

WOODY ORNAMENTALS FOR CUT FLOWER GROWERS

CURRENT TOPIC

By Janet Bachmann
NCAT Agriculture Specialist
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INTRODUCTION

"Woody cuts" or "woodies" come from perennial shrubs, trees, or woody vines. Flowering branches, foliage, fruits, pods, and stems are gaining wide use in creative floral design. If you are a cut-flower grower, woody ornamentals can be some of the best plants for extending your season and filling out your bouquets.

In addition to season extension, woody ornamentals have a number of other advantages. They generally have few pest problems and can be grown on land unsuited for other crops. Once established, these perennials generally don't require as much care as annuals. They can serve as attractive landscape plants, as habitat for beneficial insects and birds, and as windbreaks.

Disadvantages include higher establishment costs and a wait of a year or more for the first harvest. In addition, although many cut-flower growers are already growing woodies, there is little information about the best cultivars, harvest times, postharvest treatment, pricing, and markets.



GET*INGSTARTED

Because you will be establishing perennials, weed management will be a special concern. You can decrease weed problems by covering the planting bed with landscape fabric, and then covering the fabric with an organic mulch such as wood chips.

Fertilizers and soil amendments should be worked into the soil before planting. This is especially true for phosphorus, which is not very mobile in the soil. Fertility requirements for most woodies are similar to those for orchard trees and shrubs, but additional phosphorus helps to produce longer shoots.

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Irrigation is especially important at planting time and when the plants are small. As plants become established, irrigation may no longer be necessary.

If you want your woody ornamentals to serve as a windbreak or as part of your landscape design, space them according to recommendations for those purposes. However, if you are planting them only to make cuttings, tight spacing is better. This causes stems to grow long and straight. For most woody cuts, plants are set 2–6 feet apart within rows. But be sure to leave



enough space between rows for field operations, such as mowing a walkway cover-crop or harvesting branches. Grower Elizabeth Dean found that double rows of plants staggered on 4- to 6foot beds with 6- to 8foot sod paths be-

tween the beds accommodate her moving equipment (1).

Pruning to encourage growth of many long stems differs from pruning for a landscape specimen. In a typical plant, the dominant apical or tip bud prevents the development of the dormant buds or side shoots. If you remove the tip bud by pruning or pinching, other buds on the stem will develop. If you prune the apical bud from the plant when it is small, it will branch low to the ground and produce long, usable stems. If you prune a larger plant, you must cut it back hard to get a flush of long stems. A general rule when harvesting woody ornamentals is to leave at least a third of the foliage on the plant when you cut. Once the plants have gone dormant, however, some species, such as *Buddleia* and *Caryopteris*, can be cut to the ground (2).

WHAT TO PLANT

When selecting plants to grow for woody cuts, look for species that:

- Have the ability to grow well in your climate, and regrow rapidly after severe and frequent pruning.
- Produce numerous stems borne over a long period of time.
- Produce stems at least 18" long (upscale florists like long stems).
- Retain flowers, berries, or foliage well
- Have a long vase life.
- Produce harvestable branches early in the plant's life.



Forsythia (*Forsythia x intermedia*)
Photo by Janet Bachmann

• Extend your season from forced flowers (forsythia, fruit trees) in the spring; to berries (beautyberry, bittersweet) or bright foliage (oak) in the fall; to red berries and/or green foliage (hollies, pine, juniper, magnolia) for Christmas.

Boxwood, dogwood, forsythia, holly, hydrangea, jasmine, lilac, pussy willow, and corkscrew willow have long been popular in the floral trade. The table Woody Ornamentals Suitable for Cutting (p. 5-8) lists other possible choices. Consider growing a mix of best-sellers and unusual cuts.

HARVEST AND POSTHARVEST

The proper time of harvest for flowering branches varies. Forsythia, quince, and fruit blossoms are best cut when the buds are very tight; color need not be showing. Lilac, rhododen-

dron, Kalmia, deutzia, camellia, witch hazel, hibiscus, Mahonia, spirea, Pieris, and viburnum are among those that should be cut just as they are starting to open. The suggested time to cut butterfly bush is when half the flowers on the inflorescence are open but before the open flowers have started to fade. Acacia, hydrangea, leonotis, Hypericum, Cornus, and Erica species should be cut when nearly or fully open (3).

Forcing blossoms is a way to have an early supply of flowers that would normally bloom later in the season. It also allows you to have flowers available on specific dates for special events.

