

Agricultural Waste Management

Shelby County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AdD2: Adair-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	0.01	Slope	0.01	Too steep for surface application	1.00
						Too steep for sprinkler application	0.10
AdF2: Adair-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for sprinkler application	1.00
						Depth to saturated zone	1.00
AdH2: Adair-----	100	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
						Depth to saturated zone	1.00
AsD3: Adair-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	0.01	Slope	0.01	Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
AsF3: Adair-----	100	Very limited	1.00	Very limited	1.00	Too steep for sprinkler application	0.10	
		Restricted permeability		Restricted permeability		Too steep for surface application	1.00	
		Slope		Slope		Restricted permeability	1.00	
		Depth to saturated zone		Depth to saturated zone		Too steep for sprinkler application	1.00	
						Depth to saturated zone	1.00	
CdD2: Clarinda-----	100	Very limited	1.00	Very limited	1.00	Very limited	1.00	
		Restricted permeability		Restricted permeability		Restricted permeability		1.00
		Depth to saturated zone		Depth to saturated zone		Depth to saturated zone		1.00
		Runoff limitation		Too acid		Too steep for surface application		1.00
		Too acid		Slope		Too steep for sprinkler application		0.10
	Slope	Too acid	0.07					
CdF2: Clarinda-----	100	Very limited	1.00	Very limited	1.00	Very limited	1.00	
		Restricted permeability		Restricted permeability		Restricted permeability		1.00
		Slope		Slope		Too steep for surface application		1.00
		Depth to saturated zone		Depth to saturated zone		Too steep for sprinkler application		1.00
		Runoff limitation		Too acid		Depth to saturated zone		1.00
	Too acid	Too acid	0.07					
Cm: Colo-----	100	Very limited		Very limited		Very limited		

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CnD3: Clarinda-----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
CnF3: Clarinda-----	100	Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	1.00
		Too acid	0.02	Slope	0.01	Too steep for sprinkler application	0.10
		Slope	0.01			Too acid	0.07
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
Co: Colo-----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Depth to saturated zone	1.00
Cr: Colo-----	100	Too acid	0.02			Too acid	0.07
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cs: Corley-----	100	Flooding	0.60				
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
Ct: Corley-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
DoE3: Dow-----	100	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.59
DoF3: Dow-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
IdC3: Ida-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
IdD3: Ida-----	100	Somewhat limited		Somewhat limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	0.16	Slope	0.16	Too steep for surface application	1.00
						Too steep for sprinkler application	0.39
IdE3: Ida-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
IdF3: Ida-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
IdG3: Ida-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
IdH3: Ida-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
IdI3: Ida-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	1.00
JdA: Judson-----	100	Not limited		Not limited		Not limited	
JdB: Judson-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
JdC: Judson-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
JnB: Judson-----	30	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
Nodaway-----	30	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Colo-----	20	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
JnC: Judson-----	65	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
Nodaway-----	20	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Colo-----	15	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
JzB: Judson-----	30	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
Nodaway-----	30	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Zook-----	20	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Leaching limitation	0.50				
JzC: Judson-----	60	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
Nodaway-----	20	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Zook-----	20	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
Kb: Kennebec-----	98	Somewhat limited		Very limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Flooding	0.60	Flooding	1.00	Flooding	0.60
Kc: Kennebec-----	96	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
MaA: Marshall-----	100	Not limited		Not limited		Not limited	
MaB: Marshall-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
MaC2: Marshall-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
MaD2: Marshall-----	100	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.39
MaE2: Marshall-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
MaF2: Marshall-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	1.00
MaH2: Marshall-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
MbA: Marshall-----	100	Not limited		Not limited		Not limited	
MbB: Marshall-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
MbC2: Marshall-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
MbD2: Marshall-----	100	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.39
MCC3: Marshall-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	0.02
McD3: Marshall-----	100	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.39
McE3: Marshall-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.77
McF3: Marshall-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00
McG3: Marshall-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00
McI3: Marshall-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	1.00
MdD3: Marshall-----	100	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.39
MdE3: Marshall-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.77
Me: Minden-----	98	Not limited		Not limited		Not limited	
Mn: Minden-----	98	Not limited		Not limited		Not limited	
MoB2: Monona-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
MoC2: Monona-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
MoC3: Monona-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MoD2: Monona-----	100	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Too steep for sprinkler application	0.02
						Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.39
MoD3: Monona-----	100	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.39
MoE2: Monona-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
MoE3: Monona-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
MoF2: Monona-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MoF3: Monona-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Too steep for sprinkler application	1.00
						Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
MoG2: Monona-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
MoG3: Monona-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
MoI3: Monona-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
MtB: Monona-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
MtC2: Monona-----	100	Not limited		Not limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
MtD2: Monona-----	100	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.39
MtE3: Monona-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
No: Nodaway-----	98	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Ns: Nodaway-----	98	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
ShD2: Shelby-----	100	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Very limited Too steep for surface application	1.00
		Slope	0.16	Slope	0.16	Too steep for sprinkler application	0.39
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
ShE2: Shelby-----	100	Somewhat limited		Somewhat limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ShF2: Shelby-----	100	Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
ShG2: Shelby-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
ShH2: Shelby-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
SoD3: Shelby-----	100	Somewhat limited		Somewhat limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	1.00
		Slope	0.16	Slope	0.16	Too steep for sprinkler application	0.39
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
SoE3: Shelby-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
SoF3: Shelby-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
SoG3: Shelby-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
SrD2: Steinauer-----	100	Somewhat limited		Somewhat limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SrE2: Steinauer-----	100	Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	1.00
		Slope	0.16	Slope	0.16	Too steep for sprinkler application	0.39
						Restricted permeability	0.22
SrF2: Steinauer-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
						Restricted permeability	0.22
SrG2: Steinauer-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
						Restricted permeability	0.22
SsD3: Steinauer-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
						Restricted permeability	0.22
SsD3: Steinauer-----	100	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Very limited Too steep for surface application	1.00

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SsE3: Steinauer-----	100	Slope	0.16	Slope	0.16	Too steep for sprinkler application	0.39
						Restricted permeability	0.22
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
SsF3: Steinauer-----	100	Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
						Restricted permeability	0.22
Zc: Zook-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
Zc: Zook-----	100					Restricted permeability	0.22
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
Zc: Zook-----	100	Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Zc: Zook-----	96	Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Zs: Zook-----	100	Leaching limitation	0.50				
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
Zy: Zook-----	96	Leaching limitation	0.50				
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60