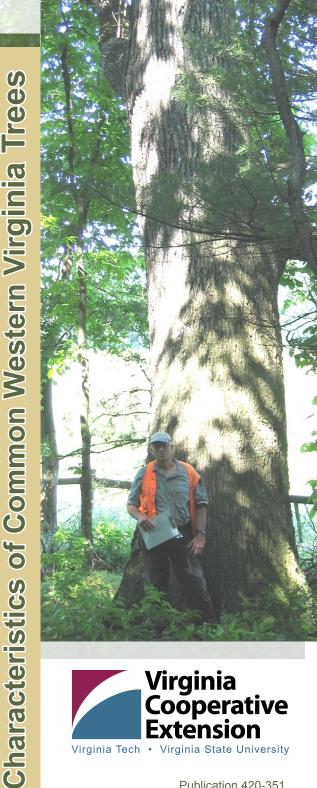
Common name	Scientific name	Shade tolerance T: tolerant I: intermediate NT: not tolerant	Years to seed maturity	Other regeneration method(s)	Growth rate F: fast I: intermediate S: slow	Life span³ S: short I: intermediate L: long VL: very long	Tolerance of poor aeration ⁴ T: tolerant I: intermediate NT: not tolerant
Blackgum	Nyssa sylvatica	Т	1	sprouts ¹ , suckers ²	F, slows down	I	I
Yellow poplar	Liriodendron tulipifera	NT	1	sprouts	F	L	NT
Yellow birch	Betula alleghaniensis	I	1	sprouts	I	I	I
Black birch	Betula lenta	I	1	sprouts	I	I	NT
Cucumbertree	Magnolia acuminata	I	1	sprouts	F	S	NT
American basswood	Tilia americana	Т	1	sprouts, suckers	F	I	NT
American sycamore	Platanus occidentalis	I	1	sprouts	F	VL	Т
Persimmon	Diospyros viginiana	Т	1	sprouts, suckers	S	I	I
Sassafras	Sassafras albidum	NT	1	sprouts, suckers	I	l	NT
Black cherry	Prunus serotina	NT	1	sprouts	F	I	NT
American beech	Fagus grandifolia	Т	1	sprouts	S	VL	Т
Black locust	Robinia pseudoacacia	NT	1	suckers, sprouts	F	s	NT
Pines							
Table Mountain pine	Pinus pungens	NT	1	serotinous cones ⁵	I	I	NT
Shortleaf pine	Pinus echinata	NT	1	sprouts after fire	I	I	NT
White pine, eastern	Pinus strobus	I	1		F	I–L	NT
Virginia (scrub) pine	Pinus virginiana	NT	1		F	S	NT
Loblolly pine ⁶	Pinus taeda	NT	1		F	I	Т
Pitch pine	Pinus rigida	NT	2	sprouts after fire	S	I	Т
Other Softwoods							
Eastern red cedar	Juniperus virginiana	NT	1		S	S–I	I
Eastern hemlock	Tsuga canadensis	Т	1		S	VL	I

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¹ Sprouts: sprouts from stump following disturbance, such as cutting.

² Suckers: sprouts from roots following disturbance, such as cutting.

³ Life Span: S (short) = 0-100 yrs; I (intermediate) = 100-200 yrs; L (long) = 200-300 yrs; VL (very long) = 300+ yrs.

⁴ Roots' ability to tolerate a limited supply of oxygen due to saturated soils.

⁵ Seed cones require extreme heat to release seeds.

⁶ Not native to western Virginia.

Characteristics of Common Virginia Trees

Forest management is a complex process. Silviculture—a system in which healthy communities of trees and other vegetation are established and maintained for the benefit of people—uses forest ecology to guide complex management prescriptions that mimic forest disturbances and processes. Silvics—the natural characteristics of trees—play an important role in prescribing effective silviculture.

The tables contained in this publication describe some important silvical characteristics of trees common in Virginia's mountains. Landowners and foresters can use this information to make silvicultural decisions that achieve forest-management objectives.

For instance, it is important to know which trees are shade-intolerant, because they will require adequate sunlight to grow. Regenerating these trees requires silvicultural prescriptions that will open up enough of the forest's canopy to allow sufficient light to penetrate. Another example related to forest regeneration is sprouting potential. Trees that sprout from stumps or sucker from roots (see descriptions below tables) may be regenerated by these means rather than planting seeds and/or seedlings.

References:

Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. Washington, D.C.: USDA Forest Service.

Common name	Scientific name	Shade tolerance T: tolerant I: intermediate NT: not tolerant	Years to seed maturity	Other regeneration method(s)	Growth rate S: slow I: intermediate F: fast	Life span ³ S: short I: intermediate L: long VL: very long	Tolerance of poor aeration⁴ T: tolerant I: intermediate NT: not tolerant		
		Alternate Branching Hardwoods							
White Oaks				ı	I	I			
White oak	Quercus alba	I	1	sprouts1	S	VL	NT		
Chestnut oak	Quercus prinus	I	1	sprouts	S	L	NT		
Red	Oaks								
Black oak	Quercus velutina	I	2	sprouts	I	I	NT		
Northern red oak	Quercus rubra	I	2	sprouts	Mod.–F	L	NT		
Scarlet oak	Quercus coccinea	NT	2	sprouts	F	I	NT		
Hickories and Walnuts									
Shagbark hickory	Carya ovata	I	1	sprouts, suckers²	S	L	1		
Mockernut hickory	Carya tomentosa	NT	1	sprouts	S	L	NT		
Pignut hickory	Carya glabra	I	1	sprouts	S	VL	NT		
Bitternut hickory	Carya cordiformis	NT	1	sprouts	I	I	Т		
Butternut	Juglans cinera	NT	1	sprouts	F	S	NT		
Black walnut	Juglans nigra	NT	1	sprouts	F	I	NT		
		(Opposite Bra	nching Hardwood	ds				
Striped maple	Acer pensylvanicum	Т	1	sprouts	S	S	1		
Red maple	Acer rubum	Т	1	sprouts	F, when young	S	Т		
Sugar maple	Acer saccharum	Т	1	sprouts	I	VL	NT		
Flowering dog- wood	Cornus florida	Т	1	sprouts	F, slows down	S	I		
Green ash	Fraxinus pennsyl- vanica	I	1	sprouts	I	I	I		
White ash	Fraxinus americana	I	1	sprouts	l	I	NT		

Notes:

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