Major Land Resource Area 077B Southern High Plains, Northwestern Part

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Ecological site keys

MLRA 77B ES Key

- I. Site that receives significant additional moisture from runoff of adjacent slopes or intermittent/perennial streams or a water table
 - A. Site moderately to strongly saline (>8mmhos/cm) within 20" (50cm) and dominated by salt tolerant species ... R077BY058NM Saline
 - B. Site not saline
 - 1 Loamy soils with fluctuating water table 1 to 4 feet below the surface for most of the growing season ... R077BY008NM Meadows
 - 2 Site not as above
 - i. Soil Sandy at surface, <18% clay in the top 10"(25cm) ... R077BY700TX Sandy Bottomland 12-17" PZ
 - ii. Soil Loamy at surface, 18-35% clay in the top 10"(25cm)
 - a. Loamy soils with additional summer monsoonal moisture, elevation approximately 4000 feet or less ... R077BY725TX Draw 12-17" PZ
 - b. Loamy soils without additional summer monsoonal moisture, elevation approximately 4000 feet or more ... R077BY007NM Swales
- II. Site does NOT receive additional moisture from runoff
 - A. Soils are very shallow (<10"(25cm) to root restricting layer
 - 1 Soils highly calcareous (>15% CCE within top 20" (50cm))
 - i. Soil depth shallow (10-20" (25-50cm)) OR moderately deep to deep (>20" (>50cm), skeletal (>35% coarse fragments by volume in top 20" (50cm")) ... R077BY031NM Shallow
 - 2 Soil NOT highly calcareous (>15% CCE within top 20"(50cm))
 - i. Soils very shallow(<10" (25cm)), but may include areas of exposed bedrock and pockets of deep soil ... R077BY016NM Very Shallow
 - ii. Soil depth shallow to sandstone bedrock(10-20" (25-50cm)) OR moderately deep to deep (>20" (>50cm), skeletal (>35% coarse fragments by volume in top 20" (50cm")) ... R077BY005NM Shallow Sandstone
 - B. Soil depth moderately deep to deep (>20" (50cm)) without root restricting layer that inhibits the productivity potential
 - 1 Soils affected by chemistry
 - i. Site moderately to strongly saline (>8mmhos/cm) within 20" (50cm) and dominated by salt tolerant species ... R077BY019NM Salt Flats
 - ii. Soils highly calcareous (>15% CCE) violent effervescence
 - a. High lime content soils with additional summer monsoonal moisture, elevation approximately 4000 feet or less ... R077BY016TX Limy Upland 12-17" PZ
 - b. High lime content soils without additional summer monsoonal moisture, elevation approximately 4000 feet or more, site commonly occurs on the leeward side of playa lakes and sideslopes of draws ... R077BY011NM High Lime

- c. High lime content soils with additional summer monsoonal moisture, elevation approximately 4000 feet or less, site commonly occurs on the leeward side of playa lakes and sideslope of draws ... R077BY722TX High Lime 12-17" PZ
- d. Loamy site with Calcic horizon at 20 inches ... R077BY034NM Deep Loamy Plains
- e. Sandy soils with Calcic horizon at 20 inches ... R077BY028NM Sandy Plains
- 2 Soils NOT affected by chemistry
 - i. Soils are loamy texture
 - a. Loamy site above about 4000 feet elevation ... R077BY033NM Loamy
 - b. Loamy site below about 4000 feet elevation ... R077BY014TX Deep Hardland 12-17" PZ
 - ii. Soils are sandy texture at the surface
 - a. Deep sandy soils, elevation approximately 4500 feet or more, site does not have significant additional summer monsoonal moisture from convection ... R077BY035NM High Sandy Loam
 - b. Deep sandy soils, elevation approximately 4500 feet or less, site has significant additional summer monsoonal moisture from convection storms
 - 1) loamy fine sand ... R077BY658TX Sandy 12-17" PZ
 - 2) Fine Sand ... R077BY020TX Sand Hills 12-17" PZ
 - 3) Sandy Loam ... R077BY021TX Sandy Loam 12-17" PZ