

CONSTRUCTION MATERIALS
Sedgwick 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
Sedgwick 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
015LS: Ladysmith-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079CR: Crete-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079CT: Crete-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079DE: Detroit-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079DU: Drummond-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079FA: Farnum-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.08
079FE: Farnum-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.08
079GD: Geary-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079KA: Kaski-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079LA: Ladysmith-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079LB: Ladysmith-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
079SM: Smolan-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
095AD: Albion-----	100	Poor Thickest layer Bottom layer	0.00 0.00	Fair Bottom layer Thickest layer	0.01 0.10
095LA: Lincoln-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.22 0.39
095WA: Waldeck-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Good Thickest layer	0.09
191BA: Bethany-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

CONSTRUCTION MATERIALS--Continued
Sedgwick 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
191BB: Bethany-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
191DR: Dale-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Reinach-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
191EA: Elandco-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
191LO: Lesho-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.99
1011: Albion-----	70	Poor Thickest layer Bottom layer	0.00 0.00	Fair Thickest layer Bottom layer	0.67 0.90
Shellabarger-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.09 0.88
1070: Avans-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
1071: Avans-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
1072: Avans-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
2204: Jamash-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Piedmont-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
2205: Jamash-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Piedmont-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
2207: Jamash-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
2381: Kanza-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.22 0.90
Ninnescah-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.10 0.12

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
2587: Imano-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Good Thickest layer	0.66
2948: Nalim-----	80	Poor Thickest layer Bottom layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.98
3052: Ost-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Clark-----	45	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
3170: Penalosa-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
3171: Penalosa-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
3535: Shellabarger-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.09 0.88
Nalim-----	45	Poor Thickest layer Bottom layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.98
3639: Taver-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
3966: Willowbrook-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Good Thickest layer	0.61
4004: Yaggy-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Good Thickest layer	0.16
Aa: Albion-----	70	Poor Thickest layer Bottom layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.01
Shellabarger-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
Ab: Albion-----	50	Poor Thickest layer Bottom layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.01
Shellabarger-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
AED: Arents, Earthen Dam-	100	Not rated		Not rated	
Ba: Blanket-----	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
Bb: Blanket-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
BRR: Brewer-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ca: Canadian-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.07 0.07
Cb: Canadian-----	70	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.07 0.07
Waldeck-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.06 0.15
Cc: Carwile-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Cd: Clark-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ost-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ce: Clime-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ea: Elandco-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Eb: Elandco-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ec: Elandco-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Fa: Farnum-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Fb: Farnum-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Fc: Farnum-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.33
Ga: Goessel-----	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
Gb: Goessel-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ia: Irwin-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ib: Irwin-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ic: Irwin-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
INT: Aguolls-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
KAA: Kaski-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
La: Lesho-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.12
Lb: Lincoln-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.01 0.22
M-W: Miscellaneous Water-	100	Not rated		Not rated	
Ma: Milan-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mb: Milan-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mc: Milan-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Na: Naron-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.01 0.08
Oc: Wellsford-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Od: Wellsford-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rock Outcrop-----	40	Not rated		Not rated	

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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
Pa: Pits-----	100	Not rated		Not rated	
Pb: Plevna-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Good Thickest layer	0.09
Pc: Pratt-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.12 0.22
Pd: Pratt-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.12 0.22
Tivoli-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.12 0.50
Ra: Renfrow-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rb: Renfrow-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rc: Renfrow-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Wellsford-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rd: Rosehill-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Sa: Shellabarger-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
Sb: Shellabarger-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
Sc: Shellabarger-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.03 0.08
Ta: Tabler-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Tb: Tabler-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Drummond-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ua: Urban Land-----	70	Not rated		Not rated	

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
Canadian-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.07 0.07
Ub: Urban Land-----	75	Not rated		Not rated	
Elandco-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Uc: Urban Land-----	70	Not rated		Not rated	
Farnum-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ud: Urban Land-----	70	Not rated		Not rated	
Irwin-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ue: Urban Land-----	70	Not rated		Not rated	
Tabler-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Va: Vanoss-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vb: Vanoss-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vc: Vanoss-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vd: Vanoss-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ve: Vernon-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vf: Vernon-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
W: Water-----	100	Not rated		Not rated	
Wa: Waldeck-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.06 0.15
Wb: Waurika-----	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

CONSTRUCTION MATERIALS--Continued
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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation. See text for further explanation of ratings in this table.)

