

Major Land Resource Area 043A

Northern Rocky Mountains

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Ecological site keys

MLRA 43A PES- Areas of Purcell or Cabinet Mountains, Lewis, Livingston, Mission and Swan Ranges - PES

I. Site Forested

A. Site receives additional effective moisture - Subirrigated Cool-Moist Woodland ... F043AP907MT – Subirrigated Cool Moist Woodland Group

B. Site does not receive additional effective moisture

1 Site in moist conditions (25-35 inches mean annual precipitation and 38-42 degrees F mean annual temperature and 70-90 days frost free, 2200-5000 feet elevation). Surface soil texture is gravelly ashy silt loam or gravelly silt loam or gravelly loam.

i. soils ashy - Ashy Cool- Moist Woodland ... F043AP902MT – Ashy Cool Moist Woodland Group

ii. Soils not ashy - Upland Cool - Moist Woodland ... F043AP910MT – Upland Cool Moist Woodland Group

2 Site in high elevation; cold conditions (35-70 or 50-70 frost free days, 30-60 or 40-0-60 inch mean annual precipitation, 37-43 degrees F mean annual temperature, 4000-8000 feet elevation).

i. soils shallow - Shallow Cold Woodland ... F043AP904MT – Shallow Cold Woodland Group

ii. Soils not shallow - Upland Cold Woodland ... F043AP908MT – Upland Cold Woodland Group

3 Site in moderate elevations; cool conditions (70-90 days frost free, 20-28 inches mean annual precipitation, 40-45 degree F mean annual temperature, 3000-5000 feet elevation).

i. Soils shallow - Shallow Cool Woodland ... F043AP905MT – Shallow Cool Woodland Group

ii. Soils not shallow - Upland Cool Woodland ... F043AP909MT – Upland Cool Woodland Group

4 Site in low elevations; warm conditions (70-95 or 75-105 frost free days, 17-25 inches mean annual precipitation, 40-45 degrees F mean annual temperature, 2900-5000 feet elevation).

i. Soils shallow - Shallow Warm Woodland ... F043AP906MT – Shallow Warm Woodland Group

ii. Soils not shallow - Upland Warm Woodland ... F043AP911MT – Upland Warm Woodland Group

II. Site not forested

A. Site located in a floodplain - Bottomland (receives additional water, in the aquic soil moisture regime, frigid soil temperature regime, 0-2 percent slopes, 3200-4100 feet elevation). ... R043AP802MT – Bottomland Group

B. Site not located in a floodplain

1 Site receives additional effective moisture - Subirrigated Grassland (has high water table within 100 cm of surface, 20-30 inch mean annual precipitation, 41-45 degree F mean annual temperature, 75-95 days frost free). ... R043AP807MT – Subirrigated Grassland Group

2 Site does not receive additional effective moisture

i. Soils Shallow - Shallow Grassland (14-25 inches mean annual precipitation, 43-46 degrees F mean annual temperature, 70-100 frost free days, 2900-5000 feet elevation). ... R043AP805MT – Shallow Grassland Group

ii. Soils not shallow

a. Site in Alpine Lifezone - Upland Alpine (45-85 inches mean annual precipitation, 32-39 degrees F mean annual temperature, 25-50 days frost free, 5200-8500 feet elevation). ... R043AP809MT –

Upland Alpine Group

b. Site not in Alpine - Upland Grassland (14-19 inches mean annual precipitation, 41-45 degrees F mean annual temperature, 90-105 days frost free, 2700-4500 feet elevation). ... R043AP810MT – Upland Grassland Group