

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**

Madison 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
73055: Alred-----	Very limited ~slope (very limited) ~seepage (moderately limited)	1.00 0.50	Very limited ~slope (very limited) ~large surface stones (limited) ~large stones (moderately limited)	1.00 0.70 0.39	Very limited ~slope (very limited) ~large surface stones (limited) ~percs slowly (slightly limited)	1.00 0.70 0.18	Very limited ~slope (very limited) ~large surface stones (limited)	1.00 0.70	Very limited ~slope (very limited) ~large surface stones (limited)	1.00 0.70
Rueter-----	Very limited ~slope (very limited) ~seepage (moderately limited)	1.00 0.50	Very limited ~slope (very limited) ~large stones (very limited) ~large surface stones (limited)	1.00 1.00 0.70	Very limited ~slope (very limited) ~large surface stones (limited) ~percs slowly (slightly limited)	1.00 0.70 0.18	Very limited ~slope (very limited) ~large surface stones (limited)	1.00 0.70	Very limited ~slope (very limited) ~large surface stones (limited)	1.00 0.70
73139: Poynor-----	Limited ~slope (limited) ~seepage (moderately limited)	0.99 0.50	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large surface stones (slightly limited)	1.00 0.18 0.17	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large surface stones (slightly limited)	1.00 0.18 0.17	Limited ~slope (limited) ~large surface stones (slightly limited)	0.99 0.17	Limited ~slope (limited) ~large surface stones (slightly limited)	0.99 0.17
Clarksville----	Limited ~slope (limited) ~seepage (moderately limited)	0.99 0.50	Very limited ~slope (very limited) ~large surface stones (slightly limited) ~large stones (slightly limited)	1.00 0.17 0.12	Very limited ~slope (very limited) ~large surface stones (slightly limited) ~droughty (slightly limited)	1.00 0.17 0.00	Limited ~slope (limited) ~large surface stones (slightly limited)	0.99 0.17	Limited ~slope (limited) ~large surface stones (slightly limited) ~droughty (slightly limited)	0.99 0.17 0.00

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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
73139: (cont) Scholten-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.99	Limited ~slope (limited)	0.99
	~seepage (moderately limited)	0.50	~percs slowly (very limited)	1.00	~percs slowly (very limited)	1.00	~wetness (limited)	0.78	~rooting depth (limited)	0.80
			~large surface stones (slightly limited)	0.17	~droughty (moderately limited)	0.56	~large surface stones (slightly limited)	0.17	~wetness (limited)	0.78
73140: Clarksville----	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 (very limited)	1.00	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70
Scholten-----	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 (very limited)	1.00	~percs slowly (very limited)	1.00	~percs slowly (very limited)	1.00	~large surface stones (limited)	0.70	~rooting depth (limited)	0.80
			~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~wetness (slightly limited)	0.17	~large surface stones (limited)	0.70
73141: Firebaugh-----	Moderately limited ~seepage (moderately limited)	0.50	Very limited ~large stones (very limited)	1.00	Limited ~slope (limited)	0.98	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.50	~wetness (moderately limited)	0.50
			~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~slope (moderately limited)	0.30	~slope (moderately limited)	0.30

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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
73142: Firebaugh-----	Limited ~slope (limited) ~seepage (moderately limited)	0.99 0.50	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Limited ~slope (limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	0.99 0.60 0.50	Limited ~slope (limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	0.99 0.60 0.50
73143: Courtois-----	Moderately limited ~seepage (moderately limited) ~slope (slightly limited)	0.50 0.20	Limited ~slope (limited)	0.78	Limited ~slope (limited) ~erodes easily (moderately limited)	0.78 0.60	Moderately limited ~erodes easily (moderately limited) ~slope (slightly limited)	0.60 0.20	Moderately limited ~erodes easily (moderately limited) ~slope (slightly limited)	0.60 0.20
73144: Courtois-----	Limited ~slope (limited) ~seepage (moderately limited)	0.89 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)	0.89 0.60	Limited ~slope (limited) ~erodes easily (moderately limited)	0.89 0.60
73145: Crider-----	Moderately limited ~seepage (moderately limited) ~slope (slightly limited)	0.50 0.20	Limited ~slope (limited)	0.78	Limited ~slope (limited) ~erodes easily (moderately limited)	0.78 0.60	Moderately limited ~erodes easily (moderately limited) ~slope (slightly limited)	0.60 0.20	Moderately limited ~erodes easily (moderately limited) ~slope (slightly limited)	0.60 0.20
73146: Marquand-----	Moderately limited ~slope (moderately limited)	0.30	Limited ~slope (limited) ~percs slowly (slightly limited)	0.98 0.13	Limited ~slope (limited) ~erodes easily (moderately limited) ~percs slowly (slightly limited)	0.98 0.60 0.13	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited) ~slope (moderately limited)	0.60 0.37 0.30	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited) ~slope (moderately limited)	0.60 0.37 0.30

