

## 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**

Macon 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
14C2: Armstrong-----	Moderately limited ~slope (moderately limited)	0.45	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Moderately limited ~slope (moderately limited) ~wetness (moderately limited)	0.45 0.44	Moderately limited ~slope (moderately limited) ~wetness (moderately limited)	0.45 0.44
14D2: Armstrong-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Limited ~slope (limited) ~wetness (moderately limited)	0.99 0.44	Limited ~slope (limited) ~wetness (moderately limited)	0.99 0.44
15C3: Armstrong-----	Moderately limited ~slope (moderately limited)	0.45	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~slow intake (moderately limited) ~erodes easily (moderately limited)	1.00 0.60 0.60	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
15D3: Armstrong-----	Limited ~slope (limited)	0.99	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~slow intake (moderately limited) ~erodes easily (moderately limited)	1.00 0.60 0.60	Limited ~slope (limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	0.99 0.60 0.44	Limited ~slope (limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	0.99 0.60 0.44

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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
16C2: Bevier-----	Moderately limited ~slope (moderately limited)	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	Very limited ~wetness (very limited) ~erodes easily (moderately limited) ~slope (moderately limited)	1.00  0.60 0.30	Very limited ~wetness (very limited) ~erodes easily (moderately limited) ~slope (moderately limited)	1.00  0.60 0.30
17C: Purdin-----	Moderately limited ~slope (moderately limited)	0.45	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Moderately limited ~slope (moderately limited) ~wetness (slightly limited)	0.45  0.13	Moderately limited ~slope (moderately limited) ~wetness (slightly limited)	0.45  0.13
17E: Purdin-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00  0.13	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00  0.13
17E2: Purdin-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00  0.13	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00  0.13
17F: Purdin-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00  0.13	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00  0.13

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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
17F2: Purdin-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~slow intake (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13
18C2: Gorin-----	Moderately limited ~slope (moderately limited)	0.45	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	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
19E2: Gosport-----	Very limited ~slope (very limited) ~depth to bedrock (limited)	1.00 0.96	Very limited ~slope (very limited) ~percs slowly (very limited) ~depth to bedrock (limited)	1.00 1.00 0.83	Very limited ~slope (very limited) ~percs slowly (very limited) ~depth to bedrock (limited)	1.00 1.00 0.83	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~erodes easily (moderately limited)	1.00 1.00 0.60	Very limited ~slope (very limited) ~depth to bedrock (limited) ~erodes easily (moderately limited)	1.00 0.96 0.60
22F: Vanmeter-----	Very limited ~slope (very limited) ~depth to bedrock (limited)	1.00 0.85	Very limited ~slope (very limited) ~percs slowly (very limited) ~depth to bedrock (slightly limited)	1.00 1.00 1.00 0.30	Very limited ~slope (very limited) ~percs slowly (very limited) ~erodes easily (moderately limited)	1.00 1.00 1.00 0.60	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~erodes easily (moderately limited)	1.00 1.00 1.00 0.60	Very limited ~slope (very limited) ~depth to bedrock (limited) ~erodes easily (moderately limited)	1.00 0.85 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
23C2: Keswick-----	Moderately limited ~slope (moderately limited)	0.45	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~slow intake (moderately limited)	1.00  0.60 0.60	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
23E3: Keswick-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~slow intake (moderately limited)	1.00  0.60 0.60	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	1.00  0.60 0.44	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~wetness (moderately limited)	1.00  0.60 0.44
26B2: Leonard-----	Slightly limited ~slope (slightly limited)	0.10	Moderately limited ~slope (moderately limited) ~percs slowly (moderately limited)	0.40  0.39	Moderately limited ~erodes easily (moderately limited) ~slow intake (moderately limited) ~slope (moderately limited)	0.60  0.60 0.40	Limited ~wetness (limited) ~erodes easily (moderately limited) ~slope (slightly limited)	0.99  0.60 0.10	Limited ~wetness (limited) ~erodes easily (moderately limited) ~slope (slightly limited)	0.99  0.60 0.10
27C: Winnegan-----	Moderately limited ~slope (moderately limited)	0.45	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00  0.39	Moderately limited ~slope (moderately limited) ~wetness (slightly limited)	0.45  0.13	Moderately limited ~slope (moderately limited) ~wetness (slightly limited)	0.45  0.13

