

Section II  
Soil and Site Information

Building Site Development  
Custer and Pennington  
Counties, Black Hills Parts,  
South Dakota

(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 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ApA: Arvada Variant-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Low strength	1.00	Too clayey	0.50	Depth to saturated zone	0.19
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Flooding	0.40				
		Depth to saturated zone	0.19				
AsA: Arvada-----	55	Very limited Shrink-swell	1.00	Somewhat limited Too clayey	0.28	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	0.01
Slickspots, Dry-----	30	Not rated		Not rated		Not rated	
BdA: Barnum-----	85	Somewhat limited Low strength	0.78	Very limited Cutbanks cave	1.00	Somewhat limited Salinity	0.13
		Shrink-swell	0.50				
		Flooding	0.40				
BeB: Barnum-----	55	Somewhat limited Low strength	0.78	Very limited Cutbanks cave	1.00	Somewhat limited Salinity	0.13
		Shrink-swell	0.50				
		Flooding	0.40				
Winetti-----	30	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Content of large stones	0.99
		Flooding	0.40			Droughty	0.25
BrA: Bullflat-----	85	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Somewhat limited Content of large stones	0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BrB: Bullflat-----	85	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Somewhat limited Content of large stones	0.01
BsB: Bullflat-----	50	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Somewhat limited Content of large stones	0.01
Cordeston-----	35	Somewhat limited Shrink-swell Flooding	0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
BtE: Buska-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Mocmont-----	25	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Droughty Gravel content Content of large stones	1.00 0.17 0.16 0.03
Rock Outcrop, Hard--	20	Not rated		Not rated		Not rated	
BuE: Buska-----	55	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Rock Outcrop, Hard--	25	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BvC: Buska-----	50	Somewhat limited Frost action Slope	0.50 0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
Virkula-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
BwE: Butche-----	60	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.01	Very limited Depth to hard bedrock Slope Cutbanks cave Content of large stones	1.00 1.00 0.10 0.01	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 1.00 1.00
Rock Outcrop, Hard--	25	Not rated		Not rated		Not rated	
CcE: Canyon-----	55	Somewhat limited Depth to soft bedrock Slope	1.00 0.63	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.63 0.10	Very limited Depth to bedrock Droughty Slope	1.00 0.95 0.63
Bridget-----	30	Somewhat limited Frost action Low strength Slope	0.50 0.22 0.16	Somewhat limited Slope Cutbanks cave	0.16 0.10	Somewhat limited Slope	0.16
CdF: Canyon-----	60	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.95

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Sandy-	25	Not rated		Not rated		Not rated	
CkC: Citadel-----	50	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave	1.00	Not limited	
Vanocker-----	30	Somewhat limited Shrink-swell  Frost action  Content of large stones	0.50  0.50 0.06	Somewhat limited Cutbanks cave  Content of large stones	0.10  0.06	Somewhat limited Content of large stones Gravel content Droughty	0.20  0.09 0.01
CoA: Colombo-----	85	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
CpA: Colombo-----	70	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
Urban Land-----	15	Not rated		Not rated		Not rated	
CvB: Cordeston-----	85	Somewhat limited Shrink-swell Flooding	0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
CwB: Cordeston-----	55	Somewhat limited Shrink-swell Flooding	0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Marshbrook-----	30	Very limited Depth to saturated zone Frost action Flooding	1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
CxC: Cordeston-----	60	Somewhat limited Shrink-swell Flooding	0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
Winetti-----	25	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Somewhat limited Content of large stones Droughty	0.99 0.25
DgB: Demar-----	40	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Depth to saturated zone Too clayey Cutbanks cave	0.61 0.28 0.10	Not limited	
Grummit-----	25	Very limited Depth to soft bedrock Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to soft bedrock Too clayey Cutbanks cave	1.00 0.72 0.10	Very limited Depth to bedrock Droughty Too clayey	1.00 1.00 1.00
Slickspots, Dry----	20	Not rated		Not rated		Not rated	
GbA: Glenberg-----	85	Very limited Flooding	1.00	Very limited Cutbanks cave Flooding	1.00 0.60	Somewhat limited Flooding	0.60

