

Nontechnical Soil Descriptions  
Cloud County, Kansas

Nontechnical soil descriptions describe soil properties or management considerations specific to a soil map unit or group of map units, shown in the NonTechnical Descriptions report. These descriptions are written in terminology that Non-technical users of soil survey information can understand. Nontechnical soil descriptions are a powerful tool for creating reports. These high quality, easy to read reports can be generated by conservation planners and other NRCS employees for distribution to land users. Soil map unit descriptions and National Soil Information System records are the basis for these descriptions.

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027CT Crete Silty Clay Loam, 3 To 7 Percent Slopes

Crete soil makes up 83 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping backslope hillslope on upland. The runoff class is high. The parent material consists of silty and clayey loess. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a very high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Upland (pe25-34) range site. It is in the nonirrigated land capability classification 3e.

027EU Eudora Loam, Occasionally Flooded

Eudora soil makes up 85 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Lowland (pe25-34) range site. It is in the nonirrigated land capability classification 2w.

027HE Haynie-Sarpy Complex, Occasionally Flooded

Haynie soil makes up 65 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 30 percent calcium carbonate. This soil is in the Loamy Lowland (pe25-34) range site. It is in the nonirrigated land capability classification 5w.

Sarpy soil makes up 34 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is negligible. The parent material consists of sandy alluvium. This soil is excessively drained. The slowest permeability is rapid. It has a low available water capacity and a low shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Sandy Lowland (pe25-34) range site. It is in the nonirrigated land capability classification 5w.

027HN Hobbs Silt Loam, Channeled

Hobbs soil makes up 93 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on meander belt. The runoff class is low. The parent material consists of fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Lowland (pe25-34) range site. It is in the nonirrigated land capability classification 5w.

089ND Nibson Silt Loam, 5 To 25 Percent Slopes

Nibson soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping to steep hillslope on upland. The runoff class is high. The parent material consists of residuum. The soil is 10 to 20 inches deep to bedrock (paralithic). This soil is somewhat excessively drained. The slowest permeability is moderate. It has a low available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 40 percent calcium carbonate. This soil is in the Limy Upland (pe20-26) range site. It is in the nonirrigated land capability classification 6e.

123AB Armo Loam, 3 To 7 Percent Slopes

Armo soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping hillslope on upland. The runoff class is medium. The parent material consists of calcareous loamy colluvium derived from limestone. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Limy Upland (pe20-26) range site. It is in the nonirrigated land capability classification 3e.

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## 123AC Armo Loam, 7 To 15 Percent Slopes

Armo soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a strongly sloping to moderately steep hillslope on upland. The runoff class is high. The parent material consists of residuum. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Limy Upland (pe20-26) range site. It is in the nonirrigated land capability classification 6e.

## 123HB Harney Silt Loam, 1 To 3 Percent Slopes

Harney soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a gently sloping plain on tableland. The runoff class is medium. The parent material consists of loess. This soil is well drained. The slowest permeability is moderately slow. It has a high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe20-26) range site. It is in the nonirrigated land capability classification 2e.

## 123HE Harney-Mento Silty Clay Loams, 3 To 7 Percent Slopes, Eroded

Harney soil makes up 80 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping plain on tableland. The runoff class is medium. The parent material consists of loess. This soil is well drained. The slowest permeability is moderately slow. It has a high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe20-26) range site. It is in the nonirrigated land capability classification 4e.

Mento soil makes up 20 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping upland. The runoff class is high. The parent material consists of loess. The soil is greater than 60 inches deep to bedrock. This soil is well drained. The slowest permeability is slow. It has a moderate available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil contains a slightly saline horizon. This soil is in the Clay Upland (pe20-26) range site. It is in the nonirrigated land capability classification 4e.

## 123LA Lancaster-Armo Loams, 3 To 7 Percent Slopes

Lancaster soil makes up 70 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping hillslope on upland. The runoff class is low. The parent material consists of residuum. The soil is 20 to 40 inches deep to bedrock (paralithic). This soil is well drained. The slowest permeability is moderate. It has a moderate available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 4e.

