

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**

Douglas 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
73013: Lowassie-----	Not limited		Very limited ~ponded (wetness) (very limited) ~percs slowly (moderately limited)	1.00	Very limited ~ponded (wetness) (very limited) ~erodes easily (moderately limited) ~percs slowly (moderately limited)	1.00	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~erodes easily (moderately limited)	1.00	Very limited ~wetness (very limited) ~erodes easily (moderately limited)	1.00
73017: Bendavis-----	Very limited ~slope (very limited) ~depth to bedrock (limited) ~seepage (moderately limited)	1.00 0.77 0.50	Very limited ~slope (very limited) ~large surface stones (limited) ~percs slowly (moderately limited)	1.00 0.70 0.39	Very limited ~slope (very limited) ~large surface stones (limited) ~percs slowly (moderately limited)	1.00 0.70 0.39	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~large surface stones (limited)	1.00 1.00 0.70	Very limited ~slope (very limited) ~depth to bedrock (limited) ~large surface stones (limited)	1.00 0.77 0.70
Poynor-----	Very limited ~slope (very limited) ~seepage (moderately limited)	1.00 0.50	Very limited ~slope (very limited) ~large surface stones (moderately limited)	1.00 0.30	Very limited ~slope (very limited) ~droughty (moderately limited) ~large surface stones (moderately limited)	1.00 0.57 0.30	Very limited ~slope (very limited) ~large surface stones (moderately limited)	1.00 1.00 0.30	Very limited ~slope (very limited) ~droughty (moderately limited) ~large surface stones (moderately limited)	1.00 0.57 0.30
73019: Poynor-----	Moderately limited ~seepage (moderately limited) ~slope (moderately limited)	0.50 0.30	Limited ~slope (limited)	0.98	Limited ~slope (limited) ~droughty (moderately limited)	0.98 0.57	Moderately limited ~slope (moderately limited)	0.30	Moderately limited ~droughty (moderately limited) ~slope (moderately limited)	0.57 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
73021: Poynor-----	Very limited ~slope (very limited) ~seepage (moderately limited)	1.00 0.50	Very limited ~slope (very limited) ~large surface stones (moderately limited)	1.00 0.30	Very limited ~slope (very limited) ~droughty (moderately limited) ~large surface stones (moderately limited)	1.00 0.57 0.30	Very limited ~slope (very limited) ~large surface stones (moderately limited)	1.00 0.30	Very limited ~slope (very limited) ~droughty (moderately limited)	1.00 0.57
73023: Mano-----	Moderately limited ~seepage (moderately limited) ~slope (slightly limited)	0.50 0.20	Limited ~slope (limited) ~percs slowly (moderately limited)	0.78 0.39	Limited ~slope (limited) ~percs slowly (moderately limited)	0.78 0.39	Slightly limited ~wetness (slightly limited) ~slope (slightly limited)	0.28 0.20	Slightly limited ~wetness (slightly limited) ~slope (slightly limited)	0.28 0.20
Ocie-----	Moderately limited ~seepage (moderately limited) ~depth to bedrock (moderately limited) ~slope (slightly limited)	0.50 0.40 0.20	Limited ~slope (limited) ~percs slowly (moderately limited)	0.78 0.39	Limited ~slope (limited) ~percs slowly (moderately limited)	0.78 0.39	Slightly limited ~wetness (slightly limited) ~depth to bedrock (slightly limited) ~slope (slightly limited)	0.28 0.25 0.20	Moderately limited ~depth to bedrock (moderately limited) ~wetness (slightly limited) ~slope (slightly limited)	0.40 0.28 0.20
73024: Mano-----	Limited ~slope (limited) ~seepage (moderately limited)	0.99 0.50	Very limited ~slope (very limited) ~percs slowly (moderately limited) ~large surface stones (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited) ~large surface stones (moderately limited)	1.00 0.39	Limited ~slope (limited) ~large surface stones (moderately limited) ~wetness (slightly limited)	0.99 0.30 0.28	Limited ~slope (limited) ~large surface stones (moderately limited) ~wetness (slightly limited)	0.99 0.30 0.28