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GrD: Grummit-----	60	Very limited Depth to soft bedrock Low strength Shrink-swell Slope	1.00 1.00 0.50 0.37	Very limited Depth to soft bedrock Too clayey Slope Cutbanks cave	1.00 0.72 0.37 0.10	Very limited Depth to bedrock Droughty Too clayey Slope	1.00 1.00 1.00 0.37
Rock Outcrop, Acid--	25	Not rated		Not rated		Not rated	
GrF: Grummit-----	50	Very limited Slope  Depth to soft bedrock Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.72 0.10	Very limited Depth to bedrock Slope Droughty Too clayey	1.00 1.00 1.00 1.00
Rock Outcrop, Acid--	35	Not rated		Not rated		Not rated	
GuC: Gurney-----	55	Very limited Low strength  Frost action  Depth to hard bedrock	1.00 0.50 0.42	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock Content of large stones	0.42 0.01

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Butche-----	25	Very limited Depth to hard bedrock Content of large stones	1.00 0.01	Very limited Depth to hard bedrock Cutbanks cave Content of large stones	1.00 0.10 0.01	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
GyD: Gypnevee-----	45	Somewhat limited Slope	0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
Rekop-----	25	Somewhat limited Depth to soft bedrock Slope	1.00 0.63	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.63 0.10	Very limited Depth to bedrock Droughty Slope	1.00 1.00 0.63
Rock Outcrop, Sandy-	15	Not rated		Not rated		Not rated	
GyD: Gypnevee-----	40	Somewhat limited Slope	0.63	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
Rock Outcrop, Sandy-	25	Not rated		Not rated		Not rated	
Urban Land-----	20	Not rated		Not rated		Not rated	
HaA: Haverson-----	85	Somewhat limited Shrink-swell Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HeE: Heely-----	85	Very limited Slope	1.00	Very limited Depth to hard bedrock	1.00	Very limited Slope	1.00
		Content of large stones	0.97	Slope	1.00	Content of large stones	1.00
		Depth to hard bedrock	0.42	Content of large stones	0.97	Depth to bedrock	0.42
				Cutbanks cave	0.10	Droughty	0.24
HfC: Heely-----	55	Somewhat limited Content of large stones	0.97	Very limited Depth to hard bedrock	1.00	Very limited Content of large stones	1.00
		Depth to hard bedrock	0.42	Content of large stones	0.97	Depth to bedrock	0.42
		Slope	0.37	Slope	0.37	Slope	0.37
				Cutbanks cave	0.10	Droughty	0.24
Cordeston-----	30	Somewhat limited Shrink-swell Flooding	0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
HgB: Hilger-----	85	Somewhat limited Content of large stones	0.99	Somewhat limited Content of large stones	0.99	Somewhat limited Content of large stones	0.84
		Frost action	0.50	Cutbanks cave	0.10	Droughty	0.66
HgD: Hilger-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Content of large stones	0.99	Content of large stones	0.99	Content of large stones	0.84
		Frost action	0.50	Cutbanks cave	0.10	Droughty	0.66
HmE: Hilger-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Content of large stones	0.99	Content of large stones	0.99	Content of large stones	0.84
		Frost action	0.50	Cutbanks cave	0.10	Droughty	0.66

