

# Major Land Resource Area 007X Columbia Basin

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## Ecological site keys

### MLRA 7

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#### I. Site resides in south of the Columbia River.

A. Soil is less than 20 inches to bedrock. R007XY015OR - SHALLOW LOAM 8-10 PZ ... R007XY015OR – Shallow Loam 8-10 PZ

B. Soil is greater than 20 inches to bedrock.

##### 1 Soil on landscape of floodplains, terraces or alluvial fans.

i. Soil on floodplain; site is R007XY010OR - SANDY BOTTOM 8-10 PZ ... R007XY010OR – Sandy Bottom 8-10 PZ

ii. Not as above.

##### a. Family particle size sandy.

1) Soil surface texture of sand, low dunes or hummocky topography; site is 007XY011OR - SANDS 8-10 PZ ... R007XY011OR – Sands 8-10 PZ

2) Soil surface texture of loamy sand, gently rolling topography; site is R007XY012OR - SANDY 8-10 PZ ... R007XY012OR – Sandy 8-10 PZ

##### b. Family particle size loamy.

1) Soil surface texture of fine sandy loam; site is R007XY013OR - SANDY LOAM 8-10 PZ ... R007XY013OR – Sandy Loam 8-10 PZ

2) Soil surface texture of silt loam; site is R007XY014OR - LOAMY 8-10 PZ

##### 2 Soil on landscape of uplands.

i. Aspect is south facing; site is R007XY020OR - SOUTH 8-10 PZ ... R007XY020OR – South 8-10 PZ

ii. Aspect is north facing; site is R007XY025OR - SANDY NORTH 8-10 PZ ... R007XY025OR – Sandy North 8-10 PZ

iii. Not as above; site is R007XY014OR - LOAMY 8-10 PZ ... R007XY014OR – Loamy 8-10 PZ

#### II. Site resides in north of the Columbia River.

A. Soil less than 20 inches deep to restrictive horizon.

1 Soil less than 10 inches deep to restrictive horizon. ESG R007XY001WA - Very Shallow ... R007XY001WA – Very Shallow

2 Soil greater than 10 inches deep to restrictive horizon. ESG R007XY114WA - Shallow Stony Sand ... R007XY114WA – Shallow Stony Sand

**B. Soil greater than 20 inches deep to restrictive horizon.**

**1 Soil in a bottomland landscape position.**

**i. Soil pH is alkaline or greater.**

a. Soil that is very strongly saline-sodic (SAR value is greater than 13). ESG R007XY978WA - Sodic Flat ... R007XY978WA – Sodic Flat

b. Soil that has SAR values less than 13. ESG R007XY970WA - Alkali Terrace ... R007XY970WA – Alkali Terrace

**ii. Soil pH is less than alkaline.**

a. Soil is wet to the surface and displays hydrophytic vegetation. ESG R007XY988WA - Wetland Complex ... R007XY988WA – Wetland Complex

**b. Soil isn't wet to the surface.**

1) Site is next to streams and bodies of water with tree vegetation. ESG R007XY720WA - Riparian Complex ... R007XY720WA – Riparian Complex

**2) Site isn't next to streams and bodies of water.**

a) Soils with greater than 35% rock fragments in particle-size control section. R007XY930WA - Loamy Bottom ... R007XY930WA – Loamy Bottom

b) Soils with less than 35% rock fragments. Sites include: ESG R007XY930WA - Loamy Bottom, R007XY402WA - LOAMY BOTTOM 6-10 PZ. ... R007XY930WA – Loamy Bottom

**2 Soils in an upland position.**

**i. Soil with sands, loamy sand or sandy loam surface textures.**

a. Soils with a coarse sand, sand, fine sand or very fine sand surface texture. ESG R007XY140WA - Sands ... R007XY140WA – Sands

**b. Soil texture isn't coarse sand, sand, fine sand or very fine sand for the surface horizon.**

1) Soil with loamy coarse sand, loamy sand, loamy fine sand and loamy very fine sand with carbonates within rooting depth. ESG R007XY449WA - Sandy ... R007XY449WA – Sandy

2) Soils with sandy loam variations of texture in the surface horizon and without carbonates within rooting depth. ESG R007XY143WA - Sandy Loam ... R007XY143WA – Sandy Loam

**ii. Soil with texture finer than sandy loam.**

**a. Site with north aspect and higher elevations.**

1) Soil with greater than 35 percent rock fragments in particle-size control section. ESG R007XY153WA - Cool Loamy ... R007XY153WA – Cool Loamy

2) Soil with less than 35 percent rock fragments. ESG R007XY153WA - Cool Loamy ... R007XY153WA – Cool Loamy

**b. Sites at lowest elevations in driest and hottest portions of MLRA with south aspect.**

1) Soil with greater than 35 percent rock fragments in particle-size control section. ESG R007XY120WA - Stony ... R007XY120WA – Stony

2) Soil with less than 35 percent rock fragments. ESG R007XY163WA - Dry Loamy ... R007XY163WA – Dry Loamy

**c. Site not as above.**

1) Soil with rock fragment content greater than 35%. ESG R007XY120WA - Stony ... R007XY120WA – Stony

2) Soil with rock fragment content less than 35%.

a) Soil with carbonates within rooting depth. ESG R007XY193WA ... R007XY193WA – Calcareous Loam

b) Soil without carbonates within rooting depth. ESG R007XY130WA - Loamy ... R007XY130WA – Loamy