Major Land Resource Area 024X Humboldt Basin and Range Area

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Ecological site keys

Lacustrine influenced basins and playas

- I. Soil characterized by a typic aridic soil moisture regime. These soils have physical and chemical properties that keep them dry throughout the year. There is little to no leaching and salts accumulate in the soil profile.
 - A. Soil characterized by water table within 100cm of surface (somewhat poorly or poorly drained soils).
 - 1 Soils are poorly drained.
 - i. Soils, relative to RXY024XY002OR, have more of an ability to provide water to plants (higher available water capacity). ... R024XY009NV SALINE MEADOW
 - ii. Soils, relative to RXY024XY009NV, have less of an ability to provide water to plants (lower available water capacity). ... R024XY002OR SODIC MEADOW 6-10 PZ
 - iii. Salt-affected near the surface of floodplains ... R024XY063NV SALINE FLOODPLAIN
 - 2 Soils are typically somewhat poorly drained.
 - i. Site is typically in elevations greater than or equal to 5000 feet. ... R024XY008NV SODIC FLAT 8-10 P.Z.
 - ii. Site is typically in elevations below 5000 feet.
 - a. Compared with R025XY015NV, this site typically has a longer duration of flooding. More study on soil moisture is needed. ... R024XY011NV SODIC FLAT 6-8 P.Z.
 - b. Compared with R024XY011NV this site has a briefer duration of flooding. More study on soil moisture is needed. ... R024XY015NV DEEP SODIC FAN
 - c. Compared with R024XY011NV and R024XY015NV the soil profile is potentially wetter longer, higher in the profile to make the site unfavorable for Basin wildrye. ... R024XY114OR SODIC LAKE TERRACE
 - B. Soils are well, somewhat excessive, or excessively drained (no water table within 150cm of soil surface).
 - 1 Soil sandy throughout, water removed from soil rapidly
 - i. Sodium adsorption ratio (SAR) below 100cm greater than 13 ... R024XY055NV SANDY 5-8 P.Z.
 - ii. Sodium adsorption ratio (SAR) less than 13 throughout ... R024XY066NV SODIC DUNES
 - iii. SAR over 45, thin layer of loess ... R024XY041NV GRAVELLY FAN
 - 2 Soil not sandy throughout, water removed from the soil readily but NOT rapidly
 - iv. Soil typically has a fine-silty or fine particle size class (have a small percentage of fine sands or coarser including fragments up to 7.5 cm in diameter).
 - a. Primary shrub is sickle saltbush. An abiotic factor determining why the dominance of sickle saltbush is pending. ... R024XY012NV SALINE TERRACE 6-8 P.Z.
 - b. Dominant shrub is Shadscale saltbush followed by greasewood as a second dominant shrub. Abiotic factor to differentiate the dominance compared to R024XY013OR is pending. ... R024XY003NV SODIC TERRACE 6-8 P.Z.
 - c. Dominant shrub is greasewood. Second dominant shrub is Shadscale saltbush. Abiotic factor to differentiate the dominance compared to R024XY0003NV is pending. ... R024XY013OR LOW SODIC TERRACE 6-10 PZ

