

## Engineering Interpretations

### **Water Management**

Interpretations of soils for water management are given as limitations for pond reservoir areas; embankments, dikes, and levees; excavated pond (aquifer-fed); and as restrictive features that affect drainage, irrigation, terraces and diversions, and grassed waterways.

**POND RESERVOIR AREA** is the area that holds water behind a dam or embankment. Soils best suited to this use have a low seepage potential, which is determined by the permeability and depth to fractured or permeable bedrock, or other permeable material.

**EMBANKMENTS, DIKES, AND LEVEES** are raised structures of soil material constructed to impound water or protect land against overflow. They generally are less than 20 feet high and are constructed of "homogeneous" soil material (without a core zone) and compacted to medium density.

**EXCAVATED PONDS (AQUIFER-FED)** are bodies of water created by excavating a pit or dugout into a ground-water aquifer. Excluded are ponds which are fed by surface runoff or that have embankments that impound water 3 feet or more above the original surface.

**DRAINAGE** is the process of removing excess surface and subsurface water from agricultural land. Soil features are listed that affect grading, excavation, and stability of trench sides or ditch banks. Features are also listed which might affect productivity after drainage is installed. The availability of drainage outlets must also be considered.

**IRRIGATION** is the controlled application of water to supplement rainfall for supporting plant growth. Soil features are listed that affect design, layout, construction, management, or performance of an irrigation system.

**TERRACES AND DIVERSIONS** are embankments or a combination of an embankment and a channel constructed across a slope to control erosion by diverting or storing surface runoff instead of permitting it to flow uninterrupted down the slope. Soil features are listed that affect the construction of terraces and diversions and that may cause problems after construction.

**GRASSED WATERWAYS** are natural or constructed channels that generally are broad and shallow and are covered with erosion-resistant grasses. They are used to conduct surface water to outlets at a nonerosive velocity. Soil features are listed that affect the construction and maintenance of the waterway, and also that affect the growth of grass after construction.

*This subsection includes:*

- **(a) Water Management**

Iron County, Missouri: Detailed Soil Map Legend

Water Management

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	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
1C: Lamotte-----	Moderately limited ~seepage (moderately limited) ~slope (moderately limited)	0.32  0.30	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~slope (moderately limited)	0.30	Moderately limited ~slope (moderately limited)	0.30
2B: Gatewood-----	Limited ~depth to bedrock (limited) ~slope (slightly limited)	0.79  0.10	Very limited ~percs slowly (very limited) ~slope (moderately limited) ~depth to bedrock (slightly limited)	1.00  0.40 0.17	Very limited ~percs slowly (very limited) ~erodes easily (moderately limited) ~slope (moderately limited)	1.00  0.60 0.40	Very limited ~depth to bedrock (very limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	1.00  0.60 0.40	Limited ~depth to bedrock (limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	0.79  0.60 0.40
2C: Gatewood-----	Limited ~depth to bedrock (limited) ~slope (moderately limited)	0.79  0.45	Very limited ~percs slowly (very limited) ~slope (very limited) ~depth to bedrock (slightly limited)	1.00  1.00 0.17	Very limited ~percs slowly (very limited) ~slope (very limited) ~erodes easily (moderately limited)	1.00  1.00 0.60	Very limited ~depth to bedrock (very limited) ~erodes easily (moderately limited) ~slope (moderately limited)	1.00  0.60 0.45	Limited ~depth to bedrock (limited) ~erodes easily (moderately limited) ~slope (moderately limited)	0.79  0.60 0.45
2D: Gatewood-----	Limited ~slope (limited) ~depth to bedrock (limited)	0.99  0.79	Very limited ~slope (very limited) ~percs slowly (very limited) ~depth to bedrock (slightly limited)	1.00  1.00 0.17	Very limited ~percs slowly (very limited) ~slope (very limited) ~erodes easily (moderately limited)	1.00  1.00 0.60	Very limited ~depth to bedrock (very limited) ~slope (limited) ~erodes easily (moderately limited)	1.00  0.99 0.60	Limited ~slope (limited) ~depth to bedrock (limited) ~erodes easily (moderately limited)	0.99  0.79 0.60

