

NONTECHNICAL SOIL DESCRIPTIONS
Woodson 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
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Map Symbol	Map Unit Name	Nontechnical Descriptions
001CA	CATOOSA SILT LOAM, 0 TO 2 PERCENT SLOPES	
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).
001ZB	ZAAR SILTY CLAY, 3 TO 7 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).
031EP	ERAM-APPERSON SILTY CLAY LOAMS, 4 TO 7 PERCENT SLOPES	Moderately deep and deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. The moderately deep Eram soils have a silty clay loam surface layer and a very firm silty clay subsoil. The deep Apperson soils have a silty clay loam surface layer and a firm silty clay loam and very firm silty clay subsoil. This map unit is highly erodible (HE).
031ES	ERAM-SHIDLER SILTY CLAY LOAMS, 4 TO 15 PERCENT SLOPES	Moderately deep and shallow, moderately sloping and strongly sloping, moderately well drained and well drained, slowly 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 Shidler soils have a silty clay loam surface layer over limestone. This map unit is highly erodible (HE).
073AT	AQUENTS, FREQUENTLY FLOODED	Deep, nearly level, poorly drained and very poorly drained, moderately permeable to very slowly permeable soils in borrow pits on flood plains. Texture ranges from sand to clay throughout. This map unit is not highly erodible (NHE).
073CA	CHASE SILTY CLAY LOAM, OCCASIONALLY FLOODED	Deep, nearly level, somewhat poorly drained, slowly permeable soils on stream terraces. These soils have a silty clay 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).
073CM	CLIME SILTY CLAY, 3 TO 7 PERCENT SLOPES	Moderately deep, moderately sloping, well drained, slowly permeable soils on uplands. These soils have a calcareous silty clay loam surface layer and a firm or very firm, calcareous silty clay subsoil. This map unit is highly erodible (HE).
073CS	CLIME-SOGN COMPLEX, 5 TO 20 PERCENT SLOPES	
073DS	DENNIS SILTY CLAY LOAM, 2 TO 6 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 potential highly erodible (PHE).

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

Map Symbol	Map Unit Name	Nontechnical Descriptions
073IC	IVAN SILT LOAM, CHANNELED	Deep, nearly level, well drained, moderately permeable soils on frequently flooded narrow drainageways. These soils have a calcareous silt loam surface soil and a friable, calcareous silt loam subsoil. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.
073IF	IVAN SILT LOAM, OCCASIONALLY FLOODED	Deep, nearly level, well drained, moderately permeable soils on flood plains. These soils have a calcareous silt loam surface soil and a friable, calcareous silt loam subsoil. This map unit is not highly erodible (NHE).
073KE	KENOMA SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES, ERODED	Deep, gently sloping, moderately well drained, very 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 potential highly erodible (PHE).
073LA	LABETTE SILTY CLAY LOAM, 1 TO 4 PERCENT SLOPES	Moderately deep, gently sloping, 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 silty clay subsoil. This map unit is potential highly erodible (PHE).
073LD	LABETTE-DWIGHT COMPLEX, 0 TO 3 PERCENT SLOPES	Moderately deep and deep, nearly level, well drained and moderately well drained, slowly permeable and very slowly permeable soils on uplands. The moderately deep Labette soils have a silty clay loam surface layer and a firm or very firm silty clay loam and silty clay subsoil. The deep Dwight soils have a silt loam surface layer and an extremely firm clay subsoil. This map unit is not highly erodible (NHE).
073MA	MARTIN 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 firm silty clay subsoil. This map unit is potential highly erodible (PHE).
073NZ	NIOTAZE-DARNELL COMPLEX, 6 TO 35 PERCENT SLOPES	
073RE	READING SILT LOAM, 0 TO 2 PERCENT SLOPES, RARELY FLOODED	Deep, nearly level, well drained, moderately slowly permeable soils on stream terraces that are rarely flooded. These soils have a silt loam surface soil and a friable or firm silty clay loam subsoil. This map unit is not highly erodible (NHE).
073ST	STEEDMAN STONY LOAM, 3 TO 12 PERCENT SLOPES	Moderately deep, gently sloping to strongly sloping, moderately well drained, slowly permeable soils on uplands. These soils have a stony loam surface layer and a very firm silty clay subsoil. This map unit is highly erodible (HE).
205BH	BATES-COLLINSVILLE LOAMS, 3 TO 7 PERCENT SLOPES	
205BO	BATES-COLLINSVILLE LOAMS, 7 TO 20 PERCENT SLOPES	
205DW	DENNIS-DWIGHT SILT LOAMS, 1 TO 5 PERCENT SLOPES	
205EB	ERAM SILT LOAM, 1 TO 3 PERCENT SLOPES	
205EC	ERAM SILT LOAM, 3 TO 7 PERCENT SLOPES	Moderately deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. These soils have a silt loam surface layer and a firm silty clay loam and an extremely firm or very firm silty clay subsoil. This map unit is highly erodible (HE).

