

**Tolerance to construction impact can vary greatly according to site characteristics such as soil depth, individual tree characteristics such as rooting habit, prevailing weather conditions such as drought, and the degree of construction impact.**

<b>Species</b>	<b>Root Severance</b>	<b>Soil Compaction and Flooding</b>	<b>Mature Crown Spread (feet)</b>	<b>Hazard Potential Rating*</b>	<b>Comments</b>
Ailanthus	Tolerant	Tolerant	20-40	Low	
Arborvite	Tolerant	Tolerant	5-10	Low	
Black Ash	Tolerant	Tolerant	30-60	Medium	
Green Ash	Tolerant	Tolerant	30-50	Medium	
White Ash	Tolerant	Intermediate	40-70	Medium	
Bigtooth Aspen	Tolerant	Sensitive	20-35	Medium	Sensitive to increased light and heat
Quaking Aspen	Tolerant	Sensitive	20-35	Medium	
American Basswood	Sensitive	Sensitive	50-75	Medium	Sensitive to fill
American Beech	Sensitive	Sensitive	30-50	Medium	
Blue Beech	Sensitive	Sensitive	15-20	Low	
Gray Birch	Tolerant	Tolerant	30-50	Low	
Paper Birch	Intermediate	Sensitive	30-50	Medium	
River Birch	Tolerant	Tolerant	30-50	Low	
Yellow Birch	Intermediate	Sensitive	25-50	Medium	
Blackgum	Tolerant	Tolerant	40-60	Low	
Boxelder	Tolerant	Tolerant	35-50	High	
Ohio	Sensitive	Sensitive	30-40	Medium	

Buckeye					
Butternut	Sensitive	Sensitive	50-60	Medium	
Catalpa	Intermediate	Tolerant	30-50	Medium	
Eastern Red Cedar	Tolerant	Sensitive	10-20	Low	
Northern White Cedar	Tolerant	Tolerant	10-20	Low	
Black Cherry	Intermediate	Sensitive	40-50	Low	
Kentucky Coffeetree	Intermediate	Intermediate	40-50	Low	
Eastern Cottonwood	Tolerant	Tolerant	80-100	High	
Crabapple	Tolerant	Tolerant	20-30	Low	
Dogwood	Intermediate	Intermediate	15-20	Low	Sensitive to increased light and heat
American Elm	Tolerant	Intermediate	70-150	Medium	
Slippery Elm	Tolerant	Intermediate	40-60	Medium	
Balsam Fir	Tolerant	Tolerant	20-35	Medium	
White Fir	Tolerant	Sensitive	10-20	Medium	
Ginko	Tolerant	Tolerant	40-80	Low	
Hackberry	Tolerant	Intermediate	50	Low	
Hawthorn	Tolerant	Tolerant	20-30	Low	
Eastern Hemlock	Sensitive	Sensitive	25-35	Medium	Sensitive to fill
Butternut Hickory	Intermediate	Sensitive	30-40	Medium	

American Holly	Tolerant	Tolerant	18-40	Low	
Honeylocust	Tolerant	Tolerant	50-70	Medium	
Ironwood	Sensitive	Sensitive	20-30	Low	
Larch	Tolerant	Tolerant	15-25	Medium	
Black Locust	Tolerant	Tolerant	20-50	High	
Red Maple	Tolerant	Tolerant	40-60	Medium	Sensitive to wounding
Silver Maple	Tolerant	Tolerant	50-75	High	
Sugar Maple	Tolerant	Sensitive	60-80	Medium	Sensitive to fill
Bicolor Oak	Tolerant	Tolerant	40-50	Low	
Black Oak	Intermediate	Intermediate	50-70	Low	
Bur Oak	Tolerant	Tolerant	40-80	Low	
Pin Oak	Sensitive	Tolerant	30-50	Low	
Red Oak	Tolerant	Sensitive	40-50	Low	
Shumard Oak	Tolerant	Tolerant	40-60	Low	
White Oak	Sensitive	Sensitive	50-90	Low	
Willow Oak	Intermediate	Intermediate	30-40	Low	
Osage Orange	Tolerant	Tolerant	20-40	Low	
Jack Pine	Tolerant	Sensitive	20-30	Medium	
Red Pine	Tolerant	Sensitive	20-40	Medium	Sensitive to increased light and heat
Scotch Pine	Tolerant	Sensitive	30-50	Medium	Sensitive to poor drainage
White Pine	Tolerant	Sensitive	40-60	Medium	Sensitive to

					drainage changes
Redbud	Intermediate	Intermediate	25-35	Low	Sensitive to increased light and heat
Serviceberry	Intermediate	Intermediate	15-20	Low	
Sweetgum	Tolerant	Tolerant	40-65	Low	
Black Spruce	Tolerant	Tolerant	15-30	Medium	
Colorado Spruce	Intermediate	Tolerant	20-30	Medium	Vulnerable to windthrow
Norway Spruce	Tolerant	Tolerant	20-30	Medium	Vulnerable to windthrow
White Spruce	Tolerant	Tolerant	20-30	Medium	
Sycamore	Tolerant	Tolerant	75-100	Low	
Tulip Tree	Sensitive	Intermediate	35-50	High	
Black Walnut	Sensitive	Intermediate	50-70	Medium	
Black Willow	Tolerant	Tolerant	20-40	High	
Weeping Willow	Intermediate	Intermediate	30-40	High	

\*Hazard Potential Rating refers to the relative potential for a tree to become hazardous due to its large size and likelihood of breakage or decay. For a tree to be considered hazardous, a likely “target” (e.g., a person, a house, or car) must be present. A high rating does not imply that an individual tree is likely to fail.

## Tree Preservation Plan