

WOODY PLANTS USEFULLY WINTER HARDY IN THE COLDEST REGIONS OF NEW YORK STATE

by R. G. Mower and A. S. Lieberman

Introduction

This publication provides a listing of woody plants usefully winter hardy in regions of New York State where temperatures regularly drop to -30°F and drying winds add to the injuries caused by the extreme cold. The Adirondack Mountains and plateaus, the Catskill Mountains, the higher elevations of southwestern New York, the foothills of the Adirondacks, the St. Lawrence Valley, and the Upper Ontario Plain are included.

Even outside these regions, there are unusually cold spots where temperatures drop to -30°F or lower. Plants in this listing are appropriate for such areas as well.

PLANT LISTS*

Explanatory Notes.

Concept of Usefully Winter Hardy

A woody ornamental may grow fairly well, but if it is injured during the winter sufficiently to destroy the desirable feature for which it was planted, it does not fulfill its purpose in the landscape. For this reason, it is *necessary to consider a plant usefully winter hardy as an ornamental only when, with a reasonable amount of care, it is fairly dependable in producing the flowers, foliage, type of growth, or other feature expected of it.*

Listings refer to winter hardiness only. Information on landscape values and characteristics should be obtained before final selection.

In addition to low temperatures, other elements such as exposure to winter wind and sun can influence the per-

formance of conifers, broad-leaved evergreens and some deciduous plants. Plants like rhododendron, mountain laurel, and andromeda, for example need protection from excessive wind and sun, as well as moist, well-aerated and well-drained soil preferably high in organic matter and acid.

In a few instances, the plant listed will be injured in winter, but its ornamental value will not be lost. Jackman Clematis, *Clematis jackmanii*, is a particularly good example: although the stems are frequently killed back two-thirds of the way to the ground or even more each year, the attractive flowers are still produced on the current year's wood.

Plants of "Dubious" Hardiness

A partial listing of ornamental woody plants with "dubious" hardiness is also included. They are given because they are readily available in the warmer regions of the state, and are often brought into or considered for use in colder regions. Some may have merit where special care and protection can be given but *they are essentially unreliable where winter temperatures of -30°F occur regularly.* In some cases they may fail completely.

Acknowledgement

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*Scientific nomenclature follows Bailey's "Manual of Cultivated Plants" (1949) together with some revisions suggested by the staff of Bailey Hortorium. No attempt is made to give all synonyms, but synonyms are occasionally listed where such names are known to be in common use.

VINES

Plants Usefully Hardy:

<i>Ampelopsis brevipedunculata</i> (<i>A. heterophylla</i>)	Amur Ampelopsis
<i>Aristolochia macrophylla</i> (<i>A. siphon</i> , <i>A. durior</i>)	Dutchman's Pipe
<i>Celastrus orbiculatus</i>	Oriental Bittersweet
<i>Celastrus scandens</i>	American Bittersweet
<i>Clematis dioscoreifolia</i> var. <i>robusta</i> (<i>C. paniculata</i>)	Sweet Autumn Clematis
<i>Clematis jackmanii</i>	Jackman Clematis
<i>Clematis virginiana</i>	Virgins Bower
<i>Parthenocissus quinquefolia</i> (<i>Ampelopsis quinquefolia</i>)	Virginia Creeper, Woodbine

Plants of Dubious Hardiness

<i>Campsis radicans</i> (<i>Bignonia radicans</i>)	Trumpet Creeper
<i>Euonymus fortunei</i> 'Vegetus' (<i>E. radicans vegetus</i>)	Bigleaf Wintercreeper
<i>Hedera helix</i> and variants	English Ivy
<i>Hydrangea anomala</i> ssp. <i>petiolaris</i>	Climbing Hydrangea
<i>Lonicera japonica</i> 'Halliana'	Hall's Honeysuckle
<i>Parthenocissus tricuspidata</i> (<i>Ampelopsis tricuspidata</i>)	Boston Ivy
<i>Wisteria sinensis</i>	Chinese Wisteria

