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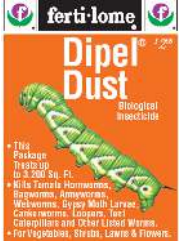
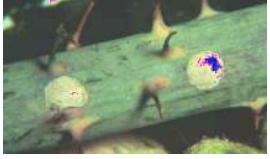

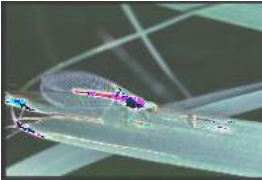
Before considering any type of pest management, it is critical to identify the pest or disease before trying to treat it. Often times solutions exist that can control the pest or disease with simple environmental changes. Easy changes in watering schedule or application can affect plant health. To be sure that you are treating your plant correctly, we recommend you bring a piece of the affected plant in to one of our trained professionals. **Always read the label** on any product you use on your garden for specific pests, time of application and particular warnings. One last consideration, pesticides are not selective and will kill off the beneficial bugs in your garden. By managing pest control wisely and treating for damaging insects and diseases only when necessary, your garden will reward you with beautiful results.

Herbaceous Perennials-plants without woody growth

 <p>Aphids-Clusters of tiny pear shaped insects on stems and leaf petiole</p>	<p>Organic Control: Wash off with hose, homemade garlic spray or hot pepper spray</p>	 <p>Biologic Control: Ladybird Beetles (Lady Bug)</p>	<p>Insecticide: Horticulture Oil, Neem Oil, Fertilome's Triple Action Plus</p>	<p>Insecticidal Soap: Safer Soap</p>
 <p>Mealybug-White, cottony masses of insects, often secrete honeydew</p>	<p>Organic Control: Wash off with hose</p>	 <p>Biologic Control: Ladybird Beetles (Lady Bug), Praying Mantis, Lacewings</p>	<p>Insecticide: Horticulture Oil, Neem Oil, Fertilome's Triple Action Plus</p>	<p>Insecticidal Soap: Safer Soap</p>




 <p>Scale-Oval shaped insects, some armored, often secrete honeydew</p>	<p>Organic Control: Pick or scrub off or remove with cotton swab dipped in alcohol.</p>	 <p>Biologic Control: Ladybird Beetles, (Lady Bug), parasitic wasps</p>	<p>Insecticide: Fertilome's Scalecide & Dormant Oil</p>	<p>Insecticidal Soap: Safer Soap when in crawler stage, not effective on adults</p>
 <p>Slugs & Snails-grey or tan & slimy</p>	<p>Organic Control: Crushed eggshell, Diatomaceous Earth, hand picking, salting</p>	 <p>Biologic Control: Encourage birds, toads and lizards in your garden</p>	<p>Insecticide: Fertilome's Eliminate Snails & Slugs</p>	<p>Insecticidal Soap: Spray directly on slugs for best results</p>
 <p>Spider Mites-dot sized spiders on underside of yellowing leaves, webbing</p>	<p>Organic Control: Wash off with hose, add organic mulch to encourage predatory mites.</p>	 <p>Biologic Control: Green and brown lacewings, predatory mites</p>	<p>Insecticide: Fertilome's Triple Action Plus, Fertilome's Rose, Flower & Vegetable Spray</p>	<p>Insecticidal Soap: Safer Soap-repeat weekly until infestation controlled</p>
 <p>Thrips-Very tiny oblong shaped insects in buds, petals</p>	<p>Organic Control: Yellow Sticky Traps, Strong spray of water repeated 3 days</p>	 <p>Biologic Control: Green and brown lacewings, Ladybird Beetles (Lady Bug)</p>	<p>Insecticide: Fertilome's Triple Action Plus RTU, Neem Oil</p>	<p>Insecticidal Soap: Safer Soap-repeat weekly until infestation controlled</p>

