

CONSTRUCTION MATERIALS
Shawnee County, Kansas

Construction Materials

The following tables give information about the soils as potential sources of gravel, sand, topsoil, reclamation material, and roadfill. Normal compaction, minor processing, and other standard construction practices are assumed.

The soils are rated good, fair, or poor as potential sources of topsoil, reclamation material, and roadfill. The features that limit the soils as sources of these materials are specified in the tables. The numerical ratings given after the specified features indicate the degree to which the features limit the soils as sources of topsoil, reclamation material, or roadfill. The lower the number, the greater the limitation.

The soils are rated as a probable or improbable source of sand and gravel. A rating of probable means that the source material is likely to be in or below the soil. The numerical ratings in these columns indicate the degree of probability. The number 0.00 indicates that the soil is an improbable source. A number between 0.00 and 1.00 indicates the degree to which the soil is a probable source of sand or gravel.

Sand and gravel are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In these tables, only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the lowest layer of the soil contains sand or gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the sand or gravel layer below the depth of observation exceeds the minimum thickness.

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading, and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a water table, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, depth to a water table, rock fragments, depth to bedrock or a cemented pan, and toxic material.

The surface layer of most soils is generally preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

Reclamation material is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reconstruction material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In this table, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a water table, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO classification of the soil) and linear extensibility (shrink-swell potential).

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
045OE: Oska-----	88	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
045SV: Sibleyville-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.00 0.01
045SX: Rock Outcrop-----	60	Not rated		Not rated	
Vinland-----	26	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
045VM: Vinland-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Martin-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
045WS: Woodson-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
085KB: Kennebec-----	86	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
085MC: Martin-----	48	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vinland-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
085ZA: Zook-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
087EC: Eudora-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Bismarckgrove-----	20	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.22
087HC: Haig-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
087KV: Konawa-----	91	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
087RS: Rossville-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
087SO: Shelby-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Pawnee-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
087WC: Wabash-----	94	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
139ED: Elmont-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
149KM: Kimo-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
197IB: Irwin-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
197IV: Ivan-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
197IX: Ivan-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
197MR: Morrill-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
197MS: Morrill, very stony-	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
197SA: Sarpy-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.50 0.50
197WF: Wamego-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
197WY: Wymore-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
2797: Morrill, stony-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.04
AED: Arents, Earthen Dam-	100	Not rated		Not rated	
An: Kennebec-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Bk: Martin-----	54	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

CONSTRUCTION MATERIALS--Continued
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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Kennebec-----	43	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
BOA: Borrow Areas-----	100	Not rated		Not rated	
Br: Fluents-----	97	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Dm: Dwight-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Martin-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ds: Dwight-----	97	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Dw: Dwight-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
El: Elmont-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Em: Elmont, eroded-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
En: Elmont-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Eo: Elmont, eroded-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ep: Elmont, eroded-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Dwight-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Es: Eudora-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.06 0.08
Et: Eudora-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Eu: Eudora-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Ev: Eudora-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Kimo-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ew: Eudora-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.00 0.08
Kimo-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Gm: Gymer-----	88	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Gy: Gymer-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
INL: Aquolls-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Kb: Kennebec-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Kc: Chase-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
KF: Kennebec-----	98	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Km: Kimo-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ko: Kimo-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.07
Ks: Kipson-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sogn-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ku: Konawa-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Kw: Konawa-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
La: Labette-----	88	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Lb: Labette-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Lc: Labette, eroded----	95	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ld: Ladysmith-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
LIQ: Limestone Quarry----	100	Not rated		Not rated	
Lm: Ladysmith-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ls: Ladysmith, eroded---	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ma: Made Land-----	100	Not rated		Not rated	
Mb: Martin-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mc: Martin-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Me: Martin, eroded-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mf: Martin-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mh: Martin, eroded-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mk: Martin-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mm: Morrill-----	91	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mn: Morrill, eroded-----	91	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Mo: Morrill-----	91	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
MOO: Morrill-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mp: Morrill-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Gravelly Land-----	30	Not rated		Not rated	
Mr: Muir-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
MRR: Morrill-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Pa: Pawnee-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Pc: Pawnee-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Pe: Pawnee, eroded-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Pn: Pawnee-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
RD: Reading-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Re: Reading-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rv: River Wash-----	100	Not rated		Not rated	
Sa: Sarpy-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.50 0.50
SAP: Sand Pit-----	100	Not rated		Not rated	
Se: Sarpy-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.50 0.50
Eudora-----	45	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.00 0.08

