

# Major Land Resource Area 012X

## Lost River Valleys and Mountains

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### Ecological site keys

#### MLRA 12 MLRA Wide Key

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##### I. Site occurs on uplands

###### A. Slopes greater than 30% on northerly aspects.

1 Soils are deep and loamy. Site occurs in 12-16" PZ at 6500-9000 ft. ... R012XY048ID – North Slope Deep Loamy 12-16 PZ ARTRV/FEID

2 Soils are generally moderately deep. Site occurs in 12-16" PZ at 5300-9000 ft. elevation. ... R012XY010ID – North Slope Loamy 12-16 PZ ARTR4/FEID

###### B. Slopes greater than 30% on southerly aspects.

1 Site occurs in 8-12" PZ at 4500-7000 ft. elevation. Soils are gravelly and extremely gravelly loams over fractured bedrock. Soils range from shallow to deep. ... R012XY017ID – Shallow Fractured South 8-12 PZ ARTRW8/PSSPS-LESAS2

2 Site occurs in 12-16" PZ at 5000-7500 ft. elevation. Soils have very cobbly clay loam or clay surfaces. Depth to bedrock or claypan is usually 16-30". ... R012XY029ID – Clayey South Slope 12-16 PZ ARAR8/PSSPS

###### C. Slopes generally less than 30% on all aspects.

###### 1 Soils are affected by salts (saline).

i. Site occurs in <8" PZ on slopes less than 5%. Elevation ranges from 4700-5800 ft. Soils are deep and well drained. Textures are loams to very gravelly loams. ... R012XY003ID – Saline Flat <8 PZ ATGA/ACHY

ii. Site occurs in 7-9" PZ on slopes from 0-30%. Elevation ranges from 4800-7000 ft. Soils are deep and well drained. Textures are gravelly loams to extremely gravelly loams. ... R012XY009ID – Saline Gravelly 7-9 PZ ATCO/ACHY-HECOC8

iii. Site occurs in 8-11" PZ on slopes less than 10%. Elevation ranges from 5000-6500 ft. Soils are deep and well drained. Textures are loams to extremely gravelly loams. ... R012XY018ID – Saline Loamy 8-11 PZ SAVE4/LECI4

###### 2 Soils not affected by salts.

###### i. Soils have clayey subsoils.

a. Site occurs in 7-10" PZ with slopes from 1-10%. Elevation ranges from 4000-6000 ft. Depth to claypan is 8-14". ... R012XY036ID – Clayey 7-10 PZ ARTRW8-ATCO/PSSPS

b. Site occurs in 12-16" PZ with slopes less than 30%. Elevation ranges from 4800-6500 ft. Depth to duripan or bedrock is 20-40". ... R012XY034ID – Clayey 12-16 PZ ARARL/FEID

c. Site occurs in 13-16" PZ with slopes from 5-30%. Elevation ranges from 6500-8500 ft. Depth to clay horizon is 3-10". ... R012XY020ID – Clayey 13-16 PZ ARAR8/FEID

###### ii. Site is above 7500 ft. in a subalpine environment.

a. Soils are shallow. ... R012XY025ID – Shallow Subalpine 16+ PZ ARART/FEID

b. Soils are moderately deep to deep. ... R012XY024ID – Subalpine Slope Loamy 20+ PZ ARTRS2/FEID

iii. Site is below 7500 ft. elevation in a semi-arid environment.

a. Soils are influenced by limestone.

1) Slopes always less than 30% slope.

a) Soils are shallow. ... R012XY007ID – Shallow Gravelly Loam 8-12 PZ ARAR8/PSSPS-ACHY

b) Soils are shallow to hardpan or deep. Gravels can exceed 60% volume below 12" thus exert a shallow soil influence ... R012XY002ID – Gravelly Loam 12-16 PZ ARAR8/PSSP6-FEID

c) Soils are moderately deep to deep. ... R012XY032ID – Loamy 8-12 PZ ARTRW8/PSSPS

2) Slopes can be greater than 30%.

a) Site is below 13" PZ. ... R012XY001ID – Limy Gravelly 8-13 PZ ARNO4/PSSPS

b) Site is in 12-20" PZ. ... R012XY015ID – Steep Limestone 12-20 PZ CELE3/PSSPS-FEID

b. Soils not influenced by limestone.

1) Site at or below 8" PZ.

a) Slopes usually 0-3%. ... R012XY013ID – Playa <8 PZ KRLA2/ACHY

b) Slopes range from 10-75%. ... R012XY019ID – Fragile Lands <8 PZ ATCO/LESAS2

2) Site usually within 8-12" PZ.

a) Soils are deep to very deep.

(1) Site occurs on alluvial fans and terraces. ... R012XY030ID – Loamy 7-10 PZ ARTRW8/POSE

(2) Soil surface is gravelly. ... R012XY004ID – Gravelly Loam 8-12 PZ ARTRW8/PSSPS

(3) High coarse fragments throughout soil profile. Colder temperature. ... R012XY040ID – Cold Gravelly 8-12 PZ ARNO4/HECOC8

b) Soils are shallow to moderately deep.

(1) High coarse fragments throughout soil profile. ... R012XY041ID – Gravelly 7-10 PZ ATCO/SPCR

(2) Shallow to heavy clay layer. ... R012XY026ID – Dry Loamy 7-10 PZ ATCO-ARFR4/PSSPS

(3) Site occupies the windswept portion of the ridgetop or mountain slope. ... R012XY006ID – Windswept 8-16 PZ ARFR4/POSE

(4) Site occurs on rocky and stony bedrock outcrops. ... R012XY022ID – Shallow Breaks 8-13 PZ JUOS/ARNO4/PSSPS

3) Site in the 12-16" PZ.

a) Soils are gravelly. ... R012XY008ID – Gravelly 13-16 PZ ARTR4/PSSPS-FEID

b) Soils are loamy. ... R012XY012ID – Loamy 12-16 PZ ARTRV/FEID-PSSPS

4) Site in the 16-22" PZ.

a) Soils are deep loams to gravelly loams. ... R012XY021ID – Loamy 16-22 PZ ARTRV/FEID

b) Soils are loamy and acidic. ... R012XY037ID – Ceanothus Thicket 16-22 PZ CEVE

II. Site occurs on bottomlands (slopes less than 8%). Water table is seasonal.

A. Site occurs at 4700-6800 ft elevation on 1-15% slopes. Soils are deep and well drained. Textures are loam and gravelly loam. ... R012XY011ID – Alluvial Bottom 8-13 PZ ARTRT/ELLAL-LECI4

III. Site occurs on bottomlands (slopes less than 8%). Water table present for most of the growing season.

A. Water standing at or above the surface into late summer. ... R012XY047ID – Marsh TYLA-SCAC3

B. Water at or near the surface at beginning of growing season and down to 10-20" at the end of the growing season. ... R012XY046ID – Wet Meadow Carex-Juncus

C. Water at or near the surface at beginning of growing season and down to 20-40" at the end of the growing season. ... R012XY038ID – Meadow DECA18/CANE2

D. Water at or near the surface at beginning of the growing season and greater than 40" at the end of the growing season. ... R012XY023ID – Dry Meadow PONE3-PHAL2

E. Permanent water table at 12" or less. Site occurs on linear to concave areas on floodplains. ... R012XY045ID – Riparian Wet Meadow Salix/Carex