

# Weed Control Notes

VIRGINIA POLYTECHNIC INSTITUTE

AND  
UNIVERSITY ADVISORIES

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## HERBICIDES FOR WOODY NURSERY STOCK

Control Series 50

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Several herbicides are available for use in nursery stock. Each herbicide controls a different group of weeds and is safe to use on different ornamental species. Safety of plant material cannot be assured when a herbicide is used on species other than those on the label.

There are several factors that you will need to consider in selecting a herbicide for use. These include: ornamental tolerance, weed susceptibility, cost of material, method of application, and duration of effectiveness. Ornamental tolerance to various herbicides cannot be readily determined without searching several product labels. This selection can be simplified by using the attached ornamental checklist for the herbicides currently recommended. In each case use the rate and method of application suggested on the manufacturer's label.

### Type of Application for Which herbicides are Recommended

<u>PREPLANT</u>	<u>PREEMERGENCE TO WEEDS</u>	<u>POSTEMERGENCE TO WEEDS</u>
Trifluralin (Treflan)	(postemergence to nursery stock)	Amitrole + Simazine (Amizine)
EPTC (Eptam)	DCPA (Dacthal)	
	Dichlobenil (Casoron)	
	Diphenamid (Dymid, Enide)	
	EPTC (Eptam)	
	Norea (Herban)	
	Simazine (Princep)	
	Trifluralin (Treflan)	

### CHECKLIST FOR USE OF HERBICIDES IN WOODY NURSERY STOCK\*

Plant Species	Amizine	DCPA	Dichlobenil	Diphenamid	EPTC	Norea	Simazine	Trifluralin
ABELIA sp. - Abelia		T						
ABIES sp. - Fir		T			T			
A. balsamea - Balsam Fir	T			T			T	T
A. frazeri - Frazer Fir	T						T	
ACER sp. - Maple		T	T		T			
A. negundo - Box Elder			T				T	
A. palmatum - Japanese Maple	T							
A. platanoides - Norway Maple				T				T

\* T indicates that the ornamental is tolerant when used in accordance with manufacturer's label.

S indicates that injury has occurred when used as directed.

Plant Species	Amizine	DCPA	Dichlobenil	Diphenamid	EPTC	Norea	Simazine	Trifluralin
A. rubrum - Red Maple				F				
A. saccharinum - Silver Maple	F			F				F
A. saccharum - Sugar Maple				F				F
AZALEA sp. - Azalea		F						
AZALEA (Kurume types)-Azalea			F					
A. mollis - Azalea			F					
BERBERIS sp. - Barberry	S	T	T		T		T	
B. mentorensis - Mentor Barberry				T				F
B. thunbergi - Japanese Barberry				T				T
BETULA sp. - Birch		T	T					
B. pendula laciniata - Weeping birch				T				T
BUXUS sp. - Boxwood		T	T		T	S		
B. harlandii - Harland Boxwood				T				T
B. microphylla - Japanese Boxwood				T				T
B. sempervirens - American Boxwood				T				T
CAMELLIA sp. - Camellia		T	T	T				
C. japonica - Camellia				T		T		T
C. sasanqua - Fall blooming Camellia				T		T		T
CASTANEA mollissima - Chinese Chestnut				T				T
CELTIS sp. - Hackberry			T					
CERCIS sp. - Redbud		T						
C. canadensis - American Redbud				T				T
CHAMAECYPARIS cyno viridis - Blue Cypress		T						
CITRUS sp. - Citrus					T			
CLEYERA japonica - Cleyera			T					
CORNUS sp. - Dogwood	T	T	T		T		T	
C. florida - White Dogwood				T				T
C. kousa - Kousa Dogwood								T
COTONEASTER sp. - Cotoneaster apiculata		T	T	T			T	
C. apiculata - Cotoneaster								
C. zabelii - Cotoneaster				T				T
CRATAEGUS sp. - Hawthorn		T						
CYDONIA japonica - Japanese Flowering quince			T					
DEUTZIA sp. - Deutzia		T	T	T				T
ELAEAGNUS sp. - Elaeagnus		T	T				T	
E. pugenis - Evergreen Elaeagnus				T				T
EUONYMUS sp. - Euonymus		T	T		T	T		
E. alatus - Winged Euonymus				T				T
E. fortunei - Purpleleaf Wintercreeper				T				T
E. newport - Euonymus				T				T
FAGUS grandifolia - American beech	T							
FORSYTHIA sp. - Forsythia		T	T	T				T
FRAXINUS sp. - Ash		T	T					
F. americana - White Ash	T			T				T
GARDENIA - Gardenia			T					
GLEDITSIA triancanthos - Thornless honeylocust		T	T	T			T	T
HEDRA helix - English Ivy		T				T		
HIBISCUS syriacus - Hibiscus						S		
HYDRANGEA sp. - Hydrangea		T		T				