GROUND COVERS (6–12 inches)

Plants Usefully Hardy

<i>Arctostaphylos uva-ursi</i>	Bearberry
<i>Cornus canadensis</i>	Bunchberry
<i>Juniperus horizontalis</i> and variants	Creeping Juniper
<i>Vaccinium angustifolium</i> var. <i>laevifolium</i> (<i>V. pennsylvanicum</i>)	Lowbush Blueberry
<i>Vinca minor</i>	Myrtle or Periwinkle

Plants of Dubious Hardiness

<i>Cotoneaster horizontalis</i>	Rockspray
<i>Iberis sempervirens</i>	Hardy Candytuft
<i>Hedera helix</i> and variants	English Ivy
<i>Pachysandra terminalis</i>	Japanese Spurge

DWARF SHRUBS (1½–3 feet)

Plants Usefully Hardy

<i>Comptonia peregrina</i> (<i>Myrica asplenifolia</i>)	Sweet Fern
<i>Diervilla lonicera</i>	Dwarf Bush-honeysuckle
<i>Hydrangea arborescens</i> f. <i>grandiflora</i>	Snowhill Hydrangea
<i>Juniperus communis</i> var. <i>saxatilis</i>	Prostrate Juniper

<i>Juniperus horizontalis</i> 'Plumosa'	Andorra Juniper
<i>Juniperus sabina</i> 'Tamariscifolia'	Tamarisk Juniper
<i>Kalmia angustifolia</i>	Lambkill, Sheep Laurel
<i>Leucothoe fontanesiana</i> (<i>L. catesbaei</i> , <i>L. editorum</i>)	Drooping Leucothoe
<i>Pieris floribunda</i>	Mountain Andromeda
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil
<i>Rhododendron canadense</i> (<i>Azalea canadense</i>)	Rhodora
<i>Spiraea bumalda</i> 'Anthony Waterer'	Anthony Waterer Spirea
<i>Spiraea tomentosa</i>	Hardhack, Steeplebush
<i>Taxus canadensis</i>	Canada Yew
<i>Taxus cuspidata</i> 'Nana'	Dwarf Japanese Yew
<i>Thuja occidentalis</i> 'Globosa'	Globe Arborvitae

Plants of Dubious Hardiness

<i>Deutzia gracilis</i>	Slender Deutzia
<i>Buxus sempervirens</i> var. <i>suffruticosa</i>	Dwarf Boxwood
<i>Chaenomeles japonica</i> (<i>Cydonia maulei</i>)	Dwarf Flowering Quince
<i>Chamaecyparis obtusa</i> 'Nana'	Dwarf hinoki Cypress
<i>Cotoneaster adpressa</i>	Creeping Cotoneaster
<i>Cotoneaster horizontalis</i>	Rockspray
<i>Euonymus kiautschovicus</i> (<i>E. patens</i>)	Spreading Burningbush
<i>Prunus glandulosa</i>	Flowering Almond
<i>Rhododendron mucronatum</i>	Snow Azalea
<i>Symphoricarpos orbiculatus</i>	Coralberry
<i>Taxus baccata</i> 'Repandens'	Spreading English Yew

SMALL SHRUBS (4–5 feet, below eye level)

Plants Usefully Hardy

<i>Daphne mezereum</i>	February Daphne
<i>Juniperus chinensis</i> 'Hetzi'	Hetz Juniper
<i>Juniperus chinensis</i> 'Pfitzeriana'	Pfitzer's Juniper
<i>Juniperus sabina</i>	Savin
<i>Juniperus communis</i> var. <i>depressa</i>	Common Juniper
<i>Kalmia latifolia</i>	Mountain Laurel
<i>Philadelphus lemoinei</i>	Lemoine Mockorange
<i>Pinus mugo</i> (<i>P. montana mughus</i>)	Mugo Pine
<i>Prunus maritima</i>	Beach Plum
<i>Rhododendron carolinianum</i>	Carolina Rhododendron
<i>Rhododendron nudiflorum</i>	Pinxterbloom Azalea
<i>Rhododendron roseum</i>	Downy Pinxterbloom Azalea
<i>Rhus aromatica</i>	Fragrant Sumac
<i>Rosa rugosa</i>	Rugosa Rose
<i>Rosa setigera</i>	Prairie Rose
<i>Rosa virginiana</i> (<i>R. lucida</i>)	Virginia Rose
<i>Sorbaria sorbifolia</i>	Ural False-spirea