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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
73147: Fourche-----	Slightly limited ~slope (slightly limited)	0.20	Limited ~slope (limited) ~percs slowly (slightly limited)	0.78 0.13	Limited ~slope (limited) ~erodes easily (moderately limited) ~percs slowly (slightly limited)	0.78 0.60 0.13	Moderately limited ~erodes easily (moderately limited) ~wetness (slightly limited) ~slope (slightly limited)	0.60 0.28 0.20	Moderately limited ~erodes easily (moderately limited) ~wetness (slightly limited) ~slope (slightly limited)	0.60 0.28 0.20
73148: Jonca-----	Moderately limited ~seepage (moderately limited) ~slope (moderately limited) ~depth to bedrock (slightly limited)	0.32 0.30 0.25	Limited ~slope (limited) ~percs slowly (moderately limited)	0.98 0.57	Limited ~slope (limited) ~percs slowly (moderately limited)	0.98 0.57	Moderately limited ~slope (moderately limited) ~wetness (slightly limited)	0.30 0.28	Limited ~rooting depth (limited) ~slope (moderately limited) ~wetness (slightly limited)	0.80 0.30 0.28
73149: Caneyville-----	Limited ~depth to bedrock (limited) ~slope (moderately limited)	0.85 0.30	Limited ~slope (limited) ~depth to bedrock (slightly limited) ~percs slowly (slightly limited)	0.98 0.30 0.13	Limited ~slope (limited) ~depth to bedrock (slightly limited) ~percs slowly (slightly limited)	0.98 0.30 0.13	Very limited ~depth to bedrock (very limited) ~slope (moderately limited)	1.00 0.30	Limited ~depth to bedrock (limited) ~slope (moderately limited)	0.85 0.30
Bucklick-----	Limited ~depth to bedrock (limited) ~seepage (moderately limited) ~slope (moderately limited)	0.63 0.50 0.30	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~depth to bedrock (moderately limited) ~slope (moderately limited)	0.57 0.30	Limited ~depth to bedrock (limited) ~slope (moderately limited)	0.63 0.30

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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
73150: Caneyville-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Limited ~slope (limited)	0.99
	~depth to bedrock (limited)	0.85	~depth to bedrock (slightly limited)	0.30	~depth to bedrock (slightly limited)	0.30	~slope (limited)	0.99	~depth to bedrock (limited)	0.85
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13				
Bucklick-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.99	Limited ~slope (limited)	0.99
	~depth to bedrock (limited)	0.63					~depth to bedrock (moderately limited)	0.57	~depth to bedrock (limited)	0.63
	~seepage (moderately limited)	0.50								
73151: Caneyville-----	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
	~depth to bedrock (limited)	0.84	~depth to bedrock (slightly limited)	0.28	~depth to bedrock (slightly limited)	0.28	~depth to bedrock (very limited)	1.00	~depth to bedrock (limited)	0.84
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13				
Gasconade-----	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 ~bedrock <20 in. (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	~slope (very limited)	1.00
			~large stones (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00	~droughty (very limited)	1.00

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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
73151: (cont) Bucklick-----	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
	~depth to bedrock (limited)	0.62					~depth to bedrock (moderately limited)	0.54	~depth to bedrock (limited)	0.62
	~seepage (moderately limited)	0.50								
73152: Lily-----	Very limited ~seepage (very limited)	1.00	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Very limited ~depth to bedrock (very limited)	1.00	Limited ~depth to bedrock (limited)	0.92
	~depth to bedrock (limited)	0.92	~depth to bedrock (moderately limited)	0.60	~depth to bedrock (moderately limited)	0.60	~slope (moderately limited)	0.30	~slope (moderately limited)	0.30
	~slope (moderately limited)	0.30								
Ramsey-----	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 ~bedrock <20 in. (very limited)	1.00
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~droughty ~slope (limited)	0.98	~slope (moderately limited)	0.30	~droughty ~slope (limited)	0.98
			~large stones (slightly limited)	0.06	~slope (limited)	0.98			~slope (moderately limited)	0.30
73153: Lily-----	Very limited ~seepage (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Limited ~slope (limited)	0.99
	~slope (limited)	0.99	~depth to bedrock (moderately limited)	0.60	~depth to bedrock (moderately limited)	0.60	~slope (limited)	0.99	~depth to bedrock (limited)	0.92
	~depth to bedrock (limited)	0.92	~large stones (slightly limited)	0.30			~large stones (slightly limited)	0.01	~large stones (slightly limited)	0.01

