RECOMMENDED SPECIES: DENSE SHADE TREES

TREES FOREVER
Planting a better tomorrow™

Tree Species (Common Name)	Scientific name	Susceptibility to Storm Damage *	Tolerance to Flooding & Waterlogged Soils**	Hardiness Zone
American linden	*Tilia americana*	intolerant	intolerant	3b to 8
Baldcypress	*Taxodium distichum*	tolerant	tolerant	4 to 11
Beech - American	*Fagus grandifolia*	intermediate	intolerant	4 to 9
Black Alder	*Alnus glutinosa*	intermediate	tolerant	4 to 7
Black oak	*Quercus velutina*	intermediate	intolerant	3 to 9
Littleleaf Linden	*Tilia cordata*	intolerant	intolerant	3b to 7
London planetree	*Platanus x acerifolia*	intermediate	intermediate	4 to 8
Northern red oak	*Quercus rubra*	intermediate	intolerant	3b to 7
Ohio Buckeye	*Aesculus glabra*	intermediate	tolerant	4 to 7
River birch	*Betula nigra*	intermediate	intermediate	3b to 9
Shingle oak	*Quercus imbricaria*	tolerant	tolerant	4 to 8
Sugar maple	*Acer saccharum*	intermediate	intolerant	4 to 8
Sycamore	*Platanus occidentalis*	intermediate	intermediate	4 to 9
Willow	*Salix sp.*	intolerant	tolerant	2 to 8

~When selecting trees for a prject, remember the diversity rule for community forests - a single species should not make up more than 10% of a community's tree population, and a genus such as Acer (includes maples) should make up no more than 20%.

~To maximize energy savings, choose large sized shade trees (at maturity) and place them on the west and east sides of the buildings.

~When replanting after a major disaster and the loss of much tree canopy, plant a mix of faster growing trees (high susceptibility to storm damage) and slower growing trees (low susceptibility to storm damage)

~All species of trees can become more susceptible to storm damage if not properly pruned. Good care and maintenance when trees are young is critical to develop a strong central leader and remove crossing branches.

~Not all species are appropriate for all situations - consider hardiness zone, soil type, shadiness of site, and proximity to building when selecting species.

SPARSE TO MODERATE SHADE

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American elm - cultivars	*Ulmus sp.*	intolerant	intermediate	3 to 9
American hophornbeam	*Ostrya virginiana*	tolerant	intolerant	3b to 9
Black Walnut	*Juglans nigra*	tolerant	intolerant	4 to 9
Blackgum	*Nyssa slyvatica*	tolerant	intolerant	4 to 9
Chinquapin Oak	*Quercus muehlenbergii*	tolerant	intolerant	5 to 7
Cottonwood	*Populus deltoides*	intolerant	intermediate	3a to 9
English Oak	*Quercus robur*	intermediate	intolerant	4 to 8
Ginkgo	*Gingko biloba*	tolerant	intermediate	4 to 8
Hackberry	*Celtis occidentalis*	intolerant	intermediate	3 to 9
Honey Locust	*Gleditsia triacanthos*	intolerant	intermediate	4 to 9
Horse Chestnut	*Aesculus hippocastanum*	intolerant	intolerant	4 to 7
Kentucky coffee tree	*Gymnocladus dioicus*	tolerant	intolerant	3b to 8
Northern Catalpa	*Catalpa speciosa*	tolerant	intolerant	4 to 8
Northern pin oak	*Quercus ellipsoidalis*	tolerant	intermediate	4 to 6
Pin oak	*Quercus palustris*	tolerant	intermediate	4 to 8
Quaking aspen	*Populus tremuloides*	intermediate	intermediate	1 to 6
Shagbark hickory	*Carya ovata*	tolerant	intolerant	4 to 8
Swamp white oak	*Quercus bicolor*	tolerant	tolerant	4 to 8
Sweet gum	*Liquidambar styraciflua*	tolerant	intermediate	5 to 9
Tulip tree	Liriodendron tulipifera	intermediate	intolerant	4 to 9
White oak	Quercus alba	tolerant	intolerant	3b to 9

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