Plant Species	Amizine	DCPA	Dichlobenil	Diphenamid	EPTC	Norea	Simazine	Trifluralin
ILEX sp. - Holly		T	T*					
ILEX burfordi - Burford Holly						F		
ILEX crenata - Japanese Holly	T			T		F		F
JUGLANS sp. - Walnut		T						
J. nigra - Black Walnut				T				T
JUNIPERUS sp. - Juniper	T	T	T		T	T	T	
J. chinensis - Pfitzer Juniper				T				T
J. conferta - Shore Juniper				T				T
J. virginicus - Eastern Red Cedar			T	T			T	T
KALMIA sp. - Laurel		T	T					
K. latifolia - Mountain Laurel				T				T
KOELREUTERIA paniculata - Golden Rain Tree			T					
KOLKWITZIA amabilis - Beauty Bush			T					
LARIX leptolepis - Larch								T
LEUCOTHOE sp. - Leucothoe			T	T				
LIGUSTRUM sp. - Privet		T	T			T		
L. erectum - Ligustrum				T				T
L. japonicum - Ligustrum				T				T
L. odoratissimum - Ligustrum								T
L. ovalifolium - California Privet								T
LIQUIDAMBAR styaciflua - Sweetgum				T				T
LIRIODENDRON tulipifera - Tulip Tree		T		T				T
LONICERA sp. - Honeysuckle		T	T	T			T	T
MAGNOLIA sp. - Magnolia		T	T		T	T		
MAHONIA sp. - Mahonia							T	
MALUS sp. - Crabapple		T	T	T				T
NANDINA domestica - Nandina			T			T		
NYSSA sylvatica - Sourgum		T		T				T
OSMANTHUS sp - Osmanthus			T			T		
PACHYSANDRA terminalis - Pachysandra		T						
PHILADELPHUS sp. - Mockorange		T	T					
P. lemoinei - Lemoine Mockorange				T				T
PHOTINIA serrulata - Chinese Photenia			T					
PICEA sp. - Spruce		T	T		T			
P. abies - Norway Spruce	T			T			T	T
P. glauca - White Spruce				T			T	T
P. pungens - Colorado Spruce				T			T	T
P. rubra - Red Spruce	T						T	
PINUS sp. - Pine		T	T		T	S		
P. mughus							T	
P. nigra - Austrian Pine				T			T	T
P. resinosa - Red Pine	T			T			T	T
P. strobus - White Pine				T			T	T
P. sylvestris - Scotch Pine				T			T	T
P. taeda - Loblolly Pine				T				T
P. thunbergi - Japanese Black Pine								T

\* Except I. crenata, I. rotunda, I. vomitoria

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Plant Species	Amizine	DCPA	Dichlobenil	Diphenamid	EPTC	Norea	Simazine	Trifluralin
PLATANUS acerifolia - London Planetree				T				T
P. occidentalis - Sycamore	T			T				T
P. orientalis - Oriental Plane Tree		T						
POPULUS sp. - Poplar		T	T					
P. deltoides - Cottonwood			T	T				T
PRUNUS sp. - Cherry, Peach, Plum			T					T
P. caroliniana - American Cherry-Laurel				T				
PSEUDOSUGA taxifolia - Douglas Fir				T			T	T
PYRACANTHA sp. - Firethorn	T		T	T		T		T
QUERCUS sp. - Oak		T	T		T			
Q. coccinea - Scarlet Oak				T				T
Q. palustris - Pin Oak				T				T
Q. rubra - Red Oak				T			T	T
RHODODENDRON sp. - Rhododendron		T	T		T	S		
R. indicum - Azalea				T				T
R. obtusum - Rhododendron				T				T
RIBES sp. - Currants				T				
ROBINIA pseudoacacia - Black Locust								T
ROSA sp. - Rose		T	T		T			
SALIX sp. - Willow		T	T	T				T
SORBUS aucuparia - European Mountain Ash			T					
SPIRAEA sp. - Spirea		T	T			T		
S. vanhouttei - Vanhoutte Spirea				T				T
S. vulgaris - Spirea				T				
SYRINGA sp. - Lilac		T	T		T			
S. vulgaris - Purple Lilac				T				T
TAXODIUM distichum - Bald Cypress		T		T				T
TAXUS sp. - Yew	T	T	T		T	T	T	
T. cuspidata - Spreading Japanese Yew				T				T
T. media - Upright Yew				T				T
THUJA sp. - Arborvitae	T	T	T			T	T	
T. occidentalis - American Arborvitae				T				T
TILIA sp. - Linden			T		T			
TSUGA canadensis - Canadian Hemlock	T			T	T	T	T	T
ULMUS sp. - Elm		T	T					
U. americana - American Elm	T						T	
VIBURNUM sp. - Viburnum	T	T	T		T			
V. odoratissimum - Sweet Viburnum				T				T
V. plicatum - Japanese Snowball				T				
V. suspensum - Sandankwa Viburnum				T				T
V. tomentosum - Japanese Snowball				T				T
V. wrighti - Wright Viburnum				T				T
VINCA minor - Periwinkle or Myrtle								
WEIGELA sp. - Weigela		T	T	T				T

Trade and brand names are used only for the purpose of information and the Virginia Cooperative Extension Service does not guarantee nor warrant the standard of the product, nor does it imply approval of the product to the exclusion of others which may also be suitable.

#### KEYS TO PROPER USE OF PESTICIDES

1. Read the label on each pesticide container before each use. Follow instructions to the letter; heed all cautions and warnings, and note precautions about residues.
2. Keep pesticides in the containers in which you bought them. Put them where children or animals cannot get to them, preferably under lock and away from food, feed, seed, or other material that may become harmful if contaminated.
3. Dispose of empty containers in the manner specified on the label. If disposal instructions are not printed on the label, burn the containers where smoke will not be a hazard, or bury them at least 18" deep in a place where water supplies will not be contaminated.

SEE YOUR DOCTOR IF SYMPTOMS OF ILLNESS OCCUR DURING OR AFTER USE OF PESTICIDES.