Many ornamental trees and shrubs set their flower buds during the sum-

mer for bloom the following spring, go dormant in winter, and come out of dormancy when exposed to warmth and moisture. Late winter, the best time to prune deciduous trees and

shrubs, is also the best time to cut branches for forcing.

Cut branches for forcing when the outside temperature is above freezing - they will be more pliable and make a better transition from cold outdoor temperatures to warmer indoor temperatures. Set the branches in buckets of

warm (100° to 110°F) water with a floral preservative dissolved in it. Start forcing at 50°F; higher temperatures at the start will blast the buds. After a couple of weeks, you can speed up the time to flowering by moving the buds to a room as warm as 75°F, keep it slow at 50°F, or halt it by placing the branches in cold storage at 35°F (4).

Pussy willow, flowering quince, forsythia, and fruit blossoms are among the most common woody plants cut for forcing. Suitable branches can be cut from other willows, filberts, beeches, birches, fothergillas, witch hazels, eastern redbud, lilacs, magnolias, rhododendrons, flowering quinces, and red maple (5).





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Purple beautyberry (Callicarpa dichotoma)

More information on forcing can be found in the book Floriculture by John Dole (6). He gives details on lilac and forsythia, two species whose production and forcing requirements are well documented.

Branches that are chosen for their beauty simply as bare branches - such as redtwig and yellowtwig dogwood - are cut when dormant. The dogwood stems will be green during the summer, but change color during cold winter weather. Do not put the cut

stems into water, but store them dry. They will last for months.

Branches chosen for their ornamental fruits are generally cut after the fruits are mature. Bittersweet should be cut before its pods open; the vines are stored dry. American beautyberry should be cut when mid-stem berries are colored. Green fruits do not color after harvest (7).

Marketing Channels

Lane Greer and John M. Dole of North Carolina State University offer these comments:

"For the most part, the same marketing channels used by cut-flower growers are used by woody-cut growers. These include farmers' markets, pick-yourown, and retail florists. However, there are some differences. Many farmers' markets and most pick-yourown establishments are closed from late fall to early spring, which is a great time for harvesting and selling many woody cuts such as pussy willow. A few retail florists may not be interested in woody cuts. Working

with berried plants like Callicarpa, for instance, can be challenging. Those florists who tend to create original designs will demand new flowers, different colored stems, and unusual plants to lend their work a taste of the uncommon."



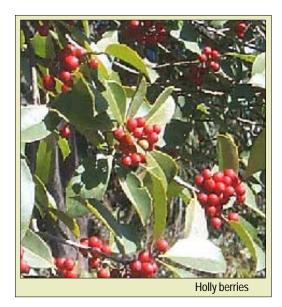


RESOURCES

Lynn Byczynski's excellent book *The Flower Farmer* (2) has a chapter devoted to woody ornamentals. Byczynski also publishes the popular monthly journal *Growing for Market*. This publication is not targeted specifically toward flower growers, but it usually has at least one article on field-grown cut flowers.

Anyone who is considering growing cut flowers (woody or otherwise) should invest in a copy of Allan Armitage's book *Specialty Cut Flowers* (8). Armitage devotes a section to woody cuts, in which he describes production and handling as well as propagation techniques, field culture, greenhouse production, and postharvest techniques.

Other growers are another good source of information. The Association of Specialty Cut Flower Growers (ASCFG) (9) enables growers to share production and marketing information with each other. The ASCFG



produces a membership directory that contains information about individual growers and the varieties of flowers they produce. The directory is free to ASCFG members and is for sale to non-members. Other member benefits include a quarterly newsletter and a listserv where members share questions and answers of all kinds. The ASCFG also hosts an annual conference. The 2002 conference, September 18–21 in Middleton, Wisconsin, will include special sessions on woody ornamentals.

The American Nurseryman (10) includes advertisements for many plant sources. It also advertises many useful books, and often has articles on woody ornamentals that are suitable for cuts.

Woody Ornamentals Suitable for Cutting				
Botanical Name	Common Name	Comments		
Abelia chinensis				
Abeliophyllum distichum	White forsythia	Abundant small white flowers, delicate fragrance.		
Acacia spp.				
Acer rubrum	Red maple	Suitable for forcing.		
Amorpha canescens	Leadplant amorpha			
Aronia arbutifolia	Red chokeberry			
Aucuba japonica	Japanese aucuba			
Betula papyrifera	Birch	Often used as whole trees at 8-10' (silk leaves).		
Buddleia davidii	Butterfly bush	Numerous cultivars with flowers in shades of purple, pink, white.		
Buddleia globosa	Orange butterfly bush	Bright yellow, fragrant flowers.		
Buddleia weyeriana		Hybrid with yellow to yellow-orange flowers. 'Sun Gold' has long vase life.		
Buxus spp.	Boxwood	Long-lasting foliage. Variegated and green cultivars.		

