

## THE EXTENSION LINE

Bob Mugaas of the University of Minnesota Extension Service is a regular contributor to *Hole Hotes*. As Hennepin County Extension Agent, Mr. Mugaas compiles various articles related to the golf field for our information. Bob is an excellent source for answers to many questions on horticultural problems. He may be reached at 612/542-1420. Written requests should be sent to:

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Minneapolis, MN 55427

This month's articles cover Cankers, Pruning and Pesticide Containers.

## WINTER TEMPERATURE VARIATIONS

### LEAVE PLANTS

### SUSCEPTIBLE TO CANKERS

Schoeneweiss D. F.  
J. of Arboriculture Vol. 15, No. 19, 1989

Popular belief says the culprit behind severe winter injury to woody landscape plants is prolonged cold weather. However, most winter stress and injury is due to sudden temperature changes (often associated with passing cold fronts) rather than deep cold spells. Much, if not most,

winter injury follows rapid radical temperature drops to below-freezing levels following extended mild fall weather. This is why extensive "winter" damage can appear following a warmer-than-average winter. To complicate diagnosis, however, such injury does not usually become apparent until after buds break the following spring--when the previous fall's freeze has been forgotten. In many cases, the sensitivity of a plant part to low temperatures limits the plant's geographic or economic use. For example, temperatures drop low enough in many northern regions to kill a peach or plum's flower buds without affecting the rest of the tree. In general, however, very low temperatures are much less important to a landscape plant's survival than a rapid and severe variation in temperature.

*Nursery notes, Oct. 1989*  
*Ohio Cooperative Extension Service*

## PRUNING GUIDE

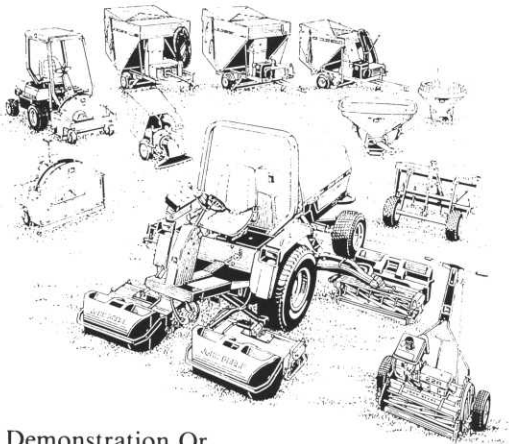
The following is a pruning guide adapted from the September 1989 "Dundee Leaflet" newsletter by Dundee Nursery and Landscaping, and the Minnesota Extension Service publication "Pruning Trees and Shrubs" (AG-FO-0628) by Mervin C. Eisel, Extension Horticulturist.

Common questions asked at the Extension office and at local nurseries is when to prune a particular kind of shrub or tree. Hopefully this guide will aid in knowing the correct time of year to prune for optimum effect. Any dead, diseased, or damaged branches can be pruned as soon as they are noticed even though the time of year may be less than desirable for pruning.

### KEY:

- 1 - WINTER: December, January, February. This helps prevent possible disease and insect infestations. "Bleeding" of sap doesn't hurt trees.
- 2 - SPRING: before growth starts. Usually because flowers on new wood or because plant is grown for foliage effect.
- 3 - EARLY IN GROWING SEASON: generally May-early June.
- 4 - DURING GROWING SEASON: pines should be pruned before candles (new growth) have fully opened and become woody. Usually in early May.
- 5 - RIGHT AFTER FLOWERING: usually done because plant flowers on old wood.
- 6 - SUMMER: best time is when it is not rainy or humid. Locust should be done after July 15.
- 7 - FALL: best when plant has lost its leaves for the year.

