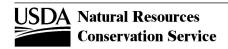
#### Madison County, Tennessee

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

Map symbol and soil name	Pct.	Septic tank absorption fields		Sewage lagoons	
	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value
Ar:					
Arents	50	Not rated		Not rated	
Urban land	50	Not rated		Not rated	
Ca:					
Calhoun	50	Very limited Slow water movement Depth to saturated	1.00	Very limited  Depth to saturated zone	1.00
Henry	50	Very limited  Depth to cemented pan  Depth to saturated zone	1.00 1.00	Very limited  Depth to cemented pan  Depth to saturated zone  Seepage	1.00 1.00 0.50
Co:					
Calloway	100	Very limited  Depth to cemented pan  Depth to saturated zone  Slow water	1.00 1.00 0.50	Very limited  Depth to cemented pan  Depth to saturated zone  Seepage	1.00 0.99 0.50
		movement			
Os:					
Collins	100	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.50
DuB:					
Dulac	100	Very limited		Very limited	
	.00	Depth to cemented	1.00	Depth to cemented	1.00
		pan Depth to saturated zone	1.00	pan Depth to saturated zone	0.99
				Seepage Slope	0.50 0.32



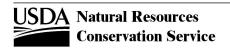
		1				
Map symbol and soil name	Pct. Septic tank absorption file		n fields Sewage lagoons		3	
	ани ѕон пате	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value
DuB3:						
Dulac		100	Very limited  Depth to cemented	1.00	Very limited  Depth to cemented	1.00
			pan Depth to saturated	1.00	pan Depth to saturated	1.00
			zone		zone Seepage	0.50 0.32
D., C2.					Slope	0.32
DuC3: Dulac		100	Very limited		Very limited	
Dulac		100	Depth to cemented pan	1.00	Depth to cemented pan	1.00
			Depth to saturated zone	1.00	Depth to saturated zone	1.00
					Slope Seepage	1.00 0.50
D. Da					Ocopago	0.00
DuD3: Dulac		100	Very limited		Very limited	
Dulac		100	Depth to cemented pan	1.00	Depth to cemented pan	1.00
			Depth to saturated zone	1.00	Slope Depth to saturated	1.00 1.00
			Slope	0.16	zone Seepage	0.50
EuE:					, 0	
Eustis		100	Very limited		Very limited	
			Seepage, bottom layer	1.00	Slope Seepage	1.00 1.00
			Slope Filtering capacity	1.00 1.00		
Fa:			<b>5</b>   7			
Falaya		91	Very limited		Very limited	
,			Flooding	1.00	Flooding	1.00
			Depth to saturated zone	1.00	Depth to saturated zone	1.00
			Slow water movement	0.82	Seepage	0.50
GrA:						
Grenada	a	100	Very limited  Depth to cemented	1.00	Very limited  Depth to cemented	1.00
			pan Depth to saturated	1.00	pan  Depth to saturated	0.96
			zone Slow water	0.50	zone Seepage	0.50
			movement			



Map symbol and soil name	Pct.	f Geptic tank absorption fields		Sewage lagoons	
	map unit	unit Rating class and	Value	Rating class and limiting features	Value
GrB:					
Grenada	100	Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	0.96
		Slow water movement	0.50	Seepage Slope	0.50 0.32
GrB3:					
Grenada	100	Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	0.99
				Seepage Slope	0.50 0.32
GrC3:				5.5	
Grenada	100	Very limited		Very limited	
Grenada	100	Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated	1.00	Slope	1.00
		zone		Depth to saturated zone	0.99
				Seepage	0.50
u:					
luka	100	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slow water movement	0.50	Seepage	1.00
∟eB:					
Lexington	100	Very limited		Very limited	
, and the second		Seepage, bottom layer	1.00	Seepage Slope	1.00 0.32
		Slow water movement	0.50	Siope	0.02
LeB3:					
Lexington	100	Very limited		Very limited	
20.3119.011	100	Seepage, bottom	1.00	Seepage	1.00
		layer Slow water	0.50	Slope	0.32
		movement			