<i>Spiraea billiardii</i>	Billiard Spirea
<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	Snowberry
<i>Viburnum acerifolium</i>	Mapleleaf Viburnum
<i>Viburnum carlesii</i>	Korean Spice Viburnum

Plants of Dubious Hardiness

<i>Berberis thunbergii</i>	Japanese Barberry
<i>Buxus sempervirens</i>	Common Boxwood
<i>Cotoneaster divaricata</i>	Spreading Cotoneaster
<i>Ilex glabra</i>	Inkberry
<i>Kerria japonica</i>	Kerria
<i>Mahonia aquifolium</i>	Oregon Hollygrape
<i>Myrica pensylvanica</i>	Bayberry
<i>Pieris japonica</i>	Japanese Andromeda
<i>Rhododendron kosterianum</i>	Molle Hybrid Azalea
<i>Rhododendron gandavense</i>	Ghent Hybrid Azalea
<i>Rhododendron mucronulatum</i>	Korean Rhododendron
<i>Spiraea thunbergii</i>	Thunberg Spirea
<i>Weigela</i> spp.	Weigela

MEDIUM SHRUBS (6-8 feet)

Plants Usefully Hardy

<i>Acanthopanax sieboldianus</i>	Fiveleaf Aralia
(<i>A. pentaphyllum</i>)	
<i>Aronia arbutifolia</i>	Chokeberry
<i>Clethra alnifolia</i>	Summersweet
<i>Cornus alba</i>	Tatarian Dogwood
<i>Cornus amomum</i>	Silky Dogwood
<i>Cornus racemosa</i>	Gray Dogwood
(<i>C. paniculata</i>)	
<i>Cornus rugosa</i>	Roundleaf Dogwood
<i>Cornus stolonifera</i>	Red-osier Dogwood
<i>Cornus stolonifera</i> 'Flaviramea'	Goldentwig Dogwood
<i>Corylus cornuta</i>	Beaked Hazelnut
(<i>C. rostrata</i>)	
<i>Elaeagnus multiflora</i>	Cherry Eleagnus
<i>Enkianthus campanulatus</i>	Redvein Enkianthus
<i>Euonymus alatus</i>	Winged Euonymus
<i>Ilex verticillata</i>	Winterberry
<i>Ligustrum amurense</i>	Amur Privet
<i>Ligustrum vulgare</i>	European Privet
<i>Lonicera morrowii</i>	Morrow Honeysuckle
<i>Lonicera tatarica</i>	Tatarian Honeysuckle
<i>Malus sargentii</i>	Sargent Crabapple
<i>Philadelphus coronarius</i>	Sweet Mockorange
<i>Physocarpus opulifolius</i>	Ninebark
<i>Prunus tomentosa</i>	Nanking Cherry
<i>Rhododendron calendulaceum</i>	Flame Azalea
<i>Rhododendron catawbiense</i>	Catawba Rhododendron
<i>Rhododendron vaseyi</i>	Pinkshell Azalea
<i>Rosa harisonii</i>	Harison's Yellow Rose

<i>Rosa hugonis</i>	Father Hugo's Rose
<i>Spiraea vanhouttei</i>	Vanhoutte Spirea
<i>Taxus cuspidata</i>	Japanese Yew
<i>Viburnum cassinoides</i>	Withe-rod
<i>Viburnum alnifolium</i>	Hobblebush
<i>Viburnum dentatum</i>	Arrowwood
<i>Viburnum opulus</i>	European Cranberrybush
<i>Viburnum trilobum</i>	American Cranberrybush

