

Forestland Productivity

Steuben County, Indiana

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
Cu ft/ac				
BoB:				
Boyer	Eastern white pine	65	143	Black cherry, Black oak, Blackgum, Bur oak, Chinkapin oak, Eastern white pine, Northern red oak, Pignut hickory, Red pine, Scarlet oak, Shagbark hickory, Shingle oak, Sugar maple, Tuliptree, White oak
	Northern red oak	75	57	
	White oak	70	57	
Ormas	White oak	70	57	Black cherry, Black oak, Blackgum, Bur oak, Chinkapin oak, Eastern white pine, Northern red oak, Pignut hickory, Red pine, Scarlet oak, Shagbark hickory, Shingle oak, Sugar maple, Tuliptree, White oak
Riverdale	---	---	---	---
BoC:				
Boyer	Eastern white pine	65	143	Black cherry, Black oak, Blackgum, Bur oak, Chinkapin oak, Eastern white pine, Northern red oak, Pignut hickory, Red pine, Scarlet oak, Shagbark hickory, Shingle oak, Sugar maple, Tuliptree, White oak
	Northern red oak	75	57	
	White oak	70	57	
Ormas	White oak	70	57	Black cherry, Black oak, Blackgum, Bur oak, Chinkapin oak, Eastern white pine, Northern red oak, Pignut hickory, Red pine, Scarlet oak, Shagbark hickory, Shingle oak, Sugar maple, Tuliptree, White oak
Martinsville	---	---	---	---
Rawson	---	---	---	---
Bz:				
Brookston	Pin oak	86	72	American sycamore, Blackgum, Bur oak, Northern white-cedar, Pin oak, Red maple, River birch, Shellbark hickory, Shumard's oak, Silver maple, Swamp white oak, Tamarack
CaC:				
Casco	Eastern white pine	85	172	Black cherry, Bur oak, Chinkapin oak, Common hackberry, Eastern redcedar, Northern white-cedar, Red maple
	Jack pine	68	100	
	Red pine	78	114	

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CaD2:				
Casco	Eastern white pine	85	172	Black cherry, Bur oak, Chinkapin oak, Common hackberry, Eastern redcedar, Northern white-cedar, Red maple
	Jack pine	68	100	
	Red pine	78	114	
Co:				
Cohoctah	Green ash	70	72	American sycamore, Blackgum, Bur oak, Northern white-cedar, Pin oak, Red maple, River birch, Shellbark hickory, Shumard's oak, Silver maple, Swamp white oak, Tamarack
	Red maple	72	43	
	Silver maple	95	43	
CrA:				
Crosier	Northern red oak	75	57	American beech, Bitternut hickory, Bur oak, Eastern white pine, Kentucky coffeedtree, Northern red oak, Northern white-cedar, Norway spruce, Pin oak, Shingle oak, Shumard's oak, Silver maple, Sugar maple, Swamp white oak, Tuliptree, White oak
	Tuliptree	85	86	
	White oak	75	57	
Miami	---	---	---	---
Brookston	---	---	---	Blackgum, Bur oak, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
Ed:				
Edwards, drained	Red maple	51	29	American sycamore, Bur oak, Eastern cottonwood, Northern white-cedar, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
	Silver maple	76	29	
Ht:				
Houghton, undrained	---	---	---	---
Palms, undrained	---	---	---	---
Muskego, undrained	---	---	---	---
Hw:				
Houghton, drained	Red maple	56	29	American sycamore, Bur oak, Eastern cottonwood, Northern white-cedar, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
	Silver maple	82	29	

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Hw:				
Adrian, drained	Green ash	69	57	American sycamore, Bur oak, Eastern cottonwood, Northern white-cedar, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
	Quaking aspen	60	57	
	Red maple	53	29	
	Silver maple	78	29	
	Tamarack	45	29	
	White ash	69	57	
Edwards, drained	Red maple	56	29	American sycamore, Bur oak, Eastern cottonwood, Northern white-cedar, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
Muskego, drained	Quaking aspen	56	57	American sycamore, Bur oak, Eastern cottonwood, Northern white-cedar, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
	Red maple	51	29	
	White ash	52	29	
Palms, drained	Quaking aspen	56	57	American sycamore, Bur oak, Eastern cottonwood, Northern white-cedar, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
	Red maple	51	29	
	Silver maple	76	29	
	White ash	51	29	
KoB:				
Kosciusko	Eastern white pine	70	143	Black oak, Blackgum, Bur oak, Eastern white pine, Red pine, Scarlet oak, Shingle oak, White oak
	Northern red oak	78	57	
	White oak	76	57	
KsC:				
Kosciusko	Eastern white pine	70	143	Black oak, Blackgum, Bur oak, Eastern white pine, Red pine, Scarlet oak, Shingle oak, White oak
	Northern red oak	78	57	
	White oak	76	57	
Mc:				
Martisco, undrained	---	---	---	---

