## Growing Tips 4

# HYDRANGEAS Pruning for Blooms



Six hydrangea types most commonly grace our landscape. In eastern and southeastern Massachusetts, bigleaf hydrangeas (*Hydrangea macrophylla*), and their many cultivars, are especially popular.

#### Most hydrangeas thrive given:

- Full sun or partial shade, depending on the cultivar. Avoid hot, dry, sites
- Moist, well-drained soils enriched with organic matter. Mulch with 2-3 inches of bark mulch or other organic mulch to conserve moisture.

Hydrangea Type	Best Time to Prune	Zone	Notes
bigleaf hydrangea, French hydrangea ( <i>H. macrophylla</i> )	Right after bloom, in summer; prune winter-damaged stems in late spring, after leaf-out	6- 9	Blooms in spring, early summer, then flower buds produced on summer growth Native to Asia
mountain hydrangea (H. macrophylla var. serrata)	(same as above)	5 - 9	(same as above)
smooth hydrangea (H. arborescens)	Late winter, early spring, before leaf-out; can cut back to 6" – 12" above ground.	4 - 9	Flower buds produced on spring/early summer growth, then blooms mid-summer native to Eastern United States
panicle hydrangea (H. paniculata)	Late winter, early spring, before leaf-out	4- 7	Flower buds produced on spring growth, then blooms mid-summer Native to Asia
oakleaf hydrangea (H. quercifolia)	Right after bloom, in summer; prune winter-damaged stems in late spring, after leaf-out	5 - 6	Blooms early summer, then flower buds produced on summer growth  Native to Southeastern United States
climbing hydrangea (H. anomala subsp. petiolaris)	Usually not necessary, except to remove damaged wood	5 - 8	Native to Asia

### When is the best time to prune hydrangeas?

It depends on the type and when they produce flower buds. See table above for guidance.

#### Why aren't they blooming?

There are three possibilities:

- Too much shade
- Improper pruning
- Winter damage to stems, or frost damage to flower buds especially likely with bigleaf hydrangea (Hydrangea macrophylla) and mountain hydrangea (Hydrangea serrata).

#### **Nifty Note**

#### Look for newer cultivars of bigleaf

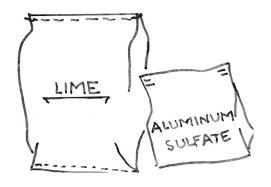
hydrangea that bloom on last summer's (old wood) *and* current spring (new wood) growth. Cultivars such as 'Endless Summer'®, 'Blushing Bride'™ and 'Twist-n-shout' ™, 'Red Sensation', 'Double Pink' will bloom again on the current year's growth if you remove faded blooms regularly.



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## Growing Tips 5

# HYDRANGEAS Color + Fertilizing



#### Got the bloomin' blues?

To see if you can encourage your hydrangea to produce blue or pink flowers, **determine** what kind of hydrangea you have! Most types of hydrangeas grown in Massachusetts are listed in the table to the right.

Only bigleaf (Hydrangea macrophylla) or mountain hydrangea (Hydrangea serrata) flowers will turn blue. Some cultivars of these are better suited for blue flowers while others are best grown as pink.

Aluminum in the tissue of hydrangea flowers causes the blue coloration.

Common NamesHydrangea Speciesbigleaf hydrangea, French hydrangea (2 types: mophead + lacecap)H. macrophylla (Some cultivars tend to be blue, others, pink regardless of pH!)mountain hydrangeaH. macrophylla var. serratasmooth hydrangeaH. arborescenspanicle hydrangeaH. paniculataoakleaf hydrangeaH. quercifoliaclimbing hydrangeaH. anomala subsp. petiolaris				
French hydrangea (2 types: mophead + lacecap)  mountain hydrangea  H. macrophylla var. serrata  smooth hydrangea  H. arborescens  panicle hydrangea  H. paniculata  H. quercifolia	Common Names	Hydrangea Species		
types: mophead + lacecap)  blue, others, pink regardless of pH!)  mountain hydrangea  H. macrophylla var. serrata  smooth hydrangea  H. arborescens  panicle hydrangea  H. paniculata  oakleaf hydrangea  H. quercifolia	bigleaf hydrangea,	H. macrophylla		
smooth hydrangea	types: mophead +	blue, others, pink regardless of		
panicle hydrangea	mountain hydrangea	H. macrophylla var. serrata		
oakleaf hydrangea H. quercifolia	smooth hydrangea	H. arborescens		
, , ,	panicle hydrangea	H. paniculata		
climbing hydrangea H. anomala subsp. petiolaris	oakleaf hydrangea	H. quercifolia		
	climbing hydrangea	H. anomala subsp. petiolaris		

Most soils have enough aluminum, but the aluminum is not available to the plant if the soil pH is high.

For *most* bigleaf hydrangeas, blue flowers will be produced in acidic soil (pH <5.5). Plants in neutral to alkaline soils (pH >6.5) will usually produce pink flowers. Between pH 5.5 and pH 6.5, the flowers will be purple, or a mixture of blue and pink on the same plant.

#### Adjusting pH – a gradual process

To raise pH, add limestone according to directions on the bag. Too much lime can cause new growth to yellow due to lack of iron.

**To lower pH apply an acidic fertilizer** such as aluminum sulfate, or wettable sulphur. Mulch with peat or pine bark.

Exact amounts of lime or aluminum sulfate needed to get the flower color you want will vary depending on current soil pH and soil type. *Caution:* too much aluminum sulfate will injure plants. Follow application directions carefully.

Colors
blue (pH <5.5)
mauve (pH 5.5– 6.5)
pink (pH >6.5)
white (Some cultivars are unaffected by pH.)
same as above
white – pale green
white – pink/light green
creamy white - rose
white

### When and how should hydrangeas be fertilized?

For blue cultivars of bigleaf and mountain hydrangea, fertilize once in spring with a formulation for acid-loving plants.

Phosphorus in the soil tends to bind aluminum so that it isn't readily available for the plant. Use a fertilizer low in phosphorous (the middle number in the content analysis) such as 12-4-8 to encourage production of blue flowers.

For other types of hydrangeas, use a general-purpose fertilizer at recommended rates on the package. Incorporate dry fertilizer into top 2" – 3" of soil and water thoroughly.



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