

# Major Land Resource Area 010X

## Central Rocky and Blue Mountain Foothills

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### Ecological site keys

#### Areas east of the Snake River, on the Foothills and Plains of the Big and Little Wood River

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##### I. Site Occurs on Uplands

###### A. Slopes greater than 30 percent on northerly aspects

1 Site occurs in greater than 20 inch precipitation zones, in areas of moisture accumulating topography ... R010XA016ID – Quaking Aspen 20+ PZ POTR5

2 Site is in 12 to 16 inch precipitation zones with elevation below 7000 feet

###### i. Soils are volcanic cinders

a. Coarse cinder soils, little soil development, cryic soil temperature regime ... R010XA043ID – Cinder North 12-16 PZ PIFL2/PUTR2

b. Somewhat finer cinder soils, greater soil development, frigid soil temperature regime ... R010XA047ID – Cindery North 12-16 PZ ARTRV-PUTR2/FEID-PSSPS

###### ii. Soils are not volcanic cinders

a. Soils are extremely bouldery loams. Large boulders are common on the surface. ... R010XA037ID – Shrubby Stony North 12-16 PZ ARTRV/FEID

b. Soils are moderately deep to deep stony loams. ... R010XA036ID – North Slope Stony 12-16 PZ ARTRX/PSSPS

3 Site occurs in 16 to 22 inch precipitation zones

i. Soils are deep and loamy, site occurs at an elevation between 5000 to 8800 feet ... R010XA008ID – North Slope Loamy 16-22 PZ

ii. Soils are generally shallow to fractured bedrock or clay. Roots penetrate below 20 inches. ... R010XA010ID – North Slope Fractured 16-22 PZ

iii. Soils are very shallow to bedrock or clay ... R010XA011ID – Clayey North 16-22 PZ

###### B. Slopes greater than 30 percent on southerly aspects

1 Occurs in 16 to 22 inch precipitation zone

i. Slopes greater than 45 percent ... R010XA014ID – Steep South Slope 16-22 PZ

ii. Slopes less than 45 percent ... R010XA015ID – South Slope Loamy 16-22 PZ

2 Occurs in less than 16 inch precipitation zones

###### i. Soils are volcanic cinders

a. Coarse cinder soils, little soil development... R010XA045ID – Cinder South 12-16 PUTR2/HECO26 (Draft concept)

b. Somewhat finer cinder soils, greater soil development... R010XA048ID – Cindery South 12-16 PUTR2-ARTRV/PSSPS (Draft concept)

###### ii. Soils not volcanic cinders

a. Site occurs in association with rock outcrops and talus slopes ... R010XA030ID – South Slope Channery 11-13 PZ ARTRX/PSSPS

