

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: 028AY012UT

MLRA: 028A

Original Site Description: Author: DJS

Date: 03/15/1891

Revised Site Description: Author: DJS

Date: 08/23/1993

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:

Surface Textures: Fine Sand to Clay (Mostly Medium to Moderately Fine Text.)

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

Subsurface Textures:

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

Geologic Parent Materials: Alluvium from Mixed Sedimentary and Igneous

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: 634

Kirkham SiCL 1-2%

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

1. Potential Plant Community Description and Ecological Factors

The general view of this site is Kentucky bluegrass. The composition by air-dry weight is approximately 80 percent perennial grasses, 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
Kentucky bluegrass	POPR		600	700	30	35
Clustered filed sedge	CAPR5		300	400	15	20
Arctic rush	JUAR2		60	300	3	15
Great basin wildrye	LECI4		60	100	3	5
Redtop	AGST2		60	100	3	5
Western wheatgrass	PASM		60	100	3	5
Bottlebrush squirreltail	ELEL5	1	20	60	1	3
Coastal saltgrass	DISP	1	20	60	1	3
Timothy	PHPR3	1	20	60	1	3
Alkali bluegrass	POJU	1	20	60	1	3
Other perennial grasses	PPGG	1	100	200	5	10
Other annual grasses	AAGG	1	100	200	5	10

Forbs, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Field horsetail	EQAR		60	100	3	5
Common silverweed	ARAN7	2	20	60	1	3
Alkali marsh aster	ASPA8	2	20	60	1	3
Common dandelion	TAOF	2	20	60	1	3
Redwood plantain	PLER	2	20	60	1	3
Strawberry clover	TRFR2	2	20	60	1	3
Gooseberryleaf globemallow	SPGR2	2	20	60	1	3
Rocky mountain groundsel	SEST3	2	20	60	1	3
Other perennial forbs	PPFF	2	100	200	5	10
Other annual forbs	AAFF	2	100	200	5	10

Shrubs/Vines, %

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Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Rubber rabbitbrush	CHNA2	3	20	60	1	3
Coyote willow	SAEX	3	20	60	1	3
Golden hardhack	DAFL3	3	20	60	1	3
Woods rose	ROWO	3	20	60	1	3
Basin big sagebrush	ARTRT	3	20	60	1	3
Low rabbitbrush	CHVI8	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

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

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Litter	
Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

As this site deteriorates due to grazing pressure, Kentucky bluegrass, redtop, and forbs decrease while rushes, rubber rabbitbrush, and low rabbitbrush increase. Fire is not part of the ecosystem. Foxtail barley, poverty weed, gumweed, and cheatgrass 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	UT0121											
Description	Excellent Condition											

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)

028AY014UT
 Semiwet Fresh Streambank

028AY221UT
 Semidesert Loam (Basin big sagebrush)

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

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 environment on this site when compared to adjacent sites.

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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: Kirkham SiCL 1-2% — fine-silty, mixed, mesic Fluvaquentic Haplustolls

Type location:

General Legal Description: West of Kanarraville, Utah, East of the Freeway

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