CONSTRUCTION MATERIALS--Continued
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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Sg: Sharpsburg-----	88	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sh: Sharpsburg-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sk: Shelby-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sm: Shelby-----	88	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sn: Shelby, eroded-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
So: Shelby-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sp: Morrill-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
Sr: Morrill, eroded-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
Ss: Morrill-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
St: Sibleyville-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Su: Sibleyville-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sv: Sogn-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vinland-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sw: Stony Steep Land----	60	Not rated		Not rated	
Vinland-----	26	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vn: Vinland-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
W: Water-----	100	Not rated		Not rated	
Wa: Wabash-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Wb: Wabash-----	88	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
We: Welda-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
045OE: Oska-----	88	Poor Too clayey Too acid Depth to bedrock No water erosion limitation	0.00 0.95 0.99 0.99	Poor Depth to bedrock Shrink-swell	0.00 0.12	Poor Too Clayey Depth to bedrock	0.00 0.99
045SV: Sibleyville-----	50	Fair Depth to bedrock Droughty Low content of organic matter Too acid	0.29 0.57 0.88 0.97	Poor Depth to bedrock	0.00	Fair Depth to bedrock Rock fragments Slope	0.29 0.50 0.63
045SX: Rock Outcrop-----	60	Not rated		Not rated		Not rated	
Vinland-----	26	Poor Depth to bedrock Droughty Low content of organic matter Water erosion Too clayey	0.00 0.07 0.88 0.90 0.92	Poor Depth to bedrock Slope Shrink-swell	0.00 0.00 0.87	Poor Slope Depth to bedrock Too Clayey Rock fragments	0.00 0.00 0.66 0.97
045VM: Vinland-----	40	Poor Depth to bedrock Droughty Low content of organic matter Water erosion Too clayey	0.00 0.07 0.88 0.90 0.92	Poor Depth to bedrock Shrink-swell	0.00 0.87	Poor Depth to bedrock Slope Too Clayey Rock fragments	0.00 0.63 0.66 0.97
Martin-----	25	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.17 0.53	Poor Too Clayey Depth to saturated zone Slope	0.00 0.53 0.96
045WS: Woodson-----	90	Poor Too clayey Water erosion Too acid	0.00 0.90 0.95	Poor Depth to saturated zone Shrink-swell	0.00 0.15	Poor Too Clayey Depth to saturated zone	0.00 0.00
085KB: Kennebec-----	86	Good		Fair Shrink-swell	0.87	Good	
085MC: Martin-----	48	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.21 0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53
Vinland-----	40	Poor Depth to bedrock Droughty Water erosion Too clayey	0.00 0.11 0.90 0.98	Poor Depth to bedrock Shrink-swell	0.00 0.87	Poor Depth to bedrock Rock fragments Too Clayey	0.00 0.97 0.98
085ZA: Zook-----	90	Poor Too clayey No water erosion limitation	0.00 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
087EC: Eudora-----	65	Fair Low content of organic matter Water erosion	0.32 0.90	Good		Good	
Bismarckgrove-----	20	Fair Water erosion Too clayey	0.90 0.92	Good		Fair Too Clayey	0.92
087HC: Haig-----	85	Poor Too clayey Low content of organic matter Too acid No water erosion limitation	0.00 0.32 0.74 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
087KV: Konawa-----	91	Fair Low content of organic matter Too acid	0.32 0.84	Fair Shrink-swell	0.99	Good	
087RS: Rossville-----	85	Fair Low content of organic matter Water erosion Too acid	0.50 0.90 0.99	Fair Shrink-swell	0.88	Good	
087SO: Shelby-----	65	Fair Low content of organic matter Too clayey Too acid	0.88 0.92 0.97	Fair Shrink-swell	0.87	Fair Too Clayey Slope	0.66 0.84
Pawnee-----	25	Poor Too clayey No water erosion limitation	0.00 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.17	Poor Too Clayey Depth to saturated zone Slope	0.00 0.00 0.84
087WC: Wabash-----	94	Poor Too clayey No water erosion limitation	0.00 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00
139ED: Elmont-----	85	Fair Water erosion Too acid Too clayey	0.90 0.97 0.98	Fair Depth to bedrock Shrink-swell	0.74 0.91	Fair Too Clayey	0.81
149KM: Kimo-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.08 0.90	Fair Depth to saturated zone	0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53
197IB: Irwin-----	80	Poor Too clayey	0.00	Fair Shrink-swell	0.15	Poor Too Clayey	0.00
197IV: Ivan-----	90	Good		Fair Shrink-swell	0.97	Good	
197IX: Ivan-----	80	Fair Too clayey	0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.98

