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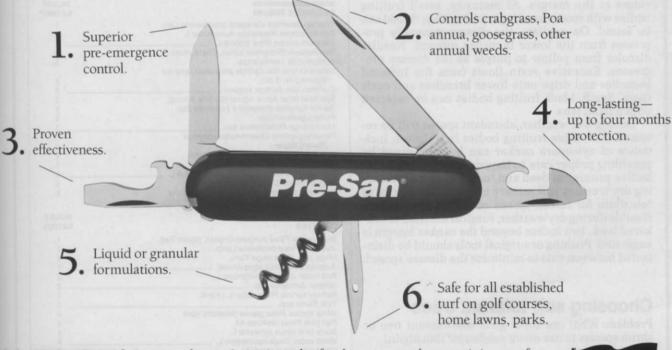
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	DVERTISER PAGE NO.	NO.	ADVERTISER PAGE NO.
101	Aglukon Agri-Products 34		63
176	Atwater Strong98	137	Kawasaki Motor Corp 77
102	Aquatrols Corp. of	233	Kut Kwick53
100	America	139	Lebanon Chemical Corp.
103	Barebo, Inc 99	110	93
104	Berker-Underwood, Inc 64	140	Lesco Inc CV3
105	Inc	141	Lofts Seed, Inc CV4
105	Brouwer Turf Equipment 92	142	Mazda Motors of America67
106	Brouwer Turf Equipment	143	Melroe Co
100	111	144	Milwaukee Metro
107	Brouwer Turf Equipment	177	Sewerage Commission 85
101	45	147	Mobay Corp./Dylox15
118	Charles Machine Works,	146	Mobay Corp./Dyrene79
		145	
119	Inc		Mobay Corp./Nemacur (Regional)91 Mobay Corp./Oftanol
	Inc	148	Mobay Corp./Oftanol
120	Charles Machine Works,		(Regional) 100-101
	Inc	149	Mobay Corp./Oftanol 43
108	Ciba Geigy Corp./		Nissan Motor Corp.
	Ciba Geigy Corp./ Pace58-59		Nissan Motor Corp. in U.S.A20-21
109	Ciba Geigy Corp./	151	Nor Am Chemical Co 55
	Ciba Geigy Corp./ Subdue (Regional) . 100-101	152	Northrup King Co 17
175	Conwed Fibers90	153	Olathe Manufacturing,
110	Cub Cadet Power	-	Inc
	Equipment87	154	Inc
111	Cushman Motors33		Bensummec
112	Cushman Motors23	155	PBI Gordon Corp./ Dyclomec12-13
113	Ryan/Spotseeder57	477	Dyclomec12-13
114 115	Deere and Co., John 2-3 Deere and Co., John 28-29	177	PBI Gordon Corp./ Trimec104-105
116	Dixon Industries, Inc 69	156	Precision Laboratories,
117	Dow Chemical Co 24-25	150	Inc34
121	Flanco Products Co /	157	RGB Laboratories, Inc 83
121	Elanco Products Co./ Cutlass	273	Ransomes, Inc 81
122	Elanco Products Co./	158	Rhone Poulenc Ag Co./
1	Rubigan		Aliette31
123	Elanco Products Co./ Rubigan	159	
	Surflan		Chipco6-7
124	Elanco Products Co./	160	Rhone Poulenc Ag Co./
	Rubigan		Sevin89
125	Elanco Products Co./ Sonar75	161	Sandoz Crop Protection
	Sonar	16.0	Corp71
126	Elanco Products Co./	162	Seirra Chemical Co65
	Sonar94-95	163	Seirra Chemical Co 115
127	Exmark Manufacturing	164	Scott Proturf, O.M 36-37
400	Co.,Inc 96	165	Spraying Systems Co 19
128	Ford New Holland, Inc 39	167	
129	Foresight Products, Inc 86	100	26
130	G.E. Mobile Commun	166	Tee 2 Green Corp CV2
121	ications	168	
131	Grasshopper Co 78	169	
133	Gravely International,	170	Turfco Manufacturing
100	Inc	170	Turfco Manufacturing, Inc
134	Howard Price Turf	171	Turfco Manufacturing,
104	Howard Price Turf Equipment 49		Inc
135	International Lawn and	172	
	Power Equipment 109	173	
136	Jacobsen Div. of Textron	174	

This index is provided as an additional service. The publisher does not assume any liability for errors or omissions.