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
015LS: Ladysmith-----	90	Poor Too clayey Low content of organic matter No water erosion limitation	0.00 0.50 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.43	Poor Too Clayey Depth to saturated zone	0.00 0.00
079CR: Crete-----	100	Poor Too clayey Too acid Low content of organic matter Water erosion	0.00 0.84 0.88 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
079CT: Crete-----	100	Poor Too clayey Too acid Low content of organic matter Water erosion	0.00 0.84 0.88 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
079DE: Detroit-----	100	Poor Low content of organic matter Too clayey No water erosion limitation	0.00 0.00 0.99	Fair Shrink-swell	0.49	Poor Too Clayey	0.00
079DU: Drummond-----	75	Poor Low content of organic matter Too clayey Water erosion Salinity Droughty	0.00 0.00 0.68 0.88 0.96	Fair Shrink-swell	0.12	Poor Too Clayey Salinity	0.00 0.00
079FA: Farnum-----	100	Poor Low content of organic matter	0.00	Fair Shrink-swell	0.99	Good	
079FE: Farnum-----	100	Poor Low content of organic matter	0.00	Fair Shrink-swell	0.98	Good	
079GD: Geary-----	100	Poor Low content of organic matter Water erosion Too acid Too clayey	0.00 0.90 0.95 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.49
079KA: Kaski-----	100	Good		Fair Shrink-swell	0.99	Good	
079LA: Ladysmith-----	100	Poor Too clayey No water erosion limitation	0.00 0.99	Fair Shrink-swell	0.31	Poor Too Clayey	0.00
079LB: Ladysmith-----	100	Poor Too clayey No water erosion limitation	0.00 0.99	Fair Shrink-swell	0.31	Poor Too Clayey	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
079SM: Smolan-----	90	Poor Too clayey No water erosion limitation	0.00 0.99	Fair Shrink-swell	0.49	Poor Too Clayey	0.00
095AD: Albion-----	100	Poor Low content of organic matter Too acid	0.00 0.95	Good		Poor Rock fragments Slope Hard to reclaim	0.00 0.63 0.68
095LA: Lincoln-----	100	Poor Wind erosion Droughty Low content of organic matter Too sandy	0.00 0.04 0.08 0.22	Good		Fair Too sandy	0.22
095WA: Waldeck-----	100	Good		Good		Good	
191BA: Bethany-----	100	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.87	Poor Too Clayey	0.00
191BB: Bethany-----	100	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.87	Poor Too Clayey	0.00
191DR: Dale-----	50	Poor Low content of organic matter No water erosion limitation	0.00 0.99	Fair Shrink-swell	0.96	Good	
Reinach-----	50	Fair No water erosion limitation	0.99	Good		Good	
191EA: Elandco-----	100	Fair Water erosion	0.90	Fair Shrink-swell	0.87	Good	
191LO: Lesho-----	100	Poor Low content of organic matter Too clayey	0.00 0.95	Good		Fair Too Clayey	0.90
1011: Albion-----	70	Poor Low content of organic matter Too sandy Too acid	0.00 0.00 0.95	Good		Poor Too sandy Hard to reclaim Rock fragments	0.00 0.32 0.72
Shellabarger-----	30	Fair Low content of organic matter Too acid	0.12 0.84	Good		Good	
1070: Avans-----	100	Fair Too acid Low content of organic matter No water erosion limitation	0.46 0.56 0.99	Poor Low strength	0.00	Good	