Armo soil makes up 30 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping hillslope on upland. The runoff class is medium. The parent material consists of residuum. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Limy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 4e.

## 123NA New Cambria Silty Clay, Rarely Flooded

New Cambria soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a nearly level stream terrace on river valley. The runoff class is medium. The parent material consists of alluvium. This soil is moderately well drained. The slowest permeability is impermeable. It has a moderate available water capacity and a high shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Clay Terrace (pe20-26) range site. It is in the nonirrigated land capability classification 2s.

## 123NC Nibson Soils, 3 To 30 Percent Slopes

Nibson soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping to steep hillslope on upland. The runoff class is medium. The parent material consists of residuum. The soil is 10 to 20 inches deep to bedrock (paralithic). This soil is somewhat excessively drained. The slowest permeability is moderate. It has a low available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 40 percent calcium carbonate. This soil is in the Limy Upland (pe20-26) range site. It is in the nonirrigated land capability classification 6e.

## 123RB Roxbury Silt Loam, Channeled

Roxbury soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a nearly level flood plain on river valley. The runoff class is negligible. The parent material consists of calcareous fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Loamy Lowland (pe20-26) range site. It is in the nonirrigated land capability classification 5w.

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123RC Roxbury Silt Loam, Occasionally Flooded

Roxbury soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a nearly level flood plain on river valley. The runoff class is very low. The parent material consists of calcareous fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Lowland (pe20-26) range site. It is in the nonirrigated land capability classification 2w.

123WA Wakeen Silt Loam, 3 To 7 Percent Slopes

Wakeen soil makes up 100 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping hillslope on upland. The runoff class is medium. The parent material consists of calcareous fine-silty residuum weathered from limestone. The soil is 20 to 40 inches deep to bedrock (paralithic). This soil is well drained. The slowest permeability is moderate. It has a low available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 40 percent calcium carbonate. This soil is in the Limy Upland (pe20-26) range site. It is in the nonirrigated land capability classification 4e.

143EE Edalgo-Hedville Complex, 5 To 30 Percent Slopes

Edalgo soil makes up 60 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping to moderately steep upland. The runoff class is very high. The parent material consists of residuum. The soil is 20 to 40 inches deep to bedrock (paralithic). This soil is well drained. The slowest permeability is very slow. It has a low available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Clay Upland (pe26-30) range site. It is in the nonirrigated land capability classification 6e.

Hedville soil makes up 40 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping to steep backslope hillslope on upland. The runoff class is very high. The parent material consists of loamy residuum weathered from sandstone and shale. The soil is 4 to 20 inches deep to bedrock (lithic). This soil is somewhat excessively drained. The slowest permeability is moderate. It has a very low available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Shallow Sandstone (pe26-30) range site. It is in the nonirrigated land capability classification 6e.

143GE Geary Silt Loam, 1 To 3 Percent Slopes

Geary soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping hillslope, upland. The runoff class is low. The parent material consists of loess. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe25-34) range site. This soil is in the irrigated land capability class 2e. It is in the nonirrigated land capability classification 2e.

143HE Hedville-Rock Outcrop Complex, 5 To 30 Percent Slopes

Hedville soil makes up 70 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping to steep backslope hillslope on upland. The runoff class is medium. The parent material consists of loamy residuum weathered from sandstone and shale. The soil is 4 to 20 inches deep to bedrock (lithic). This soil is somewhat excessively drained. The slowest permeability is moderate. It has a very low available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Shallow Sandstone (pe26-30) range site. It is in the nonirrigated land capability classification 7s.

143HP Hobbs-Geary Silt Loams, 0 To 15 Percent Slopes

Hobbs soil makes up 55 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain. The runoff class is low. The parent material consists of silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a low shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Lowland (pe26-30) range site. It is in the nonirrigated land capability classification 6e.

Geary soil makes up 45 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping to moderately steep upland. The runoff class is high. The parent material consists of loess. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 6e.

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143LA Lancaster Loam, 3 To 7 Percent Slopes

Lancaster soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping hillslope on upland. The runoff class is medium. The parent material consists of residuum. The soil is 20 to 40 inches deep to bedrock (paralithic). This soil is well drained. The slowest permeability is moderate. It has a low available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 4e.

