

Section II  
Soil and Site Information

Construction Materials Table 2  
McPherson County, South Dakota

(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
3A: Bowdle-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
3B: Bowdle-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
5A: Bowbells-----	85	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
5B: Bowbells-----	85	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
6: Arnegard-----	85	Fair Low content of organic matter	0.50	Good		Good	
7: Bearden-----	85	Fair Carbonate content Low content of organic matter Water erosion Sodium content	0.46 0.50 0.90 0.97	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.87 0.91	Fair Depth to saturated zone Sodium content	0.91 0.98
8: Rentill-----	85	Fair Droughty	0.92	Good		Fair Rock fragments	0.72
9A: Bearpaw-----	85	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.12	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
9B: Bearpaw-----	85	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
9C: Bearpaw-----	85	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
10: Brantford-----	85	Fair Low content of organic matter Droughty	0.50 0.80	Good		Poor Rock fragments Hard to reclaim	0.00 0.02
11A: Bearpaw-----	50	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Greenway-----	35	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.27	Poor Too Clayey	0.00
11B: Bearpaw-----	45	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Greenway-----	35	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.27	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
Vida-----	4	Poor Low content of organic matter	0.00	Fair Low strength Shrink-swell	0.22 0.87	Good	
13E: Zahl-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope	0.37
Kloten-----	25	Poor Droughty Depth to bedrock	0.00 0.00	Poor Depth to bedrock Slope Low strength Shrink-swell	0.00 0.18 0.22 0.93	Poor Depth to bedrock Slope	0.00 0.00
14D: Vida-----	85	Poor Low content of organic matter	0.00	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope	0.96
15A: Williams-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bowbells-----	30	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
15B: Williams-----	60	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bowbells-----	20	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
15C: Williams-----	55	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bowbells-----	25	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
16A: Williams-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bowbells-----	20	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
Tonka-----	15	Poor Too clayey Water erosion	0.00 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.43	Poor Depth to saturated zone Too Clayey	0.00 0.00
16B: Williams-----	45	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bowbells-----	20	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
Tonka-----	15	Poor Too clayey Water erosion	0.00 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.43	Poor Depth to saturated zone Too Clayey	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
16C: Williams-----	45	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bowbells-----	20	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
Parnell-----	15	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.00
17B: Vida-----	45	Poor Low content of organic matter	0.00	Fair Low strength Shrink-swell	0.22 0.87	Good	
Williams-----	40	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
17C: Vida-----	40	Poor Low content of organic matter	0.00	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope	0.63
Williams-----	30	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bowbells-----	20	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
17D: Vida-----	55	Poor Low content of organic matter	0.00	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope	0.63
Zahl-----	25	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope	0.63
17E: Vida-----	45	Poor Low content of organic matter	0.00	Fair Low strength Slope Shrink-swell	0.22 0.50 0.87	Poor Slope	0.00
Zahill-----	35	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Low strength Slope Shrink-swell	0.22 0.50 0.87	Poor Slope	0.00
18A: Williams-----	55	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Niobell-----	30	Fair Sodium content Low content of organic matter Water erosion	0.22 0.50 0.99	Fair Shrink-swell	0.75	Fair Sodium content Salinity	0.60 0.88
20A: Lehr-----	90	Poor Too sandy Droughty Low content of organic matter	0.00 0.22 0.50	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
20B: Lehr-----	85	Poor Too sandy Droughty Low content of organic matter	0.00 0.22 0.50	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
21A: Cavour-----	50	Poor Too clayey Low content of organic matter Salinity Sodium content Carbonate content Water erosion	0.00 0.12 0.50 0.90 0.99 0.99	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey Salinity Sodium content	0.00 0.00 0.90
Miranda-----	35	Poor Sodium content Low content of organic matter Salinity Carbonate content Water erosion	0.00 0.12 0.88 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Poor Sodium content Salinity Carbonate content	0.00 0.00 0.97
22A: Niobell-----	45	Fair Sodium content Low content of organic matter Water erosion	0.22 0.50 0.99	Fair Shrink-swell	0.75	Fair Sodium content Salinity	0.60 0.88
Miranda-----	30	Poor Sodium content Low content of organic matter Salinity Carbonate content Water erosion	0.00 0.12 0.88 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Poor Sodium content Salinity Carbonate content	0.00 0.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
23A: Noonan Variant-----	85	Fair Low content of organic matter Sodium content	0.12 0.22	Good		Fair Sodium content Hard to reclaim Salinity	0.60 0.68 0.88
24A: Niobell-----	45	Fair Sodium content Low content of organic matter Water erosion	0.22 0.50 0.99	Fair Shrink-swell	0.75	Fair Sodium content Salinity	0.60 0.88
Noonan-----	35	Fair Low content of organic matter Sodium content Carbonate content Too clayey Water erosion	0.12 0.22 0.92 0.98 0.99	Poor Low strength Shrink-swell	0.00 0.62	Fair Sodium content Too Clayey	0.22 0.81
25: Miranda-----	55	Poor Sodium content Low content of organic matter Salinity Carbonate content Water erosion	0.00 0.12 0.88 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Poor Sodium content Salinity Carbonate content	0.00 0.00 0.97
Heil-----	30	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
26: Cresbard-----	50	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.49	Poor Too Clayey Sodium content	0.00 0.90
Cavour-----	35	Poor Too clayey Low content of organic matter Salinity Sodium content Carbonate content Water erosion	0.00 0.12 0.50 0.90 0.99 0.99	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey Salinity Sodium content	0.00 0.00 0.90
27B: Lehr-----	55	Poor Too sandy Droughty Low content of organic matter	0.00 0.22 0.50	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
Bowdle-----	35	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
29: Exline-----	55	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.90	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.59 0.91	Poor Too Clayey Sodium content Salinity Depth to saturated zone	0.00 0.22 0.50 0.91
Harmony-----	35	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.71	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
30: Letcher-----	40	Fair Low content of organic matter	0.88	Fair Low strength	0.78	Fair Sodium content  Salinity	0.02  0.88
Parshall-----	35	Fair Low content of organic matter	0.50	Good		Good	
31: Harmony-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.71	Poor Too Clayey	0.00
32: Harmony-----	55	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.71	Poor Too Clayey	0.00
Exline-----	30	Poor Too clayey Sodium content Low content of organic matter Salinity  Water erosion	0.00 0.00 0.50 0.88 0.90	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.59 0.91	Poor Too Clayey Sodium content Salinity  Depth to saturated zone	0.00 0.22 0.50 0.91
37: Straw-----	85	Fair Low content of organic matter	0.88	Fair		Good	
38: Regan-----	85	Fair Carbonate content  Water erosion	0.46 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Carbonate content	0.00 0.46