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Metre-----	25	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.84	Very limited Too clayey Cutbanks cave Slope Depth to soft bedrock	1.00 1.00 0.84 0.42	Very limited Too clayey Slope Depth to bedrock Droughty	1.00 0.84 0.42 0.35
HnB: Hilger-----	65	Somewhat limited Content of large stones Frost action	0.99 0.50	Somewhat limited Content of large stones Cutbanks cave	0.99 0.10	Somewhat limited Content of large stones Droughty	0.84 0.66
Urban Land-----	20	Not rated		Not rated		Not rated	
HoD: Hilger-----	50	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope Content of large stones Droughty	1.00 0.84 0.66
Virkula-----	35	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.96 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
HtG: Hopdraw-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Cutbanks cave  Content of large stones Depth to hard bedrock	1.00 1.00 1.00 0.42	Very limited Slope Content of large stones Droughty	1.00 1.00 0.64
Sawdust-----	30	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones	1.00 1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Sandy-	15	Not rated		Not rated		Not rated	
JhD: Judy-----	40	Very limited Low strength	1.00	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	1.00	Cutbanks cave	0.10	Droughty	0.05
		Frost action	0.50	Slope	0.04	Slope	0.04
		Depth to hard bedrock	0.42	Too clayey	0.03		
		Slope	0.04				
Heath-----	30	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Somewhat limited Slope	0.04
		Shrink-swell	1.00	Slope	0.04		
		Frost action	0.50	Too clayey	0.03		
		Slope	0.04				
Paunsaugunt Variant-	20	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	0.96	Slope	0.96	Droughty	1.00
		Frost action	0.50	Cutbanks cave	0.10	Slope	0.96
						Gravel content	0.59
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
MhA: Marshbrook-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	1.00	Flooding	0.60
		Flooding	1.00	Flooding	0.60		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MnC: Metre-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.35
Norrest-----	35	Very limited Shrink-swell  Low strength	1.00  1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42  0.10	Somewhat limited Depth to bedrock	0.42
MsC: Mocmont-----	85	Somewhat limited Shrink-swell Frost action	0.50 0.50	Very limited Cutbanks cave	1.00	Somewhat limited Droughty Gravel content Content of large stones	0.17 0.16 0.03
MtE: Mocmont-----	55	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty Gravel content Content of large stones	1.00 0.17 0.16 0.03
Rock Outcrop, Hard--	30	Not rated		Not rated		Not rated	
NaC: Nevee-----	85	Somewhat limited Low strength  Slope	0.78  0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Content of large stones Slope	0.92 0.37
NbC: Nevee-----	85	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NcE: Nevee-----	60	Very limited Slope Low strength	1.00 0.78	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Gullied Land-----	35	Not rated		Not rated		Not rated	
NfE: Nihill-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Gravel content Droughty Content of large stones	1.00 0.33 0.08 0.01
Zigweid-----	40	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
NnE: Norrest-----	50	Very limited Shrink-swell  Slope  Low strength	1.00  1.00 1.00	Very limited Slope  Depth to soft bedrock Cutbanks cave	1.00  0.42 0.10	Very limited Content of large stones Slope  Depth to bedrock	1.00  1.00 0.42
Fairburn-----	20	Very limited Depth to soft bedrock Low strength Slope  Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock  Slope Content of large stones Droughty	1.00  1.00 0.74 0.59