Callica	arpa americana	American beautyberry	Grown for its metalic purple berries. Zones 6–10. Must be defoliated.
Callica	arpa bodinieri	Bodinieri beautyberry	Grown for its berries. Must be defoliated.
Callica	arpa dichotoma	Purple beautyberry	Grown for its berries. Profusion is recommended cultivar. Must be defoliated. Smaller fruit than <i>C. americana</i> . Zones 5–8.
Callun	a vulgaris	Heather	Many cultivars.
Calyca	anthus floridus	Common sweetshrub	Cultivar: Athens.
Caryo	oteris clandonensis	Bluebeard	Will provide cuts in first year. Blue flowers produced in late summer.
Celast	rus scandens	American bittersweet	Vines need trellis. Cut before fruits open.
Cercis	canadensis	Eastern redbud	Cut for flowers when buds are tight.
Cercis	chinensis	Chinese redbud	
Chaen	nomeles speciosa	Flowering quince	Flowers in early spring, suitable for forcing.
Chaen	nonmeles japonica	Japanese flowering quince	
Chimo	nanthus praecox	Fragrant wintersweet	Fragrant flowers in winter.
Chiona	anthis retusus	Chinese fringetree	
Clema	ntis spp.	Clematis	Cut flowers can last 7–10 days.
Clethra	a alnifolia	Summersweet clethra	Fragrant flowers in summer.
Cornu	s alba	Tatarian dogwood	Stems of cultivar Bud's Yellow turn yellow in cold weather. For best color, cut stems back hard every year.
Cornu	s florida	Flowering dogwood	Spring flowers; cut when open.
Cornu	s sanguinea	Dogwood	Dried cut stems last for months.
Cornu	s sericia	Redtwig dogwood	Grown for red stems. Cut in fall or winter and store dry.
	psis spicata	Winterhazel	Pale yellow flowers are produced in early spring.
Corylu	is avellana	European filbert	Cultivar: Contorta; grown for its stems.
Cotinu	is coggygria	European smoketree	Cultivari: Velvet Cloak. Purple foliage has a good vase life.
Cotinu	is obovatus	American smoketree	
Cyrilla	racemiflora	Swamp cyrilla	Also called leatherwood. Beautiful foliage, fragrant white flowers.
Cytisu	s spp.	Scotch broom	Many cultivars.
Danae	e racemosa	Alexandrian laurel	Foliage is excellent for cut branches. Zones 8 and 9.
Daphr	ne burkwoodii	Burkwood daphne	Creamy to pinkish tinged, fragrant flowers.
Daphr	ne genkwa	Lilac daphne	Flowers are lilac-colored and borne along entire length of stem, not fragrant.
Daphr	ne odora	Fragrant daphne	Also called winter daphne; fragrant early spring flowers. Stems are very short.
Deutzi	ia elegantissima	Elegant deutzia	
Eleagi	nus spp.		Species include Silverberry, Autumn olive. Good foliage, fragrant flowers.
Eleagi	nus x ebbingii		Cultivar Gilt Edge has extra-showy foliage.
Ericas	spp.	Heaths	

