



**CAPE COD COOPERATIVE EXTENSION**  
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## Secondary Conservation List of non-native species

The plants listed in the “Secondary List” are those species, both native to North America outside of Massachusetts as well as introduced from other areas, that have few insect and/or disease problems, are NOT invasive, and may have wildlife value. They might be considered for use in less sensitive areas within the buffer zone.

### Buffer Zone Trees & Shrubs

#### Soil Moisture

W = wet  
 D = dry  
 M = moist

#### Sun

SU = sun  
 SH= shade  
 PS = part shade

#### Symbols

! = Possible pests      ST = salt tolerant  
 # = stoloniferous      WL = wildlife value  
 OC = On Center  
 c = caliper

Shrubs, low										
Scientific Name	Common Name	W	M	D	SU	PS	SH	H x W	Opt.size	Spacing
<i>Cephalotaxus harringtonia</i>	Japanese plum yew		X	X	X			5 x 10	2G	8' OC
<i>Microbiota decussata</i>	Russian arborvitae		X	X	X	X		1 x 6	1-2 G	4' OC
# <i>Itea virginica</i>	Virginia sweetspice		X		X	X		3 x 6	1-2 G	4' OC
<i>Pieris floribunda</i>	Mountain pieris		X		X	X		4 x 4	1-2 G	3' OC

Shrubs, medium										
Scientific Name	Common Name	W	M	D	SU	PS	SH	H x W	Opt. size	Spacing
<i>Calycanthus florida</i> <b>WL</b>	Carolina allspice		X	X	X	X		9 x 10	2G	6' OC
<i>Chionanthus virginicus</i>	Fringetree		X	X	X			12 x 15	2-5 G	8' OC
<i>Fothergilla gardenia</i>	Dwarf fothergilla		X	X	X			4 x 4	2G	3' OC
<i>Fothergilla major</i>	Large fothergilla		X	X	X			8 x 8	2G	6' OC

<b>!</b> <i>Ilex x meserveae</i> <b>WL</b>	Meserve hybrid holly	X	X	X			10 x 10	2G	6' OC
<i>Hamamelis x intermedia</i>	Hybrid witch hazel	X	X	X			10 x 15	2G	8' OC
<i>Hamamelis mollis</i>	Chinese witch hazel	X	X	X			10 x 15	2G	8' OC
<i>Hamamelis vernalis</i>	Vernal witch hazel	X	X	X			10 x 15	2G	8' OC
<i>Hydrangea macrophylla</i>	Bigleaf hydrangea	X	X	X			6 x 6	2G	5' OC
<i>Hydrangea quercifolia</i>	Oakleaf hydrangea	X	X	X			6 x 6	2G	5' OC
<i>Physocarpus opulifolius</i>	Ninebark	X	X	X	X		8 x 8	2G	6' OC
<i>Syringa meyeri</i>	Meyer lilac	X	X				8 x 8	2G	6' OC
<i>Syringa patula</i> 'Miss Kim'	Miss Kim Korean lilac	X	X				8 x 8	2G	6' OC

### Shrubs, tall

Scientific Name	Common Name	W	M	D	SU	PS	SH	H X W	Opt. size	Spacing
<i>Aesculus parviflora</i> <b>WL</b>	Bottlebrush buckeye		X	X	X	X		12 x 25	2-5G	10' OC
<i>Cotinus coggygria</i>	Smokebush		X	X	X			15 x 15	2G	8' OC
<i>Enkianthus campanulatus</i>	Redvein enkianthus		X		X	X		15 x 8	2-5G	5' OC
<i>Hydrangea paniculata</i>	Panicle hydrangea		X	X	X	X		15 x 10	2G	5' OC
<i>Viburnum plicatum</i> var. <i>tomentosum</i> <b>WL</b>	Doublefile viburnum		X		X			12 x 12	2-5G	8' OC
<i>Viburnum sargentii</i> <b>WL</b>	Sargent viburnum		X	X	X	X		15 x 15	2-5G	10' OC
<i>Viburnum sieboldii</i> <b>WL</b>	Siebold viburnum		X	X	X	X		20 x 15	2-5G	10' OC
<i>Viburnum trilobum</i> <b>WL</b>	American cranberrybush		X		X	X		12 x 10	2G	8' OC