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	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
2E: Gateway-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~depth to bedrock (limited)	0.86	~percs slowly (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~large stones (very limited)	1.00
			~large stones (moderately limited)	0.43	~droughty (limited)	0.75	~large stones (very limited)	1.00	~depth to bedrock (limited)	0.86
4C: Knobtop-----	Limited ~depth to bedrock (limited)	0.70	Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Limited ~depth to bedrock (limited)	0.90	Limited ~depth to bedrock (limited)	0.70
	~slope (limited)	0.70	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (limited)	0.70	~slope (limited)	0.70
					~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60
4D: Knobtop-----	Limited ~depth to bedrock (limited)	0.75	Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~slope (moderately limited)	0.60	~slope (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00	~depth to bedrock (limited)	0.75
			~large stones (slightly limited)	0.18	~depth to bedrock (slightly limited)	0.09	~slope (moderately limited)	0.60	~slope (moderately limited)	0.60
6C: Delassus-----	Moderately limited ~seepage (moderately limited)	0.50	Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Moderately limited ~erodes easily (moderately limited)	0.60	Limited ~rooting depth (limited)	0.80
	~slope (moderately limited)	0.45	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (moderately limited)	0.45	~erodes easily (moderately limited)	0.60
	~depth to bedrock (moderately limited)	0.42	~large stones (slightly limited)	0.18	~erodes easily (moderately limited)	0.60	~depth to bedrock (slightly limited)	0.30	~slope (moderately limited)	0.45

Iron County, Missouri: Detailed Soil Map Legend

Water Management

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	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
6D: Delassus-----	Limited ~slope (limited)	0.99	Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Limited ~slope (limited)	0.99	Limited ~slope (limited)	0.99
	~seepage (moderately limited)	0.50	~slope (very limited)	1.00	~slope (very limited)	1.00	~erodes easily (moderately limited)	0.60	~rooting depth (limited)	0.80
	~depth to bedrock (moderately limited)	0.42			~erodes easily (moderately limited)	0.60	~depth to bedrock (slightly limited)	0.30	~erodes easily (moderately limited)	0.60
9C: Viraton-----	Moderately limited ~seepage (moderately limited)	0.50	Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Moderately limited ~erodes easily (moderately limited)	0.60	Limited ~rooting depth (limited)	0.80
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~slope (limited)	0.98	~wetness (moderately limited)	0.44	~erodes easily (moderately limited)	0.60
					~erodes easily (moderately limited)	0.60	~slope (moderately limited)	0.30	~wetness (moderately limited)	0.44
10E: Killarney-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~seepage (moderately limited)	0.50	~percs slowly (very limited)	1.00	~percs slowly (very limited)	1.00	~wetness (slightly limited)	0.28	~rooting depth (limited)	0.80
			~large stones (moderately limited)	0.43	~droughty (slightly limited)	0.00			~wetness (slightly limited)	0.28
11C: Lebanon-----	Moderately limited ~slope (moderately limited)	0.30	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~erodes easily (moderately limited)	0.60	Limited ~rooting depth (limited)	0.80
			~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.60	~erodes easily (moderately limited)	0.60
					~percs slowly (slightly limited)	0.13	~slope (moderately limited)	0.30	~wetness (moderately limited)	0.60