143RO Roxbury Silt Loam, Channeled

Roxbury soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is negligible. The parent material consists of calcareous fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Loamy Lowland (pe26-30) range site. It is in the nonirrigated land capability classification 5w.

157BK Geary-Hobbs Silt Loams, 0 To 30 Percent Slopes

Geary soil makes up 55 percent of the map unit. This map unit is in the Central Loess Plains Major Land Resource Area. This soil occurs on a moderately sloping to steep backslope hillside on upland. The runoff class is very high. The parent material consists of loamy loess. This soil is well drained. The slowest permeability is moderately slow. It has a high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe25-34) range site. It is in the nonirrigated land capability classification 6e.

Hobbs soil makes up 29 percent of the map unit. This map unit is in the Central Loess Plains Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on valley. The runoff class is low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Lowland (pe25-34) range site. It is in the nonirrigated land capability classification 2w.

157CH Crete Silty Clay Loam, 3 To 7 Percent Slopes

Crete soil makes up 75 percent of the map unit. This map unit is in the Central Loess Plains Major Land Resource Area. This soil occurs on a moderately sloping backslope hillside on upland. The runoff class is very high. The parent material consists of silty and clayey loess. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a very high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Upland (pe25-34) range site. This soil is in the irrigated land capability class 3e. It is in the nonirrigated land capability classification 3e.

157ED Eudora Loam, 0 To 2 Percent Slopes, Rarely Flooded

Eudora soil makes up 90 percent of the map unit. This map unit is in the Central Loess Plains Major Land Resource Area. This soil occurs on a nearly level to gently sloping terrace on river valley. The runoff class is low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Terrace (pe25-34) range site. It is in the nonirrigated land capability classification 1.

157KN Kenesaw Silt Loam, 5 To 12 Percent Slopes, Eroded

Kenesaw soil makes up 90 percent of the map unit. This map unit is in the Central Loess Plains Major Land Resource Area. This soil occurs on a moderately sloping to strongly sloping backslope hillside on upland. The runoff class is medium. The parent material consists of silty loess. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 15 percent calcium carbonate. This soil is in the Loamy Upland (pe25-34) range site. It is in the nonirrigated land capability classification 4e.

157SD Inavale Loamy Sand, 3 To 12 Percent Slopes

Inavale soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Central Loess Plains Major Land Resource Area. This soil occurs on a moderately sloping to strongly sloping dune on river valley. The runoff class is very low. The parent material consists of sandy alluvium. This soil is somewhat excessively drained. The slowest permeability is rapid. It has a low available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 3 percent calcium carbonate. This soil is in the Sandy Lowland (pe20-26) range site. It is in the nonirrigated land capability classification 6e.

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201CG Cass Fine Sandy Loam, Occasionally Flooded

Cass soil makes up 89 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is negligible. The parent material consists of loamy alluvium over sandy alluvium. This soil is well drained. The slowest permeability is moderately rapid. It has a moderate available water capacity and a low shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Sandy Lowland (pe26-30) range site. It is in the nonirrigated land capability classification 2w.

201CS Crete Silty Clay Loam, 1 To 3 Percent Slopes

Crete soil makes up 95 percent of the map unit. This map unit is in the Central Loess Plains Major Land Resource Area. This soil occurs on a gently sloping hillslope on upland. The runoff class is high. The parent material consists of silty and clayey loess. This soil is moderately well drained. The slowest permeability is impermeable. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Upland (pe26-30) range site. It is in the nonirrigated land capability classification 2e.

201SA Sarpy Loamy Fine Sand, 0 To 5 Percent Slopes, Rarely Flooded

Sarpy soil makes up 90 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to moderately sloping dune on terrace on river valley. The runoff class is negligible. The parent material consists of sandy alluvium. This soil is excessively drained. The slowest permeability is rapid. It has a low available water capacity and a low shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Sands (pe26-30) range site. It is in the nonirrigated land capability classification 4s.

