

Major Land Resource Area 058B

Northern Rolling High Plains, Southern Part

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Ecological site keys

MLRA 58B Ecological Site Key 10-14

I. Lowland sites receiving additional run-off moisture from adjacent slopes or flooding from overflow of adjacent streams

A. Sites that are saline and/or alkaline; dominated by salt tolerant species

1 Site with water table within rooting depth (20-40 inches) of herbaceous species during a majority of the growing season; nearly level bottomlands adjacent to streams, springs, and ponds ... R058BY142WY – Saline Subirrigated (SS) 10-14" PZ

2 Site with water table usually >3 feet (within rooting depth of woody plants, but not within rooting depth of herbaceous plants); saline and/or sodic conditions apparent on the soil surface ... R058BY138WY – Saline Lowland (SL) 10-14" PZ

B. Sites that are not saline and/or alkaline

1 Site is poorly drained with water table occurring above soil surface during part of the growing season ... R058BY178WY – Wetland (WL) 10-17" PZ

2 Site with water table within rooting depth of herbaceous species (typically above 20 inches) during part of the growing season ... R058BY174WY – Subirrigated (Sb) 10-17" PZ

3 Site occurs adjacent to intermittent/perennial streams, and water table is usually >3 feet (within rooting depth of woody plants, but not within rooting depth of herbaceous plants); gravel bars often present ... R058BY128WY – Lowland (LL) 10-14" PZ

4 Site receives periodic overflow from adjacent slopes, but without a water table within rooting depth of woody plants ... R058BY130WY – Overflow (Ov) 10-14" PZ

5 Site similar to Overflow with heavier textured soils (finer portions of silty clay loams, sandy clay loams, clay loams) ... R058BY106WY – Clayey Overflow (CyO) 10-17" PZ

II. Upland sites that are very shallow (<10 inches) or shallow (10-20 inches)

A. Soils are very shallow (<10 inches) but may include areas of exposed bedrock and pockets of deep soil; often occurring on steep south and west aspects

1 Site occurs commonly on windswept ridges, fractured bedrock of various types, and steep slopes ... R058BY176WY – Very Shallow (VS) 10-17" PZ

B. Soils are shallow (10-20 inches) but may include moderately deep to deep (>20 inches) gravelly or cobbly soils, soils with a root restrictive layer; occurs on nearly level to steep slopes, and/or south and west aspects

1 Site with silty clays or heavier textured soils or root restricting clay subsoil layer with coarse to fine textures above; occurs on slopes and ridgetops ... R058BY158WY – Shallow Clayey (SwCy) 10-14" PZ

2 Site with fine sandy loams or coarser textured soils over sandstone on nearly level to steep slopes ... R058BY166WY – Shallow Sandy (SwSy) 10-14" PZ

3 Site with very fine sandy loams to clay loam textures over sedimentary bedrock; generally occurs on nearly level to steep slopes and ridgetops ... R058BY162WY – Shallow Loamy (SwLy) 10-14" PZ

III. Upland sites that are moderately deep to deep (>20 inches)

A. Sites that are saline and/or alkaline

1 Site with soils that are moderately to strongly saline; occurs on nearly level to moderately slopes ... R058BY144WY – Saline Upland (SU) 10-17" PZ

B. Sites that are not saline and/or alkaline

1 Sites contains soils with >35 percent clay; clayey subsoil with blocky or prismatic structure ... R058BY104WY – Clayey (Cy) 10-14" PZ

2 Sites with soil textures from fine sandy loam and sandy loam, to loamy sand and loamy fine sand ... R058BY150WY – Sandy (Sy) 10-14" PZ

3 Site with very coarse soil textures (loamy sand to sand); gently undulating lands; sometimes occurs as dunes ... R058BY146WY – Sands (Sa) 10-14" PZ

4 Site contains soils with <35 percent clay; soil textures are clay loam to very fine sandy loam; occurs on gently undulating rolling land ... R058BY122WY – Loamy (Ly) 10-14" PZ

MLRA 58B Ecological Site Key 15-17

I. Lowland sites receiving additional run-off moisture from adjacent slopes or flooding from overflow of adjacent streams

A. Sites that are not saline and/or alkaline

1 Site is poorly drained with water table occurring above soil surface during part of the growing season ... R058BY178WY – Wetland (WL) 10-17" PZ

2 Site with water table within rooting depth of herbaceous species (typically above 20 inches) during part of the growing season ... R058BY174WY – Subirrigated (Sb) 10-17" PZ

3 Site occurs adjacent to intermittent/perennial streams, and water table is usually >3 feet (within rooting depth of woody plants, but not within rooting depth of herbaceous plants); gravel bars often present ... R058BY228WY – Lowland (LL) 15-17" PZ

II. Upland sites that are very shallow (<10 inches) or shallow (10-20 inches)

A. Soils are very shallow (<10 inches) but may include areas of exposed bedrock and pockets of deep soil; often occurring on steep south and west aspects

1 Site occurs commonly on windswept ridges, fractured bedrock of various types, and steep slopes ... R058BY176WY – Very Shallow (VS) 10-17" PZ

B. Soils are shallow (10-20 inches) but may include moderately deep to deep (>20 inches) gravelly or cobbly soils, soils with a root restrictive layer; occurs on nearly level to steep slopes, and/or south and west aspects

1 Site with silty clays or heavier textured soils or root restricting clay subsoil layer with coarse to fine textures above; occurs on slopes and ridgetops ... R058BY258WY – Shallow Clayey (SwCy) 15-17" PZ

2 Site with fine sandy loams or coarser textured soils over sandstone on nearly level to steep slopes ... R058BY266WY – Shallow Sandy (SwSy) 15-17" PZ

3 Site with very fine sandy loams to clay loam textures over sedimentary bedrock; generally occurs on nearly level to steep slopes and ridgetops ... R058BY262WY – Shallow Loamy (SwLy) 15-17" PZ

III. Upland sites that are moderately deep to deep (>20 inches)

A. Sites that are saline and/or alkaline

1 Site with soils that are moderately to strongly saline; occurs on nearly level to moderately slopes ... R058BY144WY – Saline Upland (SU) 10-17" PZ

B. Sites that are not saline and/or alkaline

1 Sites contains soils with >35 percent clay; clayey subsoil with blocky or prismatic structure ... R058BY204WY – Clayey (Cy) 15-17" PZ

2 Sites with soil textures from fine sandy loam and sandy loam, to loamy sand and loamy fine sand ... R058BY250WY – Sandy (Sy) 15-17" PZ

3 Site contains soils with <35 percent clay; soil textures are clay loam to very fine sandy loam; occurs on gently undulating rolling land ... R058BY222WY – Loamy (Ly) 15-17" PZ