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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
73024: (cont) Ocie-----	Limited ~slope (limited) ~seepage (moderately limited) ~depth to bedrock (moderately limited)	0.99 0.50 0.40	Very limited ~slope (very limited) ~percs slowly (moderately limited) ~large surface stones (moderately limited)	1.00 0.39 0.30	Very limited ~slope (very limited) ~percs slowly (moderately limited) ~large surface stones (moderately limited)	1.00 0.39 0.30	Limited ~slope (limited) ~large surface stones (moderately limited) ~wetness (slightly limited)	0.99 0.30 0.28	Limited ~slope (limited) ~depth to bedrock (moderately limited) ~large surface stones (moderately limited)	0.99 0.40 0.30
73032: Gatewood-----	Limited ~depth to bedrock (limited) ~slope (limited)	0.89 0.70	Very limited ~slope (very limited) ~depth to bedrock (moderately limited) ~percs slowly (moderately limited)	1.00 0.46 0.39	Very limited ~slope (very limited) ~depth to bedrock (moderately limited) ~percs slowly (moderately limited)	1.00 0.46 0.39	Very limited ~depth to bedrock (very limited) ~slope (limited) ~wetness (moderately limited)	1.00 0.70 0.36	Limited ~depth to bedrock (limited) ~slope (limited) ~wetness (moderately limited)	0.89 0.70 0.36
73033: Gatewood-----	Very limited ~slope (very limited) ~depth to bedrock (limited)	1.00 0.89	Very limited ~slope (very limited) ~depth to bedrock (moderately limited) ~large stones (moderately limited)	1.00 0.46 0.43	Very limited ~slope (very limited) ~depth to bedrock (moderately limited) ~percs slowly (moderately limited)	1.00 0.46 0.39	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~large stones (moderately limited)	1.00 1.00 0.51	Very limited ~slope (very limited) ~depth to bedrock (limited) ~large stones (moderately limited)	1.00 0.89 0.51
73051: Winnipeg-----	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
73059: Pomme-----	Moderately limited ~seepage (moderately limited)	0.50	Not limited		Not limited		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
73063: Bendavis-----	Limited ~seepage (limited)	0.92	Limited ~slope (limited)	0.78	Limited ~slope (limited)	0.78	Very limited ~depth to bedrock (very limited)	1.00	Limited ~depth to bedrock (limited)	0.84
	~depth to bedrock (limited)	0.84	~depth to bedrock (slightly limited)	0.27	~depth to bedrock (slightly limited)	0.27	~wetness (slightly limited)	0.28	~wetness (slightly limited)	0.28
	~slope (slightly limited)	0.20					~slope (slightly limited)	0.20	~slope (slightly limited)	0.20
Poynor-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~slope (limited)	0.78	Limited ~slope (limited)	0.78	Slightly limited ~slope (slightly limited)	0.20	Moderately limited ~droughty (moderately limited)	0.40
	~slope (slightly limited)	0.20			~droughty (moderately limited)	0.40			~slope (slightly limited)	0.20
73068: Tick-----	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
			~percs slowly (moderately limited)	0.34	~percs slowly (moderately limited)	0.34				
73069: Tick-----	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
			~percs slowly (moderately limited)	0.34	~percs slowly (moderately limited)	0.34	~large surface stones (slightly limited)	0.07	~large surface stones (slightly limited)	0.07
			~large surface stones (slightly limited)	0.07	~large surface stones (slightly limited)	0.07				

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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
73073: 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 (limited)	0.68	~percs slowly (very limited)	1.00	~percs slowly (very limited)	1.00	~wetness (moderately limited)	0.58	~rooting depth (limited)	0.80
					~droughty (limited)	0.70			~droughty (limited)	0.70
Poynor-----	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 (slightly limited)	0.18	~droughty (limited)	0.75			~droughty (limited)	0.75
					~percs slowly (slightly limited)	0.18				
73076: Mano-----	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 (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~wetness (slightly limited)	0.28
Ocie-----	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 (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~depth to bedrock (moderately limited)	0.40
	~depth to bedrock (moderately limited)	0.40					~depth to bedrock (slightly limited)	0.25	~wetness (slightly limited)	0.28