Aa Hobbs Silt Loam, Frequently Flooded

Hobbs soil makes up 83 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on alluvial plain. The runoff class is low. The parent material consists of fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 3 percent calcium carbonate. This soil is in the Loamy Lowland (pe26-30) range site. It is in the nonirrigated land capability classification 5w.

Ah Saltine Silty Clay Loam, Frequently Flooded

Saltine soil makes up 98 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level flood plain on valley. The runoff class is low. The parent material consists of silty and clayey alluvium. This soil is poorly drained. The slowest permeability is moderately slow. It has a high available water capacity and a moderate shrink swell potential. This soil is frequently flooded and is not ponded. The top of the seasonal high water table is at 30 inches. The soil contains a maximum amount of 40 percent calcium carbonate. This soil contains a moderately saline horizon, it has a horizon that is moderately sodic. This soil is in the Saline Lowland (pe26-30) range site. This soil is in the irrigated land capability class 5w. It is in the nonirrigated land capability classification 5w.

Ar Armo Silt Loam, 2 To 7 Percent Slopes

Armo soil makes up 75 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a gently sloping to moderately sloping backslope, footslope hillslope on upland. The runoff class is medium. The parent material consists of calcareous loamy colluvium derived from limestone. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 25 percent calcium carbonate. This soil is in the Limy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 3e.

Ba Hastings-Hobbs Complex, 0 To 25 Percent Slopes

Hastings soil makes up 58 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping to steep backslope hillslope on upland. The runoff class is high. The parent material consists of silty and clayey loess. This soil is well drained. The slowest permeability is moderately slow. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Upland (pe26-30) range site. This soil is in the irrigated land capability class 6e. It is in the nonirrigated land capability classification 6e.

Hobbs soil makes up 40 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on alluvial plain. The runoff class is low. The parent material consists of fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 3 percent calcium carbonate. This soil is in the Loamy Lowland (pe26-30) range site. It is in the nonirrigated land capability classification 5w.

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Br Bridgeport Silt Loam, Occasionally Flooded

Bridgeport soil makes up 98 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level flood plain on alluvial plain. The runoff class is low. The parent material consists of calcareous fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 15 percent calcium carbonate. This soil is in the Loamy Lowland (pe26-30) range site. This soil is in the irrigated land capability class 2w. It is in the nonirrigated land capability classification 2w.

Ca Cozad-Cass Soils, Occasionally Flooded

Cozad soil makes up 50 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is low. The parent material consists of coarse-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 15 percent calcium carbonate. This soil is in the Silty Lowland - Veg. Zone 3 range site. This soil is in the irrigated land capability class 2w. It is in the nonirrigated land capability classification 2w.

Cass soil makes up 25 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is very low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderately rapid. It has a moderate available water capacity and a low shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Sandy Lowland - Veg. Zone 3 range site. This soil is in the irrigated land capability class 2w. It is in the nonirrigated land capability classification 2w.

Cb Cass Fine Sandy Loam, Rarely Flooded

Cass soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping terrace on river valley. The runoff class is very low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderately rapid. It has a moderate available water capacity and a low shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Sandy Lowland - Veg. Zone 3 range site. This soil is in the irrigated land capability class 2e. It is in the nonirrigated land capability classification 2e.

Cf Munjor And Inavale Soils, 1 To 4 Percent Slopes, Frequently Flooded

Munjor soil makes up 50 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping to moderately sloping flood plain on river valley. The runoff class is very low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderately rapid. It has a moderate available water capacity and a low shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Sandy Lowland - Veg. Zone 3 range site. It is in the nonirrigated land capability classification 7w.

Inavale soil makes up 49 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping to moderately sloping flood plain on river valley. The runoff class is negligible. The parent material consists of sandy alluvium. This soil is somewhat excessively drained. The slowest permeability is rapid. It has a low available water capacity and a low shrink swell potential. This soil is frequently flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 3 percent calcium carbonate. This soil is in the Sandy Lowland (pe20-26) range site. It is in the nonirrigated land capability classification 7w.