Roses

 <p>Aphids- Clusters of tiny pear shaped insects on stems and leaf petiole, deformed growth</p>	<p>Organic Control: Strong spray of water repeated 3 days, homemade garlic spray or mix ½ water & ½ Listerine & spray</p>	 <p>Biologic Control: Ladybird Beetles (Lady Bug), Lacewing larvae</p>	<p>Insecticide: Fertilome's Systemic Insecticide Granules, Dormant Spray and Summer Oil Spray</p>	<p>Insecticidal Soap: Safer Soap-repeat weekly until infestation controlled</p>
 <p>Cane Borers- Larvae of Sawflies makes a small hole in rose cane</p>	<p>Organic Control: Observation & removal of canes with damage, place a small bit of glue over newly pruned canes to prevent</p>	 <p>Biologic Control: Dust with Bacillus thuringiensis (BT)</p>	<p>Insecticide: Fertilome's Systemic Insecticide Granules, Rose Defense</p>	<p>Insecticidal Soap: Not effective on burrowed larvae</p>
 <p>Rose Scale- Oval shaped insects, some armored, often secrete honeydew</p>	<p>Organic Control: Consistently prune rose to remove infested canes</p>	<p>Biologic Control: Some beetles and parasitic wasps-not effective on adult population. Best remedy prune and spray with Dormant Oil in late winter</p>	<p>Insecticide: Fertilome's Scalecide & Dormant Oil, Bayer Advanced Garden Rose & Insect Killer</p>	<p>Insecticidal Soap: Safer Soap when in crawler stage, not effective on adults due to armor</p>
 <p>Spider Mites- dot sized spiders on underside of yellowing leaves, webbing</p>	<p>Organic Control: Wash off with hose 2-3 times weekly-plants stressed by drought are more tasty to mites</p>	 <p>Biologic Control: Green and brown lacewings, predatory mites</p>	<p>Insecticide: Horticulture Oil, Neem Oil, Bayer Advanced Garden 2 in 1 Rose & Flower</p>	<p>Insecticidal Soap: Safer Soap-repeat weekly until infestation controlled</p>

 <p>Thrips- Very tiny oblong shaped insects in buds or petals, bud dies and drops</p>	<p>Organic Control: Yellow Sticky Traps, Strong spray of water repeated 3 days</p>	 <p>Biologic Control: Green and brown lacewings, Ladybird Beetles (Lady Bug)</p>	<p>Insecticide: Bayer Advanced Garden 2 in 1 Rose & Flower Concentrate</p>	<p>Insecticidal Soap: Safer Soap-repeat weekly until infestation controlled</p>
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Plant Diseases

 <p>Black Spot- Black spots on leaf caused by fungus</p>	<p>Organic Control: Increase air circulation by pruning, water early in the day, water at root level</p>	<p>Fungicide: Add Baking Soda to Horticultural Oil- 1 Tbs of each to 1 Gal. water</p>	<p>Pesticide: Neem Oil</p>	<p>Preventative: Wilt Pruf acts as an anti-transpirant prevents spores from entering plant</p>
 <p><small>Powdery Mildew on the foliage.</small> Powdery Mildew- White, powdery-like coating on plant parts caused by fungus</p>	<p>Organic Control: Increase air circulation by pruning, water early in the day, spray with baking soda, or a mixture of 20% skim milk with water</p>	<p>Fungicide: Add Baking Soda to Horticultural Oil- 1 Tbs of each to 1 Gal. water</p>	<p>Pesticide: Neem Oil</p>	<p>Preventative: Wilt Pruf acts as an anti-transpirant prevents spores from entering plant</p>
 <p>Rust-Rust colored spots on underside of leaf, easily wiped off, caused by fungus</p>	<p>Organic Control: Pick off and destroy infected leaves, increase air circulation by pruning, water at root level</p>	<p>Fungicide: Bayer Advanced All in One Rose and Flower Concentrate, Fertilome's Systemic Fungicide</p>	<p>Pesticide: Neem Oil</p>	<p>Preventative: Wilt Pruf acts as an anti-transpirant prevents spores from entering plant</p>

Information gathered from Cooperative Extension Service, Organic Gardening Magazine, Bayer Advanced, Fertilome, Growing Roses the Natural Way by Mark Whitelaw and Backyard Gardener.com.

The term R.E.I means restricted entry interval- this is the recommended time that should pass before working around or harvesting any plant that has been treated with a pesticide. The products mentioned in this handout have R.E.I's of less than 12 hours. **Please Always read the label** before using any product.