LeC:  Lexington 100 Very limite  Seepag layer Slow w move  LeC3:  Lexington 100 Very limite Seepag layer Slow w solution Seepag layer Slow w	ge, bottom 1.00 Seepage 1.00 Slope 1.00 sater 0.50 ement Very limited ge, bottom 1.00 Seepage 1.00 Slope 1.00 slope 1.00 Slope 1.00 Very limited
Lexington  100 Very limite Seepag layer Slow w move  LeC3: Lexington  100 Very limite Seepag layer Slow w move  LeD: Lexington  100 Very limite	ge, bottom 1.00 Seepage 1.00 Slope 1.00 sater 0.50 ement Very limited ge, bottom 1.00 Seepage 1.00 Slope 1.00 slope 1.00 Slope 1.00 Very limited
Seepag layer Slow w move  LeC3: Lexington 100 Very limite Seepag layer Slow w move  LeD: Lexington 100 Very limite	ge, bottom 1.00 Seepage 1.00 Slope 1.00 sater 0.50 ement Very limited ge, bottom 1.00 Seepage 1.00 Slope 1.00 slope 1.00 Slope 1.00 Very limited
layer Slow w move  LeC3:  Lexington  100  Very limite Seepag layer Slow w move  LeD:  Lexington  100  Very limite	Slope 1.000 reter 0.50 rement  Ped Very limited ge, bottom 1.00 Seepage 1.000 Slope 1.000 reter 0.50 rement  Ped Very limited
LeC3:  Lexington  100 Very limite Seepag layer Slow w move  LeD:  Lexington  100 Very limite	ed Very limited ge, bottom 1.00 Seepage 1.00 Slope 1.00 rater 0.50 ement  ed Very limited
Lexington  100 Very limite Seepag layer Slow w move  LeD: Lexington  100 Very limite	ge, bottom 1.00 Seepage 1.00 Slope 1.00 rater 0.50 rement  Very limited
Lexington  100 Very limite Seepag layer Slow w move  LeD: Lexington  100 Very limite	ge, bottom 1.00 Seepage 1.00 Slope 1.00 rater 0.50 rement  Very limited
Seepag layer Slow w move LeD:  Lexington 100 Very limite	ge, bottom 1.00 Seepage 1.00 Slope 1.00 rater 0.50 rement  Very limited
layer Slow w move	Slope 1.000 rater 0.50 rement  ed Very limited
move LeD: Lexington 100 Very limite	ement ed Very limited
Lexington 100 Very limit	
Lexington 100 Very limit	
,	
	go, bottom 1.00 Clopo 1.00
layer	
Slow w	rater 0.50 ement
Slope	0.16
eD3:	
Lexington 100 Very limit	
Seepag layer	ge, bottom 1.00 Slope 1.00 Seepage 1.00
Slow w	- Coopageco
	ement
Slope	0.16
LeE:	
Lexington 100 Very limite	ed Very limited
Slope	1.00 Slope 1.00
	ge, bottom 1.00 Seepage 1.00
layer Slow w	
	ement
LgC:	od Vor Birelte d
Lexington 50 Very limit	ed Very limited ge, bottom 1.00 Seepage 1.00
layer	
Slow w	rater 0.50
move	ement
Urban land 50 Not rated	Not rated



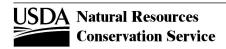
Map symbol	Pct. of	Septic tank absorption fields		Sewage lagoons	
and soil name	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value
_mE3:					
Lexington	50	Very limited Slope Seepage, bottom layer Slow water	1.00 1.00 0.50	Very limited Slope Seepage	1.00 1.00
		movement			
Smithdale	50	Very limited Slope Slow water movement	1.00 0.50	Very limited Slope Seepage	1.00 0.50
LoB:					
Loring	100	Very limited  Depth to cemented pan	1.00	Very limited  Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Slow water movement	0.50	Seepage Slope	0.50 0.32
_oB3:					
Loring	100	Very limited  Depth to cemented pan	1.00	Very limited  Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Slow water movement	0.50	Seepage Slope	0.50 0.32
.oC3:					
Loring	100	Very limited  Depth to cemented  pan	1.00	Very limited  Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Slope Depth to saturated	1.00 0.99
		Slow water movement	0.50	zone Seepage	0.50
<b>Л</b> а:					
Mantachie	100	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slow water movement	0.50	Seepage	0.50



