

Forestland Planting and Harvesting

Upshur and Gregg Counties, Texas

[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 0.01 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. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BeB:							
Bienville	80	Well suited		Well suited		Well suited	
BoC:							
Bowie	80	Well suited		Well suited		Moderately suited Low strength	0.5
BuC:							
Bowie	60	Well suited		Well suited		Well suited	
Urban land	25	Not rated		Not rated		Not rated	
ByC:							
Briley	85	Well suited		Well suited		Well suited	
CbE:							
Cuthbert	80	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Stickiness; high plasticity index Slope	0.5 0.5	Well suited	
CcE:							
Cuthbert	60	Moderately suited Stickiness; high plasticity index	0.5	Poorly suited Slope Stickiness; high plasticity index	0.75 0.5	Well suited	
Urban land	25	Not rated		Not rated		Not rated	
CrF:							
Cuthbert	50	Well suited		Unsuited Slope Rock fragments	1 0.5	Moderately suited Slope	0.5
Redsprings	40	Moderately suited Stickiness; high plasticity index	0.5	Poorly suited Slope Stickiness; high plasticity index	0.75 0.5	Moderately suited Low strength Slope	0.5 0.5
DaC:							
Darco	80	Well suited		Well suited		Well suited	

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DaE:							
Darco	80	Well suited		Moderately suited Slope	0.5	Well suited	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
ErC:							
Elrose	85	Well suited		Well suited		Well suited	
Iu:							
Iuka	80	Well suited		Well suited		Well suited	
KfC:							
Kirvin	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength	0.5
KgC:							
Kirvin	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.5 0.5	Well suited	
KrC:							
Kirvin	55	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Well suited	
Urban land	25	Not rated		Not rated		Not rated	
KsC:							
Kirvin	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.5 0.5	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
KtB:							
Kullit	90	Well suited		Well suited		Moderately suited Low strength	0.5
KuB:							
Kullit	65	Well suited		Well suited		Moderately suited Low strength	0.5

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KuB:							
Urban land	25	Not rated		Not rated		Not rated	
LaA:							
Latch	50	Well suited		Well suited		Well suited	
Mollville	35	Well suited		Well suited		Moderately suited Low strength	0.5
LbC:							
Lilbert	80	Well suited		Well suited		Well suited	
LuC:							
Lilbert	65	Well suited		Well suited		Well suited	
Urban land	25	Not rated		Not rated		Not rated	
Ma:							
Mantachie	85	Well suited		Well suited		Well suited	
MoA:							
Mollville	85	Well suited		Well suited		Moderately suited Low strength	0.5
Ow:							
Oil wasteland	85	Not rated		Not rated		Not rated	
ReB:							
Rentzel	80	Well suited		Well suited		Well suited	
RuC:							
Ruston, AFFR 30-42	80	Well suited		Well suited		Moderately suited Low strength	0.5
SaC:							
Sacul, AFFR 25-30	85	Well suited		Well suited		Well suited	
SaD:							
Sacul, AFFR 25-30	80	Well suited		Moderately suited Slope	0.5	Well suited	
SuC:							
Sacul, AFFR 25-30	65	Well suited		Moderately suited Slope	0.5	Well suited	
Urban land	25	Not rated		Not rated		Not rated	

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TeE:							
Tenaha	85	Well suited		Moderately suited Slope	0.5	Well suited	
TrC:							
Trep	80	Well suited		Moderately suited Slope	0.5	Well suited	
Ud:							
Udorthents	90	Well suited		Well suited		Well suited	
Ur:							
Estes	85	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Low strength	0.5
W:							
Water	100	Not rated		Not rated		Not rated	
WrA:							
Wrightsville	60	Well suited		Well suited		Moderately suited Low strength	0.5
Raino	30	Well suited		Well suited		Moderately suited Low strength	0.5

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This table can help forest owners or managers plan the use of soils for wood crops. Interpretive ratings are given for the soils according to the limitations that affect various aspects of forest management. The ratings are both verbal and numerical.

Some rating class terms indicate the degree to which the soils are suited to a specified forest management practice. Well suited indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. Moderately suited indicates that the soil has features that are moderately favorable for the specified practice. One or more soil properties are less than desirable and fair performance can be expected. Some maintenance is needed. Poorly suited indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. Unsuitable indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

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 specified forest management practice (1.00) and the point at which the soil feature is not a limitation (0.00).

The paragraphs that follow indicate the soil properties considered in rating the soils for forest management practices. More detailed information about the criteria used in the ratings is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

Ratings in the columns suitability for hand planting and suitability for mechanical planting are based on slope, depth to a restrictive layer, content of sand, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, moderately suited, poorly suited, or unsuitable to these methods of planting. It is assumed that necessary site preparation is completed before seedlings are planted.

Ratings in the column suitability for use of harvesting equipment are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, and ponding. The soils are described as well suited, moderately suited, or poorly suited to this use.