

## Native Trees for Riparian Buffers in Northern New Jersey Watersheds

NAME	DECID/ EVERGR	MATURE HEIGHT	GROWTH RATE	ROOTING	LIGHT PREFERENCE		SOIL PREFERENCE			WILDLIFE HABITAT & FOOD VALUE	ORNAMENTAL VALUE	BANK STABILIZATING VALUE
					full/ part shade	full sun	dry	moist	flood tolerant			
Box Elder <i>Acer negundo</i>	d	40-70'	very fast	deep lateral		x	x	x	x	low - seeds eaten; provides cover	low	very good, esp. for flood chute
Red Maple <i>Acer rubrum</i>	d	40-75'	mod-fast	very shallow	x	x	x	x	x	high - seeds, buds eaten by birds & mammals	early red flowers, bright fall color	very good
Silver Maple <i>Acer saccharinum</i>	d	60'	moderate	shallow	x	x		x	x	low - moderate; provides cover	silvery foliage	very good, esp. for flood chute
Shadbush, Serviceberry <i>Amelanchier arborea</i>	d	15-25'	slow	shallow	x	x	x	x	x	high - berries eaten by many songbirds; bluebirds, cardinals, orioles, thrushes	masses of early white flowers, berries, bright fall color; effective screening	fair
Yellow Birch <i>Betula allegheniensis</i>	d	60-90'	slow	shallow/ moderate	x		x	x		high - seeds favorite winter food of pine siskins and redpolls; used by hawks for nesting	shining golden bark	fair
Black Birch <i>Betula lenta</i>	d	50-75'	moderate	shallow	x			x		moderate - catkins, seeds	reddish brown bark	fair
River Birch <i>Betula nigra</i>	d	70-80'	rapid	moderate		x	x	x	x	medium - seeds eaten by grouse, turkey, small birds and rodents	balanced, well framed growth habit & interesting features all season	good erosion control
Grey Birch <i>Betula populifolia</i>	d	20-35'	fast	shallow	x		x	x		moderate - seeds, buds	gray bark	fair
American Hornbeam <i>Carpinus caroliniana</i>	d	20-30'	slow	moderate	x	x	x	x	x	moderate - seeds eaten by birds, squirrels	gray bark, fall color	fair
Pignut Hickory <i>Carya glabra</i>	d	60'		deep	x	x		x	x	high - nuts used by some mammals	shade tree	good
Atlantic White Cedar <i>Chamaecyparis thyoides</i>	e	80-85'	moderate	shallow	x			x	x	low - preferred food of deer in winter	dark green evergreen foliage	excellent rot resistance
American Beech <i>Fagus grandifolius</i>	d	70-90'	slow	shallow	x	x	x	x		high - nuts valued by large and small mammals, turkey; favorite tree for black bears	smooth gray bark in winter, copper fall color	fair
White Ash <i>Fraxinus americana</i>	d	70-100'	moderate	shallow	x	x		x	x	moderate	purple fall color	good
Green Ash <i>Fraxinus pennsylvanica</i>	d	60-80'	fast	shallow	x	x		x	x	low	purple fall color	very good
American Holly <i>Ilex opaca</i>	e	40-50'	slow	shallow	x	x	x	x		moderate - berries into late winter	evergreen foliage, red berries	fair
Black Walnut <i>Juglans nigra</i>	d	50-75'	moderate	very deep	x			x		high - nuts eaten by mammals; plant away from edge of water & from gardens: a chemical in the roots & husks of nuts affects fish & many garden plants	edible nuts, attractive shape	fair
Eastern Red Cedar <i>Juniperus virginiana</i>	e	40-50'	slow	shallow		x	x			high - twigs and foliage eaten by deer; provide protective cover and nesting for songbirds; dense protective cover good for winter	evergreen foliage used for holiday decorations	fair

## Native Trees for Riparian Buffers in Northern New Jersey Watersheds

NAME	DECID/ EVERGR	MATURE HEIGHT	GROWTH RATE	ROOTING	LIGHT PREFERENCE		SOIL PREFERENCE			WILDLIFE HABITAT & FOOD VALUE	ORNAMENTAL VALUE	BANK STABILIZATING VALUE
					full/ part shade	full sun	dry	moist	flood tolerant			
Tulip Poplar <i>Liriodendron tulipifera</i>	d	100-120'		deep	x	x	x	x		low - some seeds utilized by birds and small mammals	shade tree with showy flowers in uppermost branches	good
Black Gum <i>Nyssa sylvatica</i>	d	50-60'	moderate	shallow	x	x			x	high - various animals and birds feed off twigs and foliage; provides nesting for variety of birds	attractive autumn foliage	good in slower streams
Hophornbeam <i>Ostrya virginiana</i>	d	25-50'	slow	shallow	x	x	x	x		moderate - seeds	yellow fall color; red bark	fair
White Pine <i>Pinus strobus</i>	e	70-100'	moderate	shallow		x	x	x		high - food & cover for birds & mammals, inc. crossbills and cardinals	feathery foliage; fair good year-round screen	
American Sycamore <i>Platanus occidentalis</i>	d	80-100'	rapid	moderate		x		X	X	high - seeds provide food for birds and small mammals	unique, colorful bark on upper branches	useful in early establishment in disturbed sites
Quaking Aspen <i>Populus tremuloides</i>	d	40-60'	fast	shallow		x	x	x		moderate - beaver, porcupine, deer; favorite food of beaver; buds important to grouse	can be brittle and also drop branches; fluttering gray-green leaves	fair
Black Cherry <i>Prunus serotina</i>	d	40-60'	moderate	deep taproot	x	x	x			high - berries eaten by many songbirds, mammals, including thrushes, foxes, bears, raccoons; avoid planting near areas used by livestock	flowers, attractive reddish brown bark; however, prone to tent caterpillar and fire blight	fair
Swamp White Oak <i>Quercus bicolor</i>	d	60-70'	rapid	lateral	x	x		x	x	high - provide cover for birds and mammals, acorns important for wildlife	shade tree for large lawns, attractive fall foliage	good in slower streams
Pin Oak <i>Quercus palustris</i>	d	70-80'	rapid	moderate	x	x	x	x		high- abundant small acorns	good growth rate, longevity, fall foliage attractive	good
Willow Oak <i>Quereus phellos</i>	d	80-100'	rapid	lateral	x	x		x		high - acorns relished by game animals and birds	shade tree	good at fluctuating level reservoirs
Northern Red Oak <i>Quercus rubra</i>	d	60-80'	moderate	deep lateral	x	x	x	x		high - acorns for bear, raccoon, turkey, grouse; favored by hawks for nesting	attractive shape, fine fall color	good
Black Willow <i>Salix nigra</i>	d	50'	very fast	very shallow		x		x	x	high - cover for nesting	new foliage is attractively colored	excellent, esp. for flood chute
Willows (tree-like). <i>Salix sp.</i>	d	30-60'	rapid	shallow		x	x	x	x	low - buds can provide winter food	early spring green foliage	excellent
Basswood <i>Tilia americana</i>	d	70-80'	moderate	deep	x	x		x		moderate	attractive foliage and shape	fair
Hemlock <i>Tsuga canadensis</i>	e	40-70'	moderate	shallow lateral	x		x	x		moderate - winter deer cover, seeds eaten by small mammals, chickadees, siskins, crossbills, grouse; nesting cover for warblers	attractive foliage, land screen; subject to insect pest - woolly adelgid damage	good

adapted from *Riparian Buffers in Northern New Jersey Watersheds*