

Trees & Shrubs for Coastal Environments: Plants for this section were selected based on their ability to successfully grow in coarse soils and windy environments, and for salt spray tolerance. Plants marked with ★ will tolerate **direct coastal exposure**.

Soil Moisture

W = wet

M = moist

D = dry

Sun

SU = sun

PS = part shade

SH= shade

IND = Indicator status

OBL = Obligate

FACW = Facultative wetlands

FAC = Facultative

FACU = Facultative uplands

Symbols

! = Possible pests

= stoloniferous

OC = On Center

c = caliper

Shrubs, low												
Scientific Name	Common Name	IND	W	M	D	SU	PS	SH	H x W	Salt Tol.	Opt. size	Spacing
★ <i>Arctostaphylos uva-ursi</i>	bearberry				X	X			12" x 4'	Yes	4" pot	12" OC
★ # <i>Comptonia peregrina</i>	sweet fern	FACU		X	X	X	X		2' x 3'	Yes	1-2 G	30"-36"OC
<i>Gaylussacia spp.</i>	huckleberry			X	X		X	X	1.5' x 3'		sod	3' OC
<i>Hypericum densiflorum</i>	dense St. John's wort	FAC	X	X	X	X			4' x 4'	Yes	1 G	3' OC
<i>Kalmia angustifolia</i>	sheep laurel			X	X	X	X		2' x 2'		2 G	3' OC
★ <i>Juniperus horizontalis</i>	creeping juniper			X	X	X			12" x 4'	Yes	1-3 G	3'-5' OC
★ <i>Prunus maritima</i>	beach plum			X	X	X	X		1-8' x 5'	Yes	5 G.	5' OC
<i>Rosa carolina</i>	pasture rose			X	X	X	X		3' x 3'		1 G	4' OC
<i>Viburnum acerifolium</i>	maple-leaved arrowwood			X	X	X	X		6' x 4'		2'-3'	5'-6' OC

Shrubs, medium												
Scientific Name	Common Name	IND	W	M	D	SU	PS	SH	H x W	Salt Tol.	Opt. size	Spacing
<i>Aronia arbutifolia</i>	red chokeberry	FACW		X	X	X	X		6' x 5'		1'-2'	4 -6' OC
★ <i>Baccharis halimifolia</i>	groundsel tree	FACW	X	X		X			6' x 6'	Yes	1 G	4' OC
<i>Cephalanthus occidentalis</i>	buttonbush	OBL	X	X		X			6' x 6'		2'-4'	5'-8' OC
<i>Clethra alnifolia</i>	sweet pepperbush,	FAC+		X	X	X	X	X	6' x 6'		1 G	4' OC
<i>Cornus amomum</i>	silky dogwood	FACW		X		X	X		6' x 6'		2'-3'	4'-6' OC

<i>Hamamelis virginiana</i>	witch hazel	FAC-		X	X	X	X		15' x 5'		2'-4'	5' OC
<i>Ilex glabra</i>	inkberry	FACW+		X		X	X		6' x 6'	Yes	5 G	4'-5' OC
<i>Ilex verticillata</i>	winterberry	FACW+	X	X	X	X	X		10' x 10'	Yes	2'-4'	4'-6' OC
<i>Juniperus communis</i>	pasture juniper				X	X			5' x 8'	Yes	1 G	4'-5' OC
<i>Lindera benzoin</i>	spicebush	FACW-		X			X		6' x 6'		2 G	4'-5' OC
<i>Myrica gale</i>	sweet gale	OBL	X			X	X		4' x 4'		2 G	4'-5' OC
* <i>Myrica pensylvanica</i>	northern bayberry	FAC	X	X	X		X		9' x 9'	Yes	3 G	4' OC
<i>Rhododendron viscosum</i>	swamp azalea	OBL	X	X		X			5' x 5'		3'-4'	4'-5' OC
# <i>Rhus aromatica</i>	fragrant sumac			X	X	X	X		6' x 10'		2 G	4' OC
# <i>Rhus glabra</i>	smooth sumac			X	X	X			10' x 0'	Yes	2'-4'	4' OC
<i>Rosa palustris</i>	swamp rose	OBL	X			X	X	X	7' x ?		1 G	4' OC
<i>Sambucus canadensis</i>	common elderberry	FACW-	X	X		X	X	X	6' x 6'		2 G	4' OC
<i>Vaccinium corymbosum</i>	highbush blueberry	FACW-		X	X	X	X		6' x 6'		2 G	6' – 8' OC
<i>Viburnum cassinoides</i>	Witherod viburnum			X	X	X	X		6' x 6'		2 G	6' OC
<i>Viburnum dentatum</i>	arrowwood	FACW-		X	X	X	X		8' x 8'	Yes	2 G	6' OC
<i>Viburnum nudum</i>	Smooth witherod			X		X	X		6' x 6'		2 G	6' OC
<i>Viburnum trilobum</i>	Am. Cranberry viburnum	FACW		X		X	X	X	6' x 6'		2 G	6' OC