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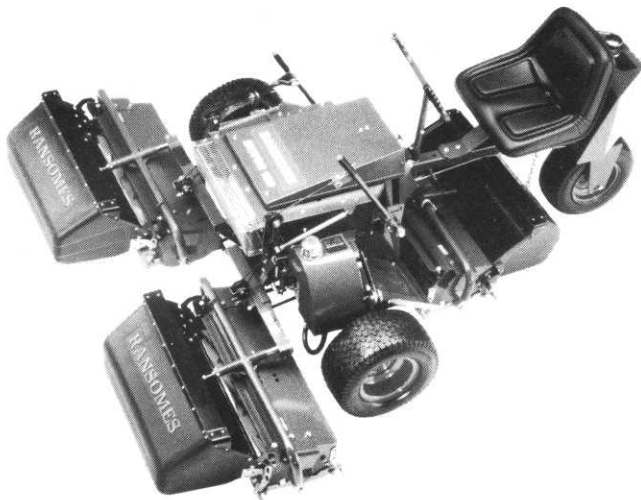
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PLANT	PRUNE	PLANT	PRUNE	PLANT	PRUNE
Almond, Flowering	5	Elder	2	Plum (fruit tree)	1
Apple	1	Elm	1	Plum (ornamental)	5
Apricot	1,5	Euonymus,		Poplar	1,6,7
Arborvitae	3	(Burningbush)	2	Potentilla	2
Ash	1,6,7	Falsespirea	2	Privet	5
Aspen	1,6,7	Fir	2	Rhododendron	5
Azaleas	5	Forsythia	5	Rugosa (shrub) rose	2,5
Barberry	2	Ginkgo	2	Serviceberry	5
Birch	1,6,7	Hackberry	1	Smoketree	2
Boxwood	3	Hawthorn	1	Snowberry	2
Buckeye	2,7	Hemlock	3	Spirea (Anthony	
Buckthorn	2	Honeylocust	1,6	Waterer; Goldflame;	
Cherry, Canada Red	1,5	Honeysuckle	5	Curly Leaf; Daphne;	
Cherry, Meteor;		Hydrangea	2	Froebeli)	2
North Star	1,2	Ironwood	1,2,6	Spirea (Arguta: Fairy	
Cherry, Nanking	5	Juniper	3	Queen; Snowmound;	
Cherry Plum	1,2	Lilac	5	Prunifolia;	
Chokeberry	5	Linden	1,6,7	Vanhoutte; Thunbergi)	5
Chokecherry	5	Magnolia	5	Spruce	2
Coffeetree,		Maple	1,6	Sumac	2
Kentucky	1,2,7	Mockorange	2	Tamarack	2
Coralberry	2	Mountain Ash	1	Tamarix	2
Corktree	1	Ninebark	2	Viburnum	5
Cotoneaster	1	Oak	1,7	Walnut	6
Crabapple	1	Olive, Russian	1	Weigela	2
Curant, Alpine	2	Pear	1	Willow	1,6,7
Deutzia	5	Peashrub	5	Winterberry	2
Dogwood	2	Pine	4	Yew	3

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## INFORMATION PACKETS ARE AVAILABLE ABOUT RINSING PESTICIDE CONTAINER

by Bert T. Swanson  
Extension Horticulturist-Nursery Management  
Minnesota Extension Service

The Minnesota Pesticide Container Advisory Committee, a group of farm, environmental and industrial organizations, state agencies and the Minnesota Extension Service, has developed an awareness and information packet about the proper rinsing of empty pesticides containers.

This packet will include information about pesticides and pesticide containers, why it is necessary to properly rinse pesticide containers, and how to do the rinsing.

The Advisory Committee is also scheduling seven demonstrations on the proper rinsing and disposal of empty pesticide containers. These demonstrations are in conjunction with the University of Minnesota Experiment Station field days and Farmfest. A schedule is included in the packet.

If you would like a packet, write to Rick Hansen, Environmental Quality Section, MN Department of Agriculture, 90 West Plato Blvd., St. Paul, MN 55108 or Dean Herzfeld, Minnesota Extension Services, 1991 Upper Buford Circle, St. Paul, MN 55108.

## CLASSIFIED

### FOR SALE

F-10 Jacobson Fairway Mower Hydraulic 7 gang, 10 blade Ford - 4. Bemidji Town and Country Club, PO Box 622, Bemidji, MN 56601. Lee Kirchgatter, Grounds Supt. Work 751/9170 or 751-4535; Home 751/547-1555.

### POSITION AVAILABLE

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