

Engineering Interpretations

Building Site Development

Soil properties influence development of building sites, including the selection of the site, the design of the structure, construction, post construction performance, and maintenance. Soil limitation ratings of slight, moderate, and severe are given for shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns, landscaping, and golf fairways.

Shallow Excavations

Shallow excavations are trenches or holes dug in the soil to a maximum depth of 5 or 6 feet. They are used for pipelines, sewer lines, telephone and power transmission lines, basements, open ditches, and cemeteries. The ratings are based on the soil properties that influence ease of digging and resistance to sloughing.

Dwellings With or Without Basements

These are single-family houses of three stories or less. The foundation is assumed to be spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper, for houses without basements, or at a depth of 7 feet if a basement is constructed. The ratings are based on properties affecting soil strength and settlement under a load, and those that affect excavation and construction costs.

Small Commercial Buildings

Limitation ratings are given for the undisturbed soil on which small commercial buildings of less than three stories without basements are built. The foundation is assumed to be placed on spread footings of reinforced concrete at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper.

Local Roads and Streets

Limitation ratings are given for the use of soils for construction of improved local roads and streets that have all-weather surfacing, commonly of asphalt, gravel with binder in it, or concrete, and that are expected to carry automobile traffic all year. These roads and streets are graded to shed water, and conventional drainage measures are provided. With the probable exception of the hard surface, roads and streets are built mainly from the soil at hand.

Lawns, Landscaping, and Golf Fairways

The soils are rated for their use in establishing and maintaining turf for lawns and golf fairways and ornamental trees and shrubs for residential type landscaping. The ratings are based on the use of soil material at the location with some land smoothing. Irrigation may or may not be needed and is not a criterion in rating. Traps, trees, roughs, and greens are not considered as part of the golf fairway. The properties considered are those listed that affect plant growth and trafficability after vegetation is established.

This subsection includes:

- **(a) Building Site Development**

Greene and Lawrence Counties, Missouri: Detailed Soil Map Legend

Building Site Development

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1B: Newtonia-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~low strength (very limited) ~shrink-swell (very limited)	1.00 1.00	Not limited	
2B: Pembroke-----	Not limited		Not limited		Slightly limited ~slope (slightly limited)	0.15	Very limited ~low strength (very limited)	1.00	Slightly limited ~too acid (slightly limited)	0.12
3D: Eldon-----	Moderately limited ~slope (moderately limited) ~shrink-swell (moderately limited)	0.60 0.45	Moderately limited ~slope (moderately limited) ~shrink-swell (moderately limited)	0.60 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.16	Slightly limited ~slope (slightly limited) ~large stones (slightly limited)	0.16 0.01
5C: Wilderness-----	Limited ~wetness (limited)	0.99	Very limited ~wetness (very limited)	1.00	Limited ~slope (limited) ~wetness (limited)	0.68 0.60	Limited ~wetness (limited)	0.60	Very limited ~droughty (very limited) ~small stones (limited) ~wetness (limited)	1.00 0.65 0.60
6B: Credon-----	Moderately limited ~wetness (moderately limited)	0.51	Very limited ~wetness (very limited)	1.00	Slightly limited ~wetness (slightly limited)	0.13	Very limited ~low strength (very limited) ~wetness (slightly limited)	1.00 0.13	Slightly limited ~wetness (slightly limited) ~droughty (slightly limited)	0.13 0.00

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
9B: Needleye-----	Moderately limited ~wetness (moderately limited)	0.51	Very limited ~wetness (very limited)	1.00	Slightly limited ~wetness (slightly limited)	0.13	Very limited ~low strength (very limited) ~wetness (slightly limited)	1.00 0.13	Slightly limited ~wetness (slightly limited)	0.13
10: Bado-----	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (limited)	1.00 0.99	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (limited)	1.00 1.00 0.99	Limited ~wetness (limited) ~too acid (moderately limited)	0.99 0.42
11B: Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (slightly limited)	1.00 1.00 1.00 0.15	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.60
16B: Barco-----	Moderately limited ~shrink-swell (moderately limited)	0.45	Moderately limited ~shrink-swell (moderately limited) ~soft bedrock <40" (slightly limited)	0.41 0.03	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Limited ~low strength (limited) ~shrink-swell (moderately limited)	0.78 0.45	Slightly limited ~depth to bedrock (slightly limited)	0.09
21B: Peridge-----	Not limited		Not limited		Slightly limited ~slope (slightly limited)	0.15	Very limited ~low strength (very limited)	1.00	Not limited	

