Major Land Resource Area 011X
Snake River Plains

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Ecological site keys

MLRA 11XY Snake River Plains MLRA Wide Key

I. Site occurs on uplands.

A. Slopes greater than 30% on southerly aspects.

1 Soils derived from granite.

i. Site occurs in 8-12" PZ and elevations are 2000 to 3000 ft. Soils are very coarse phases of sandy loam or gravelly sandy loam and are moderately deep. ... R011XY018ID – South Slope Granitic 8-12 PZ ARTRT/PSSPS

2 Soils not derived from granite.

i. Site occurs in 10-12" PZ and elevations are 2300 to 3500 ft. Soils are moderately deep loams and gravelly loams. Gravels and stones may be present throughout the profile but do not affect kind and amount of vegetation. ... R011XY008ID – South Slope 10-12 PZ

ii. Site occurs in 8-12" PZ and elevations of 3200 to 5400 ft. The site occurs on convex slopes on canyon sides. Soils are moderately deep to deep loams above unconsolidated or hard lacustrine sediments. ... R011XY021ID – South Slope Stony 8-12 PZ ARTRW8/PSSPS

B. Slopes less than 30% on all aspects (non-aspects).

1 Soils are non-stony.

i. Soil depth is moderately deep to deep, greater than 20".

a. Site occurs in 8-12" PZ and elevations of 2500 to 5000 ft. The site occurs on nearly level rolling plains, terraces, fans, ridges, and valley floors. Soils are loamy with few or no stones. ... R011XY001ID – Loamy 8-12 PZ

b. Site occurs in 7-10" PZ and elevations of 2300 to 5000 ft. The surface texture is silty loam and may be high in volcanic glass. Site is very deep over gravels or bedrock. ... R011XY009ID – Silty 7-10 PZ KRLA2/ACHY

c. Site occurs in 7-10" PZ and elevations of 2400 to 4800 ft. The site occurs on silty alluvial deposit areas, most often at the base of fans. Soils are deep silt loams over gravels or bedrock. They are saline. ... R011XY013ID –

Saline Silty 7-10 PZ ATNU2/ACHY

d. Site occurs in 8-12" PZ and elevations of 2000 to 3500 ft. The site is associated with stabilized sand dunes that occur in the lower Snake River plains. Soils are sand and loamy sand. ... R011XY011ID – Sand 8-12 PZ ARTRT/ACHY

e. Site occurs in 7-10" PZ and elevations of 2300 to 5200 ft. The site associated with fan piedmonts, lava plains, plug domes, calderas, and shield volcanoes. Soils have either a cemented pan, strongly contrasting texture or high lime concentration within 8-16" which limits rooting depth. the surface texture is generally gravelly loam. ... R011XY010ID – Calcareous Loam 7-10 PZ ATCO-PIDE4/ACHY-ACTH7

f. Site occurs in 8-12" PZ and elevations of 2500 to 4800 ft. This site is associated primarily with the Snake River lacustrine deposits but extends up into the adjacent rhyolite hills. The surface texture is sandyl oam with few or no surface stones. ... R011XY014ID – Sandy Loam 8-12 PZ ARTRW8/ACHY-HECOC8

ii. Soil depth is shallow, Less than or equal to 20"

a. Site occurs in 8-12" PZ and elevations of 2300 to 4500 ft. The site occurs on nearly level to gently rolling plains, terraces, alluvial fans, and low ridges. Shallow to hardpan or bedrock. Soils are silt loam to loam surface textures and maybe stony. They are formed from loess or silty alluvium. ... R011XY004ID – Shallow Loamy 8-12 PZ

b. Site occurs in 8-12" PZ and elevations of 2600 to 4800 ft. The site occurs on old alluvial plains and terraces in the dissected Snake River plains. Soils are very stony to extremely stony loams, silt loams, and sandy clay loams over fractured basalt. A duripan often occurs in the profile. ... R011XY012ID – Shallow Stony 8-10 PZ ARAR8/ACTH7-SPCR

2 Soils are stony or gravelly.

i. Site occurs in 10-12" PZ and elevations of 2000 to 3500 ft. It occurs on nearly level to moderately sloping plains, foothills, and terraces. Soils are extremely stony silt loam to clay loam. ... R011XY005ID – Stony 10-12 PZ

ii. Site occurs in 10-12" PZ and elevations of 2300 to 4000 ft. Soils are very gravelly clay loams formed in coarse textured alluvium on dissected terraces, plains and rolling hills. ... R011XY007ID – Gravelly 10-12 PZ

II. Site occurs on bottomlands (slopes less than 5%).

A. Site is poorly drained.

1 Water standing at or above surface into late summer. ... R011XY028ID – Marsh TYLA-SCAC3

2 Water is near the surface at the beginning of the growing season and down to

10-20" at the end of the growing season. ... R011XY027ID – Wet Meadow Carex-Juncus

3 Water is near the surface at the beginning of the growing season and down to 20-40" at the end of the growing season. ... R011XY019ID – Meadow DECA18-CANE2

4 Water is near the surface at the beginning of the growing season and greater than 40" at the end of the growing season. ... R011XY020ID – Dry Meadow POSE-PHAL2

B. Site is well drained.

1 Site is saline.

i. Site occurs in 8-12" PZ and elevation of 2300 to 3500 ft. The site is associated with the Snake River Lacustrine deposits and occurs along drainageways and low lying bottoms where salts accumulate. Soils are deep, well drained sandy loams or loams. Soils are saline or alkaline and have a water table below 6 feet. ... R011XY002ID – Saline Bottom 8-12 PZ

2 Site is not saline.

i. Site occurs in 8-14" PZ and elevation of 2500 to 6500 ft. The site occurs on floodplains, drainageways, and valleys. Soils are deep, well drained loams, sandy loams, fine sandy loams, and silt loams. ... R011XY015ID – Loamy Bottom 8-14 PZ ARTRT/LECI4