

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 (Willow)

SITE NUMBER: 034XY021UT

MLRA: 034

Original Site Description: Author: JLB RHF

Date: 06/16/1992

Revised Site Description: Author: JLB RHF

Date: 11/29/1993

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

Date: 07/25/1994

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: 60-80 inches

Surface Textures:

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

Subsurface Textures:

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

Geologic Parent Materials: Alluvium from Sedimentary and Quartzite

Moisture Regime: Ustic

Temperature Regime: Frigid

Runoff:

Permeability(min-max):

Drainage Class(min-max): Very 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: 047

Hayspur L, 1-3%

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 a willow–alder canopy with grasses and grass-like plants in wetter more open areas. Many of the other forbs and shrubs are in the understory. The composition by air-dry weight is approximately 45 percent perennial grasses, 30 percent forbs, and 25 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 |
| Baltic rush | JUBAM | | 450 | 600 | 15 | 20 |
| Swollen beaked sedge | CARO6 | | 300 | 450 | 10 | 15 |
| Slender wheatgrass | ELTR7 | | 90 | 150 | 3 | 5 |
| 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 |
| Nuttall sunflower | HENU | | 150 | 300 | 5 | 10 |
| Missouri goldenrod | SOMI2 | | 150 | 300 | 5 | 10 |
| Indianhemp | APCA | 2 | 30 | 90 | 1 | 3 |
| Other perennial forbs | PPFF | 2 | 90 | 150 | 3 | 5 |
| Other annual forbs | AAFF | 2 | 90 | 150 | 3 | 5 |

Shrubs/Vines, %

| Common Name | National Symbol | Group | Pounds per Acre | | % by Weight of Total Composition | |
|----------------------|-----------------|-------|-----------------|------|----------------------------------|------|
| | | | Low | High | Low | High |
| Yellow willow | SALU2 | | 150 | 300 | 5 | 10 |
| Redosier | COSE15 | | 150 | 210 | 5 | 7 |
| Speckled alder | ALIN2 | | 30 | 90 | 1 | 3 |
| Fourline honeysuckle | LOIN5 | 3 | 30 | 90 | 1 | 3 |
| Golden current | RIAU | 3 | 30 | 90 | 1 | 3 |
| Other shrubs | SSSS | 3 | 90 | 150 | 3 | 5 |

Trees, %

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| 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 | 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) | 30 | 2 | 20 |
| Forbs (perennial) | 15 | 2 | 5 |
| Shrubs | 50 | 20 | 15 |
| Trees | 5 | 50 | 1 |
| Cryptogams | | | |

b. Other

| | |
|------------------|--|
| Litter | |
| Coarse Fragments | |
| Bare Ground | |

5. Ecological Dynamics of the Site

As this site deteriorates due to grazing pressure, willow, fourline honeysuckle, current, and slender wheatgrass decrease, while Kentucky bluegrass, prickly lettuce, dogbane (Indianhemp), and baltic rush increase. Annual grasses may invade the site if the water table is lowered.

Plant Communities & Transitional Pathways

(Show a steady state diagram with influences to move from one steady state to another)

6. Plant Growth Curves

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| | | | | | | | | | | | | |
|----------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| Percent Growth | 0 | 0 | 5 | 15 | 40 | 20 | 10 | 5 | 5 | 0 | 0 | 0 |
| Name | UT0211 | | | | | | | | | | | |
| ID Number | PNC | | | | | | | | | | | |
| Description | Excellent Condition | | | | | | | | | | | |

7. Aspect Differences Near MLRA Boundaries

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

8. Associated Sites Within MLRA

- 047CY005UT
Semiwet streambank (Lodgepole pine)
- 047CY003UT
Semiwet Streambank (Birch-Alder)
- 047CY007UT
Semimoist Stream Terrace (Ponderosa pine)

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 site provides winter and spring grazing for horses and cattle.

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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This site provides cover and forage for wildlife.

b. List of Potential Species Present

Wildlife using this site include deer, elk, moose, coyote, rabbit, muskrat, beaver, and many birds including raptors.

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 has aesthetic appeal due to moist soil and lush vegetation typically.

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: Hayspur L, 1-3% – fine-loamy, mixed, frigid Flubaquentic Haplaquolls

Type Location: SE ¼; NW ¼; Section 24, Township 1N, Range 1W

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 | | | | | |
| UTAH - RANGE - 2 | 2 | | | | |
| | | | | | |
| | | | | | |
| Permanent Transect Location | | | | | |

Other References