Cr Crete Silt Loam, 0 To 1 Percent Slopes

Crete soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level summit divide on upland. The runoff class is medium. The parent material consists of loess. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a very high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Upland (pe25-34) range site. It is in the nonirrigated land capability classification 2s.

Cs Crete Silt Loam, 1 To 3 Percent Slopes

Crete soil makes up 80 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping backslope hillslope on upland. The runoff class is high. The parent material consists of loess. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a very high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Upland (pe25-34) range site. This soil is in the irrigated land capability class 2e. It is in the nonirrigated land capability classification 2e.

Nontechnical Soil Descriptions--Continued  
Cloud County, Kansas

Ct Crete Silt Loam, 3 To 6 Percent Slopes

Crete soil makes up 80 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping backslope hillslope on upland. The runoff class is high. The parent material consists of loess. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a very high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Upland (pe26-30) range site. This soil is in the irrigated land capability class 3e. It is in the nonirrigated land capability classification 3e.

Cu Crete Silty Clay Loam, 2 To 6 Percent Slopes, Eroded

Crete soil makes up 78 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping to moderately sloping backslope hillslope on upland. The runoff class is high. The parent material consists of loess. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a very high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Upland (pe26-30) range site. This soil is in the irrigated land capability class 3e. It is in the nonirrigated land capability classification 3e.

De Detroit Silty Clay Loam, Rarely Flooded

Detroit soil makes up 83 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level stream terrace on river valley. The runoff class is medium. The parent material consists of alluvium. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a high shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Loamy Terrace (pe26-30) range site. It is in the nonirrigated land capability classification 1.

Eu Eudora Silt Loam, Rarely Flooded

Eudora soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping terrace on river valley. The runoff class is low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 15 percent calcium carbonate. This soil is in the Loamy Terrace (pe26-30) range site. It is in the nonirrigated land capability classification 1.

Ge Geary Silt Loam, 3 To 7 Percent Slopes

Geary soil makes up 70 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping backslope hillslope on upland. The runoff class is medium. The parent material consists of loamy loess. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Upland (pe25-34) range site. This soil is in the irrigated land capability class 3e. It is in the nonirrigated land capability classification 3e.

Gs Geary Silty Clay Loam, 3 To 7 Percent Slopes, Severely Eroded

Geary soil makes up 70 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping backslope hillslope on upland. The runoff class is medium. The parent material consists of loamy loess. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 3e.

Hb Hastings Silt Loam, 1 To 3 Percent Slopes

Hastings soil makes up 85 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping summit divide on upland. The runoff class is medium. The parent material consists of silty and clayey loess. This soil is well drained. The slowest permeability is moderately slow. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Upland (pe26-30) range site. This soil is in the irrigated land capability class 2e. It is in the nonirrigated land capability classification 2e.

Hc Hastings Silt Loam, 3 To 7 Percent Slopes

Hastings soil makes up 80 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping backslope hillslope on upland. The runoff class is high. The parent material consists of silty and clayey loess. This soil is well drained. The slowest permeability is moderately slow. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Upland (pe26-30) range site. This soil is in the irrigated land capability class 3e. It is in the nonirrigated land capability classification 3e.

Nontechnical Soil Descriptions--Continued  
Cloud County, Kansas

Hd Hastings Silty Clay Loam, 2 To 6 Percent Slopes, Eroded

Hastings soil makes up 85 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping to moderately sloping backslope hillslope on upland. The runoff class is medium. The parent material consists of silty and clayey loess. This soil is well drained. The slowest permeability is moderately slow. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Upland (pe26-30) range site. This soil is in the irrigated land capability class 3e. It is in the nonirrigated land capability classification 3e.

He Hedville Stony Loam, 5 To 30 Percent Slopes

Hedville soil makes up 75 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping to steep backslope hillslope on upland. The runoff class is medium. The parent material consists of loamy residuum. The soil is 4 to 20 inches deep to bedrock (lithic). This soil is somewhat excessively drained. The slowest permeability is moderate. It has a low available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Shallow Sandstone (pe26-30) range site. It is in the nonirrigated land capability classification 7e.