CONSTRUCTION MATERIALS--Continued
Sedgwick 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
1071: Avans-----	85	Fair Too acid Low content of organic matter No water erosion limitation	0.46 0.56 0.99	Poor Low strength	0.00	Good	
1072: Avans-----	85	Fair Too acid Low content of organic matter No water erosion limitation	0.46 0.56 0.99	Poor Low strength	0.00	Good	
2204: Jamash-----	50	Poor Droughty Depth to bedrock Too clayey Carbonate content No water erosion limitation	0.00 0.00 0.15 0.92 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.27	Poor Hard to reclaim Depth to bedrock Too Clayey	0.00 0.00 0.13
Piedmont-----	50	Poor Too clayey Depth to bedrock Low content of organic matter Water erosion Droughty Carbonate content	0.00 0.71 0.88 0.90 0.95 0.97	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.46	Poor Too Clayey Rock fragments Depth to bedrock Hard to reclaim	0.00 0.12 0.71
2205: Jamash-----	60	Poor Droughty Depth to bedrock Too clayey Carbonate content No water erosion limitation	0.00 0.00 0.15 0.92 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.27	Poor Hard to reclaim Depth to bedrock Too Clayey	0.00 0.00 0.13
Piedmont-----	40	Poor Too clayey Depth to bedrock Low content of organic matter Water erosion Droughty Carbonate content	0.00 0.71 0.88 0.90 0.95 0.97	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.46	Poor Too Clayey Rock fragments Depth to bedrock Hard to reclaim	0.00 0.12 0.71
2207: Jamash-----	80	Poor Droughty Depth to bedrock Too clayey Carbonate content No water erosion limitation	0.00 0.00 0.15 0.92 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.27	Poor Hard to reclaim Depth to bedrock Too Clayey	0.00 0.00 0.13
2381: Kanza-----	50	Fair Low content of organic matter Too sandy Too acid	0.12 0.22 0.95	Fair Depth to saturated zone	0.14	Fair Depth to saturated zone Too sandy	0.14 0.22
Ninnescah-----	50	Fair Low content of organic matter Too sandy	0.08 0.91	Fair Depth to saturated zone	0.53	Fair Depth to saturated zone Too sandy	0.53 0.91
2587: Imano-----	85	Fair Low content of organic matter	0.12	Good		Good	

CONSTRUCTION MATERIALS--Continued
Sedgwick 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
2948: Nalim-----	80	Fair Low content of organic matter Too acid	0.88 0.95	Fair Shrink-swell	0.94	Fair Hard to reclaim Hard to reclaim	0.01 0.32
3052: Ost-----	55	Fair Low content of organic matter Carbonate content	0.08 0.68	Good		Fair Carbonate content	0.80
Clark-----	45	Poor Carbonate content Low content of organic matter	0.00 0.02	Fair Low strength Shrink-swell	0.22 0.87	Good	
3170: Penalosa-----	100	Fair Low content of organic matter Too clayey Water erosion Too acid	0.10 0.20 0.90 0.95	Poor Low strength Shrink-swell	0.00 0.61	Fair Too Clayey	0.18
3171: Penalosa-----	100	Fair Low content of organic matter Too clayey Water erosion Too acid	0.10 0.20 0.90 0.95	Poor Low strength Shrink-swell	0.00 0.61	Fair Too Clayey	0.18
3535: Shellabarger-----	55	Fair Low content of organic matter Too acid	0.12 0.84	Good		Good	
Nalim-----	45	Fair Low content of organic matter Too acid	0.88 0.95	Fair Shrink-swell	0.94	Fair Hard to reclaim Hard to reclaim	0.01 0.32
3639: Taver-----	90	Poor Too clayey No water erosion limitation	0.00 0.99	Poor Low strength Shrink-swell	0.00 0.27	Poor Too Clayey	0.00
3966: Willowbrook-----	90	Poor Too sandy Low content of organic matter Too acid	0.00 0.00 0.99	Good		Poor Too sandy Rock fragments	0.00 0.50
4004: Yaggy-----	95	Poor Too sandy Low content of organic matter Droughty	0.00 0.00 0.93	Good		Poor Too sandy Hard to reclaim	0.00 0.74
Aa: Albion-----	70	Poor Low content of organic matter Too acid	0.00 0.95	Good		Poor Rock fragments Hard to reclaim	0.00 0.68
Shellabarger-----	30	Poor Low content of organic matter Too acid	0.00 0.84	Good		Good	

CONSTRUCTION MATERIALS--Continued
Sedgwick 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
Ab: Albion-----	50	Poor Low content of organic matter Too acid	0.00 0.95	Good		Poor Rock fragments Slope Hard to reclaim	0.00 0.63 0.68
Shellabarger-----	50	Poor Low content of organic matter Too acid	0.00 0.84	Good		Fair Slope	0.63
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
Ba: Blanket-----	100	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.91	Poor Too Clayey	0.00
Bb: Blanket-----	100	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.91	Poor Too Clayey	0.00
BRR: Brewer-----	85	Poor Too clayey No water erosion limitation	0.00 0.99	Fair Shrink-swell	0.17	Poor Too Clayey	0.00
Ca: Canadian-----	100	Poor Low content of organic matter	0.00	Good		Good	
Cb: Canadian-----	70	Poor Low content of organic matter	0.00	Good		Good	
Waldeck-----	30	Poor Low content of organic matter	0.00	Good		Good	
Cc: Carwile-----	100	Poor Low content of organic matter Too acid No water erosion limitation	0.00 0.97 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.46	Poor Depth to saturated zone	0.00
Cd: Clark-----	75	Poor Low content of organic matter Carbonate content	0.00 0.68	Fair Shrink-swell	0.87	Fair Carbonate content	0.68
Ost-----	25	Poor Low content of organic matter Carbonate content	0.00 0.68	Good		Fair Carbonate content	0.68
Ce: Clime-----	100	Poor Too clayey Droughty Depth to bedrock	0.00 0.20 0.29	Poor Depth to bedrock Shrink-swell	0.00 0.87	Poor Too Clayey Depth to bedrock	0.00 0.29
Ea: Elandco-----	100	Fair Water erosion	0.90	Fair Shrink-swell	0.87	Good	