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	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
12E: Goss-----	Very limited ~slope (very limited) ~seepage (moderately limited)	1.00  0.50	Very limited ~slope (very limited) ~large stones (very limited)	1.00  1.00	Very limited ~slope (very limited) ~droughty (limited) ~large stones (moderately limited)	1.00  0.62  0.33	Very limited ~slope (very limited) ~large stones (very limited)	1.00  1.00	Very limited ~slope (very limited) ~large stones (very limited) ~droughty (limited)	1.00  1.00  0.62
13F: Clarksville----	Very limited ~slope (very limited) ~seepage (very limited)	1.00  1.00	Very limited ~slope (very limited) ~large stones (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~droughty (slightly limited) ~large stones (slightly limited)	1.00  0.13  0.01	Very limited ~slope (very limited) ~large stones (very limited)	1.00  1.00	Very limited ~slope (very limited) ~large stones (very limited) ~droughty (slightly limited)	1.00  1.00  0.13
18C: Courtois-----	Moderately limited ~seepage (moderately limited) ~slope (moderately limited)	0.50  0.30	Limited ~slope (limited)	0.98	Limited ~slope (limited) ~erodes easily (moderately limited)	0.98  0.60	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited)	0.60  0.30	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited)	0.60  0.30
18D: Courtois-----	Limited ~slope (limited) ~seepage (moderately limited)	0.99  0.50	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~erodes easily (moderately limited)	1.00  0.60	Limited ~slope (limited) ~erodes easily (moderately limited)	0.99  0.60	Limited ~slope (limited) ~erodes easily (moderately limited)	0.99  0.60
19B: Crider-----	Moderately limited ~seepage (moderately limited) ~slope (slightly limited)	0.50  0.10	Moderately limited ~slope (moderately limited)	0.40	Moderately limited ~slope (moderately limited)	0.40	Slightly limited ~slope (slightly limited)	0.10	Slightly limited ~slope (slightly limited)	0.10

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	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
19C: Crider-----	Limited ~slope (limited) ~seepage (moderately limited)	0.70  0.50	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.70	Limited ~slope (limited)	0.70
20B: Fourche-----	Slightly limited ~slope (slightly limited)	0.10	Moderately limited ~slope (moderately limited) ~percs slowly (slightly limited)	0.40  0.13	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited) ~percs slowly (slightly limited)	0.60  0.40  0.13	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited) ~slope (slightly limited)	0.60  0.36  0.10	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited) ~slope (slightly limited)	0.60  0.36  0.10
20C: Fourche-----	Moderately limited ~slope (moderately limited)	0.45	Very limited ~slope (very limited) ~percs slowly (slightly limited)	1.00  0.13	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~percs slowly (slightly limited)	1.00  0.60  0.13	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited) ~wetness (moderately limited)	0.60  0.45  0.36	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited) ~wetness (moderately limited)	0.60  0.45  0.36
22D: Wilderness-----	Limited ~slope (limited) ~seepage (moderately limited)	0.80  0.50	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~droughty (very limited)	1.00  1.00	Limited ~slope (limited) ~wetness (moderately limited) ~large stones (slightly limited)	0.80  0.60  0.04	Very limited ~droughty (very limited) ~rooting depth (limited) ~slope (limited)	1.00  0.80  0.80

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	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
22E: Wilderness-----	Very limited ~slope (very limited) ~seepage (moderately limited)	1.00  0.50	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~droughty (very limited)	1.00  1.00	Very limited ~slope (very limited) ~large stones (slightly limited)	1.00  0.04	Very limited ~slope (very limited) ~droughty (very limited) ~rooting depth (limited)	1.00  1.00  0.80
25A: Auxvasse-----	Not limited		Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited) ~erodes easily (moderately limited)	1.00  0.60	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60  0.60	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60  0.60
31A: Loughboro-----	Not limited		Moderately limited ~percs slowly (moderately limited)	0.39	Moderately limited ~erodes easily (moderately limited) ~percs slowly (moderately limited)	0.60  0.39	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60  0.60	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60  0.60
35C: Viburnum-----	Moderately limited ~seepage (moderately limited) ~slope (moderately limited)	0.50  0.45	Very limited ~slope (very limited) ~percs slowly (slightly limited)	1.00  0.13	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~percs slowly (slightly limited)	1.00  0.60  0.13	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited) ~wetness (moderately limited)	0.60  0.45  0.44	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited) ~wetness (moderately limited)	0.60  0.45  0.44
36B: Lowell-----	Slightly limited ~depth to bedrock (slightly limited) ~slope (slightly limited)	0.24  0.10	Moderately limited ~slope (moderately limited) ~percs slowly (slightly limited)	0.40  0.13	Moderately limited ~erodes easily (moderately limited) ~slope (moderately limited) ~percs slowly (slightly limited)	0.60  0.40  0.13	Moderately limited ~erodes easily (moderately limited) ~slope (slightly limited)	0.60  0.10	Moderately limited ~erodes easily (moderately limited) ~depth to bedrock (slightly limited) ~slope (slightly limited)	0.60  0.24  0.10