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## PROBLEM MANAGEMENT

by Balakrishna Rao, Ph.D.

#### Replacing disease-infected trees

Problem: We are dealing with a number of blue spruce trees planted in a row around house property for privacy. These plants are now severely infected with cytospora canker. They would like for us to remove them and replace them with either hemlock or Norway spruce.

We are not sure whether it is a good idea or not. Would you please make comments on this as well as any other suggestions for future plantings. (New

York)

Solution: Several different species of cytospora fungus can cause canker and/or twig blight disease on a large number of deciduous trees and shrubs as well as a few species of conifers. Mountain ash, maples, willows and poplar plants are the most common deciduous hosts to this disease.

Cytospora canker disease on blue spruce is caused by Cytospora kunzei. The latter species of cytospora is reported to cause canker disease on a number of conifers such as cedars, firs, hemlocks, larch, pines, blue spruce, Norway spruce and white spruce. Therefore, it is not a good idea to plant these

trees in the same location.

This disease produces different symptoms on deciduous and on conifer hosts. On deciduous trees, elongate sunken cankers are produced on the trunk or branches, generally at a branch stub or mechanical wound. Cankers may appear cracked with callus ridges at the margin. At maturity, small fruiting bodies with spores exuding out like a thin thread can be found. On conifers, the disease generally progresses from the lower branches upward. Needles discolor from yellow to purple as the disease progresses. Excessive resin flows from the infected branches and drips onto lower branches and coats them. Small, black fruiting bodies can be detected with a hand lens.

During wet weather, abundant spores will be released from these fruiting bodies in a thread. Incidence of cytospora canker can be minimized by providing proper care to improve plant vitality. Selective pruning of dead and/or dying branches during dry weather will remove an important source of inoculum for future spread of the disease. Where feasible during dry weather, surgical excision of cankered bark, two inches beyond the canker margin is suggested. Pruning or surgical tools should be disinfected between cuts to minimize the disease spread.

#### **Choosing salt-tolerant trees**

**Problem:** What are some good salt-tolerant tree or shrub species to use along roadways? (Michigan)

Solution: The following list of plants obtained from a fact sheet entitled Salt Injury to Roadside Plants from the Ministry of Agriculture and Food, Ontario, Canada, might be helpful in dealing with the salt problem. Although the findings are for Canadian situations, it is likely that similar results will be obtained in your area.