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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
27E2: Winnegan-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13
27F: Winnegan-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13
27F2: Winnegan-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13	Very limited ~slope (very limited) ~wetness (slightly limited)	1.00 0.13
30B: Mexico-----	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 0.53	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60 0.53
31: Putnam-----	Not limited		Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited) ~erodes easily (moderately limited)	1.00 0.60	Limited ~wetness (limited) ~erodes easily (moderately limited)	0.99 0.60	Limited ~wetness (limited) ~erodes easily (moderately limited)	0.99 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
32B: Adco-----	Not limited		Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Moderately limited ~wetness (moderately limited)	0.53	Moderately limited ~wetness (moderately limited)	0.53
32B2: Adco-----	Not limited		Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Moderately limited ~wetness (moderately limited)	0.53	Moderately limited ~wetness (moderately limited)	0.53
40: Vesser-----	Moderately limited ~seepage (moderately limited)	0.50	Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~flooding (moderately limited)	0.60	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
41B: Marion-----	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
42: Bremer-----	Not limited		Slightly limited ~percs slowly (slightly limited)	0.13	Slightly limited ~percs slowly (slightly limited)	0.13	Moderately limited ~wetness (moderately limited)	0.60	Moderately limited ~wetness (moderately limited)	0.60
43: Chariton-----	Moderately limited ~seepage (moderately limited)	0.50	Moderately limited ~percs slowly (moderately limited)	0.39	Moderately limited ~erodes easily (moderately limited) ~percs slowly (moderately limited)	0.60 0.39	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

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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
44B: Gifford-----	Slightly limited ~slope (slightly limited)	0.10	Very limited ~percs slowly (very limited) ~slope (moderately limited)	1.00  0.40	Very limited ~percs slowly (very limited) ~erodes easily (moderately limited) ~slope (moderately limited)	1.00  0.60 0.40	Limited ~wetness (limited) ~erodes easily (moderately limited) ~slope (slightly limited)	0.99  0.60 0.10	Limited ~wetness (limited) ~erodes easily (moderately limited) ~slope (slightly limited)	0.99  0.60 0.10
44C2: Gifford-----	Moderately limited ~slope (moderately limited)	0.45	Very limited ~percs slowly (very limited) ~slope (very limited)	1.00  1.00	Very limited ~percs slowly (very limited) ~slope (very limited) ~erodes easily (moderately limited)	1.00  1.00 0.60	Limited ~wetness (limited) ~erodes easily (moderately limited) ~slope (moderately limited)	0.99  0.60 0.45	Limited ~wetness (limited) ~erodes easily (moderately limited) ~slope (moderately limited)	0.99  0.60 0.45
45A: Moniteau-----	Moderately limited ~seepage (moderately limited)	0.50	Moderately limited ~flooding (moderately limited) ~percs slowly (slightly limited)	0.60  0.13	Moderately limited ~flooding (moderately limited) ~erodes easily (moderately limited) ~percs slowly (slightly limited)	0.60  0.60 0.13	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
46B: Vigar-----	Moderately limited ~seepage (moderately limited) ~slope (slightly limited)	0.50  0.10	Moderately limited ~slope (moderately limited) ~percs slowly (slightly limited)	0.40  0.13	Moderately limited ~slope (moderately limited) ~percs slowly (slightly limited)	0.40  0.13	Slightly limited ~wetness (slightly limited) ~slope (slightly limited)	0.28  0.10	Slightly limited ~wetness (slightly limited) ~slope (slightly limited)	0.28  0.10

