

# Forestland Productivity

Bowie County, Texas

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
<i>Cu ft/ac</i>				
<b>1:</b>				
Adaton	Loblolly pine	80	114	Loblolly pine, Shumard's oak, Sweetgum
	Sweetgum	80	86	
	Water oak	80	72	
Muskogee	Loblolly pine	---	0	Loblolly pine, Shortleaf pine, Sweetgum, Water oak
	Shortleaf pine	70	114	
	Southern red oak	---	0	
	Sweetgum	80	86	
	Water oak	---	0	
<b>2:</b>				
Alusa	Loblolly pine	80	114	Loblolly pine
	Sweetgum	---	0	
	Water oak	---	0	
<b>3:</b>				
Amy	Loblolly pine	93	143	Eastern cottonwood, Loblolly pine, Nuttall oak, Shortleaf pine, Sweetgum
	Sweetgum	90	100	
	Water oak	90	86	
<b>4:</b>				
Annona	Loblolly pine	78	114	Loblolly pine
	Shortleaf pine	70	114	
<b>5:</b>				
Ashford	Green ash	---	0	Green ash, Green ash
	Post oak	---	0	
	Southern red oak	---	0	
	Water oak	70	57	
	Willow oak	---	0	
<b>6:</b>				
Billyhaw	Cherrybark oak	90	114	Eastern cottonwood, Green ash, Water oak
	Eastern cottonwood	100	129	
	Green ash	85	57	
	Water oak	90	86	
	Willow oak	90	86	
<b>7:</b>				
Billyhaw	Cherrybark oak	90	114	Eastern cottonwood, Green ash, Water oak
	Eastern cottonwood	100	129	
	Green ash	85	57	
	Water oak	90	86	
	Willow oak	90	86	

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8:				
Blevins	Loblolly pine	90	129	Loblolly pine, Shortleaf pine, Sweetgum
	Shortleaf pine	80	129	
	Southern red oak	---	0	
	Sweetgum	90	100	
	White oak	---	0	
9:				
Bryarly, AFFR 25-30	Loblolly pine	60	72	Loblolly pine, Slash pine
	Shortleaf pine	50	72	
	Southern red oak	50	29	
	Sweetgum	50	57	
10:				
Dardanelle	Cherrybark oak	100	143	Black walnut, Cherrybark oak, Eastern cottonwood, Loblolly pine, Shortleaf pine
	Eastern cottonwood	105	143	
	Sweetgum	100	143	
11:				
Darden	Loblolly pine	80	114	Loblolly pine, Slash pine
	Shortleaf pine	70	114	
12:				
Darden	Loblolly pine	80	114	Loblolly pine, Slash pine
	Shortleaf pine	70	114	
13:				
Eylau	Loblolly pine	73	100	Loblolly pine, Slash pine
	Shortleaf pine	71	114	
	Slash pine	77	143	
	Southern red oak	---	0	
14:				
Eylau	Loblolly pine	73	100	Loblolly pine, Slash pine
	Shortleaf pine	71	114	
	Slash pine	77	143	
	Southern red oak	---	0	
Urban land	---	---	---	---
15:				
Ferris	---	---	---	---

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16:				
Gladewater	Water oak	85	86	Water oak
	Willow oak	85	86	
17:				
Kiomatia	Eastern cottonwood	100	129	American sycamore, Black walnut, Eastern cottonwood, Sweetgum
	Sweetgum	95	114	
18:				
McKamie, AFFR 25-30	Loblolly pine	80	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	70	114	
19:				
McKamie, AFFR 25-30	Loblolly pine	80	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	70	114	
20:				
Morse	Eastern redcedar	60	57	Eastern redcedar, Sweetgum
	Loblolly pine	65	86	
	Sweetgum	---	0	
21:				
Muldrow	Common hackberry	---	0	Green ash, Green ash, Green ash, Green ash
	Green ash	90	57	
	Pecan	80	0	
	Water oak	---	0	
	Willow oak	---	0	
22:				
Perry	Green ash	75	43	Green ash, Nuttall oak
	Honeylocust	---	0	
	Nuttall oak	---	0	
	Sugarberry	---	0	
	Sweetgum	92	114	
	Water oak	---	0	
23:				
Redlake	Black walnut	---	0	Black walnut, Black walnut, Black walnut, Black walnut
	Eastern cottonwood	90	0	
	Green ash	---	0	
	Pecan	---	0	

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24:				
Roebuck	Eastern cottonwood	90	100	Bur oak, Eastern cottonwood, Green ash, Pecan
	Green ash	---	0	
	Pecan	---	0	
25:				
Rosalie, AFFR 25-30	Loblolly pine	80	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	70	114	
26:				
Ruston, AFFR 25-30	Hickory	---	0	Loblolly pine
	Loblolly pine	84	114	
	Post oak	---	0	
	Shortleaf pine	75	114	
	Southern red oak	---	0	
	Sweetgum	---	0	
27:				
Ruston, AFFR 25-30	Hickory	---	0	Loblolly pine
	Loblolly pine	84	114	
	Post oak	---	0	
	Shortleaf pine	75	114	
	Southern red oak	---	0	
	Sweetgum	---	0	
28:				
Ruston, AFFR 25-30	Hickory	---	0	Loblolly pine
	Loblolly pine	84	114	
	Post oak	---	0	
	Shortleaf pine	75	114	
	Southern red oak	---	0	
	Sweetgum	---	0	
29:				
Ruston, AFFR 25-30	Hickory	---	0	Loblolly pine
	Loblolly pine	84	114	
	Post oak	---	0	
	Shortleaf pine	75	114	
	Southern red oak	---	0	
	Sweetgum	---	0	
Urban land	---	---	---	---

