

# Major Land Resource Area 060B Pierre Shale Plains, Northern Part

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## Ecological site keys

### MLRA 60B Ecological Site Key

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#### I. Lowland sites receiving significant additional run-off moisture or flooding from overflow of ephemeral streams

- A. Saline and/or sodic conditions are apparent on the soil surface ... GX060B00X571 – Saline Lowland 10-14
- B. Site receives flooding from overflow of ephemeral stream ... GX060B00X060 – Overflow 10-14

#### II. Upland sites affected by saline and/or sodic conditions

- A. Soils are slightly to moderately saline ... GX060B00X095 – Loamy Saline 10-14
- B. Soils are moderately to strongly saline ... GX060B00X093 – Saline Upland 10-14

#### III. Upland sites with soil depths ? 20 inches

##### A. Soil surface texture is loam or silt loam; ? 32% clay

- 1 4-8 inch loamy soil surface texture over dense claypan subsoil ... GX060B00X006 – Claypan 10-14
- 2 1-4 inch loamy soil surface texture over dense claypan subsoil ... GX060B00X165 – Thin Claypan 10-14
- 3 Clay content is ? 32% within surface mineral 4 inches ... GX060B00X032 – Loamy 10-14

##### B. Sites with clayey soil surface texture; > 32% clay

- 1 Clayey subsoil with blocky or prismatic structure ... GX060B00X001 – Clayey 10-14
- 2 Sites with 15-45% slope ... GX060B00X005 – Clayey Steep 10-14
- 3 Clay content > 45% within surface mineral 2 inches ... GX060B00X010 – Dense Clay 10-14
- 4 Soils with course granular clays (typically acid shales) ... GX060B00X007 – Coarse Clay 10-14

#### IV. Upland sites with soil depths < 20 inches

- A. Loam or silt loam soil surface texture; ? 32% clay ... GX060B00X576 – Shallow 10-14
- B. Clayey soil surface texture over shale or dense clay; > 32% clay ... GX060B00X131 – Shallow Clay 10-14

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### MLRA 60B ESD Key

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#### I. Lowland sites receiving significant additional run-off moisture or flooding from overflow of ephemeral streams

- A. Saline and/or sodic conditions are apparent on the soil surface ... GX060B00X571 – Saline Lowland 10-14

**B. Site receives additional moisture from overflow of ephemeral streams or run-off ... GX060B00X060 – Overflow 10-14**

**II. Upland sites that do not receive any additional moisture beyond precipitation.**

**A. Sites affected by saline and/or sodic conditions**

**1 Soils are slightly to moderately saline ... GX060B00X095 – Loamy Saline 10-14**

**2 Soils are moderately to strongly saline ... GX060B00X093 – Saline Upland 10-14**

**B. Sites not affected by saline and/or sodic conditions**

**1 Upland sites with moderately deep to very deep, soil depths > 20 inches**

**i. Sites with soil surface texture is loam or silt loam; ? 32% clay**

**a. 4-8 inch loamy soil surface texture over dense claypan subsoil ... GX060B00X006 – Claypan 10-14**

**b. 1-4 inch loamy soil surface texture over dense claypan subsoil ... GX060B00X165 – Thin Claypan 10-14**

**c. 1-8 inch loamy soil surface texture not over a dense claypan subsoil ... GX060B00X032 – Loamy 10-14**

**ii. Sites with soil surface texture is clay; > 32% clay**

**a. Sites with soil surfaces from 32-45% clay**

**1) Clayey subsoil with blocky or prismatic structure ... GX060B00X001 – Clayey 10-14**

**2) Sites with 15-45% slope; clayey subsoil with blocky or prismatic structure ... GX060B00X005 – Clayey Steep 10-14**

**b. Sites with soil surface > 45% clay**

**1) Clay content > 45% within 2 inches of soil surface ... GX060B00X010 – Dense Clay 10-14**

**2) Soils with coarse granular clays (typically acid shales) ... GX060B00X007 – Coarse Clay 10-14**

**2 Upland sites that are shallow, soil depths <20 inches**

**i. Loam or silt loam soil surface texture; ? 32% clay ... GX060B00X576 – Shallow 10-14**

**ii. Clay soil surface texture over shale or dense clay; > 32% clay ... GX060B00X131 – Shallow Clay 10-14**