

NONTECHNICAL SOIL DESCRIPTIONS
Bourbon County, Kansas: Detailed Soil Map Legend

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.

Nontechnical Soil Descriptions--Continued
Bourbon County, Kansas: Detailed Soil Map Legend

Map Symbol	Map Unit Name	Nontechnical Descriptions
001CB	CATOOSA-ROCK OUTCROP COMPLEX, 1 TO 8 PERCENT SLOPES	Moderately deep and very shallow, gently sloping and moderately sloping, well drained, moderately permeable soils on uplands. The moderately deep Catoosa soils have a silt loam surface layer and a friable and firm silty clay loam subsoil. The rock outcrop areas have hard limestone bedrock exposed on the surface or are covered by a silt loam surface layer less than six inches thick. This map unit is potential highly erodible (PHE).
001CC	COLLINSVILLE-BATES COMPLEX, 2 TO 15 PERCENT SLOPES	Shallow and moderately deep, gently sloping to strongly sloping, well drained, moderately rapidly permeable and moderately permeable soils on uplands. The shallow Collinsville soils have a fine sandy loam surface layer. The moderately deep Bates soils have a loam surface layer and a friable loam and firm and friable clay loam subsoil. This map unit is highly erodible (HE).
037MD	KANIMA SILTY CLAY LOAM, 3 TO 50 PERCENT SLOPES	Deep, moderately sloping to steep, well drained, moderately permeable soils on uplands that were formerly strip mined. These soils have a silty clay loam surface layer and a silty clay loam underlying layer. This map unit is potential highly erodible (PHE).
107CM	CLARESON-ROCK OUTCROP COMPLEX, 2 TO 15 PERCENT SLOPES	Moderately deep, gently sloping to strongly sloping, well drained, moderately slowly permeable soils on uplands. The Clareson soils have a silty clay loam surface layer and a firm, flaggy silty clay subsoil. The rock outcrop is dominantly limestone. Flaggy and stony limestone fragments occur on the surface generally near and down slope from the bedrock. This map unit is highly erodible (HE).
107EF	ERAM-LEBO SILTY CLAY LOAMS, 5 TO 20 PERCENT SLOPES	Moderately deep, strongly sloping to moderately steep, moderately well drained and well drained, slowly permeable and moderately permeable soils on uplands. The Eram soils have a silty clay loam surface layer and a very firm clay subsoil. The Lebo soils have a silty clay loam surface layer and a firm silty clay loam and shaly silty clay loam subsoil. This map unit is highly erodible (HE).
107SN	SUMMIT SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	Deep, gently sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silty clay loam surface layer and a very firm silty clay subsoil. This map unit is potential highly erodible (PHE).
107SO	SUMMIT SILTY CLAY LOAM, 4 TO 8 PERCENT SLOPES	Deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silty clay loam surface layer and a very firm silty clay subsoil. This map unit is highly erodible (HE).
107VC	VERDIGRIS SILT LOAM, FREQUENTLY FLOODED	Deep, nearly level, well drained, moderately permeable soils on frequently flooded narrow drainageways and flood plains. These soils have a silt loam surface layer and a friable silt loam substratum. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.
133EC	ERAM SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES	Moderately deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silty clay loam surface layer and a firm or very firm silty clay loam and firm or very firm silty clay subsoil. This map unit is highly erodible (HE).
133SC	SHIDLER-CATOOSA SILT LOAMS, 1 TO 8 PERCENT SLOPES	Shallow and moderately deep, gently sloping and moderately sloping, well drained, moderately permeable soils on uplands. The shallow Shidler soils have a silt loam surface layer. The moderately deep Catoosa soils have a silt loam surface layer and a firm silty clay loam subsoil. This map unit is highly erodible (HE).

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AED	ARENTS, EARTHEN DAM	
Ba	BATES LOAM, 1 TO 4 PERCENT SLOPES	Moderately deep, gently sloping, well drained, moderately permeable soils on uplands. These soils have a loam surface layer and a friable loam and firm clay loam subsoil. This map unit is not highly erodible (NHE).
Bc	BATES LOAM, 4 TO 7 PERCENT SLOPES	Moderately deep, moderately sloping, well drained, moderately permeable soils on uplands. These soils have a loam surface layer and a firm sandy clay loam and sandy loam subsoil. This map unit is highly erodible (HE).
Bd	BATES LOAM, 4 TO 7 PERCENT SLOPES, ERODED	Moderately deep, moderately sloping, well drained, moderately permeable soils on uplands. These soils have a loam surface layer that has been thinned by erosion and a firm sandy clay loam and sandy loam subsoil. This map unit is highly erodible (HE).
Bh	BOLIVAR-HECTOR FINE SANDY LOAMS, 5 TO 15 PERCENT SLOPES	Moderately deep and shallow, moderately sloping and moderately steep, well drained, moderately permeable and moderately rapidly permeable soils on uplands. The moderately deep Bolivar soils have a fine sandy loam surface soil and a friable loam and sandy clay loam subsoil. The shallow Hector soils have a fine sandy loam surface soil and a friable fine sandy loam subsoil. This map unit is highly erodible (HE).
Ca	CATOOSA SILT LOAM, 0 TO 2 PERCENT SLOPES	Moderately deep, nearly level and gently sloping, well drained, moderately permeable soils on uplands. These soils have a silt loam surface layer and a dominantly friable or firm silty clay loam subsoil. This map unit is not highly erodible (NHE).
Cs	CLARESON STONY SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	Moderately deep, gently sloping, well drained, moderately slowly permeable soils on uplands. These soils have a flaggy silty clay loam surface layer and a firm, flaggy and stony silty clay subsoil. This map unit is potential highly erodible (PHE).
De	DENNIS SILT LOAM, 1 TO 3 PERCENT SLOPES	Deep, gently sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silt loam surface layer and a friable or firm silty clay loam and firm or very firm silty clay subsoil. This map unit is not highly erodible (NHE).
Df	DENNIS SILT LOAM, 3 TO 6 PERCENT SLOPES	Deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silt loam surface layer and a friable or firm silty clay loam and firm or very firm silty clay subsoil. This map unit is highly erodible (HE).
Ec	ERAM-COLLINSVILLE COMPLEX, 5 TO 12 PERCENT SLOPES	Moderately deep, shallow, and very shallow, strongly sloping, moderately well drained and well drained, slowly permeable and moderately rapidly permeable soils on uplands. The moderately deep Eram soils have a silty clay loam surface layer and a very firm silty clay subsoil. The shallow Collinsville soils have a fine sandy loam surface soil. This map unit is highly erodible (HE).
Ke	KENOMA SILT LOAM, 1 TO 3 PERCENT SLOPES	Deep, gently sloping, moderately well drained, very slowly permeable soils on uplands. These soils have a silt loam surface layer and a firm, very firm, or extremely firm silty clay subsoil. This map unit is not highly erodible (NHE).
La	LANTON SILTY CLAY LOAM, OCCASIONALLY FLOODED	Deep, nearly level, somewhat poorly drained, moderately slowly permeable soils on flood plains. These soils have a silty clay loam surface layer and a friable or firm silty clay loam subsoil. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.