Norway maple Acer platanoides L. Horse-chestnut Aesculus hippocastanum L. Tree of Heaven Allanthus altissima (Mill.) Swing. Honeylocust Gleditsia triacanthos L. inermis Willd. Cottonwood Populus deltoides Bartr. Black locust Robinia pseudoacacia L. Shagbark hickory Carya ovata (Mill.) K. Koch Russian-olive Elaeagnus angustifolia L. White ash Fraxinus americana L. Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L. 'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala Red maple Acer ginnala	JURY TING*
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Honeylocust Gleditsia triacanthos L. inermis Willd. Cottonwood Populus deltoides Bartr. Black locust Robinia pseudoacacia L. Shagbark hickory Carya ovata (Mill.) K. Koch Russian-olive Elaeagnus angustifolia L. White ash Fraxinus americana L. Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L. 'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	1
Cottonwood Populus deltoides Bartr. Black locust Robinia pseudoacacia L. Shagbark hickory Carya ovata (Mill.) K. Koch Russian-olive Elaeagnus angustifolia L. White ash Fraxinus americana L. Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L. 'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	1
Black locust Robinia pseudoacacja L. Shagbark hickory Carya ovata (Mill.) K. Koch Russian-Olive Elaeagnus angustifolia L. White ash Fraxinus americana L. Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L. 'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	1
Shagbark hickory Carya ovata (Mill.) K. Koch Russian-olive Elaeagnus angustifolia L. White ash Fraxinus americana L. Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L. 'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	1
Russian-olive Elaeagnus angustifolia L. White ash Fraxinus americana L. Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L. 'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	2
White ash Fraxinus americana L. Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L. 'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	2
Largetooth aspen Populus grandidentata Michx. Lombardy poplar Populus nigra L.  'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L. Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	2
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'Italica' Muenchh. Trembling aspen Populus tremuloides Michx. Choke cherry Prunus virginiana L Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	
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Pear Pyrus sp. Red Oak Quercus rubra L. Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	2
Red Oak <i>Quercus rubra</i> L.  Mountain-ash <i>Sorbus aucuparia</i> L.  Amur maple <i>Acer ginnala</i>	2 2 2 2
Mountain-ash Sorbus aucuparia L. Amur maple Acer ginnala	2
Amur maple Acer ginnala	2
	3
	3
Silver maple Acer saccharinum L.	3
Sugar maple Acer saccharum Marsh.	2 3 3 3 3 3
Paper birch Betula papyrifera Marsh.	3
Gray birch Betula populifolia Marsh.	3
Northern catalpa Catalpa speciosa Warder.	3
Quince Cyonia oblonga Mill.	3
Green ash Fraxinus pennsylvanica Marsh.	
lanceolata (Borkh.) Sarg.	3
Black walnut Juglans nigra L.	3
English walnut Juglans regia L.	3
Black willow Salix nigra Marsh.	3
Basswood Tilia americana L.	3
White elm Ulmus americana L.	3
Siberian elm Ulmus pumila L.	3 3 3
Manitoba maple Acer negundo L.	4
Allegheny serviceberry Amelanchier laevis Wieg.	4
Hawthorn Crataegus spp.	A
Apple Malus sp.	4
Crabapple Malus spp.	4
Mulberry Morus sp.	4
Peach Prunus persica (L.) Batsch	4
Weeping golden willow Salix alba L. 'Tristis' Gaud.	4
American beech Fagus grandifolia Ehrh.	
randitouri beeen rague granditolla ciliti.	5

DECIDUOUS SHRUBS	INJURY RATING*
Siberian peashrub Caragana arborescens Lam.	1
Sea-buckthorn Hippophae rhamnoides L.	1
Staghorn sumac Rhus typhina L.	1
Burningbush Euonymus alatus (Thunb.) Sieb.	2
Honeysuckle Locicera spp.	2
Japanese tree lilac Syringa amurensis japonica	
(Maxim.) Fr. & Sav.	2
Common lilac Syringa vulgaris L.	2
Speckled alder Alnus rugosa (Du Roi) Spreng.	3
Border forsythia Forsythia x intermidia Zab.	3
Privet Ligustrum spp.	3
Mockorange Philadelphus spp.	3
Flowering-quince Chaenomeles speciosa (Sweet) Nakai	4
Beautybush Kolkwitzia amabilis Graebn.	4
Bumalda spirea Spirea x bumalda Burv.	4
European cranberry-bush Viburnum opulus L.	4
Gray dogwood Cornus racemosa Lam.	5
Red-osier dogwood Cornus stolonifera Michx.	5

CONIFERS	INJURY
Blue spruce Picea pungens Englem. glauca Reg. Jack pine Pinus banksiana Lamb. Mugo pine Pinus mugo Turra. Austrian pine Pinus nigra Arnold	1
Red cedar Juniperus virginiana L. Juniper Juniperus spp.	2 2
Norway spruce Picea abies (L.) Karst. Yew Taxus spp.	3 3
White spruce Picea glauca (Moench) Voss Red pine Pinus resinosa Ait.	4 4
Scots pine Pinus sylvestris L. White cedar Thuja occidentalis L.	4
White pine pinus strobus L. Hemlock Tsuga canadensis L.	5 5

A rating of 1 indicates no twig dieback or needle browning of conifers and no dieback, tufting, or inhibition of flowering of deciduous trees and shrubs. Ratings of 5 represent complete branch dieback and needle browning of conifers, and complete dieback, evidence of previous tufting, and lack of flowering of deciduous trees and shrubs. Under severe conditions plants rated 5 will eventually die. Ratings of 2, 3 and 4 encompass slight, moderate and extensive gradations of the above injury symptoms.



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