttercup	RACY	2	30	90	1	3
Nodding burrmarigold	BICE	2	30	99	1	3
Ovalpurse	HUPR	2	30	90	1	3
Field horsetail	EQAR	2	30	90	1	3
Seaside arrowgrass	TRMA4	2	30	90	1	3
Other perennial forbs	PPFF	2	150	300	5	10
Other annual forbs	AAFF	2	150	300	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
Coyote willow	SAEX	3	30	90	1	3
Woods rose	ROWO	3	30	90	1	3
Golden hardhack	DEFL3	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

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	8000	8500
Average Year	2500	3000
Unfavorable Year	1000	1500

4. Ground Cover and Structure

a. Vegetative

Vegetation Type	Percent Canopy Cover	Height Range (ft)	Percent Basal Area Cover
Grasses & Grass-like (perennial)	80	2	70
Forbs (perennial)	5	1	1
Shrubs	1	3	1
Trees			
Cryptogams			

b. Other

Litter	
Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

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As ecological condition deteriorates due to grazing pressure, palatable sedges, grasses, and forbs decrease, while rushes, arrowgrass, foxtail barley, and unpalatable forbs increase. Arrowgrass, foxtail barley, and rubber rabbitbrush 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	5	15	40	30	5	5	0	0	0	0
Name	PNC											
ID Number	UT0201											
Description	Excellent											

7. Aspect Differences Near MLRA Boundaries

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

8. Associated Sites Within MLRA

028AY006UT

Loamy Bottom (Great Basin wildrye)

028AY012UT

Semiwet Fresh Meadow

028AY022UT

Wet 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

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VG = Very Good G = Good F = Fair P = Poor

2. Wildlife

a. Site Factors Influencing Management

This site provides food and limited cover for wildlife.

b. List of Potential Species Present

Wildlife using this site include rabbit, coyote, birds, pronghorn antelope, and mule deer.

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

Recreation activities are hiking and hunting. Natural beauty exists in the more favorable plant growth environments on this site when compared to adjacent sites.

4. Wood Products

None

5. Other Uses

E. THREATENED AND ENDANGERED SPECIES

1. Plants

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 2. Animals

F. MODAL LOCATION AND DOCUMENTATION

State: Utah County:
 Latitude: Longitude:

Modal Soil: fine, mixed (calcareous), mesic Typic Fluvaquets

Type Location: SWA C341; Photo 1A-1-111

General Legal Description:

Field Office Site Location

Logan
 Provo
 Cedar City
 Murray
 Richfield

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