Shrubs, tall												
Scientific Name	Common Name	IND	W	M	D	SU	PS	SH	H x W	Salt Tol.	Opt. size	Spacing
<i>Alnus serrulata</i>	smooth alder	OBL	X	X		X			15' x 15'		2'-3'	8' OC
<i>Kalmia latifolia</i>	mountain laurel	FACU		X	X	X	X	X	10' x 10'		2 G	6' OC
# <i>Rhus copallina</i>	shining sumac				X	X	X		20' x 20'		2 G	5' OC
* # <i>Rhus typhina</i>	staghorn sumac				X	X			25' x 25'	Yes	2 G	6' OC

Trees, small (understory)												
Scientific Name	Common Name	IND	W	M	D	Su	PS	Sh	H x W	Salt tol.	Opt. size	Spacing
<i>Amelanchier canadensis</i>	shadbush	FAC	X	X			X	X	15' x 5'	Yes	4'-6'	8'-12' OC
<i>Cornus florida</i>	flowering dogwood			X	X	X	X	X	20' x 20'		1_''-2'' c	12'-15' OC

<i>Crataegus crus-galli</i>	cockspur hawthorn			X	X	X	X		20' x 0'		1' -2" c	12'-15'OC
! <i>Ilex opaca</i>	American holly			X		X	X		30' x 5'		4'-5'	12'-15'OC
* <i>Juniperus virginiana</i>	eastern red cedar	FACU		X	X	X			35' x 5'	Yes	4'-6'	8'-10' OC
<i>Magnolia virginiana</i>	sweetbay magnolia	FACW+	X	X		X	X	X	20' x20'		3'-4'	15'-20'OC
<i>Ostrya virginiana</i>	ironwood	FACU-		X	X		X	X	25' x20'		1' -2" c	20' OC
<i>Sassafras albidum</i>	sassafras	FACU-		X	X	X	X		25'x25''		1' -2" c	20' OC

Trees, tall (canopy)												
Scientific Name	Common Name	IND	W	M	D	Su	PS	Sh	H x W	Salt tol.	Opt. size	Spacing
<i>Acer rubrum</i>	red maple	FAC	X	X	X	X	X		40' x30'		2"-3" c	20' OC
<i>Betula nigra</i>	river birch	FACW	X	X		X	X		40' x35'		2" c	20' OC
<i>Celtis occidentalis</i>	hackberry	FACU		X	X	X	X		30' x35'	Yes	2" c	20' OC
<i>Chamaecyparis thyoides</i>	Atlantic white cedar	OBL	X	X			X		50' x20'		5'-8'	20' OC
<i>Fagus grandifolia</i>	American beech	FACU		X		X	X		60' x60'		2"-3" c	30' OC
<i>Fraxinus americana</i>	white ash			X		X	X		50' x40'		2"-3" c	25'-30'OC
<i>Fraxinus pennsylvanica</i>	green ash	FACW		X		X	X		50' x30'		2"-3" c	25'-30'OC
<i>Liriodendron tulipifera</i>	tulip poplar			X		X	X		70' x50'		2"-3" c	35'-40'OC
<i>Nyssa sylvatica</i>	tupelo	FACW-	X	X	X	X	X		50' x30'		2"-3" c	15'-20'OC
* ! <i>Picea glauca</i>	white spruce			X	X	X			40' x20'	Yes	5'-6'	20'-25'OC
<i>Picea mariana</i>	black spruce	FACW-	X	X		X			40' x20'		5'-6'	20'-25'OC
! <i>Pinus strobus</i>	white pine	FACU		X	X	X			80' x40'		4'-8'	20'-25'OC
<i>Quercus alba</i>	white oak			X		X			60' x40'		2' - 3" c	20' OC
<i>Quercus bicolor</i>	swamp white oak	FACW+	X	X		X	X		60' x50'		2' -3" c	25' OC
<i>Quercus coccinea</i>	scarlet oak			X		X			50' x40'		2' -3" c	20' OC
<i>Quercus prinus</i>	chestnut oak				X	X	X		60' x60'		2' -3" c	25' OC