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Metre-----	15	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Very limited Too clayey Cutbanks cave Slope Depth to soft bedrock	1.00 1.00 0.63 0.42	Very limited Too clayey Slope Depth to bedrock Droughty	1.00 0.63 0.42 0.35
Or: Orthents, Loamy-----	80	Not rated		Not rated		Not rated	
Orthents, Shaly-----	20	Not rated		Not rated		Not rated	
PaE: Pactola-----	50	Very limited Slope Content of large stones Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Content of large stones Depth to hard bedrock Cutbanks cave	1.00 1.00 0.42 0.10	Very limited Slope Content of large stones Droughty	1.00 0.74 0.01
Virkula-----	20	Very limited Low strength Slope Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Rock Outcrop, Hard--	15	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PbD: Paunsaugunt-----	50	Very limited Depth to hard bedrock Frost action Slope	1.00 0.50 0.04	Very limited Depth to hard bedrock Cutbanks cave Slope	1.00 0.10 0.04	Very limited Depth to bedrock Droughty Gravel content Slope	1.00 1.00 0.75 0.04
Gurney-----	35	Very limited Low strength Frost action Depth to hard bedrock	1.00 0.50 0.42	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock Content of large stones	0.42 0.01
PcD: Paunsaugunt-----	50	Very limited Depth to hard bedrock Slope Frost action	1.00 1.00 0.50	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Gravel content	1.00 1.00 1.00 0.75
Rock Outcrop, Sandy-	35	Not rated		Not rated		Not rated	
PgC: Pierre-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.44 0.42
Grummit-----	35	Very limited Depth to soft bedrock Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to soft bedrock Too clayey Cutbanks cave	1.00 0.72 0.10	Very limited Depth to bedrock Droughty Too clayey	1.00 1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pt: Rock Outcrop, Hard--	100	Not rated		Not rated		Not rated	
ReC: Redbird-----	50	Very limited Content of large stones Frost action Flooding	1.00 0.50 0.40	Very limited Content of large stones Cutbanks cave	1.00 0.10	Somewhat limited Content of large stones	0.03
Heath-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
RfE: Rekop-----	40	Very limited Slope  Depth to soft bedrock	1.00  1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Gypnevee-----	30	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated		Not rated	
RgG: Rock Outcrop, Hard--	45	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Buska-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
RhD: Rock Outcrop, Sandy-	55	Not rated		Not rated		Not rated	
Butche-----	30	Very limited Depth to hard bedrock Slope Content of large stones	1.00 0.96 0.01	Very limited Depth to hard bedrock Slope Cutbanks cave Content of large stones	1.00 0.96 0.10 0.01	Very limited Depth to bedrock Droughty Content of large stones Slope	1.00 1.00 1.00 0.96
RkG: Rock Outcrop, Hard--	45	Not rated		Not rated		Not rated	
Mocmont-----	35	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty Gravel content Content of large stones	1.00 0.17 0.16 0.03
RLG: Rock Outcrop, Hard--	45	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pactola-----	35	Very limited Slope Content of large stones Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Content of large stones Depth to hard bedrock Cutbanks cave	1.00 1.00 0.42 0.10	Very limited Slope Content of large stones Droughty	1.00 0.74 0.01
RmG: Rock Outcrop, Sandy-	45	Not rated		Not rated		Not rated	
Rekop-----	40	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
RnG: Rock Outcrop, Sandy-	45	Not rated		Not rated		Not rated	
Sawdust-----	40	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones	1.00 1.00
RpC: Rockoa-----	50	Very limited Content of large stones Frost action	1.00 0.50	Very limited Content of large stones Cutbanks cave	1.00 0.10	Very limited Content of large stones	1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lakoa-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave	1.00	Not limited	
RrE: Rockoa-----	40	Very limited Slope  Content of large stones Frost action	1.00  1.00 0.50	Very limited Slope  Content of large stones Cutbanks cave	1.00  1.00 0.10	Very limited Content of large stones Slope	1.00 1.00
Lakoa-----	30	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated		Not rated	
RsF: Rockoa-----	55	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones	1.00 1.00
Rock Outcrop, Sandy-	25	Not rated		Not rated		Not rated	
RtD: Rockoa-----	50	Very limited Content of large stones Slope Frost action	1.00  1.00 0.50	Very limited Content of large stones Slope Cutbanks cave	1.00  1.00 0.10	Very limited Content of large stones Slope	1.00 1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Satanta-----	35	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SeB: Satanta-----	90	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SfB: Satanta-----	55	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Arvada-----	30	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Very limited Sodium content Droughty	1.00 0.01
ShD: Satanta-----	60	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Canyon-----	25	Somewhat limited Depth to soft bedrock Slope	1.00 0.63	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.63 0.10	Very limited Depth to bedrock Droughty Slope	1.00 0.95 0.63
SpE: Sawdust-----	40	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones	1.00 1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hopdraw-----	25	Very limited Slope	1.00	Very limited Cutbanks cave	1.00	Very limited Content of large stones	1.00
		Content of large stones	1.00	Slope	1.00	Slope	1.00
				Content of large stones	1.00	Depth to hard bedrock	0.42
Paunsaugunt-----	20	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
SrE: Sawdust-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Content of large stones	1.00	Content of large stones	1.00	Content of large stones	1.00
		Frost action	0.50	Cutbanks cave	0.10		
Vanocker-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10	Content of large stones	0.20
		Frost action	0.50	Content of large stones	0.06	Gravel content	0.09
		Content of large stones	0.06			Droughty	0.01
Paunsaugunt-----	15	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SWE: Shirttail-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Cutbanks cave Content of large stones Depth to hard bedrock	1.00 1.00 1.00 0.42	Very limited Slope Content of large stones	1.00 1.00
SxaE: Spearfish-----	45	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.98
Nevee-----	40	Very limited Slope Low strength	1.00 0.78	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
SxbF: Spearfish-----	50	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.98
Rock Outcrop, Sandstone-----	35	Not rated		Not rated		Not rated	
SyaC: Stovho-----	80	Very limited Low strength Shrink-swell Frost action Slope	1.00 0.50 0.50 0.04	Somewhat limited Too clayey Cutbanks cave Slope	0.28 0.10 0.04	Somewhat limited Slope	0.04

