

GUIDE TO SELECTED PLANTS AND THE KEY TIMES TO CONTROL DISEASES

The plants marked ◇ are considered Key Plants (those that usually have diseases each year). The plant diseases marked ◇ are the key diseases that most commonly occur in Pennsylvania.

Abbreviations of suggested control techniques to employ at each key management time:

* Only if the disease has been severe.

BSp Begin spray schedule; discontinue when weather dries.

CSp Continue spraying if wet; discontinue when weather dries.

D Apply soil drench fungicides.

F Fumigate before planting.

I Irrigate to prevent drought stress.

NAC No adequate control available.

NT No treatment required.

P Prune.

R Rake and destroy fallen leaves.

X Remove infected plant.

	Dormant	Bud break	Summer	Autumn
Arborvitae (<i>Thuja</i>)				
Kabatina twig blight	P	BSp		BSp
Phomopsis twig blight	P	BSp		BSp
Root rot			D	
◇ Ash (<i>Fraxinus</i>)				
◇ Anthracnose				R

	Dormant	Bud break	Summer	Autumn
◇ Azalea (<i>Rhododendron</i>)				
Botrytis blight		BSp		
◇ Leaf gall		P-BSp*		
Leaf spots		BSp		R
Nematodes				F
Ovulinia flower blight		BSp		
Phytophthora dieback	P	BSp	CSp	CSp-P
◇ Powdery mildew			BSp	CSp
◇ Root rots		D	D	F
Boxwood (<i>Buxus</i>)				
Canker	P	BSp		BSp
Macrophoma leaf spot	P		I	
Nematodes				F
Root rot				F
Catalpa (<i>Catalpa</i>)				
Leaf spots				R
Powdery mildew				NT
Verticillium wilt				NAC
◇ Cherry (<i>Prunus</i>)				
Bacterial leaf spot		NAC		
◇ Black knot	P-X*			
◇ Cocomyces leaf spot			BSp	
Chestnut (<i>Castanea</i>)				
◇ Blight	P-X*			
Leaf spot				R
Cotoneaster (<i>Cotoneaster</i>)				
◇ Fire blight	P			
Scab		BSp	CSp	
◇ Crabapple (<i>Malus</i>)				
◇ Cedar-apple rust				NT
◇ Fire blight	P-BSp*	CSp*		CSp*
Powdery mildew				NT
◇ Scab		BSp	CSp	R
◇ Dogwood (<i>Cornus</i>)				
◇ Anthracnose	P-X*	BSp	CSp-I	P-I
Bacterial leaf scorch	NAC			
◇ Powdery mildew			Bsp	CSp
Septoria leaf spot		BSp	CSp	
Douglas-fir (<i>Pseudotsuga</i>)				
Rhabdocline needlecast		BSp		
Swiss needlecast		BSp		
◇ Elm (<i>Ulmus</i>)				
Bacterial leaf scorch	NAC			
◇ Botryodiplodia canker	P		I	I
◇ Dutch elm disease			X	X
◇ Black leaf spot			NT	R
Phloem necrosis			X	
◇ Wetwood			NT	
Euonymus (<i>Euonymus</i>)				
Anthracnose		BSp	CSp	R
Crown gall	P-X*			
◇ Powdery mildew			Bsp	
Root rot			D	
Forsythia (<i>Forsythia</i>)				
Crown gall	P-X*			

	Dormant	Bud break	Summer	Autumn		Dormant	Bud break	Summer	Autumn
Hackberry (<i>Celtis</i>)					Pieris (<i>Pieris</i>)				
Witches' broom	P				Phytophthora dieback	P	BSp	CSp	CSp-R
◇ Hawthorn (<i>Crataegus</i>)					Root rot			D	F
◇ Fire blight	P				◇ Pine (<i>Pinus</i>)				
◇ Leaf spot		BSp*	CSp*		◇ Sphaeropsis tip blight	P	BSp-P		
◇ Rust		BSp*			Needle blights		BSp		
Holly (<i>Ilex</i>)					◇ Cyclaneusma needlecast		BSp	CSp	CSp
Nematodes				F	Lophodermium needlecast			BSp	
Thielaviopsis root rot			D		Ploioderma needlecast		BSp	CSp	
Honeysuckle (<i>Lonicera</i>)					Root rots			D	F
Powdery mildew				BSp	Gall and cankering rusts	P-X*	BSp		
◇ Ivy, Boston (<i>Parthenocissus</i>)					Pyracantha (<i>Pyracantha</i>)				
◇ Black rot		BSp	CSp	CSp	Fire blight	P			
◇ Ivy, English (<i>Hedera</i>)					Scab		BSp	CSp	
◇ Fungal leaf spot	P	BSp	CSp		Rhododendron (<i>Rhododendron</i>)				
◇ Bacterial leaf spot	P	BSp	CSp		◇ Botryosphaeria dieback	P		I	I
◇ Juniper (<i>Juniperus</i>)					◇ Cercospora leaf spot		BSp*	CSp*	R
◇ Cedar-apple rust	P-X*			BSp	Ovulinia flower blight		BSp		R
◇ Cedar-quince rust	P-X*			BSp	◇ Phytophthora dieback	P	BSp	CSp	CSp
◇ Kabatina twig blight	P	BSp		BSp	◇ Root rot			D	F
◇ Phomopsis twig blight	P	BSp		BSp	◇ Rose (<i>Rosa</i>)				
Root rot	X*		D		◇ Black spot	P	BSp	CSp	CSp-R-P
Leucothoe (<i>Leucothoe</i>)					◇ Cankers	P-X*			
Leaf spot		BSp	CSp		◇ Powdery mildew			BSp	CSp
Root rot		D			Rust	P-R	BSp	CSp	R
◇ Lilac (<i>Syringa</i>)					◇ Spruce (<i>Picea</i>)				
Bacterial leaf blight	P				◇ Cytospora canker	P	NAC		
◇ Powdery mildew			BSp	CSp	Needlecast		BSp		
Witches' broom	NAC,X				Needlerust	X*	X*	X*	X*
Maple (<i>Acer</i>)					◇ Sycamore (<i>Platanus</i>)				
Anthraxnose				P-R	◇ Anthracnose	P			R
Bacterial leaf scorch	NAC				◇ Bacterial leaf scorch	NAC			
Bleeding canker				NAC,X*	◇ Canker stain	X	X	X	X
Leaf spots				NT	◇ Powdery mildew				NT
◇ Verticillium wilt				NAC,X*	Viburnum (<i>Viburnum</i>)				
Mountain-ash (<i>Sorbus</i>)					Leaf spot				R
Cytospora canker	P		I		Vinca (<i>Vinca</i>)				
Fire blight	P				Blight	X*	BSp	CSp	X*
Leaf spot		BSp*		R	Walnut and Butternut (<i>Juglans</i>)				
Mountain laurel (<i>Kalmia</i>)					Anthraxnose	P			R
Leaf spot		BSp*	CSp*	R	Bacterial blight		BSp		
◇ Oak (<i>Quercus</i>)					Willow (<i>Salix</i>)				
◇ Anthracnose				R	Crown gall	P-X*			
◇ Bacterial leaf scorch	NAC				Leaf blight	P			R
Decline			I						
◇ Leaf blister	BSp*			J					
◇ Wilt									
◇ Pachysandra (<i>Pachysandra</i>)									
◇ Volutella blight	X	BSp	CSp,I	X					
Pear (<i>Pyrus</i>)									
Fire blight	P-BSp*	CSp	CSp						
Scab		BSp	CSp						