Plants of Dubious Hardiness

<i>Acer palmatum</i> and variants	Japanese Maple
<i>Chaenomeles speciosa</i> (<i>Cydonia japonica</i>)	Flowering Quince
<i>Deutzia scabra</i>	Fuzzy Deutzia
<i>Exochorda racemosa</i>	Pearlbush
<i>Forsythia intermedia</i>	Showy Border Forsythia
<i>Forsythia suspensa</i>	Drooping Forsythia
<i>Hibiscus syriacus</i>	Shrub-Althea
<i>Kolkwitzia amabilis</i>	Beautybush
<i>Ligustrum obtusifolium</i> var. <i>regelianum</i>	Regal Privet
<i>Ligustrum ovalifolium</i>	California Privet
<i>Lonicera fragrantissima</i>	Fragrant Honeysuckle
<i>Magnolia stellata</i>	Star Magnolia
<i>Rhodotypos tetrapetala</i>	Jetbead
<i>Viburnum plicatum</i> var. <i>tomentosum</i>	Doublefile Viburnum

LARGE SHRUBS AND SMALL TREES (12–25 feet)

Plants Usefully Hardy

<i>Acer ginnala</i>	Amur Maple
<i>Alnus incana</i>	Speckled Alder
<i>Amelanchier laevis</i>	Shadblow
<i>Aralia spinosa</i>	Hercules Club
<i>Caragana arborescens</i>	Siberian Peatree
<i>Carpinus caroliniana</i>	American Hornbeam, Muscledwood
<i>Chionanthus virginicus</i>	White Fringe-tree
<i>Cornus mas</i>	Cornelian Cherry
<i>Cotinus coggygria</i> (<i>Rhus cotinus</i>)	Smokebush
<i>Crataegus crus-galli</i>	Cockspur Thorn
<i>Crataegus oxyacantha</i>	English Hawthorn
<i>Crataegus phaenopyrum</i>	Washington Thorn
<i>Elaeagnus angustifolia</i>	Russian Olive
<i>Hamamelis virginiana</i>	Common Witch-hazel
<i>Hydrangea paniculata</i> 'Grandiflora'	Pee Gee Hydrangea
<i>Juniperus chinensis</i>	Chinese Juniper
<i>Juniperus virginiana</i>	Red Cedar
<i>Malus arnoldiana</i>	Arnold Crab
<i>Malus atrosanguinea</i>	Carmine Crab
<i>Malus floribunda</i>	Japanese Flowering Crab
<i>Malus ioensis</i> 'Plena'	Betchel's Crab
<i>Malus purpurea</i>	Purple Crab

<i>Malus sylvestris</i>	Common Apple
<i>Ostrya virginiana</i>	Hophornbean
<i>Pinus banksiana</i>	Jack Pine
<i>Rhamnus cathartica</i>	Common Buckthorn
<i>Rhamnus frangula</i>	Alder Buckthorn
<i>Rhododendron maximum</i>	Rosebay Rhododendron
<i>Salix pentandra</i>	Laurel Willow
<i>Sorbus aucuparia</i>	European Mountain Ash
<i>Syringa amurensis</i> var. <i>japonica</i>	Japanese Tree Lilac
<i>Syringa chinensis</i>	Chinese Lilac
<i>Syringa villosa</i>	Late Lilac
<i>Syringa vulgaris</i>	Common Lilac
<i>Thuja occidentalis</i>	American Arborvitae
<i>Viburnum lantana</i>	Wayfaring Tree
<i>Viburnum lentago</i>	Nannyberry
<i>Viburnum prunifolium</i>	Blackhaw