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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
73153: (cont) Ramsey-----	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 ~depth to bedrock (very limited)	1.00	Very limited ~bedrock <20 in. (very limited)	1.00
	~slope (limited)	0.99	~shallow to bedrock (very limited)	1.00	~slope (very limited)	1.00	~slope (limited)	0.99	~slope (limited)	0.99
			~large stones (slightly limited)	0.06	~droughty (limited)	0.98			~droughty (limited)	0.98
73154: Ramsey-----	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 ~depth to bedrock (very limited)	1.00	Very limited ~bedrock <20 in. (very limited)	1.00
	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00
			~large stones (slightly limited)	0.06	~droughty (limited)	0.98			~droughty (limited)	0.98
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73155: 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 ~bedrock <20 in. (very limited)	1.00
	~slope (very limited)	1.00	~slope (very limited)	1.00	~droughty (very limited)	1.00	~slope (very limited)	1.00	~droughty (very limited)	1.00
			~large stones (moderately limited)	0.51	~slope (very limited)	1.00	~large stones (moderately limited)	0.49	~slope (very limited)	1.00
Rock outcrop---	Not rated		Not rated		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	Rating class and limiting features	Value	Rating class and limiting features	Value
73156: Alred-----	Limited ~slope (limited) ~seepage (moderately limited)	0.99 0.50	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large surface stones (slightly limited)	1.00 0.18 0.17	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large surface stones (slightly limited)	1.00 0.18 0.17	Limited ~slope (limited) ~large surface stones (slightly limited)	0.99 0.17	Limited ~slope (limited) ~large surface stones (slightly limited)	0.99 0.17
Gepp-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large surface stones (slightly limited)	1.00 0.18 0.17	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large surface stones (slightly limited)	1.00 0.18 0.17	Limited ~slope (limited) ~large surface stones (slightly limited)	0.99 0.17	Limited ~slope (limited) ~large surface stones (slightly limited) ~droughty (slightly limited)	0.99 0.17 0.01
73157: Captina-----	Moderately limited ~seepage (moderately limited) ~slope (moderately limited)	0.50 0.30	Limited ~slope (limited) ~percs slowly (moderately limited)	0.98 0.39	Limited ~slope (limited) ~erodes easily (moderately limited) ~percs slowly (moderately limited)	0.98 0.60 0.39	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited) ~slope (moderately limited)	0.60 0.36 0.30	Limited ~rooting depth (limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	0.80 0.60 0.36
74644: Deible-----	Not limited		Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited) ~erodes easily (moderately limited)	1.00 0.60	Very limited ~wetness (very limited) ~erodes easily (moderately limited)	1.00 0.60	Very limited ~wetness (very limited) ~erodes easily (moderately limited)	1.00 0.60
74645: Higdon-----	Moderately limited ~seepage (moderately limited)	0.50	Slightly limited ~percs slowly (slightly limited)	0.13	Moderately limited ~erodes easily (moderately limited) ~percs slowly (slightly limited)	0.60 0.13	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

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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
74646: Cornwall-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
	~slope (moderately limited)	0.30	~percs slowly (moderately limited)	0.39	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.36	~wetness (moderately limited)	0.36
					~percs slowly (moderately limited)	0.39	~slope (moderately limited)	0.30	~slope (moderately limited)	0.30
74647: Cornwall-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.99	Limited ~slope (limited)	0.99
	~seepage (moderately limited)	0.50	~percs slowly (moderately limited)	0.39	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60
					~percs slowly (moderately limited)	0.39	~wetness (moderately limited)	0.36	~wetness (moderately limited)	0.36
74648: Aslinger-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
	~slope (moderately limited)	0.30	~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.44	~wetness (moderately limited)	0.44
					~percs slowly (slightly limited)	0.13	~slope (moderately limited)	0.30	~slope (moderately limited)	0.30
74649: Aslinger-----	Limited ~slope (limited)	0.70	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.70	Limited ~slope (limited)	0.70
	~seepage (moderately limited)	0.50	~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60
					~percs slowly (slightly limited)	0.13	~wetness (moderately limited)	0.44	~wetness (moderately limited)	0.44

