

# Major Land Resource Area 044B

## Central Rocky Mountain Valleys

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### Ecological site keys

#### 44B PES Groupings Key

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##### A Rangeland Groups

###### 1 Significant additional water influences community.

i. Soils are associated with a stream or live water and are in a riparian or lowland situation. ...

R044BP801MT – Bottomland

ii. Not in a riparian situation, but has a water table present.

a. Soil saline or sodic ( $EC > 7$  or  $SAR > 12$  within surface 18cm)

1) Community is Grass and grasslike dominated, water table within rooting depth of herbaceous species, limiting woody vegetation (less than 100 cm from the ground surface for part of the growing season). ... R044BP813MT – Subirrigated Saline-Sodic Grassland

2) Community is shrub dominated, water table within rooting depth of herbaceous species, limiting woody vegetation (greater than 100 cm from the ground surface for part of the growing season). ... R044BP814MT – Subirrigated Saline-Sodic Shrubland

b. Soils are not saline or sodic

1) Community is Grass and grasslike dominated, water table within rooting depth of herbaceous species, limiting woody vegetation (less than 100 cm from the ground surface for part of the growing season). ... R044BP815MT – Subirrigated Grassland

2) Community is shrub dominated, water table within rooting depth of herbaceous species, limiting woody vegetation (greater than 100 cm from the ground surface for part of the growing season). ... R044BP817MT – Subirrigated Shrubland

###### 2 Not water controlled - upland

i Soils influenced by chemistry within the upper soil profile.

a. Soil saline or sodic ( $EC > 7$  or  $SAR > 12$  within surface 18cm)

1) Dominated by grasses and grasslike species - Grassland ... R044BP807MT – Saline-Sodic Grassland

2) Dominated by shrubs ... R044BP808MT – Saline-Sodic Sagebrush Shrubland

b. Soil is strongly or violently effervescent ( $CaCO_3 > 14\%$ ) in surface mineral 18cm – Limy

1) Dominated by grasses and grasslike species - Grassland ... R044BP804MT – Limy Grassland

2) Dominated by shrubs

a) Sagebrush is the dominant shrub - Sagebrush Shrubland ... R044BP805MT – Limy Sagebrush Shrubland

b) All other shrubs - Shrubland ... R044BP806MT – Limy Shrubland

ii Soils not influence by chemistry

A) Soils are shallow (less than 20 inches to a restrictive layer, root limiting layer, or bedrock)

1) Dominated by grasses and grasslike species - Grassland ... R044BP810MT – Shallow Grassland

2) Dominated by shrubs

a) Sagebrush is the dominant shrub - Sagebrush Shrubland ... R044BP811MT – Shallow

Sagebrush Shrubland

b) All other shrubs - Shrubland ... R044BP812MT – Shallow Shrubland

B) Soils are not shallow

A) Soils contain a high amount (greater than 35%) rock fragments on the soil surface.

a) Dominated by grasses and grasslike species - Grassland ... R044BP802MT – Rubbly Grassland

b) Sagebrush is the dominant shrub - Sagebrush Shrubland ... R044BP803MT – Rubbly Sagebrush Shrubland

B) Soils do not contain a high amount of rock fragments on the soil surface.

a) Dominated by grasses and grasslike species - Grassland ... R044BP818MT – Upland Grassland

b) Dominated by shrubs

(1) Sagebrush is the dominant shrub - Sagebrush Shrubland ... R044BP819MT – Upland Sagebrush Shrubland

(2) All other shrubs - Shrubland ... R044BP820MT – Upland Shrubland

B Forestland Groups

1 Deciduous dominated community, dominantly Aspen - Aspen Woodland ... F044BP908MT – Upland Aspen Woodland

2 All other Forest Types

a Warmer temperatures, generally related to lower elevations, south and west aspects - Warm Woodland

i Soils are shallow (less than 20 inches to a restrictive layer, root limiting layer, or bedrock) ... F044BP904MT – Shallow Warm Woodland

ii Soils are not shallow

1) Soil is strongly or violently effervescent ( $\text{CaCO}_3 > 14\%$ ) in surface mineral 18cm – Limy ... F044BP913MT – Limy Warm Woodland

2) Soils are not strong to violently effervescent ... F044BP911MT – Upland Warm Woodland

b Cooler temperatures with higher elevations

i Coldest and highest elevation, just below timberline or on north and east aspects -Cold Woodland

1) Additional moisture available, meadows or snow-catch areas - Cold-Moist Woodland ... F044BP906MT – Subirrigated Cold Woodland

2) No additional moisture - Cold Woodland

a) Soil is strongly or violently effervescent ( $\text{CaCO}_3 > 14\%$ ) in surface mineral 18cm – Limy ... F044BP902MT – Shallow Cold Woodland

b) Soil is not strongly or violently effervescent ... F044BP909MT – Upland Cold Woodland

ii Cool temperatures, mid-elevation range, and variable aspect.

A) Additional moisture available, meadows or snow-catch areas - Cool-Moist Woodland ... F044BP907MT – Subirrigated Cool Woodland

B) No additional moisture - Cool Woodland

a) Soils are shallow (less than 20 inches to a restrictive layer, root limiting layer, or bedrock) ... F044BP903MT – Shallow Cool Woodland

b) Soils are not shallow

(1) Soil is strongly or violently effervescent ( $\text{CaCO}_3 > 14\%$ ) in surface mineral 18cm – Limy ... F044BP912MT – Limy Cool Woodland

(2) Soil is not strongly or violently effervescent

(a) Soils contain a high amount (greater than 35%) rock fragments on the soil surface. ... F044BP901MT – Rubbly Cool Woodland

(b) Soils do not have a high amount of rock fragments on the surface. ... F044BP910MT – Upland Cool Woodland