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	Common trees	Site index	Volume of wood fiber	
			<i>Cu ft/ac</i>	
MhB:				
Miami	American basswood	---	0	American beech, Austrian pine, Black cherry, Black oak, Black walnut, Bur oak, Chinkapin oak, Eastern white pine, Kentucky coffeetree, Northern red oak, Norway spruce, Pignut hickory, Red pine, Shagbark hickory, Shumard's oak, Sugar maple, Tuliptree, White ash, White oak, White spruce, Yellow poplar
	American beech	---	0	
	Black cherry	---	0	
	Black walnut	---	0	
	Northern red oak	68	42.8	
	Sugar maple	---	0	
	Tuliptree	98	100	
	White ash	---	0	
	White oak	90	20.6	
	Yellow poplar	---	0	
Crosier	---	---	---	---
Brookston	---	---	---	---
MhC:				
Miami	American basswood	---	0	American beech, Austrian pine, Black cherry, Black oak, Black walnut, Bur oak, Chinkapin oak, Eastern white pine, Kentucky coffeetree, Northern red oak, Norway spruce, Pignut hickory, Red pine, Shagbark hickory, Shumard's oak, Sugar maple, Tuliptree, White ash, White oak, White spruce, Yellow poplar
	American beech	---	0	
	Black cherry	---	0	
	Black walnut	---	0	
	Northern red oak	67	40	
	Sugar maple	---	0	
	Tuliptree	98	100	
	White ash	---	0	
	White oak	90	24	
	Yellow poplar	---	0	
Crosier	---	---	---	---
Brookston	---	---	---	---
MkC3:				
Miami, severely eroded	Tuliptree	98	100	American beech, Black cherry, Black oak, Black walnut, Bur oak, Chinkapin oak, Eastern white pine, Kentucky coffeetree, Northern red oak, Norway spruce, Pecan, Pignut hickory, Shagbark hickory, Shumard's oak, Sugar maple, Tuliptree, White oak
	White oak	90	72	
Crosby	Northern red oak	75	57	American sycamore, Black oak, Eastern white pine, Green ash, Northern red oak, Red maple, River birch, Tuliptree, White ash, White oak
	Pin oak	85	72	
	Tuliptree	85	86	
	White oak	75	57	

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	Common trees	Site index	Volume of wood fiber	
Cu ft/ac				
Mm:				
Millgrove	Pin oak	86	72	American sycamore, Blackgum, Bur oak, Northern white-cedar, Pin oak, Red maple, River birch, Shellbark hickory, Shumard's oak, Silver maple, Swamp white oak, Tamarack
	Swamp white oak	85	72	
Pa:				
Palms, drained	Red maple	51	29	American sycamore, Bur oak, Eastern cottonwood, Northern white-cedar, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
	Silver maple	76	29	
Ry:				
Riverdale	---	---	---	American beech, Bitternut hickory, Bur oak, Eastern white pine, Kentucky coffeetree, Northern red oak, Northern white-cedar, Norway spruce, Pin oak, Shingle oak, Shumard's oak, Silver maple, Sugar maple, Swamp white oak, Tuliptree, White oak
Brems	---	---	---	---
Cohoctah	---	---	---	Blackgum, Bur oak, Pin oak, Red maple, Shellbark hickory, Silver maple, Swamp white oak, Tamarack
Sh:				
Shoals	---	---	---	---
Sloan	---	---	---	---
Eel	---	---	---	---
Ud:				
Udorthents	---	---	---	---
W:				
Water	---	---	---	---

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.
(<http://soils.usda.gov/technical/nfhandbook/>)