### Trees, small (understory)

Scientific Name	Common Name	W	M	D	SU	PS	SH	H x W	Opt. size	Spacing
<i>Acer buergerianum</i>	Trident maple		X	X	X	X		25 x 30	1 ½"-2" c	20' OC
<i>Acer campestre</i>	Hedge maple		X	X	X	X		30 x 35	1 ½"-2' c	20' OC
<i>Acer griseum</i>	Paperbark maple		X	X	X	X		30 x 20	1 ½"-2' c	15' OC
<i>Acer triflorum</i>	Three-flower maple		X	X	X			30 x 30	1 ½"-2" c	20' OC
<i>Cornus kousa</i> <b>WL</b>	Kousa dogwood		X	X	X	X		30 x 30	1 ½"-2" c	20' OC
<i>Cornus mas</i> <b>WL</b>	Corneliancherry dogwood		X	X	X	X		25 x 20	1 ½"-2" c	15' OC
<i>Cotinus obovatus</i>	American smoketree		X	X	X	X		30 x 30	5-7G	20' OC
<i>Halsia tetrapta</i>	Carolina silverbell		X	X	X	X		30 x 35	1 ½"-2" c	20' OC
<i>Ilex pedunculosa</i> <b>WL</b>	Longstalk holly		X		X	X		25 x 20	5'-6'	15' OC
<i>Ptelea trifoliata</i>	Hop tree		X		X	X	X	15 x 15	1 ½"-2" c	12' OC

<i>Magnolia x loebneri</i>	Loebner hybrid magnolia		X						25 x 25	5G	20'OC
<i>Magnolia stellata</i>	Star magnolia		X		X				25 x 15	5G	12'OC
<i>Malus 'Donald Wyman' WL</i>	Disease resistant crabapples		X	X	X				20 x 20	1 ½"-2"c	15'OC
<i>Styrax japonicus</i>	Japanese styrax		X		X	X			20 x 20	5-7G	15'OC
<i>Syringa reticulata</i>	Japanese tree lilac		X	X	X				30 x 25	5-7G	20'OC

Trees, tall (canopy)											
Scientific Name	Common Name	W	M	D	Su	PS	Sh	H x W	Opt. size	Spacing	
<i>Abies concolor WL</i>	Concolor fir		X	X	X			75 x 40	5'-8'	35'OC	
<i>Aesculus x carnea WL</i>	Red horsechestnut		X	X	X			40 x 30	1 ½"-2"c	20'OC	
<i>Carpinus betulus</i>	European hornbeam		X	X	X	X		50 x 40	1 ½"-2"c	30'OC	
<i>Cercidiphyllum japonicum</i>	Katsura		X		X	X		75 x 30	1 ½"-2"c	20' OC	
<i>Chamaecyparis obtusa</i>	Hinoki Falsecypress		X	X	X	X		50 x 20	5'-8'	15'OC	
<i>Chamaecyparis pisifera ST</i>	Sawara Falsecypress		X	X	X			70 x 25	5'-8'	20'OC	
<i>Cladrastis kentuckea</i>	American yellowwood		X		X	X		50 x 40	1 ½"-2"c	35'OC	
<i>Ginkgo biloba ST</i>	Ginkgo		X	X	X			70 x 40	1 ½"-2"c	35'OC	
<i>Liquidambar styraciflua</i>	American sweetgum		X	X	X			60 x 40	1 ½"-2"c	35'OC	
<i>Metasequoia glyptostroboides</i>	Dawn redwood	X	X	X	X			75 x 30	5'-8'	25'Oc	
<i>Oxydendrum arboretum</i>	Sourwood		X		X	X		40 x 20	1 ½"-2"c	15'OC	
<b>! Pinus cembra WL</b>	Swiss stone pine		X	X	X			40 x 20	5'-8'	15'OC	
<b>! Pinus parviflora ST, WL</b>	Japanese white pine		X	X	X			50 x 25	5'-8'	20'OC	
<i>Sciadopitys verticillata</i>	Japanese umbrella pine		X	X	X			60 x 20	5'-8'	15'OC	
<i>Stewartia pseudocamellia</i>	Japanese stewartia		X		X	X		40 x 20	1 ½"-2"c	15'OC	
<i>Taxodium ascendens</i>	Pond cypress	X	X		X			80 x 20	5'-8'	15'OC	
<i>Taxodium distichum</i>	Baldcypress	X	X		X			60 x 30	5'-8'	25'OC	
<i>Ulmus parvifolia</i>	Lacebark elm		X	X	X			50 x 40	1 ½"-2"c	35'OC	
<i>Xanthocyparis nootkatensis WL</i>	Alaskan Falsecypress		X	X	X			60 x 30	5'-8'	25'OC	