b. Not as above

1) Soils greater than 20 inches to bedrock

- a) Coarse fragments greater than 35 percent throughout the soil profile ... R010XA009ID – South Slope Gravelly 12-16 PZ
      - b) Not as above ... R010XA025ID – South Slope Loamy 11-13 PZ ARTRW8/PSSPS
    - 2) Soils less than 20 inches to fractured bedrock
      - a) Site occurs on exposed ridgetops... R010XA024ID – STONY WINDSWEPT RIDGE 8-16 (Draft concept)
      - b) Not as above ... R010XA021ID – South Slope Fractured 12-16 PZ
  - 3 Site occurs in greater than 20 inch precipitation zones, in areas of moisture accumulating topography ... R010XA016ID – Quaking Aspen 20+ PZ POTR5
- C. Slopes generally less than 30 percent, occurring on all aspects
- 1 Site associated with recent lava flows
    - i. Soils 10 to 20 inches deep over fractured basalt ... R010XA020ID – Mixed Shrub 12-16 PZ
    - ii. Soils less than 10 inches to basalt or lava bedrock ... R010XA050ID – Very Shallow Loam 12-16 PZ ARAR8/POSE
    - iii. Soils greater than 20 inches deep
      - a. Site nearly devoid of vegetation, coarse cinder soils, little soil development ... R010XA046ID – Cinder Garden 12-16 PZ EROVD-LERE7
      - b. Somewhat finer cinder soils, greater soil development, cryic soil temperature regime ... R010XA044ID – Cinder 12-16 PZ PIFL2/ARTRV
      - c. Soils with greater soil development than on Cinder 12 to 16. Increased fine soil particles within the profile... R010XA049ID – Gravelly Loam 12-16 ARTRV/PUTR2/PSSPS (Draft concept)
  - 2 Not as above
    - i. Soils are 20 inches or less
      - a. Site occurs on exposed ridgetops... R010XA024ID – STONY WINDSWEPT RIDGE 8-16 (Draft concept)
      - b. Not as above
        - 1) Surface texture is generally loam to silt loam but may be finer ... R010XA007ID – Shallow Stony Loam 8-16 PZ
        - 2) Surface texture is generally clay loam to silty clay but may be coarser ... R010XA038ID – Stony Clayey 8-16 PZ ARAR8/PSSPS
    - ii. Soils are greater than 20 inches deep
      - a. Soils are sandy ... R010XA022ID – Sandy Loam 12-16 PZ
      - b. Soils are clayey to loamy
        - 1) Site has large boulders on or near surface
          - a) Site is below 5000 feet elevation ... R010XA032ID – Bouldery 11-13 PZ ARTRX/PSSPS
          - b) Site is above 5000 feet elevation ... R010XA031ID – Bouldery Loam 12-16 PZ ARTRV/FEID
        - 2) Not as above
          - a) Soils are 20 to 40 inches to a duripan
            - (1) Sites occur in 12 to 16 inch precipitation zones, root restricting clayey subsurface at 14 to 18 inches ... R010XA001ID – Clayey 12-16 PZ ARARL/FEID
            - (2) Sites occur in 10 to 12 inch precipitation zones ... R010XA034ID – Claypan 10-12 PZ ARTR4/PSSPS-ACTH7
          - b) Not as above
            - (1) Site occurs in 11 to 13 inch precipitation zones
              - (a) Sites occur on slopes of 1 to 15 percent at elevations 4250 to 5000 feet. Soils are moderately deep. Textures are loams and silt loams. ... R010XA033ID – Loamy 11-13 PZ ARTRX/PSSPS

(b) Sites occur on slopes of 5 to 25 percent and elevations from 4000 to 5500 feet. Soils are moderately deep. Textures are loams and silt loams. ... R010XA026ID – Loamy 11-13 PZ ARTRW8/PSSPS

(2) Site occurs in 12 to 16 inch precipitation zones

(a) Sites occur on slopes from 1 to 30 percent and elevations from 4500 to 6500 feet. Soils are moderately deep to deep. Textures are loams, silt loams and gravelly silt loams ... R010XA004ID – Loamy 12-16 PZ ARTRV/FEID-PSSPS

(b) Sites occur on slopes from 1 to 20 percent and elevations from 4000 to 5500 feet. Soils are moderately deep to deep. Surface soils are silt loams. Subsoils are silty clay loam to clay loam. ... R010XA023ID – Loamy 12-16 PZ ARTR4/FEID

(3) Site occurs in greater than 20 inch precipitation zone, in areas of moisture accumulating topography ... R010XA016ID – Quaking Aspen 20+ PZ POTR5

II. Site occurs on bottomlands with slopes less than 8 percent

A. Water table usually not present. ... R010XA042ID – Loamy Bottom 12-16 PZ LECI4

B. Water table present for most of the growing season.

1 Water standing at or above the surface into late summer... R010XA040ID MARSH TYLA-SCAC3 (Draft concept)

2 Water at or near the surface at beginning of growing season and down to 10 to 20 inches at the end of the growing season. ... R010XA039ID – Wet Meadow Carex/Juncus

3 Water at or near the surface at beginning of growing season and down to 20 to 40 inches at the end of the growing season ... R010XA027ID – Meadow DECA18-CANE2

4 Water at or near the surface at beginning of the growing season and greater than 40 inches at the end of the growing season. ... R010XA028ID – Dry Meadow 8-15 PZ PONE3-PHAL2