- d. Dominant shrub is greasewood. Second dominant shrub is Shadscale saltbush. Abiotic factor to differentiate the dominance compared to R024XY0003NV is pending. This site is very similar (if not the same as) R024XY013OR ... R024XY120OR SILTY LOW SODIC TERRACE 6-10 PZ
- v. Soils at site typically have less than 18 percent clay in the subsoil and greater than 15 percent fine sand or coarser including fragments up to 7.5 cm in diameter (coarse-loamy or coarse-silty). ... R024XY067NV SHALLOW SILTY 5-8 P.Z.
- II. Soil characterized by an aridic bordering on xeric soil moisture regime. These soils experience brief periods of moisture in the soil profile typically when plants are dormant. Leaching is minimal and salts may accumulate in the soil profile.
 - A. Soils are moderately well to excessively drained.
 - 1 Soil sandy throughout, water removed from soil rapidly ... R024XY001NV DUNES 6-10 P.Z.
 - 2 Soil not sandy throughout, water removed from the soil readily but NOT rapidly
 - i. Soil sodium effected in surface expressed by supporting greasewood and other salt tolerant species and high pH in the 9s.
 - a. Soils at this site are mesic (warmer compared to R024XY625OR and R024XY645OR). ... R024XY022NV SODIC TERRACE 8-10 P.Z.
 - b. Soils at this site are mesic (warmer compared to R024XY625OR and R024XY645OR). ... R024XY014OR SODIC TERRACE 6-10 PZ
 - c. Temperature regime of the soils at this site are frigidcolder compared to R024XY022NV and R024XY014OR. ... R024XY625OR ALKALINE BASIN 8-10 PZ
 - d. Temperature regime of the soils at this site are frigid (colder compared to R024XY022NV and R024XY014OR). Soils at this site may experience brief periods of ponding and are more productive relative to the other sites that drop out at the same spot in the key. ... R024XY645OR SILTY ALKALINE BOTTOM 8-10 PZ
 - ii. Soil not strongly sodium effected (can support Wyoming and basin sagebrush).
 - a. Soil typically has greater than 35 percent clay in the subsoil (is fine textured or ashy). ... R024XY008OR CLAYEY PLAYETTE
 - b. Soil typically has less than 35 percent clay in the subsoil (has a fine-loamy or coarse-loamy particle size).
 - 1) Site is typically at elevations below 4000 feet. ... R024XY010OR ARID BASIN 6-10 PZ
 - 2) Site is typically at elevations above 4000 feet.
 - a) Soil at this site typically does not have a clay layer (argilllic horizon).
 - (1) pHs typically do not go above 8.8 in the soils at this site.
 - (a) Soils at this site are typically on inset fans. ... R024XY004OR DRY FLOODPLAIN 6-10 PZ
 - (b) Soils at this site are typically on lake terrace landforms. ... R024XY121OR SILTY SODIC TERRACE 6-10 PZ
 - (c) Soils at this site are typically on lakebed landforms. ... R024XY609OR DROUGHTY BOTTOM 6-10 PZ
 - (2) pH typically ranges into the 9's at depth for the soil at this site. ... R024XY113OR SODIC FAN 6-10 PZ
 - b) Soil at this site typically has a clay layer (argillic horizon). ... R024XY019OR SILT LOAM TERRACE 8-11 PZ
 - 3 Soils may have brief or occasional ponding. ... R024XY007OR DRY PONDED CLAY 6-10 PZ
 - B. Soils are somewhat poorly or poorly drained
 - 1 Soil is characterized by periodic saturation (moisture regime not aquic). See also R024XY608OR.
 - i. Site is typically on depressional lake beds. ... R024XY006OR LAKE TERRACE
 - ii. Site is typically on floodplains and inset fans. ... R024XY006NV DRY FLOODPLAIN
 - iii. Site is typically on terraces of floodplains and alluvial fans. ... R024XY608OR ARID BOTTOM 6-10

- 2 Soil characterized by continuous saturation (aquic soil moisture regime).
 - i. Soil characterized by a mollic epipedon
 - a. Seasonal water table less than 30cm from soil surface ... R024XY043NV WET MEADOW 6-8 P.Z.
 - b. Seasonal high water table greater than 30cm from soil surface ... R024XY064NV SODIC BOTTOM
 - ii. Soil characterized by an ochric epipedon
 - a. Soil characterized by greater than 35 percent clay in the particle size control section (clayey, fine, smeticitic classification). See also R024XY044NV. ... R024XY010NV SODIC FLOODPLAIN
 - b. Soil characterized by less than 35 percent clay in the particle size control section (soil not clayey or fine)
 - 1) water table 71 to 100cm from the soil surface ... R024XY007NV SALINE BOTTOM
 - 2) water table 36 to 100cm, soil characterized by longer duration saturation above 50cm ... R024XY009NV SALINE MEADOW
 - iii. Soil has a histic epipedon. Soil saturated at or near the surface year round. ... R024XY127NV Lakeshore Marsh
- III. Soils at these sites have an aquic moisture regime (typically too moist to support most desert shrubs). ... R024XY127NV Lakeshore Marsh