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51: Wilbur-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~flooding (limited)	0.90	Limited ~flooding (limited) ~erodes easily (moderately limited)	0.90 0.60	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60 0.52	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60 0.52
52: Blackoar-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
53: Chequest-----	Not limited		Moderately limited ~flooding (moderately limited) ~percs slowly (slightly limited)	0.60 0.13	Moderately limited ~slow intake (moderately limited) ~flooding (moderately limited) ~percs slowly (slightly limited)	0.60 0.60 0.13	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
55: Piopolis-----	Not limited		Very limited ~ponded (wetness) (very limited) ~flooding (limited) ~percs slowly (moderately limited)	1.00 0.90 0.39	Very limited ~ponded (wetness) (very limited) ~flooding (limited) ~erodes easily (moderately limited)	1.00 0.90 0.60	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~erodes easily (moderately limited)	1.00 1.00 0.60	Very limited ~wetness (very limited) ~erodes easily (moderately limited)	1.00 0.60
56: Darwin-----	Not limited		Very limited ~ponded (wetness) (very limited) ~percs slowly (very limited) ~flooding (moderately limited)	1.00 1.00 0.60	Very limited ~ponded (wetness) (very limited) ~percs slowly (very limited) ~slow intake (limited)	1.00 1.00 0.65	Very limited ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (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
57: Floriss-----	Very limited ~seepage (very limited)	1.00	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Not limited		Not limited	
58: Excello-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~flooding (limited)	0.90	Limited ~flooding (limited)	0.90	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
60E: Lenzburg-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large stones (slightly limited)	1.00 0.13 0.06	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~slow intake (moderately limited)	1.00 0.60 0.60	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~large stones (slightly limited)	1.00 0.60 0.01	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~large stones (slightly limited)	1.00 0.60 0.01
60F: Lenzburg-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~percs slowly (slightly limited) ~large stones (slightly limited)	1.00 0.13 0.06	Very limited ~slope (very limited) ~erodes easily (moderately limited) ~slow intake (moderately limited)	1.00 0.60 0.60	Very limited ~slope (very limited) ~erodes easily (moderately limited)	1.00 0.60	Very limited ~slope (very limited) ~erodes easily (moderately limited)	1.00 0.60
63B: Zook-----	Not limited		Moderately limited ~flooding (moderately limited) ~percs slowly (moderately limited) ~slope (slightly limited)	0.60 0.39 0.10	Moderately limited ~slow intake (moderately limited) ~flooding (moderately limited) ~percs slowly (moderately limited)	0.60 0.60 0.39	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (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
65: Dockery-----	Moderately limited ~seepage (moderately limited)	0.50	Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~flooding (moderately limited) ~erodes easily (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60	Moderately limited ~erodes easily (moderately limited) ~wetness (moderately limited)	0.60
66: Tice-----	Moderately limited ~seepage (moderately limited)	0.50	Limited ~flooding (limited)	0.90	Limited ~flooding (limited) ~slow intake (moderately limited)	0.90	Moderately limited ~wetness (moderately limited)	0.60	Moderately limited ~wetness (moderately limited)	0.60
67: Aquents-----	Not Rated		Not Rated		Not Rated		Not Rated		Not Rated	
			Not Rated		Not Rated Not Rated		Not Rated		Not Rated Not Rated	
68: Bremer-----	Not limited		Moderately limited ~flooding (moderately limited) ~percs slowly (slightly limited)	0.60	Moderately limited ~flooding (moderately limited) ~percs slowly (slightly limited)	0.60	Moderately limited ~wetness (moderately limited)	0.60	Moderately limited ~wetness (moderately limited)	0.60
69: Floriss-----	Moderately limited ~seepage (moderately limited)	0.50	Moderately limited ~flooding (moderately limited)	0.60	Moderately limited ~flooding (moderately limited)	0.60	Not limited		Not limited	
AED: Orthent-----	Not Rated		Not Rated		Not Rated		Not Rated		Not Rated	
			Not Rated		Not Rated Not Rated		Not Rated		Not Rated Not Rated	

Macon County, Missouri: Detailed Soil Map Legend

Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value								
M-W: Water-----	Not rated									
W: Water-----	Not rated									