

INSECT & DISEASE CONTROL WITHOUT CHEMICALS

HUMBER NURSERIES 'GREEN THUMB GUIDE'



INSECTS

We often forget that many insects found in our gardens are beneficial and may even be eliminating harmful bugs. Preventing insect problems from arising is usually the best approach, but it does require planning and effort. Keeping your yard clear of debris (such as leaves or fallen fruit) can eliminate food sources, and nesting spots.

All insects are part of the eco-system and they each play a role of some kind, but action may be required when we have an infestation.

With changes made to the Pesticide Act (effective April 22, 2009), your treatment options have changed. For details beyond what we can list here, please go to www.Ontario.ca/pesticideban.

Each situation is different and no one solution is necessarily the right one. We should realize that Mother Nature responds to population explosions of any organism, though more slowly than treatments. Its response is usually an offsetting explosion of predator populations, but this may take months or even years to occur. It should be noted that many organic or safe solutions require multiple applications and may not be effective on some insects.

Please refer to Green Thumb Guide GT 337 8 - Companion Plants That Deter Insects, for more information on what insects are attracted or deterred by specific plants.

Insects	Approved Treatments
Ants	Borax, Diatomaceous Earth, Ant Traps, Permethrins
Aphids	Insecticidal Soap, Diatomaceous Earth, Sticky Strips, Safers 3-in-1
Bedbugs	Diatomaceous Earth, Hot Water Washing
Beetles	Diatomaceous Earth
Caterpillars	BTK, Nematodes
Chinch Bug	Nematodes, Diatomaceous Earth

Insects	Approved Treatments
Cockroaches	Borax, Diatomaceous Earth
Crickets	Diatomaceous Earth
Cutworms	Nematodes
Earwigs	Insecticidal Soap, Diatomaceous Earth, Safers 3-in-1
Fleas	Borax, Diatomaceous Earth
Grubs	Nematodes
Leafhoppers	Insecticidal Soap, Diatomaceous Earth
Leaf Miner	Nematodes
Leaf Rollers	Horticultural Oil
Mealy Bugs	Insecticidal Soap, Horticultural Oil, Safers 3-in-1
Millipede, Centipede	Diatomaceous Earth
Mites	Insecticidal Soap, Sulphur
Scale	Insecticidal Soap, Horticultural Oil, Safers 3-in-1
Silverfish	Borax, Diatomaceous Earth
Snails & Slugs	Diatomaceous Earth, Copper, Slug & Snail Bait
Sowbugs	Diatomaceous Earth
Thrips	Sticky Strips
Wasps	Diatomaceous Earth, Wasp Traps
Whitefly	Insecticidal Soap, Horticultural Oil, Sticky Strips, Safers 3-in-1

DISEASES

It may seem strange to think that plants get fungal, bacterial, and viral infections, but diseases are all around us in the soil, water, and air.

A common misconception is that the plant is somehow to blame, by being weak or of poor quality. The fact is that plants are like people; even healthy ones can become ill.

A healthier plant is more likely to resist some diseases and certain varieties have been found to be more disease resistant than others. Some diseases occur only occasionally, while others may return year after year. This can be due to environmental or climatic conditions and/or the nature of the specific variety of plant.

Matching the correct plant to the conditions you have gives it the best chance of being strong and healthy. By looking at things like temperature, soil condition, drainage, available light and airflow, you can avoid stressing the plant and making it more susceptible to infection. Keeping your yard clean and tidy will also remove a potential breeding ground for diseases.

If disease does occur, don't panic - they are rarely fatal to the plant. Try to bring a fresh sample of the leaf or branch to Humber Nurseries for identification. We will provide solutions to the more common diseases you may encounter in your garden.



Disease	Approved Treatment
Anthraco-nose	Garden Sulphur, Lime Sulphur, Bordo
Blight	Garden Sulphur, Bordo
Blister	Lime Sulphur
Black Knot	Dormant Spray, Lime Sulphur
Black Rot	Garden Sulphur, Lime Sulphur, Bordo
Black Spot	Garden Sulphur, Safers 3-in-1, Bordo, Bio-Fungicide
Blossom End Rot	Calcium based fertilizer, Bone Meal
Leaf Mould	Garden Sulphur, Bordo
Leaf Spot	Garden Sulphur, Bordo
Powdery & Downy Mildew	Garden Sulphur, Lime Sulphur, Safers 3-in-1, Bio-Fungicide
Peach Leaf Curl	Lime Sulphur, Bordo
Rust	Garden Sulphur, Lime Sulphur, Copper Sulphate, Safers 3-in-1, Bordo
Scab	Garden Sulphur, Lime Sulphur, Bordo



✘ HUMBER NURSERIES LTD.

Ontario's Largest Garden Centre

8386 Hwy 50, Brampton, Ontario L6T 0A5

Ph: 416-798-TREE (8733) Ph: 905-794-0555 Fax: 905-794-1311

www.humburnurseries.com humber@gardencentre.com

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It's our future.**



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