Euonymus alata	Winged euonymus	Interesting stems with rich-brown corky ridges.
Euonymus atropurpurea	Wahoo	Abundant attractive fruits.
Forsythia x intermedia	Forsythia	Yellow flowers in early spring, suitable for forcing. Lynwood Gold has more stems than other cultivars.
Fothergilla gardenii	Dwarf fothergilla	
Hamamelis mollis	Chinese witchhazel	
Hamamelis vernalis	Vernal witchhazel	Extremely early spring blossoms. Fragrant.
Hamamelis virginiana	Common witchhazel	Late fall blossoms.
<i>Hydrangea</i> spp.	Hydrangea	Flowers in blue, pink, white depending on soil acidity. Also used as dried flowers.
Hypericum androsemum	St. Johnswort	Cultivars: Albury Purple, Excellent Flair.
Hypericum buckleyi	Blueridge St. Johnswort	
Hypericum frondosum	Golden St. Johnswort	Summer bloomers with smooth bluish-green foliage.
Hypericum 'Hidcote'		Interesting seed capsules in fall, useful in dried arrangements.
Hypericum prolificum	Shrubby St. Johnswort	Interesting seed capsules in fall, useful in dried arrangements.
llex decidua	Possumhaw	Deciduous, harvest when berries are mature.
llex serrata	Japanese winterberry	Deciduous, harvest when berries are mature.
llex veticillata	Winterberry	Deciduous, harvest when berries are mature.
Itea virginica	Virginia sweetspire	
Jasminum mesnyi	Primrose jasmine	
Kerria japonica		Cultivar Picta has handsome white-edged leaves.
Koelreuteria bipinnata	Goldenraintree	Fruits collected in pink stage and dried last for years.
Leptospermum scoparium	Broom teatree	Evergreen foliage.
Lonicera fragrantissima	Winter honeysuckle	Fragrant early-spring flowers.
Lonicera x heckrottii	Goldflame honeysuckle	Vine; carmine flower buds change color as they open
Lonicera sempervirens	Trumpet honeysuckle	Cultivars with yellow, orange, or red flowers.
Loropetulum chinense	Chinese witchhazel	
Magnolia grandiflora	Southern magnolia	Large, creamy white, fragrant flowers; evergreen foliage.
Magnolia stellata	Star magnolia	Suitable for forcing.
<i>Malus</i> spp.	Flowering crabapple	Suitable for forcing.
Michelia figo	Banana shrub	Adapted to Costal Plain; very fragrant flowers.
Myrica cerifera	Wax myrtle	Evergreen foliage. Fragrant.
Myrica pensylvanica	Northern bayberry	Aromatic leaves; gray fruits in winter.
Nandina domestica	Heavenly bamboo	Red berries in fall, white flowers early summer, attractive foliage.
Oxydendron arboreum	Sourwood	Fragrant white flowers early summer.
Philadelphus coronarius	Mock orange	Fragrant white flowers late spring.
Physocarpos 'Diablo'	Ninebark	Deep maroon leaves all summer.
Pittosporum tobira	Japanese pittosporum	Fragrant flowers late spring, lustrous foliage year-round. Zones 8–10.
Poncirus trifoliata	Hardy orange	Grown for thorny stems. Zones 6–9.

Prunus spp.	Flowering almonds, plums, cherries, apricots	Suitable for forcing.
Pyracantha coccinea	Scarlet firethorn	Attractive fruit.
Pyrus spp.	Pears	Suitable for forcing.
Rhododendron spp.		
Rosa spp.	Rose	Can be grown specifically for their hips to be cut in fall.
Salix alba	White willow	Grown for golden stems and red-orange twigs.
Salix caprea	Florist's willow	Grown for catkins.
Salix discolor	Pussy willow	Grown for catkins.
Salix gracilistyla	Rosegold pussy willow	Grown for catkins.
Salix irrorata	Blue stem willow	
Salix matsudana	Curly willow	Grown for interesting stems.
Salix sachalinensis	Japanese fantail willow	Cultivar Sekka grown for fantailed stems.
Skimmia japonica	Skimmia	Evergreen, aromatic leaves.
Skimmia laureola	Skimmia	Evergreen foliage, sweet-scented creamy green flowers.
Spiraea prunifolia	Spirea	
Spiraea spp.	Spirea	Many species and cultivars.
Stachyrus praecox		Long chains of pale yellow flowers borne in spring. Very interesting look.
Symphoricarpus alba	Common snowberry	White, berry-like fruits are ornamental, but often discolored.
Symplocos paniculata	Sapphireberry	Fragrant, creamy white flowers in early summer. Zones 4–8.
Syringa spp.	Lilac	Cut for flowers, strip leaves.
Ulmus alata	Winged elm	Grown for stems with corky wings. Store dry.
Viburnum spp.	Viburnums, snowball	Many species and cultivars grown for flowers, leaves, and fruits.
Vitex spp.	Chastetree	Flowers range from lilac and lavender through pink and white.
Weigela florida	Weigela	Many cultivars grown for flowers.

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Growing for Market P.O. Box 3747 Lawrence, KS 66046 1-800-307-8949

growing4market@earthlink.net http://www.growingformarket.com

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 Judy Laushman, Executive Director
 M.P.O. Box 0268
 Oberlin, OH 44074
 440-774-2887
 440-774-2435 Fax
 http://www.ascfg.org
- 10) American Nurseryman
 American Nurseryman Publishing Co.
 77 W. Washington Street
 Suite 2100
 Chicago, IL 60602
 312-782-5505
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By Janet Bachmann NCAT Agriculture Specialist

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