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
197MR: Morrill-----	75	Fair Low content of organic matter Too clayey Too acid No water erosion limitation	0.88 0.92 0.97 0.99	Fair Shrink-swell	0.99	Fair Too Clayey Rock fragments	0.66 0.88
197MS: Morrill, very stony-	75	Fair Too acid Too clayey	0.97 0.98	Fair Shrink-swell	0.99	Fair Hard to reclaim Too Clayey Rock fragments Slope	0.50 0.81 0.88 0.96
197SA: Sarpy-----	85	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.08 0.35	Good		Poor Too sandy	0.00
197WF: Wamego-----	75	Fair Too clayey Depth to bedrock Droughty Water erosion Too acid	0.02 0.16 0.72 0.90 0.95	Poor Depth to bedrock Shrink-swell	0.00 0.19	Fair Too Clayey Depth to bedrock Slope	0.02 0.16 0.63
197WY: Wymore-----	100	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
2797: Morrill, stony-----	85	Fair Too clayey Low content of organic matter Too acid	0.68 0.88 0.97	Fair Shrink-swell	0.99	Fair Too Clayey Rock fragments Slope	0.49 0.76 0.96
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
An: Kennebec-----	90	Good		Fair Shrink-swell	0.87	Good	
Bk: Martin-----	54	Poor Too clayey Low content of organic matter Too acid No water erosion limitation	0.00 0.88 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.21 0.50	Poor Too Clayey Depth to saturated zone	0.00 0.50
Kennebec-----	43	Good		Fair Shrink-swell	0.87	Good	
BOA: Borrow Areas-----	100	Not rated		Not rated		Not rated	
Br: Fluents-----	97	Fair Too acid	0.99	Fair Shrink-swell	0.87	Good	

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dm: Dwight-----	60	Poor Too clayey Low content of organic matter Water erosion	0.00 0.32 0.90	Fair Shrink-swell	0.12	Poor Too Clayey Sodium content	0.00 0.78
Martin-----	30	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.21 0.50	Poor Too Clayey Depth to saturated zone	0.00 0.50
Ds: Dwight-----	97	Poor Too clayey Low content of organic matter Water erosion	0.00 0.32 0.90	Fair Shrink-swell	0.12	Poor Too Clayey Sodium content	0.00 0.78
Dw: Dwight-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.32 0.90	Fair Shrink-swell	0.12	Poor Too Clayey Sodium content	0.00 0.78
El: Elmont-----	90	Fair Too clayey Water erosion Too acid	0.68 0.90 0.97	Fair Depth to bedrock Shrink-swell	0.58 0.87	Fair Too Clayey	0.53
Em: Elmont, eroded-----	90	Fair Too clayey Water erosion Too acid	0.82 0.90 0.97	Fair Depth to bedrock Shrink-swell	0.58 0.87	Fair Too Clayey	0.64
En: Elmont-----	90	Fair Too clayey Water erosion Too acid	0.82 0.90 0.97	Fair Depth to bedrock Shrink-swell	0.58 0.87	Fair Too Clayey Slope	0.64 0.84
Eo: Elmont, eroded-----	90	Fair Too clayey Water erosion Too acid	0.68 0.90 0.97	Fair Depth to bedrock Shrink-swell	0.58 0.87	Fair Too Clayey Slope	0.53 0.84
Ep: Elmont, eroded-----	75	Fair Too clayey Water erosion Too acid	0.82 0.90 0.97	Fair Depth to bedrock Shrink-swell	0.58 0.87	Fair Too Clayey	0.64
Dwight-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.32 0.90	Fair Shrink-swell	0.12	Poor Too Clayey Sodium content	0.00 0.78
Es: Eudora-----	95	Fair Water erosion Low content of organic matter	0.90 0.98	Good		Good	
Et: Eudora-----	90	Fair Low content of organic matter Water erosion	0.08 0.90	Good		Good	