Nontechnical Soil Descriptions--Continued
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205LA	LANTON SILT LOAM, OCCASIONALLY FLOODED	
205ND	NIOTAZE-DARNELL COMPLEX, 4 TO 30 PERCENT SLOPES	
205SC	SHIDLER-CATOOSA COMPLEX, 1 TO 8 PERCENT SLOPES	
205SF	STEEDMAN GRAVELLY SILT LOAM, 4 TO 25 PERCENT SLOPES, STONY	
AED	ARENTS, EARTHEN DAM	
BOP	BORROW PITS	
Bb	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 friable loam and firm clay loam subsoil. This map unit is highly erodible (HE).
Ca	CLARESON-SOGN COMPLEX, 1 TO 8 PERCENT SLOPES	Moderately deep and shallow, gently sloping and moderately sloping, well drained, moderately slowly permeable and moderately permeable soils on uplands. The moderately deep Clareson soils have a silty clay loam surface layer and a firm, flaggy silty clay subsoil. The shallow, moderately permeable Sogn soils have a silty clay loam surface layer over limestone. This map unit is highly erodible (HE).
Cd	CLEORA FINE SANDY LOAM, OCCASIONALLY FLOODED	Deep, nearly level, well drained, moderately rapidly permeable soils on narrow flood plains. These soils are occasionally flooded. They have a fine sandy loam surface layer and a very friable fine sandy loam subsoil. This map unit is not highly erodible (NHE).
Da	DARNELL-NIOTAZE COMPLEX, 24 TO 45 PERCENT SLOPES	Shallow and moderately deep, steep, well drained, somewhat excessively drained and somewhat poorly drained, moderately rapidly permeable and slowly permeable soils on uplands. The shallow Darnell soils have a fine sandy loam surface layer and a very friable fine sandy loam subsoil. The moderately deep Niotaze soils have a loam surface layer and a very firm silty clay subsoil. This map unit is highly erodible (HE).
Dd	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).
De	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).
Df	DENNIS SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES, ERODED	Deep, gently 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 not highly erodible (NHE).

Nontechnical Soil Descriptions--Continued
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Map Symbol	Map Unit Name	Nontechnical Descriptions
Dg	DENNIS AND ERAM SOILS, 3 TO 7 PERCENT SLOPES, ERODED	Deep and moderately deep, moderately sloping, moderately well drained, slowly permeable soils on uplands. The deep Dennis soils have a silt loam surface layer that has been thinned by erosion and a firm silty clay loam and very firm and firm silty clay subsoil. The moderately deep Eram soils have a silty clay loam surface layer that has been thinned by erosion and a very firm silty clay subsoil. This map unit is highly erodible (HE).
Dw	DWIGHT 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 dominantly extremely firm clay subsoil. This map unit is not highly erodible (NHE).
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, 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).
Ex	ERAM-COLLINSVILLE COMPLEX, 4 TO 25 PERCENT SLOPES	Moderately deep, shallow, and very shallow, moderately sloping to moderately steep, moderately well drained, well drained, and somewhat excessively 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 loam surface layer and a friable loam subsoil. This map unit is highly erodible (HE).
GRP	GRAVEL PITS AND QUARRIES	
Ha	HEPLER SILT LOAM, OCCASIONALLY FLOODED	Deep, nearly level, somewhat poorly drained, moderately slowly permeable soils on flood plains. These soils have a silt loam surface soil and a firm or very firm silty clay loam subsoil. This map unit is not highly erodible (NHE). Also, this map unit has inclusions of hydric soils.
Ka	KENOMA SILT LOAM, 1 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).
Ko	KENOMA-OLPE COMPLEX, 2 TO 7 PERCENT SLOPES	Deep, moderately sloping, moderately well drained and well drained, very slowly permeable and slowly permeable soils on uplands. The Kenoma soils have a silt loam surface layer and a very firm silty clay subsoil. The Olpe soils have a silt loam surface layer, a very gravelly silt loam subsurface layer, and a very firm very gravelly silty clay loam and very gravelly and gravelly clay loam subsoil. This map unit is potential highly erodible (PHE).
Kw	KENOMA AND WOODSON SOILS, 1 TO 3 PERCENT SLOPES, ERODED	Deep, gently sloping, moderately well drained and somewhat poorly drained, very slowly permeable soils on uplands. The Kenoma and Woodson soils have silty clay loam surface layers that have been thinned by erosion and very firm silty clay subsoils. This map unit is not highly erodible (NHE).
La	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). Also, this map unit has inclusions of hydric soils.

