Major Land Resource Area 058D Northern Rolling High Plains, Eastern Part

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Ecological site keys

MLRA 058D - Northern Rolling High Plains East. (Run-off, Normal, Run-in, and Other Landscape Positions)

- I. RUN-OFF LANDSCAPE POSITIONS (Upland, normally convex short slopes > 6 percent, Shoulder)
 - A. Dig hole to a depth of 20 inches minimum. Is there a root restrictive layer within 10 inches of the soil surface?
 - 1 Yes. ... R058DY016SD Very Shallow
 - 2 No. Is there a root restricting layer within 10-20 inches of the surface?
 - i. Yes. Is the soil derived from shale with weathered shale chips below 4" in the soil profile and the soil is calcareous? Clayey surface texture (2-3" ribbon)?
 - a. Yes. ... R058DY017SD Shallow Clayey
 - b. No. Is the soil surface 10 to 20 inches with a Clay loam, Silty clay loam, Sandy clay loam or Silty texture (1-1.5" ribbon)?
 - 1) Yes. Shallow ... R058DY024SD Shallow Loamy
 - 2) No. Sandy loam or Loamy sand texture (0.25-0.5" ribbon)?
 - a) Yes. ... R058DY028SD Shallow Sandy
 - ii. No. Is the soil > 20 inches in depth with a thin surface layer (< 3") and effervesce at or near the surface (within 6 inches)?
 - a. Yes.
 - 1) With Loam, Silt loam, Silty, Clay Loam, Sandy clay loam, Very fine sandy loam surface texture ... R058DY012SD Thin Loamy
 - 2) With Sandy loam, Fine sandy loam, Loamy very fine sand ... R058DY026SD Thin Sandy
 - b. No. Is the soil sandy with gravelly subsurface and contains cobbles and stones to the surface?
 - 1) Yes. ... R058DY029SD Stony Hills
 - 2) No. Is the soil very sandy with slopes >15 percent, commonly with blowouts?
 - a) Yes. ... R058DY030SD Choppy Sands
 - b) No. See "Normal Landscape Positions"
- II. NORMAL LANDSCAPE POSITIONS in Both Precipitation Zones (Upland, slopes normally linear, 1-6 percent except Sandy/Sands sites can have complex slopes up to 15 percent, Backslope, Summit, Footslope)
 - A. Dig hole to 20 inches. Are there visible salts within 16 inches of the surface?
 - 1 Yes. Is there a claypan within 16 inches of the surface?
 - i. Yes. See "Other Landscape Positions"
 - 2 No. What is the surface and subsoil texture?
 - i. Clay or Silty Clay (40 to 55% clay) Surface (1.75 3.0" ribbon) with Clayey Subsoil?
 - a. Yes.
 - b. No. Loam, Silt loam, Silty, Clay Loam, Sandy clay loam, Very fine sandy loam (0.5 1.75" ribbon)?
 - 1) Yes. Is the site an old stream terrace?
 - a) No. ... R058DY010SD Loamy

- b) Yes. ... R058DY022SD Loamy Terrace
- 2) No. Sandy loam, Fine sandy loam, Loamy very fine sand (0.25-0.5" ribbon)?
 - a) Yes. Is the site a low stream terrace?
 - (1) No. ... R058DY009SD Sandy
 - (2) Yes. ... R058DY031SD Sandy Terrace
 - b) No. Sand, Fine sand, Loamy fine sand, Loamy sand 1 (no ribbon) and with slopes <16 percent?
 - (1) Loamy fine sand, and Loamy sand have a surface textures with a mollic epipedon (dark colored surface at least 10 inches thick Mollisol) ... R058DY008SD Sands
 - (2) Yes. Sand, Fine sand, Loamy fine sand, Loamy sand; no mollic epipedon epipedon ... R058DY009SD Sandy
- III. RUN-IN LANDSCAPE POSITIONS (Bottomlands, Drainageways, etc., not depressions, Toe slope)
 - A. Observe the soil profile to a depth of 60 inches. Is there evidence of a permanent water table within 1-2 feet of the surface and the site is dominated by hydrophytes?
 - 1 Yes. ... R058DY002SD Wet Land
 - 2 No. Does water flow into and over/through the site?
 - i. No. See "Other Landscape Positions"
 - ii. Yes. Are there visible salts within 16 inches of the surface and permanently moist soil at 4 to 5 feet?
 - a. Yes. ... R058DY007SD Saline Lowland
 - b. No. Does the site occasionally flood?
 - 1) Yes, loamy textures. ... R058DY020SD Loamy Overflow
 - 2) Yes, clayey textures. ... R058DY021SD Clayey Overflow
 - 3) Site does not occasionally flood, go to "Other Landscapes".
- IV. OTHER LANDSCAPE POSITIONS (Basin, Depression, Normal, Run-off and/or Run-in, All Hillslope Positions except Shoulder)
 - A. Dig a hole to 20 inches. Does the soil have a claypan within 16 inches?
 - 1 Yes. Is it in a closed depression?
 - i. No. Is the claypan within 4 inches of the surface?
 - a. Yes. ... R058DY015SD Thin Claypan
 - b. No.
 - 1) Claypan is deeper than 4 inches ... R058DY013SD Claypan
 - 2) If surface texture is sandy ... R058DY027SD Sandy Claypan
 - ii. Yes. ... R058DY019SD Closed Depression
 - 2 No. Is the area in a basin or closed depression with no outlet?
 - i. No. Re-think your Landscape Position and start again.
 - ii. Yes. Does the site pond water for 4 to 8 weeks in the spring or after heavy rain and have a high organic matter content?
 - a. Yes. ... R058DY004SD Wet Meadow
 - b. No. Does the site pond water briefly after snowmelt or heavy rain or during abnormally wet years?
 - 1) Yes. ... R058DY019SD Closed Depression