

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 Streambank

SITE NUMBER: 028AY022UT

MLRA: 028A

Original Site Description: Author:

Date:

Revised Site Description: Author:

Date: 09/07/1993

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: 20-40 inches

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

Subsurface Textures: Variable, Commonly Stratified

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

Geologic Parent Materials: Alluvium from Mixed Parent Material

Moisture Regime:

Temperature Regime:

Runoff:

Permeability(min-max):

Drainage Class(min-max):

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:

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

1. Potential Plant Community Description and Ecological Factors

The dominant aspect of the plant community is willow and sedges. The composition by air-dry weight is approximately 50 percent perennial grasses, 15 percent forbs, 15 percent shrubs, and 10 percent trees. This riparian ecosystem is very dynamic and all stages of plant succession can be found.

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		500	600	25	30
Clustered field sedge	CAPR5		100	200	5	10
Kentucky bluegrass	POPR		100	200	5	10
Arctic rush	JUAR2		60	100	3	5
Redtop	AGST2	1	20	60	1	3
Great Basin wildrye	LECI4	1	20	60	1	3
Western wheatgrass	PASM	1	20	60	1	3
Slender wheatgrass	ELTR7	1	20	60	1	3
Timothy	PHPR3	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	2	60	100	3	5
Alkali marsh aster	ASPA8	2	60	100	3	5
Strawberry clover	TRFR2	2	60	100	3	5
Common dandelion	TAOF	2	60	100	3	5
White cranesbill	GERI	2	60	100	3	5
Redwood plantain	PLER	2	60	100	3	5
Rocky mountain groundsel	SEST3	2	60	100	3	5
Common yarrow	ACMI2	2	60	100	3	5
Common silverweed	ARAN7	2	60	100	3	5
Louisiana wormwood	ARLU	2	60	100	3	5
Other perennial forbs	PPFF	2	200	300	10	15
Other annual forbs	AAFF	2	200	300	10	15

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		100	200	5	10
Arroyo willow	SALA6	3	20	60	1	3
Basin big sagebrush	ARTRT	3	20	60	1	3
Utah serviceberry	AMUT	3	20	60	1	3
Woods rose	ROWO	3	20	60	1	3
Golden current	RIAU	3	20	60	1	3
Western snowberry	SYOR	3	20	60	1	3
Silver buffaloberry	SHAR	3	20	60	1	3
Deciduous travelersjoy	CLLI2	3	20	60	1	3
Blue elder	SACE3	3	20	60	1	3
Rubber rabbitbrush	CHNA2	3	20	60	1	3
Other shrubs	SSSS	3	100	200	5	10

Trees, %

Common Name	National Symbol	Group	Pounds per Acre		% by Weight of Total Composition	
			Low	High	Low	High
Fremont cottonwood	POFR2					
Narrowleaf cottonwood	POAN3					
Ashleaf maple	ACNE2					

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	2900	3000
Average Year	1900	2000
Unfavorable Year	900	1000

4. Ground Cover and Structure

a. Vegetative

Vegetation Type	Percent Canopy Cover	Height Range	Percent Basal Area Cover
Grasses & Grass-like (perennial)			
Forbs (perennial)			
Shrubs			
Trees			
Cryptogams			

b. Other

Litter	
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Coarse Fragments	
Bare Ground	

5. Ecological Dynamics of the Site

As ecological condition deteriorates due to overgrazing redtop, bluegrass, and all forbs decrease, while sedge, willow, rabbitbrush, woods rose, big sagebrush, and trees increase.

When the potential natural plant community is burned, trees and some shrubs decrease while grasses and forbs increase.

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	UT0221											
Description	Excellent Condition											

7. Aspect Differences Near MLRA Boundaries

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

8. Associated Sites Within MLRA

028AY014UT
 Semiwet Fresh Streambank

028AY020UT
 Wet Fresh Meadow

028AY012UT
 Semiwet Fresh Meadow

9. Correlated Sites in Other States

(Give site name and number)

D. MAJOR USES OF THIS SITE

1. Livestock

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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 diversity and interspersed of grasses, forbs, shrubs, and trees provides good habitat for most wildlife.

b. List of Potential Species Present

Wildlife using this site include rabbit, coyote, mule deer, pheasants, songbirds, eagles, and hawks.

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 values are camping, hiking, fishing, and hunting. Natural beauty values exist in the diversity and abundance of plant growth coming from the moist soils found in this site.

4. Wood Products

Values exist for saw logs primarily for sheathing, but in most instances it would be more feasible to leave the trees for aesthetic values and recreation. Posts and poles and crating lumber can be harvested from

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cottonwoods, box elder, water birch, and thinleaf alder, but they are much more inferior quality to pine or fir. These trees produce suitable wood for fireplaces, campfire, and materials for novelties and ornamental uses.

5. Other Uses

E. THREATENED AND ENDANGERED SPECIES

1. Plants
2. Animals

F. MODAL LOCATION AND DOCUMENTATION

State: Utah County:
 Latitude: Longitude:

Modal soil:

Type location:

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