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
23B: Bolivar-----	Moderately limited ~depth to bedrock (moderately limited)	0.39	Very limited ~hard bedrock <40" (very limited)	1.00	Moderately limited ~depth to bedrock (moderately limited) ~slope (slightly limited)	0.39 0.15	Moderately limited ~depth to bedrock (moderately limited)	0.39	Slightly limited ~depth to bedrock (slightly limited)	0.24
24: Parsons-----	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (limited)	1.00 0.99	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (limited)	1.00 1.00 0.99	Limited ~wetness (limited)	0.99
26D: Collinsville---	Very limited ~hard bedrock <20" (very limited) ~slope (moderately limited)	1.00 0.30	Very limited ~hard bedrock <40" (very limited) ~slope (moderately limited)	1.00 0.30	Very limited ~hard bedrock <20" (very limited) ~slope (limited)	1.00 0.99	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~shallow to bedrock (very limited) ~droughty (very limited)	1.00 1.00
27D: Basehor-----	Very limited ~hard bedrock <20" (very limited) ~slope (moderately limited)	1.00 0.45	Very limited ~hard bedrock <40" (very limited) ~slope (moderately limited)	1.00 0.45	Very limited ~hard bedrock <20" (very limited) ~slope (very limited)	1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~slope (slightly limited)	1.00 0.04	Very limited ~shallow to bedrock (very limited) ~droughty (very limited) ~large stones (limited)	1.00 1.00 0.79

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value						
30C: Keeno-----	Moderately limited ~wetness (moderately limited)	0.59	Very limited ~wetness (very limited)	1.00	Limited ~slope (limited)	0.68	Slightly limited ~wetness (slightly limited)	0.28	Very limited ~large stones >30% (very limited)	1.00
	~large stones (slightly limited)	0.00	~large stones (slightly limited)	0.00	~wetness (slightly limited)	0.28	~large stones (slightly limited)	0.00	~small stones (limited)	0.72
					~large stones (slightly limited)	0.00			~droughty (moderately limited)	0.57
32C: Freeburg-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60
	~wetness (limited)	0.79	~wetness (very limited)	1.00	~slope (limited)	0.68	~flooding (very limited)	1.00	~wetness (moderately limited)	0.45
	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.45	~wetness (moderately limited)	0.45	~wetness (moderately limited)	0.45		
Alsup-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Not limited	
	~wetness (slightly limited)	0.22	~wetness (limited)	0.90	~slope (limited)	0.68	~shrink-swell (very limited)	1.00		
33B: Keeno-----	Moderately limited ~wetness (moderately limited)	0.59	Very limited ~wetness (very limited)	1.00	Slightly limited ~wetness (slightly limited)	0.28	Slightly limited ~wetness (slightly limited)	0.28	Limited ~droughty (limited)	0.95
	~large stones (slightly limited)	0.01	~large stones (slightly limited)	0.01	~slope (slightly limited)	0.15	~large stones (slightly limited)	0.01	~large stones (moderately limited)	0.45
					~large stones (slightly limited)	0.01			~small stones (moderately limited)	0.39
Eldon-----	Moderately limited ~shrink-swell (moderately limited)	0.45	Slightly limited ~large stones (slightly limited)	0.01						
					~slope (slightly limited)	0.15				

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
35D: Clarksville----	Moderately limited ~slope (moderately limited)	0.60	Moderately limited ~slope (moderately limited)	0.60	Very limited ~slope (very limited)	1.00	Slightly limited ~slope (slightly limited)	0.16	Moderately limited ~large stones (moderately limited)	0.48
									~small stones (moderately limited)	0.31
									~slope (slightly limited)	0.16
Nixa-----	Moderately limited ~slope (moderately limited)	0.60	Moderately limited ~slope (moderately limited)	0.60	Very limited ~slope (very limited)	1.00	Slightly limited ~slope (slightly limited)	0.16	Limited ~droughty (limited)	0.98
									~small stones (moderately limited)	0.46
									~large stones (slightly limited)	0.19
40E: Alsup-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~slope (very limited)	1.00	~slope (very limited)	1.00	~shrink-swell (very limited)	1.00	~shrink-swell (very limited)	1.00	~large stones (limited)	0.99
	~wetness (slightly limited)	0.22	~wetness (limited)	0.90			~slope (very limited)	1.00		
43D: Goss-----	Moderately limited ~slope (moderately limited)	0.60	Moderately limited ~slope (moderately limited)	0.60	Very limited ~slope (very limited)	1.00	Limited ~low strength (limited)	0.78	Moderately limited ~small stones (moderately limited)	0.33
	~shrink-swell (moderately limited)	0.45	~shrink-swell (slightly limited)	0.27	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.45	~droughty (slightly limited)	0.25
	~large stones (slightly limited)	0.00	~large stones (slightly limited)	0.00	~large stones (slightly limited)	0.00	~slope (slightly limited)	0.16	~slope (slightly limited)	0.16

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value						
44E: Goss-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00						
	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.45	~low strength (limited)	0.78	~droughty (moderately limited)	0.47
	~large stones (slightly limited)	0.05	~large stones (slightly limited)	0.05	~large stones (slightly limited)	0.05	~shrink-swell (moderately limited)	0.45	~small stones (moderately limited)	0.33
Gasconade-----	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~low strength (very limited)	1.00	~droughty (very limited)	1.00
	~large stones (moderately limited)	0.50	~large stones (moderately limited)	0.50	~large stones (moderately limited)	0.50	~slope (very limited)	1.00	~large stones >30% (very limited)	1.00
45E: Clarksville----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00						
									~large stones (moderately limited)	0.48
									~small stones (moderately limited)	0.31
50C: Nixa-----	Not limited		Not limited		Limited ~slope (limited)	0.68	Not limited		Very limited ~droughty (very limited)	1.00
									~small stones (moderately limited)	0.46
									~large stones (slightly limited)	0.19