Plants of Dubious Hardiness

<i>Carpinus betulus</i>	European Hornbeam
<i>Cercis canadensis</i>	American Redbud
<i>Chamaecyparis pisifera</i> and variants	Retinospora
<i>Cornus florida</i>	Flowering Dogwood
<i>Cornus kousa</i>	Kousa Dogwood
<i>Koelreuteria paniculata</i>	Goldenrain-Tree
<i>Lindera benzoin</i>	Spicebush
<i>Magnolia kobus</i>	Kobus Magnolia
<i>Magnolia soulangiana</i>	Saucer Magnolia
<i>Prunus serrulata</i> and similar types	Japanese Flowering Cherries
<i>Prunus cerasifera</i> and variants	Myrobalan Plum, Purple-leaf Plum
<i>Salix caprea</i>	Goat Willow, French Willow
<i>Thuja orientalis</i>	Oriental Arborvitae
<i>Thuja plicata</i>	Giant Arborvitae

LARGE TREES (50–100 feet)

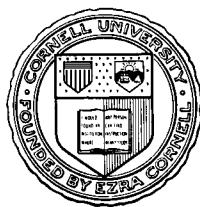
Plants Usefully Hardy

<i>Abies balsamea</i>	Balsam Fir
<i>Abies concolor</i>	Concolor Fir
<i>Abies veitchii</i>	Veitch Fir
<i>Acer platanoides</i>	Norway Maple
<i>Acer rubrum</i>	Red Maple
<i>Acer saccharum</i>	Sugar Maple
<i>Betula lutea</i>	Yellow Birch
<i>Betula papyrifera</i>	Paper Birch
<i>Betula pendula</i>	European White Birch
<i>Betula populifolia</i>	Gray Birch
<i>Carya ovata</i>	Shagbark Hickory
<i>Cladrastis lutea</i>	Yellow-wood
<i>Fagus grandifolia</i>	American Beech
<i>Fraxinus americana</i>	White Ash
<i>Ginkgo biloba</i>	Maiden-hair Tree
<i>Gleditsia triacanthos</i> and variants	Honeylocust

<i>Juglans nigra</i>	Black Walnut
<i>Larix</i> spp.	Larch
<i>Picea abies</i>	Norway Spruce
<i>Picea engelmannii</i>	Engelmann Spruce
<i>Picea glauca</i>	White Spruce
<i>Picea pungens</i> and variants	Colorado Spruce
<i>Picea rubens</i>	Red Spruce
<i>Pinus nigra</i> var. <i>austriaca</i>	Austrian Pine
<i>Pinus resinosa</i>	Red Pine
<i>Pinus rigida</i>	Pitch Pine
<i>Pinus strobus</i>	White Pine
<i>Populus alba</i>	White Poplar
<i>Populus deltoides</i>	Cottonwood
<i>Populus nigra</i> 'Italica'	Lombardy Poplar
<i>Populus tremuloides</i>	Quaking Aspen
<i>Prunus serotina</i>	Black Cherry
<i>Pseudotsuga menziesii</i>	Douglas-fir
(<i>P. douglasii</i> , <i>P. mucronata</i> , <i>P. taxifolia</i>)	
<i>Quercus borealis</i>	Red Oak
<i>Quercus palustris</i>	Pin Oak
<i>Robinia pseudoacacia</i>	Black Locust
<i>Salix alba</i> var. <i>vitellina</i>	Golden Willow
<i>Salix alba</i> var. <i>tristis</i>	Weeping Willow
<i>Tilia americana</i>	American Linden, Basswood
<i>Tilia cordata</i>	Littleleaf European Linden
<i>Tsuga canadensis</i>	Canadian Hemlock
<i>Tsuga caroliniana</i>	Carolina Hemlock
<i>Ulmus americana</i>	American Elm
<i>Ulmus pumila</i>	Dwarf Asiatic Elm

Plants of Dubious Hardiness

<i>Acer campestre</i>	Hedge Maple
<i>Fagus sylvatica</i>	European Beech
<i>Juglans regia</i>	Persian Walnut
<i>Liquidambar styraciflua</i>	Sweetgum
<i>Liriodendron tulipifera</i>	Tulip Tree
<i>Platanus acerifolia</i>	London Planetree
<i>Salix babylonica</i>	Babylon Weeping Willow



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