

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—Livingston County, Michigan				
Map unit symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site Index	Volume of wood fiber	
			<i>Cu ft/ac</i>	
FoA—Fox sandy loam, 0 to 2 percent slopes				
Fox	Black cherry	—	—	Black walnut, Eastern white pine, Yellow poplar
	Black walnut	—	—	
	Northern red oak	65	57.00	
	Sugar maple	—	0.00	
	White ash	—	—	
	White oak	—	0.00	

Forestland Productivity--Livingston County, Michigan				
Map unit symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site Index	Volume of wood fiber	
			<i>Cu ft/ac</i>	
HmB—Hillsdale-Miami loams, 2 to 6 percent slopes				
Hillsdale	American basswood	—	0.00	Norway spruce, White spruce
	Black cherry	—	0.00	
	Black walnut	—	—	
	Northern red oak	66	57.00	
	Sugar maple	—	0.00	
	Tuliptree	—	0.00	
	White ash	—	0.00	
	White oak	—	—	
	Yellow poplar	—	—	
Miami	American beech	—	0.00	Black walnut, Eastern white pine, Yellow poplar
	Black cherry	—	—	
	Black walnut	—	—	
	Northern red oak	69	57.00	
	Sugar maple	—	0.00	
	White ash	—	0.00	
	White oak	—	0.00	
MoC—Miami loam, 6 to 12 percent slopes				
Miami	Black cherry	—	—	Black walnut, Eastern white pine, Yellow poplar
	Black walnut	—	—	
	Northern red oak	65	57.00	
	Sugar maple	—	0.00	
	White ash	—	—	
	White oak	—	0.00	
MoF—Miami loam, 25 to 35 percent slopes				
Miami	Black cherry	—	—	Black walnut, Eastern white pine, Yellow poplar
	Black walnut	—	—	
	Northern red oak	65	57.00	
	Sugar maple	—	0.00	
	White ash	—	—	
	White oak	—	0.00	
W—Water				
Water	—	—	—	—

Forestland Productivity--Oakland County, Michigan				
Map unit symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site Index	Volume of wood fiber	
			<i>Cu ft/ac</i>	
10B—Marlette sandy loam, 1 to 6 percent slopes				
Marlette	American basswood	—	0.00	Black walnut, Eastern white pine, Red pine, White spruce
	Black cherry	—	0.00	
	Black oak	—	0.00	
	Black walnut	—	0.00	
	Northern red oak	69	57.00	
	Sugar maple	65	43.00	
	White ash	—	0.00	
	White oak	—	0.00	
10C—Marlette sandy loam, 6 to 12 percent slopes				
Marlette	American basswood	—	0.00	Black walnut, Eastern white pine, Red pine, White spruce
	Black cherry	—	0.00	
	Black oak	—	0.00	
	Black walnut	—	0.00	
	Northern red oak	69	57.00	
	Sugar maple	65	43.00	
	White ash	—	0.00	
	White oak	—	0.00	
10D—Marlette loam, 12 to 18 percent slopes				
Marlette	American basswood	—	0.00	Black walnut, Eastern white pine, Red pine, White spruce
	Black cherry	—	0.00	
	Black oak	—	0.00	
	Black walnut	—	0.00	
	Northern red oak	69	57.00	
	Sugar maple	65	43.00	
	White ash	—	0.00	
	White oak	—	0.00	

Forestland Productivity--Oakland County, Michigan				
Map unit symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site Index	Volume of wood fiber	
			<i>Cu ft/ac</i>	
13B—Oshtemo-Boyer loamy sands, 0 to 6 percent slopes				
Oshtemo	American basswood	66	57.00	Eastern white pine, Red pine, White spruce
	Northern red oak	66	57.00	
	Sugar maple	61	43.00	
	White oak	—	0.00	
Boyer	American basswood	—	0.00	Eastern white pine, Northern red oak, Red pine, White oak
	Black oak	—	0.00	
	Northern red oak	66	57.00	
	Sugar maple	—	0.00	
	White oak	—	0.00	
15B—Spinks loamy sand, 0 to 6 percent slopes				
Spinks	Black cherry	—	0.00	Eastern white pine, Imperial carolina poplar, Red pine
	Black oak	—	0.00	
	Northern red oak	66	57.00	
	White oak	—	0.00	
17A—Wasepi sandy loam, 0 to 3 percent slopes				
Wasepi	Paper birch	—	0.00	Eastern white pine, White spruce
	Quaking aspen	60	57.00	
	Red maple	—	0.00	
	Silver maple	—	0.00	
18B—Fox sandy loam, 1 to 6 percent slopes				
Fox	Northern red oak	65	57.00	Eastern white pine, Norway spruce, White spruce
	Sugar maple	—	0.00	
	White oak	—	0.00	
19—Sebewa loam				
Sebewa	American basswood	—	0.00	Eastern white pine, White ash, White spruce
	Northern red oak	—	0.00	
	Red maple	69	43.00	
	Swamp white oak	—	0.00	
	White ash	69	57.00	
W—Water				
Water	—	—	—	—

Data Source Information

Soil Survey Area: Livingston County, Michigan

Survey Area Data: Version 9, Dec 14, 2009

Soil Survey Area: Oakland County, Michigan

Survey Area Data: Version 9, Sep 27, 2012