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Eu: Eudora-----	85	Fair Low content of organic matter Water erosion	0.08 0.90	Good		Fair Slope	0.96
Ev: Eudora-----	60	Fair Water erosion	0.90	Good		Good	
Kimo-----	30	Poor Too clayey Low content of organic matter No water erosion limitation	0.00 0.50 0.99	Fair Depth to saturated zone Shrink-swell	0.53 0.97	Poor Too Clayey Depth to saturated zone	0.00 0.53
Ew: Eudora-----	60	Fair Low content of organic matter Water erosion	0.08 0.90	Good		Good	
Kimo-----	30	Fair Too clayey Low content of organic matter Water erosion	0.02 0.88 0.90	Fair Depth to saturated zone Shrink-swell	0.53 0.99	Fair Too Clayey Depth to saturated zone	0.02 0.53
Gm: Gymer-----	88	Fair Too clayey Too acid Low content of organic matter Water erosion	0.02 0.84 0.88 0.90	Fair Shrink-swell	0.90	Fair Too Clayey	0.02
Gy: Gymer-----	100	Fair Too clayey Too acid Water erosion	0.68 0.84 0.90	Fair Shrink-swell	0.87	Fair Too Clayey	0.59
INL: Aquolls-----	100	Poor Low content of organic matter	0.00	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
Kb: Kennebec-----	95	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Kc: Chase-----	85	Good		Fair Shrink-swell Depth to saturated zone	0.41 0.53	Fair Depth to saturated zone	0.53
KF: Kennebec-----	98	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Km: Kimo-----	90	Poor Too clayey Low content of organic matter No water erosion limitation	0.00 0.50 0.99	Fair Depth to saturated zone Shrink-swell	0.53 0.97	Poor Too Clayey Depth to saturated zone	0.00 0.53

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ko: Kimo-----	95	Fair Low content of organic matter No water erosion limitation	0.50 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.99	Poor Depth to saturated zone	0.00
Ks: Kipson-----	50	Poor Depth to bedrock Carbonate content Droughty Low content of organic matter Too clayey	0.00 0.00 0.01 0.88 0.92	Poor Depth to bedrock Shrink-swell	0.00 0.87	Poor Depth to bedrock Carbonate content Slope Too Clayey Rock fragments	0.00 0.00 0.04 0.66 0.68
Sogn-----	35	Poor Droughty Depth to bedrock Too clayey	0.00 0.00 0.98	Poor Depth to bedrock	0.00	Poor Depth to bedrock Slope Too Clayey	0.00 0.84 0.93
Ku: Konawa-----	85	Fair Low content of organic matter Too acid	0.32 0.54	Good		Good	
Kw: Konawa-----	85	Fair Low content of organic matter Too acid	0.32 0.54	Good		Fair Slope	0.84
La: Labette-----	88	Poor Too clayey Too acid Depth to bedrock No water erosion limitation	0.00 0.95 0.99 0.99	Poor Depth to bedrock Shrink-swell	0.00 0.19	Poor Rock fragments Too Clayey Depth to bedrock	0.00 0.00 0.99
Lb: Labette-----	85	Poor Too clayey Too acid Depth to bedrock No water erosion limitation	0.00 0.95 0.99 0.99	Poor Depth to bedrock Shrink-swell	0.00 0.19	Poor Rock fragments Too Clayey Depth to bedrock	0.00 0.00 0.99
Lc: Labette, eroded----	95	Poor Too clayey Depth to bedrock Too acid No water erosion limitation	0.00 0.93 0.95 0.99	Poor Depth to bedrock Shrink-swell	0.00 0.12	Poor Rock fragments Too Clayey Depth to bedrock	0.00 0.00 0.93
Ld: Ladysmith-----	90	Poor Too clayey No water erosion limitation	0.00 0.99	Fair Shrink-swell Depth to saturated zone	0.12 0.50	Poor Too Clayey Depth to saturated zone	0.00 0.50
LIQ: Limestone Quarry----	100	Not rated		Not rated		Not rated	
Lm: Ladysmith-----	85	Poor Too clayey No water erosion limitation	0.00 0.99	Fair Shrink-swell Depth to saturated zone	0.26 0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53
Ls: Ladysmith, eroded---	100	Poor Too clayey No water erosion limitation	0.00 0.99	Fair Shrink-swell Depth to saturated zone	0.26 0.50	Poor Too Clayey Depth to saturated zone	0.00 0.50