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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
73121: Scholten-----	Limited ~seepage (limited)	0.68	Moderately limited ~slope (moderately limited)	0.40	Limited ~droughty (limited)	0.92	Moderately limited ~wetness (moderately limited)	0.58	Limited ~droughty (limited)	0.92
	~slope (slightly limited)	0.10			~slope (moderately limited)	0.40	~slope (slightly limited)	0.10	~rooting depth (limited)	0.80
									~wetness (moderately limited)	0.58
Tonti-----	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 (slightly limited)	0.10	~slope (moderately limited)	0.40	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.44	~erodes easily (moderately limited)	0.60
					~slope (moderately limited)	0.40	~slope (slightly limited)	0.10	~wetness (moderately limited)	0.44
73176: Bendavis-----	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)	0.92	~depth to bedrock (moderately limited)	0.58	~depth to bedrock (moderately limited)	0.58	~slope (limited)	0.99	~depth to bedrock (limited)	0.92
	~seepage (moderately limited)	0.50	~large surface stones (slightly limited)	0.13	~droughty (moderately limited)	0.45	~wetness (slightly limited)	0.28	~droughty (moderately limited)	0.45
Poynor-----	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 (slightly limited)	0.13	~large surface stones (slightly limited)	0.13	~large surface stones (slightly limited)	0.13	~large surface stones (slightly limited)	0.13
73198: Gressy-----	Limited ~seepage (limited)	0.98	Moderately limited ~slope (moderately limited)	0.40	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
	~slope (slightly limited)	0.10			~slope (moderately limited)	0.40	~slope (slightly limited)	0.10	~slope (slightly limited)	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
73192: (cont)										
Viraton-----	Moderately limited		Very limited		Very limited		Moderately limited		Limited	
	~seepage (moderately limited)	0.50	~percs slowly (very limited)	1.00	~percs slowly (very limited)	1.00	~erodes easily (moderately limited)	0.60	~rooting depth (limited)	0.80
	~slope (slightly limited)	0.10	~large stones (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.44	~erodes easily (moderately limited)	0.60
			~slope (moderately limited)	0.40	~slope (moderately limited)	0.40	~large stones (slightly limited)	0.14	~wetness (moderately limited)	0.44
73199:										
Moko-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~depth to bedrock (very limited)	1.00	~large stones (very limited)	1.00
	~slope (limited)	0.70	~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 (limited)	0.89	~slope (very limited)	1.00	~slope (limited)	0.70	~droughty (very limited)	1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73220:										
Poynor-----	Limited		Very limited		Very limited		Limited		Limited	
	~slope (limited)	0.99	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (limited)	0.99	~slope (limited)	0.99
	~seepage (moderately limited)	0.50	~percs slowly (slightly limited)	0.18	~droughty (moderately limited)	0.57			~droughty (moderately limited)	0.57
					~percs slowly (slightly limited)	0.18				
73222:										
Splitlimb-----	Moderately limited		Very limited		Very limited		Very limited		Moderately limited	
	~seepage (moderately limited)	0.32	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~erodes easily (moderately limited)	0.60
			~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.55
					~percs slowly (slightly limited)	0.13	~wetness (moderately limited)	0.55		