Nontechnical Soil Descriptions--Continued
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Lb	LULA SILT LOAM, 0 TO 2 PERCENT SLOPES	Deep, nearly level, well drained, moderately permeable soils on uplands. These soils have a silt loam surface layer and a friable, firm, or very firm silty clay loam subsoil. This map unit is not highly erodible (NHE).
Ld	LULA-DWIGHT COMPLEX, 0 TO 2 PERCENT SLOPES	Deep, nearly level, well drained and moderately well drained, moderately permeable and very slowly permeable soils on uplands. The Lula soils have a silt loam surface layer and a friable, firm, and very firm silty clay loam subsoil. The Dwight soils have a silt loam surface layer and an extremely 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, a silty clay loam subsurface layer, and a firm silt loam and silty clay loam subsoil. This map unit is not highly erodible (NHE).
Ns	NIOTAZE-STEPHENVILLE COMPLEX, 4 TO 25 PERCENT SLOPES	Moderately deep, moderately sloping to moderately steep, somewhat poorly drained and well drained, slowly permeable and moderately permeable soils on uplands. The Niotaze soils have a loam surface soil and a very firm silty clay subsoil. The Stephenville soils have a fine sandy loam surface soil and a friable sandy clay loam subsoil. This map unit is highly erodible (HE).
Od	OLPE SOILS, 4 TO 15 PERCENT SLOPES	Deep, moderately sloping and strongly sloping, well drained, slowly permeable soils on uplands. These soils have a gravelly silt loam surface layer, a very gravelly silt loam subsurface layer, and a very firm very gravelly silty clay loam, very gravelly clay loam, and gravelly clay loam subsoil. This map unit is highly erodible (HE).
Og	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.
Os	OSAGE SILTY CLAY LOAM, OCCASIONALLY FLOODED	Deep, nearly level, poorly drained, very slowly permeable soils on flood plains. These soils have a silty clay loam 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.
Rc	RINGO SILTY CLAY LOAM, 4 TO 7 PERCENT SLOPES	Deep, moderately sloping, moderately well drained, very slowly permeable soils on uplands. These soils have a silty clay loam surface layer and a very firm and firm, calcareous silty clay subsoil. This map unit is highly erodible (HE).
Rd	RINGO-SOGN COMPLEX, 4 TO 15 PERCENT SLOPES	Deep and shallow, moderately sloping and strongly sloping, moderately well drained and well drained, very slowly permeable and moderately permeable soils on uplands. The deep Ringo soils have a silty clay loam surface layer and a very firm and firm, calcareous silty clay subsoil. The shallow Sogn soils have a silty clay loam surface layer. This map unit is highly erodible (HE).
Sa	STEPHENVILLE FINE SANDY LOAM, 1 TO 4 PERCENT SLOPES	Moderately deep, gently sloping, well drained, moderately permeable soils on uplands. These soils have a fine sandy loam surface soil and a firm or friable sandy clay loam subsoil. This map unit is not highly erodible (NHE).
Sd	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).

Nontechnical Soil Descriptions--Continued
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Se	SUMMIT SILTY CLAY LOAM, 4 TO 7 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).
Va	VERDIGRIS SILT LOAM, OCCASIONALLY FLOODED	Deep, nearly level, moderately well drained, moderately permeable soils on flood plains. These soils have a silt loam surface layer, a silty clay loam subsurface 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.
Vc	VERDIGRIS SOILS, CHanneled	Deep, nearly level to moderately sloping, moderately well drained, moderately permeable soils on the bottoms and sides of 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).
W	WATER	
Wa	WOODSON 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 layer and a very firm silty clay subsoil. This map unit is not highly erodible (NHE).
Za	ZAAR SILTY CLAY, 1 TO 4 PERCENT SLOPES	