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
53B: Wilderness-----	Limited ~wetness (limited)	0.99	Very limited ~wetness (very limited)	1.00	Limited ~wetness (limited) ~slope (slightly limited)	0.60 0.15	Limited ~wetness (limited)	0.60	Very limited ~droughty (very limited) ~small stones (limited) ~wetness (limited)	1.00 0.65 0.60
Goss-----	Moderately limited ~shrink-swell (moderately limited)	0.45	Slightly limited ~shrink-swell (slightly limited)	0.20	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Limited ~low strength (limited) ~shrink-swell (moderately limited)	0.78 0.45	Moderately limited ~small stones (moderately limited) ~droughty (slightly limited)	0.33 0.22
54: Lanton-----	Very limited ~flooding (very limited) ~wetness (limited)	1.00 0.99	Very limited ~flooding (very limited) ~wetness (very limited) ~shrink-swell (slightly limited)	1.00 1.00 0.12	Very limited ~flooding (very limited) ~wetness (limited)	1.00 0.60	Very limited ~flooding (very limited) ~low strength (very limited) ~wetness (limited)	1.00 1.00 0.60	Very limited ~flooding (very limited) ~wetness (limited)	1.00 0.60
55: Huntington-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited) ~low strength (slightly limited)	1.00 0.22	Moderately limited ~flooding (moderately limited)	0.60

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
56: Osage-----	Very limited ~wetness (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~shrink-swell (very limited)	1.00	~flooding (very limited)	1.00	~shrink-swell (very limited)	1.00	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60
	~flooding (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~shrink-swell (very limited)	1.00	~too clayey (moderately limited)	0.60
61B: Hoberg-----	Moderately limited ~wetness (moderately limited)	0.59	Very limited ~wetness (very limited)	1.00	Slightly limited ~wetness (slightly limited)	0.28	Very limited ~low strength (very limited)	1.00	Moderately limited ~droughty (moderately limited)	0.57
					~slope (slightly limited)	0.15	~wetness (slightly limited)	0.28	~wetness (slightly limited)	0.28
76: Hepler-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60
	~wetness (moderately limited)	0.59	~wetness (very limited)	1.00	~wetness (slightly limited)	0.28	~wetness (slightly limited)	0.28	~wetness (slightly limited)	0.28
			~shrink-swell (slightly limited)	0.10			~low strength (slightly limited)	0.22		
81B: Viraton-----	Moderately limited ~wetness (moderately limited)	0.59	Very limited ~wetness (very limited)	1.00	Slightly limited ~wetness (slightly limited)	0.28	Slightly limited ~wetness (slightly limited)	0.28	Moderately limited ~droughty (moderately limited)	0.47
					~slope (slightly limited)	0.15	~low strength (slightly limited)	0.22	~wetness (slightly limited)	0.28

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	Rating class and limiting features	Value	Rating class and limiting features	Value						
83D: Gasconade-----	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~slope (limited)	0.68	~slope (limited)	0.68	~slope (very limited)	1.00	~large stones (moderately limited)	0.47	~droughty (very limited)	1.00
	~large stones (moderately limited)	0.47	~large stones (moderately limited)	0.47	~large stones (moderately limited)	0.47	~shrink-swell (moderately limited)	0.45	~large stones >30% (very limited)	1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
94: Cedargap-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00						
									~small stones (limited)	0.67
									~large stones (slightly limited)	0.25
95: Cedargap-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00						
240: Gerald-----	Limited ~wetness (limited)	0.99	Very limited ~wetness (very limited)	1.00	Limited ~wetness (limited)	0.60	Very limited ~low strength (very limited)	1.00	Limited ~wetness (limited)	0.60
	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.32	~shrink-swell (moderately limited)	0.45	~wetness (limited)	0.60	~droughty (slightly limited)	0.19
							~shrink-swell (moderately limited)	0.45	~too acid (slightly limited)	0.12

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
241B: Parsons-----	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (limited)	1.00 0.99	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (limited)	1.00 1.00 0.99	Limited ~wetness (limited)	0.99
Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.60
245: Carytown-----	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~low strength (very limited) ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~excess sodium (very limited) ~wetness (very limited)	1.00 1.00
921: Secesh-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60
Cedargap-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00

Greene and Lawrence Counties, Missouri: Detailed Soil Map Legend

Building Site Development

(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 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value								
943: Orthents-----	Not Rated									
	Not Rated		Not Rated						Not Rated	
									Not Rated	
AED: Orthent-----	Not rated									
M-W: Water-----	Not rated									
W: Water-----	Not rated									