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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
73223: Coulstone-----	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 ~large stones (very limited)	1.00
	~seepage (very limited)	1.00	~large stones (very limited)	1.00	~droughty (very limited)	1.00	~large stones (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	~droughty (very limited)	1.00
Bender-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~droughty (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~seepage (very limited)	1.00	~large stones (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~droughty (very limited)	1.00
	~depth to bedrock (limited)	0.86	~large surface stones (moderately limited)	0.43	~large stones (limited)	0.71	~large stones (very limited)	1.00	~large stones (very limited)	1.00
73224: Moko-----	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 (limited)	0.89	~slope (very limited)	1.00	~large stones (very limited)	1.00	~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
73225:										
Ocie-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~slope (moderately limited)	0.30	Moderately limited ~depth to bedrock (moderately limited)	0.40
	~depth to bedrock (moderately limited)	0.40	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~slope (moderately limited)	0.30
	~slope (moderately limited)	0.30					~depth to bedrock (slightly limited)	0.25	~wetness (slightly limited)	0.28
Gatewood-----	Limited ~depth to bedrock (limited)	0.89	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Very limited ~depth to bedrock (very limited)	1.00	Limited ~depth to bedrock (limited)	0.89
	~slope (moderately limited)	0.30	~depth to bedrock (moderately limited)	0.46	~depth to bedrock (moderately limited)	0.46	~wetness (moderately limited)	0.36	~wetness (moderately limited)	0.36
			~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~slope (moderately limited)	0.30	~droughty (moderately limited)	0.30
73226:										
Ocie-----	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 (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~depth to bedrock (moderately limited)	0.40
	~depth to bedrock (moderately limited)	0.40					~depth to bedrock (slightly limited)	0.25	~wetness (slightly limited)	0.28
Gatewood-----	Limited ~depth to bedrock (limited)	0.89	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Limited ~depth to bedrock (limited)	0.89
	~slope (limited)	0.70	~depth to bedrock (moderately limited)	0.46	~depth to bedrock (moderately limited)	0.46	~slope (limited)	0.70	~slope (limited)	0.70
			~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~wetness (moderately limited)	0.36	~wetness (moderately limited)	0.36

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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
73227:										
Ocie-----	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 (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~depth to bedrock (moderately limited)	0.40
	~depth to bedrock (moderately limited)	0.40					~depth to bedrock (slightly limited)	0.25	~wetness (slightly limited)	0.28
Gatewood-----	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)	0.77	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~depth to bedrock (very limited)	1.00	~depth to bedrock (limited)	0.77
			~depth to bedrock (slightly limited)	0.13	~depth to bedrock (slightly limited)	0.13	~wetness (moderately limited)	0.36	~wetness (moderately limited)	0.36
73228:										
Gatewood-----	Limited ~depth to bedrock (limited)	0.89	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Limited ~depth to bedrock (limited)	0.89
	~slope (limited)	0.70	~depth to bedrock (moderately limited)	0.46	~depth to bedrock (moderately limited)	0.46	~slope (limited)	0.70	~slope (limited)	0.70
			~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~large surface stones (moderately limited)	0.37	~large surface stones (moderately limited)	0.37
Moko-----	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 (limited)	0.70	~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 (limited)	0.89	~slope (very limited)	1.00	~slope (limited)	0.70	~droughty (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
73229: Gatewood-----	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)	0.89	~depth to bedrock (moderately limited)	0.46	~depth to bedrock (moderately limited)	0.46	~depth to bedrock (very limited)	1.00	~depth to bedrock (limited)	0.89
			~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~large surface stones (moderately limited)	0.37	~large surface stones (moderately limited)	0.37
Moko-----	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 (limited)	0.89	~slope (very limited)	1.00	~large stones (very limited)	1.00	~slope (very limited)	1.00
73230: Coulstone-----	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 stones (very limited)	1.00	~droughty (very limited)	1.00	~large surface stones (very limited)	1.00	~droughty (very limited)	1.00
			~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~large stones (very limited)	1.00	~large stones (very limited)	1.00
Bender-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~droughty (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~seepage (very limited)	1.00	~large stones (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~droughty (very limited)	1.00
	~depth to bedrock (limited)	0.86	~large surface stones (moderately limited)	0.43	~large stones (limited)	0.71	~large stones (very limited)	1.00	~large stones (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
73237: Clarksville----	Very limited ~seepage (very limited)	1.00	Very limited ~large stones (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~large stones (very limited)	1.00	Very limited ~large stones (very limited)	1.00
	~slope (limited)	0.70	~slope (very limited)	1.00	~large surface stones (limited)	0.79	~large surface stones (limited)	0.79	~large surface stones (limited)	0.79
			~large surface stones (limited)	0.79	~droughty (moderately limited)	0.43	~slope (limited)	0.70	~slope (limited)	0.70
73242: Fanchon-----	Moderately limited ~seepage (moderately limited)	0.50	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
	~slope (slightly limited)	0.10								
Tonti-----	Limited ~seepage (limited)	0.68	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 (slightly limited)	0.10	~slope (moderately limited)	0.40	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.56	~erodes easily (moderately limited)	0.60
			~large stones (slightly limited)	0.18	~slope (moderately limited)	0.40	~slope (slightly limited)	0.10	~wetness (moderately limited)	0.56
73243: Topazmill-----	Moderately limited ~seepage (moderately limited)	0.50	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
	~slope (slightly limited)	0.10								
73300: Macedonia-----	Slightly limited ~slope (slightly limited)	0.20	Limited ~slope (limited)	0.78	Limited ~slope (limited)	0.78	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
	~seepage (slightly limited)	0.08			~erodes easily (moderately limited)	0.60	~slope (slightly limited)	0.20	~slope (slightly limited)	0.20

