

Section II
Soil and Site Information

Construction Materials Table 2
Meade County, South Dakota,
Northern Part

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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
AbB: Abor-----	85	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.32 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.39	Poor Too Clayey Depth to bedrock Rock fragments	0.00 0.58 0.97
AbC: Abor-----	85	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.32 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.39	Poor Too Clayey Depth to bedrock Rock fragments	0.00 0.58 0.97
AlB: Absher-----	60	Poor Low content of organic matter Salinity Sodium content Too clayey Droughty Water erosion	0.00 0.00 0.00 0.00 0.39 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Salinity Too Clayey Rock fragments	0.00 0.00 0.00 0.97
Slickspots, Dry----	25	Not rated		Not rated		Not rated	
AsB: Assinniboine-----	85	Fair Low content of organic matter	0.50	Good		Good	
AsC: Assinniboine-----	85	Fair Low content of organic matter	0.50	Good		Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AtC: Assinniboine-----	55	Fair Low content of organic matter	0.50	Good		Good	
Twilight-----	30	Fair Droughty Depth to bedrock	0.05 0.58	Poor Depth to bedrock	0.00	Fair Depth to bedrock	0.58
Ba: Bankard-----	90	Poor Wind erosion Low content of organic matter Droughty	0.00 0.12 0.35	Good		Fair Rock fragments	0.88
Bb: Bankard-----	90	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.23	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.08
BlE: Blackhall-----	60	Poor Droughty Depth to bedrock Low content of organic matter Sodium content	0.00 0.00 0.12 0.78	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock Sodium content	0.00 0.00 0.78
Rock Outcrop, Sandstone-----	25	Not rated		Not rated		Not rated	
BmE: Blackhall-----	50	Poor Droughty Depth to bedrock Low content of organic matter Sodium content	0.00 0.00 0.12 0.78	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock Sodium content	0.00 0.00 0.78

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Twilight-----	35	Fair Droughty Depth to bedrock	0.05 0.58	Poor Depth to bedrock	0.00	Fair Slope Depth to bedrock	0.37 0.58
BoE: Bullock-----	35	Poor Sodium content Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.00 0.12 0.58 0.99	Poor Depth to bedrock	0.00	Fair Sodium content Salinity Depth to bedrock	0.22 0.50 0.58
Lardell-----	30	Poor Salinity Sodium content Too alkaline Low content of organic matter Droughty Water erosion	0.00 0.00 0.00 0.12 0.71 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.76 0.87	Poor Sodium content Salinity Depth to saturated zone	0.00 0.00 0.76
Blackhall-----	15	Poor Droughty Depth to bedrock Low content of organic matter Sodium content	0.00 0.00 0.12 0.78	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock Sodium content	0.00 0.00 0.78
BpB: Bullock-----	50	Poor Sodium content Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.00 0.12 0.58 0.99	Poor Depth to bedrock	0.00	Fair Sodium content Salinity Depth to bedrock	0.22 0.50 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Parchin-----	30	Poor Sodium content Low content of organic matter Droughty Depth to bedrock Too acid Water erosion	0.00 0.12 0.20 0.58 0.97 0.99	Poor Depth to bedrock Low strength	0.00 0.78	Poor Hard to reclaim Sodium content Depth to bedrock Salinity	0.00 0.22 0.58 0.88
BsB: Bullock-----	60	Poor Sodium content Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.00 0.12 0.58 0.99	Poor Depth to bedrock	0.00	Fair Sodium content Salinity Depth to bedrock	0.22 0.50 0.58
Slickspots, Dry-----	25	Not rated		Not rated		Not rated	
CaD: Cabbart-----	85	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content	0.00 0.00 0.88 0.97	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.92	Poor Depth to bedrock Slope Carbonate content	0.00 0.00 0.97
CvB: Cabbart Variant-----	85	Poor Droughty Depth to bedrock	0.00 0.00	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.99	Poor Depth to bedrock	0.00
DeC: Delridge-----	55	Fair Depth to bedrock Droughty Low content of organic matter	0.58 0.59 0.88	Poor Depth to bedrock Low strength No shrink-swell limitation	0.00 0.00 0.99	Fair Depth to bedrock Slope	0.58 0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cabbart-----	30	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content	0.00 0.00 0.88 0.97	Poor Depth to bedrock Low strength	0.00 0.00	Poor Depth to bedrock Slope Carbonate content	0.00 0.63 0.97
EaA: Eapa-----	90	Fair Low content of organic matter	0.12	Fair Low strength Shrink-swell	0.22 0.87	Good	
EaB: Eapa-----	90	Fair Low content of organic matter	0.12	Fair Low strength Shrink-swell	0.22 0.87	Good	
EaC: Eapa-----	90	Fair Low content of organic matter	0.12	Fair Low strength Shrink-swell	0.22 0.87	Good	
EdB: Eapa-----	60	Fair Low content of organic matter	0.12	Fair Low strength Shrink-swell	0.22 0.87	Good	
Delridge-----	25	Fair Depth to bedrock Droughty Low content of organic matter	0.58 0.59 0.88	Poor Depth to bedrock Low strength No shrink-swell limitation	0.00 0.00 0.99	Fair Depth to bedrock	0.58
EdC: Eapa-----	60	Fair Low content of organic matter	0.12	Fair Low strength Shrink-swell	0.22 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Delridge-----	25	Fair Depth to bedrock Droughty Low content of organic matter	0.58 0.59 0.88	Poor Depth to bedrock Low strength No shrink-swell limitation	0.00 0.00 0.99	Fair Depth to bedrock	0.58
EgB: Eapa-----	60	Fair Low content of organic matter	0.12	Fair Low strength Shrink-swell	0.22 0.87	Good	
Grail-----	20	Fair Too clayey Water erosion	0.95 0.99	Poor Low strength Shrink-swell	0.00 0.74	Fair Too Clayey	0.90
EgC: Eapa-----	60	Fair Low content of organic matter	0.12	Fair Low strength Shrink-swell	0.22 0.87	Good	
Grail-----	20	Fair Too clayey Water erosion	0.95 0.99	Poor Low strength Shrink-swell	0.00 0.74	Fair Too Clayey	0.90
GaA: Gerdrum-----	85	Poor Sodium content Too clayey Low content of organic matter Salinity	0.00 0.00 0.12 0.50	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Salinity Too Clayey	0.00 0.00 0.00
Gc: Glenberg-----	85	Fair Low content of organic matter	0.12	Good		Fair Rock fragments	0.97
Gr: Grail-----	90	Fair Too clayey Water erosion	0.95 0.99	Poor Low strength Shrink-swell	0.00 0.74	Fair Too Clayey	0.90

