

Forestland Productivity

This table can help forestland 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 forestland 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](#).

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Forestland Productivity—Bibb County, Alabama				
Map unit symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site Index	Volume of wood fiber	
			<i>Cu ft/ac</i>	
BdA—Bibb-luka complex, 0 to 1 percent slopes, frequently flooded				
Bibb	Loblolly pine	100	157.00	Eastern cottonwood, Loblolly pine, Sweetgum, Yellow poplar
	Sweetgum	90	100.00	
	Water oak	90	86.00	
	Yellow poplar	90	0.00	
luka	Eastern cottonwood	105	143.00	Eastern cottonwood, Loblolly pine, Yellow poplar
	Loblolly pine	100	129.00	
	Sweetgum	100	143.00	
	Water oak	100	100.00	

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Map unit symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site Index	Volume of wood fiber	
			<i>Cu ft/ac</i>	
MkC2—Maubila flaggy loam, 2 to 8 percent slopes, eroded				
Maubila	Loblolly pine	75	114.00	Loblolly pine, Longleaf pine
	Longleaf pine	60	86.00	
	Shortleaf pine	65	114.00	
MsD—Maubila-Smithdale-Boykin complex, 5 to 20 percent slopes				
Maubila	Loblolly pine	85	114.00	Loblolly pine, Longleaf pine
	Longleaf pine	70	86.00	
	Shortleaf pine	70	114.00	
Smithdale	Loblolly pine	86	129.00	Loblolly pine, Longleaf pine
	Longleaf pine	69	72.00	
Boykin	Loblolly pine	85	129.00	Loblolly pine, Longleaf pine
	Longleaf pine	75	100.00	
	Shortleaf pine	75	129.00	
	Slash pine	85	0.00	
MsF—Maubila-Smithdale complex, 15 to 35 percent slopes				
Maubila	Loblolly pine	85	114.00	Loblolly pine, Longleaf pine
	Longleaf pine	70	86.00	
	Shortleaf pine	70	114.00	
Smithdale	Loblolly pine	85	129.00	Loblolly pine, Longleaf pine
	Longleaf pine	70	72.00	
SmC—Smithdale sandy loam, 2 to 8 percent slopes				
Smithdale	Loblolly pine	85	129.00	Loblolly pine, Longleaf pine
	Longleaf pine	70	72.00	

Data Source Information

Soil Survey Area: Bibb County, Alabama
 Survey Area Data: Version 7, Dec 19, 2013