

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

Map Symbol	Map Unit Name	Nontechnical Descriptions
019DE	DENNIS SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED	Deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silty clay loam surface layer that has been thinned by erosion and a friable or firm silty clay loam and firm or very firm silty clay subsoil. This map unit is highly erodible (HE).
019EC	ERAM-COLLINSVILLE COMPLEX, 1 TO 7 PERCENT SLOPES	Moderately deep and shallow, gently sloping and moderately 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 firm and very firm silty clay subsoil. The shallow Collinsville soils have a loam surface layer. This map unit is highly erodible (HE).
019ST	STEEDMAN STONY CLAY LOAM, 8 TO 20 PERCENT SLOPES	Moderately deep, moderately sloping to moderately steep, moderately well drained, slowly permeable soils on uplands. These soils have a stony clay loam surface layer and a very firm silty clay and clay subsoil. This map unit is highly erodible (HE).
099EO	ERAM-LEBO SILTY CLAY LOAMS, 4 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).
099VC	VERDIGRIS SILT LOAM, FREQUENTLY FLOODED	Deep, nearly level, moderately well drained, moderately permeable soils on frequently flooded narrow drainageways. These soils have a silt loam surface soil and a friable silty clay loam subsoil. This map unit is not highly erodible (NHE).
205BH	BATES-COLLINSVILLE LOAMS, 3 TO 7 PERCENT SLOPES	
205BO	BATES-COLLINSVILLE LOAMS, 7 TO 20 PERCENT SLOPES	
205EB	ERAM SILT LOAM, 1 TO 3 PERCENT SLOPES	
205RN	RINGO SILTY CLAY LOAM, 15 TO 35 PERCENT SLOPES	
205RS	RINGO-SHIDLER SILTY CLAY LOAMS, 3 TO 15 PERCENT SLOPES	
205SC	SHIDLER-CATOOSA COMPLEX, 1 TO 8 PERCENT SLOPES	
AED	ARENTS, EARTHEN DAM	
Ba	BATES LOAM, 1 TO 3 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).
Bb	BATES LOAM, 3 TO 6 PERCENT SLOPES	Moderately deep, moderately 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 highly erodible (HE).

Nontechnical Soil Descriptions--Continued  
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Map Symbol	Map Unit Name	Nontechnical Descriptions
Bc	BATES LOAM, 2 TO 6 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 friable loam and firm clay loam subsoil. This map unit is highly erodible (HE).
Bf	BATES-COLLINSVILLE COMPLEX, 1 TO 4 PERCENT SLOPES	Moderately deep and shallow, gently sloping, well drained, moderately permeable and moderately rapidly permeable soils on uplands. The moderately deep Bates soils have a loam surface layer and a friable loam and firm clay loam subsoil. The shallow Collinsville soils have a fine sandy loam surface layer. This map unit is potential highly erodible (PHE).
Bg	BATES-COLLINSVILLE COMPLEX, 4 TO 20 PERCENT SLOPES	Moderately deep and shallow, moderately sloping and strongly sloping, well drained, moderately permeable and moderately rapidly permeable soils on uplands. The moderately deep Bates soils have a loam surface layer and a friable loam and firm clay loam subsoil. The shallow Collinsville soils have a fine sandy loam surface layer. This map unit is highly erodible (HE).
Bu	BATES-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES	The Bates soils are moderately deep, moderately sloping, well drained, moderately permeable soils on uplands. The Bates soils have a loam surface layer and a friable loam and a firm clay loam subsoil. The Urban land part is covered by streets, parking lots, sidewalks, buildings, and other structures. These soils are so obscured or altered that identification is not possible. 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).
Db	DENNIS SILT LOAM, 1 TO 4 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 potential highly erodible (PHE).
Dc	DENNIS SILT LOAM, 4 TO 7 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).
Eb	ERAM SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	Moderately deep, gently 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 subsoil. This map unit is potential highly erodible (PHE).
Ec	ERAM SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES, ERODED	Moderately deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silty clay loam surface layer that has been thinned by erosion and a firm, very firm, or extremely firm silty clay subsoil. This map unit is highly erodible (HE).
Ef	ERAM SILTY CLAY LOAM, 4 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).
Et	ERAM-TALIHINA SILTY CLAY LOAMS, 6 TO 20 PERCENT SLOPES	Moderately deep and shallow, moderately sloping to moderately steep, moderately well drained, slowly permeable soils on uplands. The moderately deep Eram soils have a silty clay loam surface layer and a firm silty clay subsoil. The shallow Talihina soils have a silty clay loam surface layer and a firm silty clay subsoil. This map unit is highly erodible (HE).

