

# Major Land Resource Area 048A

## Southern Rocky Mountains

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### Ecological site keys

#### MLRA 48A Key New Mexico

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- I. Located in LRU RM-1. These sites are found on the east side of Sangre de Cristo mountains.
  - A. Site receives extra water beyond normal precipitation through high water table, riparian area, or run-in water
    - 1 Site has water table 0-36 inches in depth, soil depth is > 60 inches; family particle size is fine or fine loamy ... R048AY006NM – Mountain Meadow
    - 2 Site not as above
      - i. Site in landscape position that receives run-in water, no water table present in 6 feet; family particle size is fine-loamy or fine ... R048AY003NM – Mountain Valley
      - ii. Site not as above - not written
  - B. Site receives no extra water beyond normal precipitation
    - 1 Precipitation is 20-30"; Elevation is 9,000 ft or higher – Subalpine climate zone
      - i. Parent material basalt; soils depth is greater than 60 inches; family particle size can be fine, fine-loamy or loamy-skeletal ... R048AY001NM – Subalpine Grassland
      - ii. Site not as above not written or see Colorado MLRA 48A key for more sites ... Key 1 – MLRA 48A Colorado
    - 2 Precipitation is usually 16-20 inches (precipitation can range from 15 to 25 with aspect differences); elevation is approximately 7,000 to 9,000 feet.– Mountain climate zone
      - i. Site has bedrock within 20 inches of the soil surface
        - a. Parent material is shale
          - 1) Family particle size is fine ... R048AY007NM – Mountain Shale
          - 2) Site not as above
            - a) Family particle size is loamy ... R048AY008NM – Mountain Brush
            - b) Site not as above - not written
        - b. Parent material is not shale
          - 1) Soils are skeletal (greater than 35% rock fragments)
            - a) Parent material basalt, volcanic rock and metamorphic rock; family particle size is clayey-skeletal or loamy-skeletal ... R048AY005NM – Mountain Malpais
            - b) Site not as above - not written
          - 2) Site not as above
            - a) Parent material sandstone, shale, basalt and limestone family particle size is loamy ... R048AY008NM – Mountain Brush
            - b) Site not as above - not written
        - ii. Site not as above - soil depth is greater than 20 inches
          - a. Soils are skeletal (greater than 35% rock fragments)
            - 1) Family particle size – clayey-skeletal ... R048AY004NM – Mountain Loam
            - 2) Site not as above - not written
          - b. Site not as above

- 1) Fine family particle size
  - a) Parent material is shale, soil depth 20-40 inches ... R048AY007NM – Mountain Shale
  - b) Site not as above
    - (1) Parent material is basalt, igneous rock, metamorphic rock, sandstone, shale, or other sedimentary rock, soil depth greater than 40 inches ... R048AY002NM – Mountain Grassland
    - (2) Site not as above - not written
- 2) Site not as above
  - a) Site is fine-loamy family particle size
    - (1) Parent material is basalt, igneous rock, metamorphic rock, sandstone, shale, or other sedimentary rock, soil depth greater than 40 inches ... R048AY002NM – Mountain Grassland
    - (2) Site not as above - not written
  - b) Site not as above - not written

II. Located in LRU RM-2. These sites are found on the west side of Sangre de Cristo mountains, Tusas Mountains (southern San Juan mountains) and Jemez Mountains.

- A. Site receives extra water beyond normal precipitation through high water table, riparian area, or run-in water
  - 1 Site has water table 0-60 inches in depth, soil depth is greater than 60 inches; family particle size is fine or fine loamy ... R048AY016NM – Mountain Meadows
  - 2 Site not as above
    - i. Site in landscape position and receives run-in water, no water table present in 6 feet; family particle size –fine; parent material - shale ... R048AY014NM – Mountain Valley Dry
    - ii. Site not as above - not written
- B. Site receives no extra water beyond normal precipitation
  - 1 Precipitation is 25-40"; approximately 9,000 to 12,000 feet in elevation – Subalpine climate zone
    - i. Soils depth is greater than 60 inches; family particle size is loamy-skeletal; parent material, rhyolite, granite, gneiss, volcanic rock metamorphic ... R048AY011NM – Subalpine Grassland Dry
    - ii. Site not as above not written or see Colorado MLRA 48A key for more sites ... Key 1 – MLRA 48A Colorado
  - 2 Precipitation is 16-25"; approximately 7,000 to 9,000 feet in elevation Mountain climate zone
    - i. Site has bedrock within 20 inches of the soil surface
      - a. Family particle size is clayey
        - 1) Parent material – sandstone and/or shale ... R048AY015NM – Mountain Shale Dry
        - 2) Site not as above
          - a) Parent material - igneous rock and/or metamorphic rock ... R048AY010NM – Pine Grassland
          - b) Site not as above - not written
      - b. Site not as above - not written
    - ii. Site not as above - soil depth is greater than 20 inches
      - a. Site has greater than 35% rock fragments
        - 1) Family particle size is clayey-skeletal; parent material is igneous rock and/or metamorphic rock ... R048AY010NM – Pine Grassland
        - 2) site not as above
          - a) Family particle size is loamy-skeletal; parent material is igneous rock and/or metamorphic rock ... R048AY009NM – Mountain Breaks
          - b) Site not as above
            - (1) Family particle size is loamy-skeletal; parent material is rhyolite, tuff, sandstone and/or

shale ... R048AY012NM – Mountain Loam Dry

(2) Site not as above - not written

b. Site not as above; less than 35% rock fragments

1) Family particle size is fine; parent material is sandstone and/or shale

a) Surface texture is loam and soil depth is greater than 20 inches ... R048AY013NM – Mountain Slopes

b) Site not as above

(1) Surface texture clay loam or channery clay loam; soils are 20-40 inches in depth ... R048AY015NM – Mountain Shale Dry

(2) Site not as above - not written

2) Site not as above

a) Family particle size is fine-loamy

(1) Parent material is igneous rock and/or metamorphic rock, soil surface texture is gravelly loam, soil depth greater than 60 inches ... R048AY009NM – Mountain Breaks

(2) Site not as above

(a) Parent material is rhyolite, tuff, sandstone and/or shale; soil surface texture is loam or silt loam, soil depth greater than 60 inches ... R048AY012NM – Mountain Loam Dry

(b) Site not as above - not written

b) Site not as above - not written