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ma: Made Land-----	100	Not rated		Not rated		Not rated	
Mb: Martin-----	90	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.21 0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53
Mc: Martin-----	85	Poor Too clayey Low content of organic matter Too acid No water erosion limitation	0.00 0.88 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.17 0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53
Me: Martin, eroded-----	90	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.12 0.50	Poor Too Clayey Depth to saturated zone	0.00 0.50
Mf: Martin-----	90	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.21 0.50	Poor Too Clayey Depth to saturated zone Slope	0.00 0.50 0.96
Mh: Martin, eroded-----	85	Poor Too clayey Too acid No water erosion limitation	0.00 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.12 0.50	Poor Too Clayey Depth to saturated zone Slope	0.00 0.50 0.96
Mk: Martin-----	90	Poor Too clayey Low content of organic matter Too acid No water erosion limitation	0.00 0.50 0.95 0.99	Fair Shrink-swell Depth to saturated zone	0.12 0.50	Poor Too Clayey Depth to saturated zone	0.00 0.50
Mm: Morrill-----	91	Fair Low content of organic matter Too acid No water erosion limitation	0.50 0.97 0.99	Fair Shrink-swell	0.94	Fair Rock fragments	0.97
Mn: Morrill, eroded-----	91	Fair Low content of organic matter Too acid No water erosion limitation	0.50 0.97 0.99	Good		Fair Rock fragments	0.88
Mo: Morrill-----	91	Fair Low content of organic matter Too acid No water erosion limitation	0.50 0.97 0.99	Good		Fair Slope Rock fragments	0.84 0.97

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MOO: Morrill-----	90	Fair Low content of organic matter Too acid No water erosion limitation	0.50 0.97 0.99	Fair Shrink-swell	0.90	Fair Rock fragments	0.88
Mp: Morrill-----	55	Fair Low content of organic matter Too acid No water erosion limitation	0.50 0.97 0.99	Good		Fair Rock fragments	0.97
Gravelly Land-----	30	Not rated		Not rated		Not rated	
Mr: Muir-----	85	Good		Fair Shrink-swell	0.87	Good	
MRR: Morrill-----	90	Fair Low content of organic matter Too clayey Too acid	0.88 0.92 0.97	Fair Shrink-swell	0.87	Fair Too Clayey Rock fragments	0.66 0.88
Pa: Pawnee-----	100	Poor Too clayey Low content of organic matter No water erosion limitation	0.00 0.50 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.23	Poor Too Clayey Depth to saturated zone	0.00 0.00
Pc: Pawnee-----	85	Poor Too clayey Low content of organic matter No water erosion limitation	0.00 0.08 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.17	Poor Too Clayey Depth to saturated zone	0.00 0.00
Pe: Pawnee, eroded-----	90	Poor Too clayey Low content of organic matter No water erosion limitation	0.00 0.08 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.17	Poor Too Clayey Depth to saturated zone	0.00 0.00
Pn: Pawnee-----	85	Poor Too clayey Low content of organic matter No water erosion limitation	0.00 0.50 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.23	Poor Too Clayey Depth to saturated zone Slope	0.00 0.00 0.96
RD: Reading-----	90	Fair Water erosion Too acid Too clayey	0.90 0.95 0.98	Poor Low strength Shrink-swell	0.00 0.90	Fair Too Clayey	0.89
Re: Reading-----	85	Fair Water erosion Too acid Too clayey	0.90 0.95 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.89