Nontechnical Soil Descriptions--Continued  
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Eu	ERAM-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES	Moderately deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. The Eram soils have a silty clay loam surface layer and a firm silty clay subsoil. The Urban land part is covered by streets, parking lots, sidewalks, and buildings, and other structures. These soils are so obscured or altered that identification is not possible. This map unit is highly erodible (HE).
INT	AQUOLLS	
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 potential highly erodible (PHE).
Ka	KENOMA SILT LOAM, 0 TO 2 PERCENT SLOPES	Deep, nearly level, moderately well drained, very slowly permeable soils on uplands. These soils have a silt loam surface layer and a very firm silty clay subsoil. This map unit is not highly erodible (NHE).
LN	LANTON SILT LOAM, OCCASIONALLY FLOODED	
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 firm or very firm silty clay loam subsurface soil. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.
M-W	MISCELLANEOUS WATER	
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). Also, this map unit has inclusions of hydric soils.
Nd	NIOTAZE-DARNELL COMPLEX, 8 TO 20 PERCENT SLOPES	Moderately deep and shallow, strongly sloping to moderately steep, somewhat poorly drained and well drained, slowly permeable and moderately rapidly permeable soils on uplands. The moderately deep Niotaze soils have a cobbly fine sandy loam surface layer, a fine sandy loam subsurface layer, and a very firm silty clay subsoil. The shallow Darnell soils have a fine sandy loam surface layer and a friable fine sandy loam subsoil. This map unit is highly erodible (HE).
Oa	OIL WASTE LAND	Deep and moderately deep, gently sloping and moderately sloping, excessively drained, very slowly permeable soils on uplands. These soils have been severely affected by oil, saltwater, or other waste from oil wells. The original soil cannot be identified in most areas. These areas have a silt loam, silty clay loam, or silty clay surface layer that has been thinned by severe erosion. This layer is usually high in salt or waste oil content or both. The subsoil is very firm or extremely firm silty clay or clay that has a high salt content in the upper part. This map unit is potential highly erodible (PHE).
Od	OLPE-DENNIS COMPLEX, 2 TO 6 PERCENT SLOPES	Deep, moderately sloping, well drained and moderately well drained, slowly permeable soils on uplands. The Olpe soils have a gravelly silt loam surface layer and a firm extremely gravelly silty clay loam and very firm extremely gravelly and very gravelly silty clay subsoil. The Dennis soils have a silt loam surface layer and a friable silty clay loam and firm silty clay subsoil. This map unit is potential highly erodible (PHE).

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Or	ORTHENTS, CLAYEY	Deep, nearly level to moderately sloping, moderately well drained and somewhat poorly drained, slowly permeable soils on flood plains and uplands that have had most of the soil material removed and used as fill on construction sites. These soils typically have a silty clay surface layer and a firm silty clay subsoil. This map unit is not highly erodible (NHE).
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 1 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).
Qu	PITS, QUARRIES	Areas where much of the soil and the underlying limestone or shale have been removed. These areas generally are barren and are surrounded by vertical walls. Mounds of limestone rock and ground limestone occur in some areas. This map unit is potential highly erodible (PHE).
Sc	SHIDLER-CATOOSA SILT LOAMS, 1 TO 4 PERCENT SLOPES	Shallow and moderately deep, gently sloping, well drained, moderately permeable soils on uplands. The shallow Shidler soils have a silt 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).
Sd	STEPHENVILLE-DARNELL FINE SANDY LOAMS, 1 TO 5 PERCENT SLOPES	Moderately deep and shallow, gently sloping and moderately sloping, well drained, moderately permeable and moderately rapidly permeable soils on uplands. The moderately deep Stephenville soils have a fine sandy loam surface soil and a firm or friable sandy clay loam subsoil. The shallow Darnell soils have a fine sandy loam surface layer and a very friable or friable fine sandy loam subsoil. This map unit is potential highly erodible (PHE).
Ts	TALIHINA-SHALE OUTCROP COMPLEX, 10 TO 50 PERCENT SLOPES	Shallow and very shallow, strongly sloping to very steep, moderately well drained, slowly permeable soils on uplands. The shallow Talihina soils have a silty clay loam surface layer and a firm silty clay subsoil. The shale outcrop areas are exposed or are covered with less than 10 inches of a silty clay surface layer. This map unit is highly erodible (HE).
Vb	VERDIGRIS SILT LOAM, OCCASIONALLY FLOODED	Deep, nearly level, moderately well drained, moderately permeable soils on flood plains. These soils have a silt loam surface soil and a friable or firm silt loam subsoil. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.
Vc	VERDIGRIS SILT LOAM, CHanneled	Deep, nearly level, moderately well drained, moderately permeable soils on frequently flooded narrow drainageways. These soils have a silt loam surface soil and a friable or firm silt loam subsoil. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.
W	WATER	
Wo	WOODSON SILT LOAM, 0 TO 1 PERCENT SLOPES	Deep, nearly level, somewhat poorly drained, very slowly permeable soils on uplands. These soils have a silt loam surface layer and a very firm silty clay subsoil. This map unit is not highly erodible (NHE).

Nontechnical Soil Descriptions--Continued  
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Za	ZAAR SILTY CLAY, 0 TO 1 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, 1 TO 4 PERCENT SLOPES	Deep, gently 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 not highly erodible (NHE).