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hb: Havre-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Shrink-swell	0.87	Good	
Hc: Havre-----	90	Fair Low content of organic matter	0.88	Good		Good	
He: Heil-----	100	Fair Low content of organic matter Too clayey Salinity Water erosion	0.12 0.50 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Salinity Too Clayey	0.00 0.00 0.29
HfB: Hisle-----	60	Poor Too clayey Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.58 0.97 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
Slickspots, Dry----	25	Not rated		Not rated		Not rated	
KyA: Kyle-----	90	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content	0.00 0.78

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
KyB: Kyle-----	90	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content	0.00 0.78
La: Lardell-----	90	Poor Salinity Sodium content Too alkaline Low content of organic matter Droughty Water erosion	0.00 0.00 0.00 0.12 0.71 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.76 0.87	Poor Sodium content Salinity Depth to saturated zone	0.00 0.00 0.76
LaB: Lawther-----	85	Poor Too clayey Low content of organic matter Salinity	0.00 0.12 0.88	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
LbE: Lismas-----	85	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Not Rated Depth to bedrock Slope Shrink-swell	0.00 0.00 0.95	Poor Slope Too Clayey Depth to bedrock Rock fragments	0.00 0.00 0.00 0.97
LCA: Loburn-----	60	Poor Sodium content Low content of organic matter Too clayey Salinity	0.00 0.12 0.12 0.50	Poor Low strength Shrink-swell	0.00 0.12	Poor Salinity Too Clayey Sodium content	0.00 0.07 0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Gerdrum-----	25	Poor Sodium content Too clayey Low content of organic matter Salinity	0.00 0.00 0.12 0.50	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Salinity Too Clayey	0.00 0.00 0.00
Ld: Lohmiller-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Lg: Lohmiller-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Fair Shrink-swell Low strength	0.71 0.78	Poor Too Clayey	0.00
NaD: Nihill-----	50	Fair Low content of organic matter Droughty	0.12 0.82	Fair Slope	0.82	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
Attewan-----	30	Fair Low content of organic matter	0.12	Good		Poor Hard to reclaim	0.00
NuA: Nunn-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.66	Poor Too Clayey	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NuB: Nunn-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.66	Poor Too Clayey	0.00
PbB: Parchin-----	60	Poor Sodium content Low content of organic matter Droughty Depth to bedrock Too acid Water erosion	0.00 0.12 0.20 0.58 0.97 0.99	Poor Depth to bedrock Low strength	0.00 0.78	Poor Hard to reclaim Sodium content Depth to bedrock Salinity	0.00 0.22 0.58 0.88
Bullock-----	25	Poor Sodium content Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.00 0.12 0.58 0.99	Poor Depth to bedrock	0.00	Fair Sodium content Salinity Depth to bedrock	0.22 0.50 0.58
PeB: Pierre-----	90	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Sodium content Water erosion	0.00 0.00 0.50 0.58 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Sodium content	0.00 0.58 0.90