Ho Hobbs Silt Loam, Occasionally Flooded

Hobbs soil makes up 73 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on alluvial plain. The runoff class is low. The parent material consists of fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 3 percent calcium carbonate. This soil is in the Loamy Lowland (pe25-34) range site. It is in the nonirrigated land capability classification 2w.

Hr Hord Silt Loam, Rarely Flooded

Hord soil makes up 79 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a nearly level terrace on river valley. The runoff class is low. The parent material consists of fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Loamy Terrace (pe26-30) range site. It is in the nonirrigated land capability classification 1.

Hu Humbarger Loam, Occasionally Flooded

Humbarger soil makes up 74 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level flood plain on river valley. The runoff class is low. The parent material consists of calcareous fine-loamy alluvium. This soil is moderately well drained. The slowest permeability is moderate. It has a high available water capacity and a moderate shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 15 percent calcium carbonate. This soil is in the Loamy Lowland (pe26-30) range site. This soil is in the irrigated land capability class 2w. It is in the nonirrigated land capability classification 2w.

Kp Kipson Soils, 5 To 30 Percent Slopes

Kipson soil makes up 65 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping to steep shoulder hillslope on upland. The runoff class is medium. The parent material consists of calcareous loamy residuum weathered from shale. The soil is 7 to 20 inches deep to bedrock (paralithic). This soil is somewhat excessively drained. The slowest permeability is moderate. It has a very low available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 60 percent calcium carbonate. This soil is in the Limy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 6e.

Lh Lancaster-Hedville Complex, 5 To 30 Percent Slopes

Lancaster soil makes up 55 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping to strongly sloping backslope hillslope on upland. The runoff class is medium. The parent material consists of fine-loamy residuum weathered from sandstone and shale. The soil is 20 to 40 inches deep to bedrock (paralithic). This soil is well drained. The slowest permeability is moderate. It has a moderate available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 6e.

Hedville soil makes up 28 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a strongly sloping to steep backslope hillslope on upland. The runoff class is high. The parent material consists of loamy residuum. The soil is 4 to 20 inches deep to bedrock (lithic). This soil is somewhat excessively drained. The slowest permeability is moderate. It has a very low available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Shallow Sandstone (pe26-30) range site. It is in the nonirrigated land capability classification 6e.



Nontechnical Soil Descriptions--Continued  
Cloud County, Kansas

Lm Longford Silt Loam, 1 To 3 Percent Slopes

Longford soil makes up 70 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a gently sloping backslope hillslope on upland. The runoff class is high. The parent material consists of silty and clayey loess. This soil is well drained. The slowest permeability is slow. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 2e.

Ln Longford Silt Loam, 3 To 7 Percent Slopes

Longford soil makes up 65 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping backslope hillslope on upland. The runoff class is very high. The parent material consists of silty and clayey loess. This soil is well drained. The slowest permeability is slow. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 3e.

Lo Longford Silty Clay Loam, 3 To 7 Percent Slopes, Eroded

Longford soil makes up 65 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a moderately sloping backslope hillslope on upland. The runoff class is very high. The parent material consists of silty and clayey loess. This soil is well drained. The slowest permeability is slow. It has a high available water capacity and a high shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. This soil is in the Loamy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 3e.

Mc Mccook Silt Loam, Rarely Flooded

Mccook soil makes up 98 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level stream terrace on river valley. The runoff class is low. The parent material consists of weakly stratified calcareous coarse-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a high available water capacity and a low shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 20 percent calcium carbonate. This soil is in the Loamy Terrace (pe20-26) range site. It is in the nonirrigated land capability classification 1.

Mr Muir Silt Loam, Rarely Flooded

Muir soil makes up 84 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping terrace on river valley. The runoff class is low. The parent material consists of loamy alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Loamy Terrace (pe25-34) range site. It is in the nonirrigated land capability classification 1.

Nc New Cambria Silty Clay Loam, Rarely Flooded

New Cambria soil makes up 83 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a nearly level stream terrace on river valley. The runoff class is medium. The parent material consists of calcareous clayey alluvium. This soil is moderately well drained. The slowest permeability is slow. It has a high available water capacity and a very high shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Clay Terrace (pe26-30) range site. It is in the nonirrigated land capability classification 2s.

