

Forestland Planting and Harvesting

Bowie County, 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
1:							
Adaton	70	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Low strength	0.5
Muskogee	20	Well suited		Well suited		Moderately suited Low strength	0.5
2:							
Alusa	75	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength	0.5
3:							
Amy	75	Well suited		Well suited		Moderately suited Low strength	0.5
4:							
Annona	85	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength	0.5
5:							
Ashford	90	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
6:							
Billyhaw	85	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
7:							
Billyhaw	90	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
8:							
Blevins	80	Well suited		Well suited		Well suited	

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9:							
Bryarly, AFFR 25-30	90	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength	0.5
10:							
Dardanelle	85	Well suited		Well suited		Moderately suited Low strength	0.5
11:							
Darden	80	Well suited		Moderately suited Slope	0.5	Well suited	
12:							
Darden	80	Well suited		Moderately suited Slope	0.5	Well suited	
13:							
Eylau	80	Well suited		Well suited		Well suited	
14:							
Eylau	60	Well suited		Well suited		Well suited	
Urban land	30	Not rated		Not rated		Not rated	
15:							
Ferris	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.5	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
16:							
Gladewater	90	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
17:							
Kiomatia	75	Well suited		Well suited		Well suited	
18:							
McKamie, AFFR 25-30	80	Well suited		Well suited		Moderately suited Low strength	0.5

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19:							
McKamie, AFFR 25-30	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.5	Moderately suited Low strength	0.5
20:							
Morse	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.5	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
21:							
Muldrow	80	Well suited		Well suited		Moderately suited Low strength	0.5
22:							
Perry	90	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
23:							
Redlake	90	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Low strength	0.5
24:							
Roebuck	75	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Stickiness; high plasticity index	0.5	Moderately suited Low strength	0.5
25:							
Rosalie, AFFR 25-30	80	Moderately suited Sandiness	0.5	Moderately suited Sandiness	0.5	Moderately suited Sandiness	0.5
26:							
Ruston, AFFR 25-30	80	Well suited		Well suited		Well suited	
27:							
Ruston, AFFR 25-30	80	Well suited		Well suited		Moderately suited Low strength	0.5
28:							
Ruston, AFFR 25-30	85	Well suited		Moderately suited Slope	0.5	Well suited	

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29:							
Ruston, AFFR 25-30	45	Well suited		Well suited		Moderately suited Low strength	0.5
Urban land	40	Not rated		Not rated		Not rated	
30:							
Sacul, AFFR 25-30	85	Well suited		Moderately suited Slope	0.5	Well suited	
31:							
Sacul, AFFR 25-30	75	Well suited		Moderately suited Slope	0.5	Well suited	
32:							
Sacul, AFFR 25-30	55	Well suited		Moderately suited Slope	0.5	Well suited	
Urban land	30	Not rated		Not rated		Not rated	
33:							
Saffell	85	Well suited		Moderately suited Slope	0.5	Moderately suited Low strength	0.5
34:							
Saffell	45	Well suited		Moderately suited Slope	0.5	Moderately suited Low strength	0.5
Urban land	35	Not rated		Not rated		Not rated	
35:							
Sardis, AFFR 25-30	70	Well suited		Well suited		Moderately suited Low strength	0.5
36:							
Sawyer, AFFR 25-30	80	Well suited		Well suited		Moderately suited Low strength	0.5
37:							
Sawyer, AFFR 25-30	60	Well suited		Well suited		Moderately suited Low strength	0.5
Urban land	30	Not rated		Not rated		Not rated	

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38:							
Severn	80	Well suited		Well suited		Moderately suited Low strength	0.5
39:							
Severn	80	Well suited		Well suited		Moderately suited Low strength	0.5
40:							
Smithdale, AFFR 25-30	70	Well suited		Moderately suited Slope	0.5	Well suited	
41:							
Texark	90	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength Stickiness; high plasticity index	0.5 0.5
42:							
Thenas	80	Well suited		Well suited		Moderately suited Low strength	0.5
43:							
Udorthents	90	Well suited		Well suited		Moderately suited Low strength	0.5
44:							
Vesey	85	Well suited		Well suited		Well suited	
45:							
Woodtell	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Well suited	
46:							
Woodtell	85	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.5	Moderately suited Low strength	0.5
47:							
Woodtell	85	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.5	Moderately suited Low strength	0.5

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48:							
Wrightsville, AFFR 30-42	75	Well suited		Well suited		Moderately suited Low strength	0.5
Rodessa	15	Well suited		Well suited		Moderately suited Low strength	0.5
DAM:							
Dams	100	Not rated		Not rated		Not rated	
LF:							
Landfill	100	Not rated		Not rated		Not rated	
M-W:							
Miscellaneous water	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

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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.