Major Land Resource Area 006X
Cascade Mountains, Eastern Slope

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Ecological site keys

MLRA 6 - North of the Columbia River

I. Resides north of Columbia River.

A. Site has over 20% cover of trees over 13 feet in height.

1 Site located in Northern Cascades; northern Chelan and Okanogan Counties; CRAs 6.1, 6.2, 6.3 and 6.4; LRU A

i. Site occurs in cryic temperature regime.

a. Site occurs in udic moisture regime. ... F006XA006WA – Cold Cryic Udic Mountain Slopes (Pacific Silver fir Cold Moist Shrub/Herb)

b. Site occurs in xeric moisture regime, but a udic moisture subclass (xeric bordering udic). ... F006XA008WA – Cryic Xeric Mountain Slopes (Subalpine fir Cold Moderately Dry Shrub/Herb)

c. Site occurs in xeric moisture regime.

1) Site occurs less than 5,000 feet elevation. ... F006XA003WA – Cryic Xeric Mountain Slopes (Subalpine fir Cool Moderately Dry Shrub/Herb)

2) Site occurs over 5,000 feet elevation. ... F006XA004WA – Cold Cryic Xeric Mountain Slopes (Subalpine fir Cold Dry Shrub)

ii. Site occurs in frigid temperature regime.

a. Plant community expresses a Douglas-fir and huckleberry plant association. ... F006XA005WA – Cool Frigid Xeric Mountain Slopes (Douglas-fir Cool Moderately Dry Shrub/Herb)

b. Plant community expresses a Douglas-fir and pinegrass plant association. ... F006XA001WA – Cool Frigid Xeric Ashy Slopes (Douglas-fir Cool Dry Grass)

c. Plant community lacks pinegrass. ... F006XA007WA – Warm Frigid Xeric Mountain Slopes (Douglas-fir Warm Dry Shrub/Herb)

iii. Site occurs in mesic temperature regime.

a. Site occurs predominantly on northern slopes. ... F006XA007WA – Warm Frigid Xeric Mountain Slopes (Douglas-fir Warm Dry Shrub/Herb)

b. Site occurs on more southerly slopes. ... F006XA002WA – Mesic Xeric Hill Slopes and Terraces (Ponderosa Pine Hot Dry Grass)

2 Site located in Central Cascades; northern Kittitas and southern Chelan counties; CRA 6.5; LRU B

i. Site occurs in cryic temperature regime. ... F006XB002WA – Cold Cryic Udic Mountain Slopes (Mountain Hemlock Cold Moderately Moist Shrub/Herb)

ii. Site occurs in frigid temperature regime.

a. Site dominated by Douglas-fir. ... F006XB001WA – Frigid Xeric Mountain Slopes (Douglas-fir Moderately Dry Shrub/Herb)

b. Site dominated by grand fir. ... F006XB003WA – Frigid Xeric Mountain Slopes (Grand fir Warm Moderately Dry Low Shrub/Herb)

iii. Site occurs in mesic temperature regime. ... F006XB004WA – Mesic Xeric Foothills and Mountain Slopes (Ponderosa Pine Hot Dry Shrub Grass)

3 Site located in Southern Cascades; Kittitas, Yakima, Klickitat and eastern Skamania Counties; CRAs 6.6, 6.7 and 6.8; LRU C and D.

i. Site occurs in cryic temperature regime.

a. Site dominated by whitebark pine. ... F006XD006WA – Cold Cryic Xeric Mountain Slopes (Whitebark Pine Cold Moderately Dry Shrub/Herb)

b. Site dominated by subalpine fir. ... F006XC001WA – Cryic Xeric Mountain Slopes and Plateaus (Subalpine fir Cool Dry Grass)

c. Site dominated by western hemlock. ... F006XC002WA – Cryic Moderately Moist Xeric Mountain Slopes (Western Hemlock Cool Moderately Moist)

ii. Site occurs in frigid temperature regime.

a. Site on 'dry river terrace' adjacent to riparian areas. ... F006XD003WA – Mesic Xeric Slopes and Flood Plains (Oregon white oak-Ponderosa Pine Hot Moderately Dry Shrub)

b. Site not described as above.