<i>Quercus rubra</i>	northern red oak	FACU-		X	X	X	X		60' x60'		2"-3" c	25' OC
★ <i>Quercus velutina</i>	black oak			X	X	X			60' x50'	Yes	2"-3" c	25' OC
<i>Salix nigra</i>	black willow	FACW+	X	X		X	X		35' x20'		8'-10'	20' OC
<i>Tilia americana</i>	American basswood	FACU		X			X		60' x40'		2"-3" c	20' OC

Fresh Water Resource Buffer Zone Trees & Shrubs Lakes, Ponds, & BVW

Soil Moisture

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M = moist

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Sun

SU = sun

PS = part shade

SH= shade

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OBL = Obligate

FACW = Facultative wetlands

FAC = Facultative

FACU = Facultative uplands

Symbols

! = possible pests

stoloniferous

OC = On Center

c – caliper

Shrubs, low

Scientific Name	Common Name	IND	W	M	D	SU	PS	SH	H x V	Stoloniferous	Opt. size	Spacing
★ <i>Arctostaphylos uva-ursi</i>	bearberry								12" x	Y	4" p	12" OC
<i>Aronia melanocarpa</i>	black chokeberry	FAC							6' x 6'	Y	1 -2	4'-6' OC
★# <i>Comptonia peregrina</i>	sweet fern								3' x 4'	Y	1 -2	30"-36" c
<i>Gaylussacia spp.</i>	huckleberry	FACU							1.5' x		sod	3' OC
<i>Hypericum densiflor</i>	dense St. John's wc								4' x 4'		1 G	3' OC
★ <i>Juniperus horizon</i>	creeping juniper								12" x	Y	1 -3	3' -5' OC
<i>Rosa carolina</i>	pasture rose								3' x 3'		1 G	4' OC
# <i>Rubus odoratus</i>	purple flowering raspberry								5' x ?		1 G	3' -4' OC
<i>Spiraea alba</i>	narrow-leaved meadowsweet	FAC+							5' X 3'		1 G	2'-3' OC
<i>Spiraea latifolia</i>	broad-leaved meadowsweet	FAC+							5' X 3'		1 G	2' -3' OC

<i>Vaccinium angustifolium</i>	late lowbush blueberry						2-3'		1 G	3' OC
<i>Viburnum acerifolium</i>	maple-leaved arrowwood						6' X 4'		2'-3'	6' OC

Shrubs, medium

Scientific Name	Common Name	IND					H x V	Site	Opt. size	Spacing
<i>Aronia arbutifolia</i>	red chokeberry	FAC\					6' x 5'		1' -2'	4' -6' OC
<i>Cephalanthus occidentalis</i>	buttonbush	OBL					6' x 6'		2' -4'	5' -8' OC
<i>Cornus amomum</i>	silky dogwood	FAC\					6' x 6'		2' -3'	4'-6' OC
<i>Hamamelis virginiana</i>	witch hazel	FAC-					15' x 1'		2' -4'	5' OC
<i>Ilex verticillata</i>	winterberry holly	FAC\					10' x 1'	Yc	2' -4'	4' -6' OC
<i>Juniperus communis</i>	pasture juniper						5' x 1'	Yc	1 G	4' -5' OC
<i>Lindera benzoin</i>	spicebush	FAC\					6' x 6'		2 G	4' -5' OC
<i>Rhododendron maximum</i>	rose bay rhododendron						15' x 1'		2' -4'	10' OC
<i>Rhododendron periclymenoides</i>	pink azalea, pinxterbloom	FAC					6' x 6'		1' -2'	6' OC
<i>Rhododendron viscosum</i>	swamp azalea	OBL					6' x 6'		3' -4'	4' -5' OC
# <i>Rhus aromatica</i>	fragrant sumac						6' x 6'		2 G	4' OC
# <i>Rhus glabra</i>	sweet or smooth sumac						10' x 1'	Yc	2' -4'	4' OC
<i>Rosa palustris</i>	swamp rose	OBL					7' x 1'		1 G	4' OC
<i>Sambucus canadensis</i>	common elderberry	FAC\					6' x 6'		2 G	4' OC
<i>Vaccinium corymbosum</i>	highbush blueberry	FAC\					6' x 6'		2 G	6' -8' OC
<i>Viburnum cassinoides</i>	witherod						5' x 5'		2 G	6' OC
<i>Viburnum dentatum</i>	arrowwood	FAC					8' x 8'	Yc	2 G	6' OC
<i>Viburnum nudum</i>	smooth witherod						6' X 6'		2 G	6' OC
<i>Viburnum trilobum</i>	Am. cranberrybush viburnum	FAC\					8' X 8'		2 G	6' OC