CONSTRUCTION MATERIALS--Continued
Sedgwick County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Eb: Elandco-----	100	Fair Water erosion	0.90	Fair Shrink-swell	0.87	Good	
Ec: Elandco-----	100	Fair Water erosion	0.90	Fair Shrink-swell	0.87	Good	
Fa: Farnum-----	100	Poor Low content of organic matter	0.00	Fair Shrink-swell	0.99	Good	
Fb: Farnum-----	100	Poor Low content of organic matter	0.00	Fair Shrink-swell	0.99	Good	
Fc: Farnum-----	100	Poor Low content of organic matter	0.00	Good		Good	
Ga: Goessel-----	100	Poor Too clayey Low content of organic matter	0.00 0.00	Fair Shrink-swell Depth to saturated zone	0.12 0.89	Poor Too Clayey Depth to saturated zone	0.00 0.89
Gb: Goessel-----	100	Poor Too clayey Low content of organic matter	0.00 0.00	Fair Shrink-swell Depth to saturated zone	0.12 0.89	Poor Too Clayey Depth to saturated zone	0.00 0.89
Ia: Irwin-----	100	Poor Too clayey	0.00	Fair Shrink-swell	0.16	Poor Too Clayey	0.00
Ib: Irwin-----	100	Poor Too clayey	0.00	Fair Shrink-swell	0.16	Poor Too Clayey	0.00
Ic: Irwin-----	100	Poor Too clayey	0.00	Fair Shrink-swell	0.12	Poor Too Clayey	0.00
INT: Aquolls-----	100	Poor Low content of organic matter	0.00	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
KAA: Kaski-----	100	Good		Fair Shrink-swell	0.99	Good	
La: Lesho-----	100	Poor Low content of organic matter	0.00	Good		Good	
Lb: Lincoln-----	100	Poor Low content of organic matter Droughty Too sandy	0.00 0.10 0.22	Good		Fair Too sandy	0.22
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Ma: Milan-----	100	Poor Low content of organic matter Too acid	0.00 0.95	Fair Shrink-swell	0.89	Good	

CONSTRUCTION MATERIALS--Continued
Sedgwick County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mb: Milan-----	100	Poor Low content of organic matter Too acid	0.00 0.95	Fair Shrink-swell	0.89	Good	
Mc: Milan-----	100	Poor Low content of organic matter Too acid	0.00 0.95	Fair Shrink-swell	0.87	Good	
Na: Naron-----	100	Poor Low content of organic matter	0.00	Good		Good	
Oc: Wellsford-----	100	Poor Droughty Low content of organic matter Depth to bedrock Too clayey	0.00 0.00 0.00 0.00	Poor Depth to bedrock Shrink-swell	0.00 0.12	Poor Depth to bedrock Too Clayey	0.00 0.00
Od: Wellsford-----	60	Poor Droughty Low content of organic matter Depth to bedrock Too clayey	0.00 0.00 0.00 0.00	Poor Depth to bedrock Shrink-swell	0.00 0.12	Poor Depth to bedrock Too Clayey	0.00 0.00
Rock Outcrop-----	40	Not rated		Not rated		Not rated	
Pa: Pits-----	100	Not rated		Not rated		Not rated	
Pb: Plevna-----	100	Poor Low content of organic matter	0.00	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
Pc: Pratt-----	100	Poor Wind erosion Low content of organic matter Too sandy	0.00 0.00 0.78	Good		Fair Too sandy	0.78
Pd: Pratt-----	65	Poor Wind erosion Low content of organic matter Too sandy	0.00 0.00 0.78	Good		Fair Too sandy Slope	0.78 0.96
Tivoli-----	35	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.00 0.04	Fair Slope	0.82	Poor Too sandy Slope	0.00 0.00
Ra: Renfrow-----	100	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.16	Poor Too Clayey	0.00
Rb: Renfrow-----	100	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.16	Poor Too Clayey	0.00