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40A: Mondamin-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Shrink-swell	0.00 0.49	Poor Too Clayey	0.00
40B: Mondamin-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Shrink-swell	0.00 0.49	Poor Too Clayey	0.00
43C: Wabek-----	50	Poor Droughty Low content of organic matter	0.00 0.50	Good		Poor Rock fragments Hard to reclaim  Slope	0.00 0.00  0.63
Bowdle-----	40	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
44D: Wabek-----	85	Poor Droughty Low content of organic matter	0.00 0.50	Good		Poor Rock fragments Hard to reclaim  Slope	0.00 0.00  0.16
45B: Wabek-----	50	Poor Droughty Low content of organic matter	0.00 0.50	Good		Poor Rock fragments Hard to reclaim	0.00 0.00
Lehr-----	30	Poor Too sandy Droughty Low content of organic matter	0.00 0.22 0.50	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
52B: Lihen-----	50	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.99	Good		Poor Too sandy	0.00
Parshall-----	30	Fair Low content of organic matter	0.50	Good		Good	
52D: Lihen-----	85	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.99	Good		Poor Too sandy Slope	0.00 0.16
54B: Tansem-----	55	Fair Low content of organic matter	0.50	Fair Low strength	0.78	Good	
Roseglen-----	30	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
55A: Parshall-----	45	Fair Low content of organic matter	0.50	Good		Good	
Tally-----	35	Fair Low content of organic matter	0.12	Good		Good	
55B: Tally-----	85	Fair Low content of organic matter	0.12	Good		Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
56D: Tansem Variant-----	85	Fair Low content of organic matter	0.12	Good		Fair Slope	0.37
57A: Bryant-----	55	Fair Low content of organic matter	0.50	Poor Low strength Shrink-swell	0.00 0.87	Good	
Grassna-----	25	Good		Poor Low strength Shrink-swell	0.00 0.93	Good	
57B: Bryant-----	55	Fair Low content of organic matter	0.50	Poor Low strength Shrink-swell	0.00 0.87	Good	
Grassna-----	25	Good		Poor Low strength Shrink-swell	0.00 0.93	Good	
57C: Bryant-----	85	Fair Low content of organic matter	0.50	Poor Low strength Shrink-swell	0.00 0.87	Good	
58B: Temvik-----	35	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength Shrink-swell	0.22 0.99	Good	
Grassna-----	30	Good		Poor Low strength Shrink-swell	0.00 0.93	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bearpaw-----	25	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
62: Hamerly-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.80 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.91	Fair Carbonate content Depth to saturated zone	0.80 0.91
64: Grassna-----	85	Good		Poor Low strength Shrink-swell	0.00 0.93	Good	
65: Grail-----	85	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
72: Ranslo-----	45	Poor Too clayey Low content of organic matter Carbonate content Water erosion	0.00 0.12 0.46 0.99	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.12 0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53
Harriet-----	40	Poor Sodium content Low content of organic matter Carbonate content Salinity Too clayey Water erosion	0.00 0.12 0.46 0.88 0.95 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Salinity Carbonate content Too Clayey Sodium content	0.00 0.00 0.46 0.55 0.90