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SyBC: Stovho-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
Lail-----	25	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
Trebor-----	20	Somewhat limited Shrink-swell  Frost action  Depth to hard bedrock Content of large stones Slope	0.50  0.50  0.42 0.19 0.04	Very limited Depth to hard bedrock Content of large stones Cutbanks cave Slope	1.00 0.19 0.10 0.04	Somewhat limited Depth to bedrock Droughty Slope Content of large stones	0.42 0.39 0.04 0.03
SyCE: Stovho-----	50	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope	1.00
Trebor-----	35	Very limited Slope  Shrink-swell Frost action  Depth to hard bedrock Content of large stones	1.00  0.50 0.50  0.42 0.19	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 0.19 0.10	Very limited Slope Depth to bedrock Droughty Content of large stones	1.00 0.42 0.39 0.03
TfA: Tilford-----	85	Somewhat limited Frost action Low strength	0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
TfB: Tilford-----	85	Somewhat limited Frost action Low strength	0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
TfC: Tilford-----	85	Somewhat limited Frost action Low strength	0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
TpC: Tilford-----	50	Somewhat limited Frost action Low strength	0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
Paunsaugunt-----	35	Very limited Depth to hard bedrock Frost action	1.00 0.50	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty Gravel content	1.00 1.00 0.75
TrB: Tilford-----	55	Somewhat limited Frost action Low strength	0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
Urban Land-----	30	Not rated		Not rated		Not rated	
TuG: Trebor-----	60	Very limited Slope Shrink-swell Frost action Depth to hard bedrock Content of large stones	1.00 0.50 0.50 0.42 0.19	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 0.19 0.10	Very limited Slope Depth to bedrock Droughty Content of large stones	1.00 0.42 0.39 0.03

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Sandy-	25	Not rated		Not rated		Not rated	
VcE: Vanocker-----	55	Very limited Slope Shrink-swell  Frost action Content of large stones	1.00 0.50  0.50 0.06	Very limited Slope Cutbanks cave  Content of large stones	1.00 0.10  0.06	Very limited Slope Content of large stones Gravel content Droughty	1.00 0.20  0.09 0.01
Citadel-----	25	Very limited Shrink-swell Low strength Slope Frost action	1.00 1.00 1.00 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
VkE: Vanocker-----	50	Very limited Slope Shrink-swell  Frost action Content of large stones	1.00 0.50  0.50 0.06	Very limited Slope Cutbanks cave  Content of large stones	1.00 0.10  0.06	Very limited Slope Content of large stones Gravel content Droughty	1.00 0.20  0.09 0.01
Lakoa-----	30	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
VnC: Vanocker-----	55	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave	0.10	Somewhat limited Content of large stones	0.20
		Frost action	0.50	Content of large stones	0.06	Gravel content	0.09
		Content of large stones	0.06	Slope	0.04	Slope	0.04
		Slope	0.04			Droughty	0.01
Paunsaugunt-----	30	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
		Slope	0.04	Slope	0.04	Gravel content	0.75
						Slope	0.04
VoG: Vanocker-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10	Content of large stones	0.20
		Frost action	0.50	Content of large stones	0.06	Gravel content	0.09
		Content of large stones	0.06			Droughty	0.01
Sawdust-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Content of large stones	1.00	Content of large stones	1.00	Content of large stones	1.00
		Frost action	0.50	Cutbanks cave	0.10		
Rock Outcrop, Sandy-	15	Not rated		Not rated		Not rated	
VpC: Virkula-----	50	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Slope	0.04
		Shrink-swell	0.50	Slope	0.04		
		Frost action	0.50				
		Slope	0.04				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pactola-----	30	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Depth to hard bedrock	1.00 0.42	Somewhat limited Content of large stones Slope	0.74 0.37
		Frost action Slope	0.50 0.37	Slope Cutbanks cave	0.37 0.10	Droughty	0.01
W: Water-----	100	Not rated		Not rated		Not rated	
WtB: Winetti-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Content of large stones Droughty	0.99 0.25
		Flooding	0.40				
ZcC: Zigweid-----	60	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Canyon-----	25	Somewhat limited Depth to soft bedrock Slope	1.00 0.37	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.37 0.10	Very limited Depth to bedrock Droughty Slope	1.00 0.95 0.37
ZnD: Zigweid-----	55	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
Nihill-----	35	Somewhat limited Frost action Slope	0.50 0.37	Very limited Cutbanks cave Slope	1.00 0.37	Somewhat limited Slope Gravel content Droughty Content of large stones	0.37 0.33 0.08 0.01