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PeC: Pierre-----	90	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Sodium content Water erosion	0.00 0.00 0.50 0.58 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock Sodium content	0.00 0.37 0.58 0.90
PlE: Pierre-----	60	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Sodium content Water erosion	0.00 0.00 0.50 0.58 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.00 0.08	Poor Slope Too Clayey Depth to bedrock Sodium content	0.00 0.00 0.58 0.90
Lismas-----	25	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Not Rated Depth to bedrock Slope Shrink-swell	0.00 0.00 0.95	Poor Slope Too Clayey Depth to bedrock Rock fragments	0.00 0.00 0.00 0.97
Psc: Pierre-----	55	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Sodium content Water erosion	0.00 0.00 0.50 0.58 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope Sodium content	0.00 0.58 0.63 0.90
Samsil-----	30	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RoE: Rock Outcrop, Sandy-	45	Not rated		Not rated		Not rated	
Cabbart-----	25	Poor Droughty 0.00 Depth to bedrock 0.00 Low content of organic matter 0.88 Carbonate content 0.97		Poor Depth to bedrock 0.00 Slope 0.00 Low strength 0.00		Poor Slope 0.00 Depth to bedrock 0.00 Carbonate content 0.97	
Bullock-----	20	Poor Sodium content 0.00 Droughty 0.00 Low content of organic matter 0.12 Depth to bedrock 0.58 Water erosion 0.99		Poor Depth to bedrock 0.00 Slope 0.08		Poor Slope 0.00 Sodium content 0.22 Salinity 0.50 Depth to bedrock 0.58	
SaD: Samsil-----	85	Poor Too clayey 0.00 Droughty 0.00 Depth to bedrock 0.00 Water erosion 0.99		Poor Depth to bedrock 0.00 Shrink-swell 0.00 Low strength 0.00 Slope 0.98		Poor Too Clayey 0.00 Depth to bedrock 0.00 Slope 0.00	
SbE: Samsil-----	50	Poor Too clayey 0.00 Droughty 0.00 Depth to bedrock 0.00 Water erosion 0.99		Poor Depth to bedrock 0.00 Slope 0.00 Shrink-swell 0.00 Low strength 0.00		Poor Slope 0.00 Too Clayey 0.00 Depth to bedrock 0.00	
Rock Outcrop, Soft--	40	Not rated		Not rated		Not rated	
SdA: Satanta-----	90	Fair Low content of organic matter 0.88		Good		Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SdB: Satanta-----	90	Fair Low content of organic matter	0.88	Good		Good	
St: Stetter-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
SwA: Swanboy-----	85	Poor Too clayey Low content of organic matter Salinity Droughty Water erosion	0.00 0.50 0.97 0.98 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
SyA: Swanboy-----	55	Poor Too clayey Low content of organic matter Salinity Droughty Water erosion	0.00 0.50 0.97 0.98 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Slickspots, Dry-----	30	Not rated		Not rated		Not rated	
TdB: Tanna-----	55	Poor Too clayey Depth to bedrock Droughty Water erosion	0.00 0.58 0.79 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Too Clayey Depth to bedrock	0.00 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Delridge-----	25	Fair Depth to bedrock Droughty Low content of organic matter	0.58 0.59 0.88	Poor Depth to bedrock Low strength No shrink-swell limitation	0.00 0.00 0.99	Fair Depth to bedrock	0.58
TdC: Tanna-----	45	Poor Too clayey Depth to bedrock Droughty Water erosion	0.00 0.58 0.79 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Too Clayey Depth to bedrock	0.00 0.58
Delridge-----	35	Fair Depth to bedrock Droughty Low content of organic matter	0.58 0.59 0.88	Poor Depth to bedrock Low strength No shrink-swell limitation	0.00 0.00 0.99	Fair Depth to bedrock	0.58
TsB: Tanna-----	55	Poor Too clayey Depth to bedrock Droughty Water erosion	0.00 0.58 0.79 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Too Clayey Depth to bedrock	0.00 0.58
Savo-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey	0.00
TsC: Tanna-----	55	Poor Too clayey Depth to bedrock Droughty Water erosion	0.00 0.58 0.79 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Too Clayey Depth to bedrock	0.00 0.58

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(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 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
Savo-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey	0.00
TwC: Twilight-----	40	Fair Droughty Depth to bedrock	0.05 0.58	Poor Depth to bedrock	0.00	Fair Depth to bedrock	0.58
Marmarth-----	25	Fair Droughty Depth to bedrock	0.55 0.58	Poor Depth to bedrock Shrink-swell	0.00 0.95	Fair Depth to bedrock	0.58
Parchin-----	20	Poor Sodium content Low content of organic matter Droughty Depth to bedrock Too acid Water erosion	0.00 0.12 0.20 0.58 0.97 0.99	Poor Depth to bedrock Low strength	0.00 0.78	Poor Hard to reclaim Sodium content Depth to bedrock Salinity	0.00 0.22 0.58 0.88
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
WhC: Winler-----	85	Poor Too clayey Droughty Depth to bedrock Too acid Water erosion	0.00 0.00 0.58 0.97 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58

Section II
Soil and Site Information

Construction Materials Table 2
Meade County, South Dakota,
Northern Part

(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 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
W1C: Winler-----	60	Poor Too clayey Droughty Depth to bedrock Too acid Water erosion	0.00 0.00 0.58 0.97 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.58 0.63
Lismas-----	30	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Not Rated Depth to bedrock Shrink-swell	0.00 0.95	Poor Too Clayey Depth to bedrock Slope Rock fragments	0.00 0.00 0.63 0.97
ww: Water (greater Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
YaC: Yawdim-----	90	Poor Depth to bedrock Droughty Too clayey Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to bedrock Too Clayey	0.00 0.00