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	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
41D: Gasconade-----	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~slope (very limited)	1.00	~slope (very limited)	1.00	~droughty (very limited)	1.00	~large stones (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~large stones (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~droughty (very limited)	1.00
42F: Irontdale-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~depth to bedrock (limited)	0.76	~percs slowly (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~slope (very limited)	1.00
	~seepage (moderately limited)	0.50	~large stones (very limited)	1.00	~large stones (limited)	0.64	~large stones (very limited)	1.00	~depth to bedrock (limited)	0.76
43E: Syenite-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~depth to bedrock (limited)	0.83	~percs slowly (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (limited)	0.83
	~seepage (moderately limited)	0.50	~depth to bedrock (slightly limited)	0.25	~depth to bedrock (slightly limited)	0.25				
45F: Taumsauk-----	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~droughty (very limited)	1.00	~depth to bedrock (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~large stones (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00	~slope (very limited)	1.00

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	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
45F: (cont)										
Irondale-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~depth to bedrock (limited)	0.76	~percs slowly (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~slope (very limited)	1.00
	~seepage (moderately limited)	0.50	~large stones (very limited)	1.00	~large stones (limited)	0.64	~large stones (very limited)	1.00	~depth to bedrock (limited)	0.76
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
52B:										
Secesh-----	Very limited ~seepage (very limited)	1.00	Very limited ~large stones (very limited)	1.00	Slightly limited ~slope (slightly limited)	0.10	Not limited		Not limited	
			~slope (slightly limited)	0.10						
67:										
Wakeland-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
					~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.44	~wetness (moderately limited)	0.44
80B:										
Bloomsdale-----	Very limited ~seepage (very limited)	1.00	Limited ~large stones (limited)	0.99	Limited ~flooding (limited)	0.90	Not limited		Slightly limited ~droughty (slightly limited)	0.12
			~flooding (limited)	0.90	~droughty (slightly limited)	0.12				
81A:										
Midco-----	Very limited ~seepage (very limited)	1.00	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Limited ~large stones (limited)	0.83	Limited ~large stones (limited)	0.83
			~large stones (moderately limited)	0.51	~droughty (slightly limited)	0.19			~droughty (slightly limited)	0.19

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	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
82A: Dameron-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~flooding (limited) ~percs slowly (slightly limited)	0.90  0.13	Limited ~flooding (limited) ~percs slowly (slightly limited)	0.90  0.13	Slightly limited ~large stones (slightly limited)	0.16	Slightly limited ~large stones (slightly limited)	0.16
91: Udipsamments---	Very limited ~seepage (very limited) ~slope (very limited)	1.00  1.00	Very limited ~slope (very limited) ~cutbanks cave (limited)	1.00  0.90	Very limited ~slope (very limited) ~fast intake (limited) ~droughty (moderately limited)	1.00  0.90  0.34	Very limited ~slope (very limited) ~too sandy (moderately limited)	1.00  0.60	Very limited ~slope (very limited) ~droughty (moderately limited)	1.00  0.34
94: Pits-----	Not rated		Not rated		Not rated		Not rated		Not rated	
Dumps-----										
AED: Orthent-----	Not rated		Not rated		Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	