Nu Nuckolls Silt Loam, 4 To 12 Percent Slopes

Nuckolls soil makes up 85 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping to strongly sloping backslope hillslope on upland. The runoff class is medium. The parent material consists of silty loess. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Loamy Upland (pe26-30) range site. This soil is in the irrigated land capability class 4e. It is in the nonirrigated land capability classification 4e.

Nx Nuckolls Silt Loam, 4 To 12 Percent Slopes, Eroded

Nuckolls soil makes up 85 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping to strongly sloping backslope hillslope on upland. The runoff class is medium. The parent material consists of silty loess. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Loamy Upland (pe26-30) range site. This soil is in the irrigated land capability class 4e. It is in the nonirrigated land capability classification 4e.

Nontechnical Soil Descriptions--Continued  
Cloud County, Kansas

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Rx Roxbury Silt Loam, Rarely Flooded

Roxbury soil makes up 78 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a nearly level to gently sloping stream terrace on river valley. The runoff class is low. The parent material consists of calcareous fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is rarely flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 20 percent calcium carbonate. This soil is in the Loamy Terrace (pe26-30) range site. It is in the nonirrigated land capability classification 1.

Sa Inavale Loamy Sand, 0 To 3 Percent Slopes, Occasionally Flooded

Inavale soil makes up 85 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on river valley. The runoff class is negligible. The parent material consists of sandy alluvium. This soil is somewhat excessively drained. The slowest permeability is rapid. It has a low available water capacity and a low shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 3 percent calcium carbonate. This soil is in the Sandy Lowland (pe20-26) range site. It is in the nonirrigated land capability classification 3w.

Sd Inavale Loamy Sand, 3 To 12 Percent Slopes

Inavale soil makes up 100 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Central Loess Plains Major Land Resource Area. This soil occurs on a moderately sloping to strongly sloping dune on river valley. The runoff class is very low. The parent material consists of sandy alluvium. This soil is somewhat excessively drained. The slowest permeability is rapid. It has a low available water capacity and a low shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 3 percent calcium carbonate. This soil is in the Sandy Lowland (pe20-26) range site. It is in the nonirrigated land capability classification 6e.

St Sutphen Silty Clay, Rarely Flooded

Sutphen soil makes up 85 percent of the map unit. This map unit is in the Central Kansas Sandstone Hills Major Land Resource Area. This soil occurs on a nearly level flood plain on river valley. The runoff class is high. The parent material consists of clayey alluvium. This soil is somewhat poorly drained. The slowest permeability is very slow. It has a moderate available water capacity and a very high shrink swell potential. This soil is rarely flooded and is occasional ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 5 percent calcium carbonate. This soil is in the Clay Lowland (pe26-30) range site. It is in the nonirrigated land capability classification 2w.

To Tobin Silt Loam, Occasionally Flooded

Tobin soil makes up 78 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a nearly level to gently sloping flood plain on alluvial plain. The runoff class is low. The parent material consists of fine-silty alluvium. This soil is well drained. The slowest permeability is moderate. It has a very high available water capacity and a moderate shrink swell potential. This soil is occasionally flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 10 percent calcium carbonate. This soil is in the Loamy Lowland (pe26-30) range site. It is in the nonirrigated land capability classification 2w.

Wa Wakeen Silty Clay Loam, 3 To 6 Percent Slopes

Wakeen soil makes up 70 percent of the map unit. This map unit is in the Rolling Plains and Breaks Major Land Resource Area. This soil occurs on a moderately sloping hillslope on upland. The runoff class is medium. The parent material consists of calcareous fine-silty residuum weathered from limestone. The soil is 20 to 40 inches deep to bedrock (paralithic). This soil is well drained. The slowest permeability is moderate. It has a low available water capacity and a moderate shrink swell potential. This soil is not flooded and is not ponded. The seasonal high water table is at a depth of more than 6 feet. The soil contains a maximum amount of 40 percent calcium carbonate. This soil is in the Lmy Upland (pe26-30) range site. It is in the nonirrigated land capability classification 4e.