1) Site occurs in xeric moisture regime, but a udic moisture subclass (xeric bordering udic).

a) Site aspect is northern. ... F006XC003WA – Cool Frigid Moist Xeric Mountain Slopes (Grand fir Cool Moist Shrub/Herb)

b) Site aspect is southernly. ... F006XD001WA – Frigid Moist Xeric Ashy Slopes (Grand fir Warm Moist Shrub/Herb)

2) Site occurs in xeric moisture regime, but a typic moisture subclass.

a) Site aspect is northerly. ... F006XD005WA – Frigid Xeric Mountain Slopes and Plateaus (Grand fir Warm Moderately Dry Shrub)

b) Sites aspect is more southernly. ... F006XD002WA – Cool Frigid Xeric Ashy Slopes (Grand fir Cool Dry Grass)

iii. Site occurs in mesic temperature regime.

a. Site contains bitterbrush and/or elk sedge. ... F006XD004WA – Mesic Xeric Slopes and Plateaus (Oregon White Oak-Ponderosa pine Hot Dry Herb/Shrub)

b. Site contains wester hazel and/or snowberry. ... F006XD003WA – Mesic Xeric Slopes and Flood Plains (Oregon white oak-Ponderosa Pine Hot Moderately Dry Shrub)

B. Sites has less than 20% cover of trees over 13 feet in height.

1 The site occurs on uplands.

i. Soils are very shallow in depth, less than 10 inches. Sites include: ESG R006XY001WA - Very shallow, R006XY301WA - Very shallow 16-24 PZ. ... R006XY001WA – Very shallow

ii. Soils are deeper than 10 inches.

a. Soil has a shallow depth class, less than 20 inches to restrictive horizon.

1) Site occurs on the High Prairie or Swauk Prairie of MLRA 6. ESG R006XY412WA - Shallow stony, Prairie ... R006XY412WA – Shallow Stony Prairie

2) Site occurs approximately at 2,800 to 4,000 feet elevation; mesic temperature regime. Sites include: ESG R006XY312WA - Shallow stony, 2800-4000 feet, R006XY201WA - Dry Stony 16-24 PZ. ... R006XY312WA – Shallow Stony 2800-4000 feet

3) Site occurs approximately at 4,000 to 6,000 feet elevation; frigid temperature regime . Sites include: ESG R006XY112WA - Shallow stony, 4000-6000 feet, R006XY203WA - Cool Stony 16-24 PZ. ... R006XY112WA – Shallow Stony 4000-6000 feet

4) Site occurs approximately at 6,000 to 7,600 feet elevation; cryic temperature regime. Sites include: ESG R006XY115WA - Shallow stony, 6000-7600 feet, R006XY204WA - High Mountain Shallow 24+ PZ. ... R006XY115WA – Shallow Stony 6000-7600 feet

b. Soil is deeper than 20 inches to a restrictive horizon and have greater than 35 percent rock fragments in particle size control section.

1) Site occurs approximately below 2,800 feet in elevation. Sites include: ESG R006XY726WA - Stony, dry oak, R006XY201WA - Dry Stony 16-24 PZ. ... R006XY726WA – Stony Dry Oak

2) Site occurs approximately at 2,800 to 4,000 feet elevation; mesic temperature regime. Sites

include: ESG R006XY226WA - Stony foothills, south aspect, bitterbrush, 2,800-4,000 feet, R006XY202WA - Stony 16-24 PZ. ... R006XY226WA – Stony Foothills South Aspect bitterbrush 2800-4000 feet

3) Site occurs approximately at 4,000 to 6,000 feet elevation; frigid temperature regime. Sites include: ESG R006XY126WA - Stony south aspect, 4000-6000 feet, R006XY203WA - Cool Stony 16-24 PZ, R006XY702WA - Mountain Park, R006XY701WA - Mountain Shallow. ... R006XY126WA – Stony South Aspect 4000-6000 feet

4) Site occurs approximately at 6,000 to 7,600 feet elevation; cryic temperature regime. Sites include: ESG R006XY165WA - Stony south aspect, 6000-7600 feet, R006XY703WA - High Mountain Park, R006XY704WA - Subalpine Park. ... R006XY165WA – Stony South Aspect 6000-7600 feet

c. Soil is deeper than 20 inches to restrictive horizon and has less than 35 percent rock fragments.

1) Site has northerly aspect. Site include: ESG R006XY450WA - North aspect, Prairie, R006XY103WA - Cool Loamy 16-24 PZ. ... R006XY450WA – North Aspect Prairie

2) Site not as above. Sites include: ESG R006XY430WA - Loamy, prairie, R006XY102WA - Loamy 16-24 PZ. ... R006XY430WA – Loamy Prairie

2 The site occurs on depressions, swales on flood plains or terraces.

i. Soils are hydric and saturated to the surface. ... R006XB100OR – Wet Meadow

ii. Soil are non-hydric and not saturated to the surface, but plants are water tolerant.

b. Site elevation is approximately 4,000 to 6,000 feet; frigid temperature regime. ... R006XB102OR – Cold Wet Meadow

c. Site elevation is approximately 6,000 to 7,600 feet; cryic temperature regime. ... F006XY706OR – Cryic Coniferous Flood Plain