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75: Tonka-----	50	Poor Too clayey Water erosion	0.00 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.43	Poor Depth to saturated zone Too Clayey	0.00 0.00
Nishon-----	35	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.00
76: Parnell-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.00
77: Nishon-----	50	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.00
Heil-----	40	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.00

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Construction Materials Table 2  
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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
80: Heil-----	95	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.00
82: Stirum-----	85	Poor Sodium content Too sandy Low content of organic matter Too acid	0.00 0.00 0.12 0.84	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Too sandy Sodium content Salinity	0.00 0.00 0.22 0.88
85: Ranslo-----	90	Poor Too clayey Low content of organic matter Carbonate content Water erosion	0.00 0.12 0.46 0.99	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.12 0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53
86: Harriet-----	90	Poor Sodium content Low content of organic matter Carbonate content Salinity Too clayey Water erosion	0.00 0.12 0.46 0.88 0.95 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Salinity Carbonate content Too Clayey Sodium content	0.00 0.00 0.46 0.55 0.90
87: Marysland-----	90	Fair Low content of organic matter Carbonate content	0.12 0.68	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Carbonate content Hard to reclaim	0.00 0.68 0.92

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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
88: Divide-----	85	Fair Low content of organic matter Carbonate content	0.12 0.32	Fair Depth to saturated zone	0.91	Fair Hard to reclaim Carbonate content Depth to saturated zone Rock fragments	0.18 0.32 0.91 0.97
97: Regan-----	90	Fair Carbonate content Water erosion	0.46 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Carbonate content	0.00 0.46
98: Vallars-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Depth to saturated zone Low strength	0.00 0.22	Poor Depth to saturated zone Carbonate content	0.00 0.46
99: Orthents, Gravelly--	99	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.29	Not Rated Slope	0.00	Poor Rock fragments Slope Too sandy Hard to reclaim	0.00 0.00 0.14 0.18
100: Parnell-----	90	Poor Too clayey Water erosion	0.00 0.99	Not Rated Depth to saturated zone Shrink-swell	0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	