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Le	LEANNA SILT LOAM, OCCASIONALLY FLOODED	Deep, nearly level, somewhat poorly drained, very slowly permeable soils on flood plains. These soils have a silt loam surface layer and a very firm silty clay subsoil. This map unit is not highly erodible (NHE).
Ma	MASON SILT LOAM, RARELY FLOODED	Deep, nearly level, well drained, moderately slowly permeable soils on stream terraces. These soils have a silt loam surface layer and a friable or firm silty clay loam subsoil. This map unit is not highly erodible (NHE).
No	NOWATA SILT LOAM, 3 TO 5 PERCENT SLOPES	Moderately deep, moderately sloping, well drained, moderately slowly permeable soils on uplands. These soils have a silt loam surface soil and a firm extremely cherty silty clay loam subsoil. This map unit is highly erodible (HE).
Or	ORTHENTS, HILLY	Deep, moderately sloping to very steep, excessively drained, slowly permeable mixture of soil material, rocks, and shale from coal mine spoil. The soil is silty clay or silty clay loam. Rocks are on the surface in some places. This map unit is potential highly erodible (PHE).
Os	OSAGE SILTY CLAY, OCCASIONALLY FLOODED	Deep, nearly level, poorly drained, very slowly permeable soils on flood plains. These soils have a silty clay surface layer and a very firm or extremely firm silty clay subsoil. This map unit is not highly erodible (NHE). Also, this map unit is a hydric soil.
Pa	PARSONS SILT LOAM, 0 TO 2 PERCENT SLOPES	Deep, nearly level, somewhat poorly drained, very slowly permeable soils on uplands. These soils have a silt loam surface soil and a very firm silty clay subsoil. This map unit is not highly erodible (NHE).
Pt	PITS, QUARRIES	These are areas that have been excavated and the soil and underlying limestone rock have been removed. The bottom of the pits are nearly level bedrock and the walls are vertical. Piles of crushed rock and areas of water are common. This map unit is potential highly erodible (PHE).
Rc	RINGO-CLARESON COMPLEX, 9 TO 15 PERCENT SLOPES	Moderately deep, strongly sloping, moderately well drained and well drained, very slowly permeable and moderately slowly permeable soils on uplands. The moderately well drained Ringo soils have a silty clay surface layer and a very firm and firm, calcareous silty clay subsoil. The well drained Clareson soils have a stony silty clay loam surface layer and a very firm flaggy silty clay loam and flaggy silty clay subsoil. This map unit is highly erodible (HE).
Ta	TAMAHA SILT LOAM, 1 TO 5 PERCENT SLOPES	Deep, gently sloping, moderately well drained, very slowly permeable soils on uplands. These soils have a silt loam surface layer and a firm silty clay loam and very firm silty clay subsoil. This map unit is potential highly erodible (PHE). Also, this map unit has inclusions of hydric soils.
Ve	VERDIGRIS SILT LOAM, OCCASIONALLY FLOODED	Deep, nearly level, well drained, moderately permeable soils on flood plains. These soils have a silt loam surface layer and a friable silt loam substratum. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.
Vf	VERDIGRIS SILT LOAM, CHANNELED	Deep, nearly level, well drained, moderately permeable soils on frequently flooded narrow drainageways and flood plains. These soils have a silt loam surface soil and a friable silt loam substratum. This map unit is not highly erodible (NHE).
W	WATER	

Nontechnical Soil Descriptions--Continued
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ZAA	ZAAR SILTY CLAY, 1 TO 3 PERCENT SLOPES	Deep, gently sloping, somewhat poorly drained, very slowly permeable soils on uplands. These soils have a silty clay surface soil and an extremely firm clay subsoil. This map unit is not highly erodible (NHE).
Za	ZAAR SILTY CLAY, 0 TO 2 PERCENT SLOPES	Deep, nearly level, somewhat poorly drained, very slowly permeable soils on uplands. These soils have a silty clay surface soil and a firm, very firm, or extremely firm silty clay subsoil. This map unit is not highly erodible (NHE).
Zb	ZAAR SILTY CLAY, 2 TO 6 PERCENT SLOPES	Deep, moderately sloping, somewhat poorly drained, very slowly permeable soils on uplands. These soils have a silty clay surface soil and a firm, very firm, or extremely firm silty clay subsoil. This map unit is potential highly erodible (PHE).

