Major Land Resource Area 006X
Cascade Mountains, Eastern Slope

Accessed: 10/12/2024

Ecological site keys

LRU A (Oregon): Cascade Mountains, Eastern Slope - Oak-Conifer Foothills

---

I. Mean annual precipitation less than 20" (East of Hood river valley, below ~ 2,000 ft elevation, increasing to ~ 2,500 ft from Dufur south)

- A. Soil surface texture clay loam or clay, (> 35% clay, found only toward the southern extent of east gorge Oregon white oak in and around the Warm Springs Reservation) ... R006XA310OR – Juniper-Oak Clayey
- B. Soil surface texture courser than above (typically loam, silt loam or fine sandy loam, < 35% clay)
  - 1 Slope < 15 %, (soils deep to very deep) ... R006XA300OR – Loamy 14-20 PZ
  - 2 Slope > 15 %, (soils shallow to deep)
    - i. Sites found on south and west aspects ... R006XA200OR – South Slopes 14-20 PZ
    - ii. Sites found on north and east aspects ... R006XA202OR – North Slopes 14-20 PZ

II. Mean annual precipitation 20" or greater, location not as above

- A. Soils shallow (10 - 20"), occupying exposed areas such as summits, ridgetops, balds and southerly slopes ... R006XA204OR – South Slopes 20-40 PZ
- B. Not as above
  - 2 Site within, or just west of, the maritime zone defined by the Hood River and White Salmon Valleys
    - i. Elevation greater than 2,500 ft, soil temperature regime Frigid ... F006XA803OR – Frigid Xeric Maritime North Slopes 35-55 PZ
    - ii. Elevation between 1,500 ft and 2,500 ft
      - a. Slope > 30%
        - 1) Occupying north and east aspects ... F006XA803OR – Frigid Xeric Maritime North Slopes 35-55 PZ
        - 2) Occupying south and west aspects ... R006XA302OR – Steep South Slopes 20-40 PZ
      - b. Slope < 30% ... F006XA804OR – Mesic Xeric Maritime Foothills 30-50 PZ
    - iii. Elevation below 1,500 ft (all of the 20 - 40 PZ ecological sites occur in this elevation zone so distinction will be more challenging here, clueing into biotic characteristics may be more helpful if soil pits are not feasible)
      - a. Slope > 45%
        - 1) Soils moderately deep, 20 – 40”, (aspects generally south or west) ... R006XA302OR – Steep South Slopes 20-40 PZ
        - 2) Soils deep, 40 – 60”, (uncommon on these steeper slopes) ... R006XA304OR – Loamy 20-40 PZ
        - 3) Soils very deep, 60” + , (uncommon on these steeper slopes) ... F006XA804OR – Mesic Xeric Maritime Foothills 30-50 PZ
      - b. Slope < 45%
        - 1) Slope > 30%, on south and west aspects ... R006XA302OR – Steep South Slopes 20-40 PZ
        - 2) Not as above
          - a) Soils deep, 40 – 60”, (occasionally moderately deep) ... R006XA304OR – Loamy 20-40 PZ
          - b) Soils very deep, 60” + ... F006XA804OR – Mesic Xeric Maritime Foothills 30-50 PZ

1 Site East of the maritime zone described above

i. Mean annual precipitation 20 – 30”, (elevation ~ 2,000 - 3,000 ft, increasing to ~ 2,500 – 3,500 ft south of Dufur)

a. Slopes > 30%, on south and west aspects ... R006XA302OR – Steep South Slopes 20-40 PZ

b. Not as above ... R006XA304OR – Loamy 20-40 PZ

ii. Mean annual precipitation greater than 30”, (elevation above ~ 3,000 ft, increasing to ~ 3,500 ft south of Dufur)

a. Slope > 30%

1) Occupying north and east aspects ... F006XA803OR – Frigid Xeric Maritime North Slopes 35-55 PZ

2) Occupying south and west aspects ... R006XA302OR – Steep South Slopes 20-40 PZ

b. Slope < 30% ... F006XA804OR – Mesic Xeric Maritime Foothills 30-50 PZ