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Map symbol and soil name	Potential productivity			Trees to manage
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<i>Cu ft/ac</i>				
<b>30:</b>				
Sacul, AFFR 25-30	Loblolly pine	84	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	74	114	
<b>31:</b>				
Sacul, AFFR 25-30	Loblolly pine	84	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	74	114	
<b>32:</b>				
Sacul, AFFR 25-30	Loblolly pine	84	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	74	114	
Urban land	---	---	---	---
<b>33:</b>				
Saffell	Loblolly pine	68	86	Loblolly pine, Shortleaf pine
	Shortleaf pine	60	86	
	White oak	---	0	
<b>34:</b>				
Saffell	---	---	---	---
Urban land	---	---	---	---
<b>35:</b>				
Sardis, AFFR 25-30	Cherrybark oak	95	129	Cherrybark oak, Loblolly pine, Shortleaf pine, Sweetgum
	Loblolly pine	96	143	
	Sweetgum	100	143	
	Water oak	96	100	
<b>36:</b>				
Sawyer, AFFR 25-30	Loblolly pine	85	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	75	114	
<b>37:</b>				
Sawyer, AFFR 25-30	Loblolly pine	85	114	Loblolly pine, Shortleaf pine
	Shortleaf pine	75	114	
Urban land	---	---	---	---
<b>38:</b>				
Severn	Common hackberry	76	0	American sycamore, Black walnut, Eastern cottonwood, Pecan
	Eastern cottonwood	100	129	
	Pecan	76	0	

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<i>Cu ft/ac</i>				
<b>39:</b>				
Severn	Common hackberry	76	0	American sycamore, Black walnut, Eastern cottonwood, Pecan
	Eastern cottonwood	100	129	
	Pecan	76	0	
<b>40:</b>				
Smithdale, AFFR 25-30	Loblolly pine	80	114	Loblolly pine
	Shortleaf pine	69	114	
<b>41:</b>				
Texark	Common hackberry	---	0	Green ash, Green ash
	Green ash	82	57	
	Sweetgum	---	0	
	Water oak	---	0	
<b>42:</b>				
Thenas	Blackgum	---	0	American sycamore, Black walnut, Eastern cottonwood, Loblolly pine, Pecan, Slash pine, Southern red oak, Sweetgum
	Loblolly pine	110	172	
	Southern red oak	---	0	
	Sweetgum	100	143	
	White oak	---	0	
<b>43:</b>				
Udorthents	---	---	---	---
<b>44:</b>				
Vesey	Loblolly pine	80	114	Loblolly pine, Shortleaf pine, Slash pine, Sweetgum
	Shortleaf pine	70	114	
	Southern red oak	70	57	
	Sweetgum	70	57	
<b>45:</b>				
Woodtell	Loblolly pine	80	114	Loblolly pine
	Shortleaf pine	70	114	
<b>46:</b>				
Woodtell	Loblolly pine	78	114	Loblolly pine
	Shortleaf pine	70	114	
<b>47:</b>				
Woodtell	Loblolly pine	78	114	Loblolly pine
	Shortleaf pine	70	114	

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48:				
Wrightsville, AFFR 30-42	Sweetgum	70	57	Loblolly pine, Shortleaf pine, Sweetgum, Water oak, Willow oak
	Water oak	70	57	
Rodessa	Loblolly pine	80	114	Loblolly pine, Shortleaf pine, Slash pine, Sweetgum, Water oak
	Shortleaf pine	70	114	
	Southern red oak	70	57	
	Water oak	80	72	
DAM:				
Dams	---	---	---	---
LF:				
Landfill	---	---	---	---
M-W:				
Miscellaneous water	---	---	---	---
W:				
Water	---	---	---	---

## Forestland Productivity

This table can help forest owners or managers plan the use of soils for wood crops. It shows the potential productivity of the soils for wood crops.

Potential productivity of merchantable or common trees on a soil is expressed as a site index and as a volume number. The site index is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even-aged, unmanaged stands. Commonly grown trees are those that forest managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability. More detailed information regarding site index is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

The volume of wood fiber, a number, is the yield likely to be produced by the most important tree species. This number, expressed as cubic feet per acre per year and calculated at the age of culmination of the mean annual increment (CMAI), indicates the amount of fiber produced in a fully stocked, even-aged, unmanaged stand.

Trees to manage are those that are preferred for planting, seeding, or natural regeneration and those that remain in the stand after thinning or partial harvest.

### Reference:

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual.  
(<http://soils.usda.gov/technical/nfhandbook/>)