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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
74649: (cont) Waben-----	Very limited ~seepage (very limited)	1.00	Limited ~slope (limited)	0.78	Limited ~slope (limited)	0.78	Very limited ~large stones (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~slope (slightly limited)	0.20	~large stones (moderately limited)	0.51	~droughty (slightly limited)	0.00	~slope (slightly limited)	0.20	~slope (slightly limited)	0.20
					~large stones (slightly limited)	0.00			~droughty (slightly limited)	0.00
74650: Higdon-----	Not limited		Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
			~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.60	~wetness (moderately limited)	0.60
					~percs slowly (slightly limited)	0.13				
74684: Racoon-----	Not limited		Slightly limited ~percs slowly (slightly limited)	0.13	Moderately limited ~erodes easily (moderately limited)	0.60	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
					~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60
75381: Bearthicket----	Moderately limited ~seepage (moderately limited)	0.50	Not limited		Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
75395: Jamesfin-----	Moderately limited ~seepage (moderately limited)	0.50	Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
					~erodes easily (moderately limited)	0.60				

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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
75408: Secesh-----	Very limited ~seepage (very limited)	1.00	Not limited		Not limited		Not limited		Not limited	
75409: Relfe-----	Very limited ~seepage (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60	Limited ~droughty (limited) ~flooding (moderately limited)	0.84 0.60	Very limited ~too sandy (very limited)	1.00	Limited ~droughty (limited)	0.84
75410: Relfe-----	Very limited ~seepage (very limited)	1.00	Limited ~flooding (limited)	0.90	Limited ~droughty (limited) ~flooding (limited)	0.96 0.90	Very limited ~too sandy (very limited)	1.00	Limited ~droughty (limited)	0.96
75411: Tilk-----	Very limited ~seepage (very limited)	1.00	Moderately limited ~large stones (moderately limited)	0.51	Slightly limited ~droughty (slightly limited)	0.04	Limited ~large stones (limited)	0.90	Limited ~large stones (limited) ~droughty (slightly limited)	0.90 0.04
75416: Gladden-----	Very limited ~seepage (very limited)	1.00	Limited ~cutbanks cave (limited) ~flooding (moderately limited)	0.90 0.60	Moderately limited ~flooding (moderately limited)	0.60	Not limited		Not limited	

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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
77000: Killarney-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~large surface stones (very limited) ~percs slowly (very limited)	1.00	Very limited ~slope (very limited) ~large surface stones (very limited) ~percs slowly (very limited)	1.00	Very limited ~slope (very limited) ~large surface stones (very limited) ~large stones (very limited)	1.00	Very limited ~slope (very limited) ~large surface stones (very limited) ~large stones (very limited)	1.00
Frenchmill-----	Very limited ~slope (very limited) ~seepage (moderately limited)	1.00 0.50	Very limited ~slope (very limited) ~large surface stones (very limited) ~large stones (limited)	1.00	Very limited ~slope (very limited) ~large surface stones (very limited)	1.00	Very limited ~slope (very limited) ~large surface stones (very limited) ~large stones (limited)	1.00	Very limited ~slope (very limited) ~large surface stones (very limited) ~large stones (limited)	1.00
77001: 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	Limited ~wetness (limited) ~erodes easily (moderately limited)	0.81 0.60	Limited ~wetness (limited) ~erodes easily (moderately limited)	0.81 0.60
77002: Delassus-----	Moderately limited ~seepage (moderately limited) ~slope (moderately limited) ~depth to bedrock (slightly limited)	0.50 0.30 0.27	Very limited ~percs slowly (very limited) ~slope (limited)	1.00 0.98	Very limited ~percs slowly (very limited) ~slope (limited) ~erodes easily (moderately limited)	1.00 0.98 0.60	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited) ~slope (moderately limited)	0.60 0.39 0.30	Limited ~rooting depth (limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	0.80 0.60 0.39

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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
77003: Delassus-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.99	Limited ~slope (limited)	0.99
	~seepage (moderately limited)	0.50	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~rooting depth (limited)	0.80
	~depth to bedrock (slightly limited)	0.27					~wetness (moderately limited)	0.39	~large surface stones (limited)	0.70
77004: Irondale-----	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
	~depth to bedrock (limited)	0.97	~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~depth to bedrock (very limited)	1.00	~large surface stones (very limited)	1.00
			~depth to bedrock (limited)	0.86	~depth to bedrock (limited)	0.86	~large surface stones (very limited)	1.00	~depth to bedrock (limited)	0.97
77005: Hassler-----	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
	~depth to bedrock (limited)	0.69	~large stones (very limited)	1.00	~percs slowly (slightly limited)	0.17	~large stones (very limited)	1.00	~large stones (very limited)	1.00
	~seepage (moderately limited)	0.50	~percs slowly (slightly limited)	0.17	~large surface stones (slightly limited)	0.17	~depth to bedrock (limited)	0.84	~depth to bedrock (limited)	0.69
Syenite-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~depth to bedrock (limited)	0.86	~large stones (moderately limited)	0.51	~depth to bedrock (moderately limited)	0.35	~slope (very limited)	1.00	~depth to bedrock (limited)	0.86
			~depth to bedrock (moderately limited)	0.35	~percs slowly (slightly limited)	0.17	~large stones (moderately limited)	0.45	~large stones (moderately limited)	0.45