Map symbol and soil name	of map	Septic tank absorption fields		Sewage lagoons	
	unit	Rating class and limiting features	Value	Rating class and limiting features	Value
MeA:					
Memphis	100	Somewhat limited Slow water movement	0.50	Somewhat limited Seepage	0.50
MeB:					
Memphis	100	Somewhat limited Slow water movement	0.50	Somewhat limited Seepage Slope	0.50 0.32
MeB2:					
Memphis	100	Somewhat limited Slow water movement	0.50	Somewhat limited Seepage Slope	0.50 0.32
MeC3:					
Memphis	100	Somewhat limited Slow water movement	0.50	Very limited Slope Seepage	1.00 0.50
Oc:					
Ochlockonee	100	Very limited Flooding Seepage, bottom layer Depth to saturated zone Slow water movement	1.00 1.00 0.99 0.50	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 0.71
PrB:					
Providence	100	Very limited  Depth to cemented pan  Depth to saturated zone  Slow water movement	1.00 1.00 0.50	Very limited  Depth to cemented pan  Depth to saturated zone  Seepage  Slope	1.00 0.99 0.50 0.32
PrC3:					
Providence	100	Very limited  Depth to cemented pan  Depth to saturated	1.00	Very limited  Depth to cemented pan  Slope	1.00



Map symbol and soil name	Pct.	Septic tank absorption fields		Sewage lagoons	
	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value
PrD3:				<u> </u>	
Providence	100	Very limited		Very limited	
		Depth to cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	1.00	Slope	1.00
		Slope	0.16	Depth to saturated zone	1.00
				Seepage	0.50
SmE:					
Smithdale	100	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Slow water	0.50	Seepage	1.00
		movement			
SmF:					
Smithdale	100	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Slow water	0.50	Seepage	1.00
		movement			
SwD:					
Sweatman	100	Very limited		Very limited	
		Slow water	1.00	Slope	1.00
		movement			
		Slope	0.04		
SwE:					
Sweatman	100	Very limited		Very limited	
		Slow water	1.00	Slope	1.00
		movement			
		Slope	1.00		
/k:					
Vicksburg	100	Somewhat limited		Somewhat limited	
		Depth to saturated	0.97	Depth to saturated	0.52
		zone	0.50	zone	0.50
		Slow water movement	0.50	Seepage	0.50
		Flooding	0.40	Flooding	0.40
Wa:		-			
Waverly	100	Very limited		Very limited	
	100	Flooding	1.00	Flooding	1.00
		Depth to saturated	1.00	Depth to saturated	1.00
		zone		zone	
		Slow water	0.50	Seepage	0.50
		movement			



Map symbol and soil name	Pct.	Septic tank absorption	n fields Sewage lage		oons	
	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value	
Wf:					•	
Waverly	100	Very limited		Very limited		
		Flooding	1.00	Ponding	1.00	
		Ponding	1.00	Flooding	1.00	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	
		Slow water movement	0.50	Seepage	0.50	

This table shows the degree and kind of soil limitations that affect septic tank absorption fields and sewage lagoons. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

"Septic tank absorption fields" are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 72 inches or between a depth of 24 inches and a restrictive layer is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

"Sewage lagoons" are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons should have a nearly level floor surrounded by cut slopes or embankments of compacted soil. Nearly impervious soil material for the lagoon floor and sides is required to minimize seepage and contamination of ground water. Considered in the ratings are slope, saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a cemented pan, flooding, large stones, and content of organic matter.

Saturated hydraulic conductivity (Ksat) is a critical property affecting the suitability for sewage lagoons. Most porous soils eventually become sealed when they are used as sites for sewage lagoons. Until sealing occurs, however, the hazard of pollution is severe. Soils that have a Ksat rate of more than 14 micrometers per second are too porous for the proper functioning of sewage lagoons. In these soils, seepage of the effluent can result in contamination of the ground water. Ground-water contamination is also a hazard if fractured bedrock is within a depth of 40 inches, if the water table is high enough to raise the level of sewage in the lagoon, or if floodwater overtops the lagoon.

A high content of organic matter is detrimental to proper functioning of the lagoon because it inhibits aerobic activity. Slope, bedrock, and cemented pans can cause construction problems, and large stones can hinder compaction of the lagoon floor. If the lagoon is to be uniformly deep throughout, the slope must be gentle enough and the soil material must be thick enough over bedrock or a cemented pan to make land smoothing practical.

Information in this table is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this table. Local ordinances and regulations should be considered in planning, in site selection, and in design.