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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
73326: (cont)										
Coulstone-----	Very limited ~seepage (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~large surface stones (very limited)	1.00	Very limited ~droughty (very limited)	1.00
	~slope (limited)	0.80	~large stones (very limited)	1.00	~droughty (very limited)	1.00	~large stones (very limited)	1.00	~large stones (very limited)	1.00
			~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~slope (limited)	0.80	~large surface stones (very limited)	1.00
73327:										
Topazmill-----	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								
Coulstone-----	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 stones (very limited)	1.00	~droughty (very limited)	1.00	~large surface stones (very limited)	1.00	~droughty (very limited)	1.00
			~large surface stones (very limited)	1.00	~large surface stones (very limited)	1.00	~large stones (very limited)	1.00	~large stones (very limited)	1.00
73328:										
Scholten-----	Limited ~seepage (limited)	0.68	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~wetness (moderately limited)	0.58	Limited ~droughty (limited)	0.92
	~slope (moderately limited)	0.30			~droughty (limited)	0.92	~slope (moderately limited)	0.30	~rooting depth (limited)	0.80
									~wetness (moderately limited)	0.58
Noark-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~slope (limited)	0.98	Limited ~slope (limited)	0.98	Moderately limited ~slope (moderately limited)	0.30	Moderately limited ~slope (moderately limited)	0.30
	~slope (moderately limited)	0.30			~droughty (slightly limited)	0.30			~droughty (slightly 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
73329: Mano-----	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	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~wetness (slightly limited)	0.28
Ocie-----	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	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~depth to bedrock (moderately limited)	0.40
	~depth to bedrock (moderately limited)	0.40					~depth to bedrock (slightly limited)	0.25	~wetness (slightly limited)	0.28
73331: Pomme-----	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								
73332: Topazmill-----	Limited ~slope (limited)	0.80	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~slope (limited)	0.80	Limited ~slope (limited)	0.80
	~seepage (moderately limited)	0.50								
74627: Hartville-----	Not limited		Moderately limited ~percs slowly (moderately limited)	0.39	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited)	0.60
					~percs slowly (moderately limited)	0.39	~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
74657: Pomme-----	Moderately limited ~seepage (moderately limited) ~slope (slightly limited)	0.50 0.20	Limited ~slope (limited)	0.78	Limited ~slope (limited)	0.78	Slightly limited ~slope (slightly limited)	0.20	Slightly limited ~slope (slightly limited)	0.20
74682: Zanoni-----	Very limited ~seepage (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~flooding (moderately limited)	0.60	Not limited		Not limited	
74683: Cedargap-----	Very limited ~seepage (very limited)	1.00	Limited ~flooding (limited)	0.90	Limited ~flooding (limited) ~droughty (slightly limited)	0.90 0.17	Not limited		Slightly limited ~droughty (slightly limited)	0.17
Razort-----	Very limited ~seepage (very limited)	1.00	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
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
75382: Cedargap-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Not limited		Not limited	
75390: Razort-----	Very limited ~seepage (very limited)	1.00	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

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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
75406: Racket-----	Very limited ~seepage (very limited)	1.00	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Not limited		Not limited	
75417: Relfe-----	Very limited ~seepage (very limited)	1.00	Limited ~flooding (limited)	0.90	Very limited ~droughty (very limited) ~flooding (limited)	1.00 0.90	Moderately limited ~too sandy (moderately limited)	0.60	Very limited ~droughty (very limited)	1.00
Sandbur-----	Very limited ~seepage (very limited)	1.00	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Not limited		Not limited	
99001: Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	
99002: Borrow areas---	Not rated		Not rated		Not rated		Not rated		Not rated	