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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
77006: Roselle-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
	~slope (moderately limited)	0.30	~percs slowly (moderately limited)	0.39	~erodes easily (moderately limited)	0.60	~slope (moderately limited)	0.30	~slope (moderately limited)	0.30
					~percs slowly (moderately limited)	0.39				
77007: 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 ~bedrock <20 in. (very limited)	1.00
	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~slope (very limited)	1.00
			~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00
Irondale-----	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
	~depth to bedrock (limited)	0.97	~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~depth to bedrock (very limited)	1.00	~large surface stones (very limited)	1.00
			~large stones (limited)	0.99	~depth to bedrock (limited)	0.86	~large surface stones (very limited)	1.00	~large stones (very limited)	1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
77008: Hassler-----	Limited ~depth to bedrock (limited)	0.61	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~large stones (limited)	0.85	Limited ~large stones (limited)	0.85
	~slope (moderately limited)	0.60	~percs slowly (slightly limited)	0.17	~percs slowly (slightly limited)	0.17	~slope (moderately limited)	0.60	~depth to bedrock (limited)	0.61
	~seepage (moderately limited)	0.50	~large surface stones (slightly limited)	0.17	~large surface stones (slightly limited)	0.17	~depth to bedrock (moderately limited)	0.52	~slope (moderately limited)	0.60

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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
77009: Trackler-----	Limited ~depth to bedrock (limited)	0.64	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Very limited ~large stones (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~slope (moderately limited)	0.30	~large stones (moderately limited)	0.51	~large stones (slightly limited)	0.19	~depth to bedrock (limited)	0.60	~depth to bedrock (limited)	0.64
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~wetness (moderately limited)	0.39	~wetness (moderately limited)	0.39
77010: Trackler-----	Limited ~slope (limited)	0.89	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.89	Limited ~slope (limited)	0.89
	~depth to bedrock (limited)	0.64	~large stones (moderately limited)	0.51	~erodes easily (moderately limited)	0.60	~depth to bedrock (limited)	0.60	~depth to bedrock (limited)	0.64
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60
Irondale-----	Limited ~depth to bedrock (limited)	0.97	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~large surface stones (very limited)	1.00
	~slope (limited)	0.89	~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~depth to bedrock (limited)	0.97
			~depth to bedrock (limited)	0.86	~depth to bedrock (limited)	0.86	~slope (limited)	0.89	~slope (limited)	0.89
78250: Skrainka-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
	~slope (moderately limited)	0.30	~percs slowly (slightly limited)	0.17	~erodes easily (moderately limited)	0.60	~slope (moderately limited)	0.30	~slope (moderately limited)	0.30
					~percs slowly (slightly limited)	0.17				

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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
78251: Skrainka-----	Limited ~slope (limited) ~seepage (moderately limited)	0.99 0.50	Very limited ~slope (very limited) ~percs slowly (slightly limited)	1.00 0.17	Very limited ~slope (very limited) ~percs slowly (slightly limited)	1.00 0.17	Limited ~slope (limited)	0.99	Limited ~slope (limited)	0.99
99001: Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	
99006: Udipsammments---	Very limited ~seepage (very limited)	1.00	Limited ~cutbanks cave (limited) ~slope (slightly limited)	0.90 0.10	Limited ~fast intake (limited) ~droughty (moderately limited) ~slope (slightly limited)	0.90 0.34 0.10	Moderately limited ~too sandy (moderately limited)	0.60	Moderately limited ~droughty (moderately limited)	0.34
99008: Udorthents-----	Slightly limited ~slope (slightly limited)	0.20	Not Rated Not Rated ~slope (limited)	 0.78	Not Rated Not Rated Not Rated Not Rated	 	Not Rated Not Rated ~slope (slightly limited)	 0.20	Not Rated Not Rated ~droughty (very limited) ~slope (slightly limited)	 1.00 0.20
Dumps-----	Not rated		Not rated		Not rated		Not rated		Not rated	