CONSTRUCTION MATERIALS--Continued
Sedgwick County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rc: Renfrow-----	65	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.16	Poor Too Clayey	0.00
Wellsford-----	35	Poor Droughty Low content of organic matter Depth to bedrock Too clayey	0.00 0.00 0.00 0.00	Poor Depth to bedrock Shrink-swell	0.00 0.12	Poor Depth to bedrock Too Clayey	0.00 0.00
Rd: Rosehill-----	100	Poor Too clayey Low content of organic matter Droughty Depth to bedrock	0.00 0.00 0.12 0.58	Poor Depth to bedrock Shrink-swell	0.00 0.15	Poor Too Clayey Depth to bedrock	0.00 0.58
Sa: Shellabarger-----	100	Poor Low content of organic matter Too acid	0.00 0.84	Good		Good	
Sb: Shellabarger-----	100	Poor Low content of organic matter Too acid	0.00 0.84	Good		Good	
Sc: Shellabarger-----	100	Poor Low content of organic matter Too acid	0.00 0.84	Good		Good	
Ta: Tabler-----	100	Poor Too clayey Low content of organic matter Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.12	Poor Too Clayey	0.00
Tb: Tabler-----	60	Poor Too clayey Low content of organic matter Water erosion	0.00 0.00 0.68	Fair Shrink-swell	0.12	Poor Too Clayey	0.00
Drummond-----	40	Poor Low content of organic matter Too clayey Water erosion	0.00 0.00 0.37	Fair Shrink-swell	0.56	Poor Too Clayey Salinity	0.00 0.88
Ua: Urban Land-----	70	Not rated		Not rated		Not rated	
Canadian-----	30	Poor Low content of organic matter	0.00	Good		Good	
Ub: Urban Land-----	75	Not rated		Not rated		Not rated	
Elandco-----	25	Fair Water erosion	0.90	Fair Shrink-swell	0.87	Good	
Uc: Urban Land-----	70	Not rated		Not rated		Not rated	

CONSTRUCTION MATERIALS--Continued
Sedgwick County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Farnum-----	30	Poor Low content of organic matter	0.00	Good		Good	
Ud: Urban Land-----	70	Not rated		Not rated		Not rated	
Irwin-----	30	Poor Too clayey	0.00	Fair Shrink-swell	0.16	Poor Too Clayey	0.00
Ue: Urban Land-----	70	Not rated		Not rated		Not rated	
Tabler-----	30	Poor Too clayey Low content of organic matter Water erosion	0.00 0.00 0.90	Fair Shrink-swell	0.12	Poor Too Clayey	0.00
Va: Vanoss-----	100	Poor Low content of organic matter Too acid Too clayey No water erosion limitation	0.00 0.97 0.98 0.99	Fair Shrink-swell	0.90	Fair Too Clayey	0.49
Vb: Vanoss-----	100	Poor Low content of organic matter Too acid Too clayey No water erosion limitation	0.00 0.97 0.98 0.99	Fair Shrink-swell	0.90	Fair Too Clayey	0.49
Vc: Vanoss-----	100	Poor Low content of organic matter Too acid Too clayey No water erosion limitation	0.00 0.97 0.98 0.99	Fair Shrink-swell	0.90	Fair Too Clayey	0.49
Vd: Vanoss-----	100	Poor Low content of organic matter Too acid Too clayey No water erosion limitation	0.00 0.97 0.98 0.99	Fair Shrink-swell	0.87	Fair Too Clayey	0.49
Ve: Vernon-----	100	Poor Too clayey Low content of organic matter Droughty No water erosion limitation	0.00 0.00 0.94 0.99	Fair Shrink-swell	0.12	Poor Too Clayey	0.00
Vf: Vernon-----	100	Poor Too clayey Low content of organic matter Droughty No water erosion limitation	0.00 0.00 0.94 0.99	Fair Shrink-swell	0.12	Poor Too Clayey	0.00
W: Water-----	100	Not rated		Not rated		Not rated	

CONSTRUCTION MATERIALS--Continued
Sedgwick County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wa: Waldeck-----	100	Poor Low content of organic matter	0.00	Good		Good	
Wb: Waurika-----	100	Poor Too clayey	0.00	Poor Depth to saturated zone	0.00	Poor Too Clayey	0.00
		Low content of organic matter	0.00	Shrink-swell	0.34	Depth to saturated zone	0.00
		Water erosion	0.68				