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rv: River Wash-----	100	Not rated		Not rated		Not rated	
Sa: Sarpy-----	100	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.63	Good		Poor Too sandy	0.00
SAP: Sand Pit-----	100	Not rated		Not rated		Not rated	
Se: Sarpy-----	55	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.35	Good		Poor Too sandy	0.00
Eudora-----	45	Fair Water erosion	0.90	Good		Good	
Sg: Sharpsburg-----	88	Fair Too acid Low content of organic matter Water erosion Too clayey	0.74 0.88 0.90 0.92	Fair Shrink-swell	0.29	Fair Too Clayey	0.92
Sh: Sharpsburg-----	85	Fair Too acid Low content of organic matter Water erosion Too clayey	0.74 0.88 0.90 0.98	Fair Shrink-swell	0.29	Fair Too Clayey	0.98
Sk: Shelby-----	95	Fair Low content of organic matter Too clayey Too acid	0.88 0.92 0.97	Fair Shrink-swell	0.87	Fair Too Clayey	0.66
Sm: Shelby-----	88	Fair Low content of organic matter Too clayey Too acid	0.88 0.92 0.97	Fair Shrink-swell	0.87	Fair Too Clayey	0.66
Sn: Shelby, eroded-----	100	Fair Low content of organic matter Too clayey Too acid	0.88 0.92 0.97	Fair Shrink-swell	0.87	Fair Too Clayey	0.66
So: Shelby-----	85	Fair Low content of organic matter Too clayey Too acid	0.88 0.92 0.97	Fair Shrink-swell	0.87	Fair Too Clayey Slope	0.66 0.84
Sp: Morrill-----	85	Fair Low content of organic matter Too acid	0.88 0.97	Good		Fair Rock fragments	0.88

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sr: Morrill, eroded-----	85	Fair Low content of organic matter Too acid	0.88 0.97	Fair Shrink-swell	0.99	Fair Rock fragments	0.88
Ss: Morrill-----	85	Fair Low content of organic matter Too acid	0.88 0.97	Good		Fair Slope Rock fragments	0.84 0.88
St: Sibleyville-----	90	Fair Too acid Depth to bedrock	0.97 0.99	Poor Depth to bedrock	0.00	Fair Depth to bedrock	0.99
Su: Sibleyville-----	90	Fair Too acid Depth to bedrock	0.97 0.99	Poor Depth to bedrock	0.00	Fair Slope Depth to bedrock	0.96 0.99
Sv: Sogn-----	55	Poor Droughty Depth to bedrock Too clayey	0.00 0.00 0.98	Poor Depth to bedrock	0.00	Poor Depth to bedrock Too Clayey	0.00 0.93
Vinland-----	25	Poor Depth to bedrock Droughty Low content of organic matter Water erosion Too clayey	0.00 0.00 0.88 0.90 0.92	Poor Depth to bedrock Shrink-swell	0.00 0.87	Poor Depth to bedrock Slope Too Clayey Rock fragments	0.00 0.04 0.66 0.97
Sw: Stony Steep Land---	60	Not rated		Not rated		Not rated	
Vinland-----	26	Poor Depth to bedrock Droughty Water erosion Too clayey	0.00 0.11 0.90 0.98	Poor Depth to bedrock Slope Shrink-swell	0.00 0.00 0.87	Poor Depth to bedrock Slope Rock fragments Too Clayey	0.00 0.00 0.97 0.98
Vn: Vinland-----	100	Poor Depth to bedrock Droughty Low content of organic matter Water erosion Too clayey	0.00 0.00 0.88 0.90 0.92	Poor Depth to bedrock Shrink-swell	0.00 0.87	Poor Depth to bedrock Too Clayey Rock fragments	0.00 0.66 0.97
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wabash-----	90	Poor Too clayey	0.00	Poor Depth to saturated zone Shrink-swell	0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00
Wb: Wabash-----	88	Poor Too clayey	0.00	Poor Depth to saturated zone Shrink-swell	0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00

CONSTRUCTION MATERIALS--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
We: Welda-----	95	Fair Low content of organic matter Too clayey Too acid No water erosion limitation	0.18 0.32 0.84 0.99	Fair Shrink-swell	0.89	Fair Too Clayey	0.19