Shrubs, tall

Scientific Name	Common Name	IND				H x V	Si to	Opt. size	Spacing
<i>Alnus serrulata</i>	smooth alder	OBL	)			15' x'		2'-3'	8' OC
<i>Corylus americana</i>	American hazelnut (filbert)		)	)		10' x		3'-4'	8' OC
<i>Kalmia latifolia</i>	mountain laurel	FAC	)	)	)	10' x		2 G	6' OC
# <i>Rhus copallina</i>	shining or winged sumac		)	)		20' x	Y	2 G	5' OC
# <i>Rhus typhina</i>	staghorn sumac		)			25' x	Y	2 G	6' OC
<i>Salix discolor</i>	pussy willow	FAC	)	)		15' x		5'-6'	10' OC

Trees, small (understory)

Scientific Name	Common Name	IND				H x V	Si to	Opt. size	Spacing
<i>Amelanchier arborea</i>	downy serviceberry		)	)		20' x		6' -8	15' OC
<i>Amelanchier canadensis</i>	serviceberry, shadbush	FAC	)	)		20' x	Y	6' -8	12' OC
<i>Amelanchier laevis</i>	smooth serviceberry		)	)		25' x		6' -	15' OC
<i>Carpinus caroliniana</i>	American hornbeam		)	)		35 x'		3" c	15' OC
<i>Cornus alternifolia</i>	alternate-leaf dogwood		)	)		15' x		8'	15' OC
<i>Cornus florida</i>	flowering dogwood		)	)	)	20' x		1_ "	12' -15' C
<i>Crataegus crus-galli</i>	cockspur hawthorn		)	)		20' x			
<i>Ilex opaca</i>	American holly		)	)		30' x		4' -5	12'-15' C
* <i>Juniperus virginiana</i>	eastern red cedar	FAC	)			25' x	Y	4' -6	8'-10 OC
<i>Ostrya virginiana</i>	ironwood	FAC	)	)		25' x		1_ "- c	20' OC
<i>Sassafras albidum</i>	sassafras	FAC	)	)		25' x		1_ "- c	20' OC

Trees, tall (canopy)

Scientific Name	Common Name	IND					H x W	S tc	Opt. size	Spacing
<i>Acer rubrum</i>	red maple	FAC		)			40' x 3		2"-3	20' OC
<i>Betula nigra</i>	river birch	FAC		)			40' x 3		2" c	20' OC
<i>Celtis occidentalis</i>	hackberry	FAC	)	)			30' x 3	Y	2" c	20' OC
<i>Chamaecyparis thyoides</i>	Atlantic white cedar	OBL					50' x 2		5' -8	20' OC
<i>Fagus grandifolia</i>	American beech			)			60' x 6		2"-3	30' OC
<i>Fraxinus americana</i>	white ash			)			50' x 4		2"-3	25'-30' C
<i>Fraxinus pennsylvanica</i>	green ash	FAC		)			50' x 3		2"-3	25'-30' C
<i>Liriodendron tulipifera</i>	tulip tree			)			70' x 5		2"-3	35'-40' C
<i>Nyssa sylvatica</i>	black gum, sourgurr	FAC	)	)			50' x 3		2'-3'	15'-20' C
*! <i>Picea glauca</i>	white spruce		)	)			40' x 2	Y	5'-6'	20'-25' C
<i>Picea mariana</i>	black spruce	FAC		)			40' x 2		5'-6'	20'-25' C
! <i>Pinus strobus</i>	white pine		)	)			80' x 4		4'-8'	20-25' O
<i>Platanus occidentalis</i>	American sycamore			)			75' x 7		3" c	25'-30' C
<i>Quercus alba</i>	white oak			)			60' x 4		2" 3" c	20')C
<i>Quercus bicolor</i>	swamp white oak	FAC		)			60' x 5		2" 3" c	25' OC
<i>Quercus coccinea</i>	scarlet oak			)			50' x 4		2" 3" c	20' OC
<i>Quercus rubra</i>	northern red oak	FAC	)	)			60' x 6		2" 3" c	25' OC
<i>Quercus stellata</i>	post oak			)			60' x 6		2" 3" c	25' OC
* <i>Quercus velutina</i>	black oak		)	)			60' x 6	Y	2"-3'	25' OC
<i>Salix nigra</i>	black willow	FAC		)			35' x 2		8'-11	20' OC
<i>Tilia americana</i>	American basswood	FAC					60' x 4		2"-3	20' OC