

EXTENSION

## BACKYARD APPLE & PEAR PEST MANAGEMENT CHART

For Central Washington

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Pests listed here do not necessarily require control each and every year. Fruit tree pest history and monitoring your tree's health & fruit quality are better indicators of the need to control. Choose non-chemical management as your first choice. Some pests may require pesticide sprays to provide supplemental control. Homeowners must refer to the pesticide label before they purchase & apply a pesticide to confirm that the product may be applied to backyard fruit trees.

PEST PROBLEM	CROPS	<b>PRODUCTS*</b>	MANAGEMENT GUIDELINES AND APPLICATION TIMINGS
Spider or Red Mites		Horticulture/	In most seasons, mites are controlled by natural enemies such as predatory mites. If mite damage was
Mite populations can build up by late		Petroleum oils	experienced in the previous season, apply horticultural oils at the dormant to delayed dormant (February
spring or summer. Mite feeding on the	Apple,	-or-	& March) to control overwintering European red mite eggs.
leaf surface can cause yellowing and	Pear	Insecticidal	During the growing season, conserve natural enemies by avoiding broad-spectrum insecticides.
premature leaf drop. Webbing may be		soaps	Insecticidal soaps may require multiple applications and thorough coverage especially on undersides of
present on leaves and shoots.		-or-	leaves. Avoid tree stress, especially improper irrigation. Mites may be washed off trees by heavy rains
		Azadirachtin	or with several applications of a strong stream of water.
Aphids		Horticultural/	Aphid may be associated with vigorous growth on young trees. If aphids were a problem in previous
-		Petroleum oils	season, apply horticultural oils at the dormant to delayed-dormant to control overwintering aphid eggs.
Aphid populations can build up		-or-	
throughout spring. Aphid feeding		Insecticidal	Aphids are controlled by natural enemies like lady beetles and lacewings. Conserve natural enemies by
results in sticky honeydew, leaf curling,	Apple,	soaps,	avoiding broad spectrum insecticides. Most aphid species leave fruit trees for summer plant hosts.
shoot malformation and even tree	Pear	Azadirachtin,	Homeowners can prune out heavily infested shoots and water sprouts. Homeowners can wash aphids from
stunting.		or Malathion	tree with strong stream of water. For best results, apply products before infested leaves curl up.
		-or-	This systemic product is applied to the ground around the base of the tree. Best applied in the autumn if
		Imidacloprid	aphids become a problem during the growing season. One application provides 12-month control.
Scale Insects		Horticultural/	Scale insect populations can take years to build to damaging levels. If scale problems are experienced in
Scale insect feeding results in sticky	Apple,	Petroleum oils	previous season, apply horticultural oils at the dormant season (with or without sulfur products) to control
honeydew and can devitalize and kill	Pear	+ Sulfur product	any overwintering scale insect on fruit tree.
twigs and branches. Scales may attach			
to fruit surface causing blemishes.		-or-	This systemic product is applied to the ground around the base of the tree. Best applied in the autumn if
		Imidacloprid	scales become a problem during the growing season. One application provides 12-month control.
Codling Moth		Acetamiprid	Codling moth is highly mobile and will establish itself annually on untreated backyard apples.
		-or-	Homeowners need to routinely (weekly) scout apples on trees for signs of worm infestation. Remove and
This is the key insect pest in apples		Malathion	destroy infested fruit. Control can be achieved by enclosing young fruit in wax-coated white bags or small
and pears in Central Washington.		-or-	brown bags right on the tree to protect them from the codling moth. See Codling Moth and Your Backyard
	Apple,	Esfenvalerate	Fruit Tree FS120E. http://cru.cahe.wsu.edu/CEPublications/FS120E/FS120E.pdf
The immature stage of codling moth is	Pear	-or-	
the worm in the apple and can be		Spinosad	For Acetamiprid, Malathion, Esfenvalerate and Spinosad, apply 7 to 10 days after all flower petals have
distinguished from other "worms" by			fallen from the tree, then reapply throughout the summer following product label directions.
its habit of boring directly to, and			
feeding on, the seeds at the core of the		-or-	Kaolin Clay acts as a repellant. Apply at petal fall and keep foliage/fruit coated. Require reapplication
apple or pear.		Kaolin clay	every 7–10 days until harvest. The white coating can be washed off with water and a soft brush.

Pearleaf Blister Mite		Horticultural/	In most seasons, blister mites are controlled by natural enemies or by dormant applications for other pests:
By early summer, blister mite feeding		Petroleum oils	however, they can cause damage in unspraved or neglected young trees. If blister mites were a problem
results in pale green to reddish blisters	Pear	+ Sulfur product	in the previous season, apply oil, with or without, a lime sulfur product in the spring prior to bud swell.
forming on the leaf surfaces, premature		-or-	
leaf drop and scars on fruit surfaces.		Sulfur Products	During the growing season other sulfur products can manage this mite, but applications may russet fruit.
Pear Psvlla		Horticultural/	Psylla is highly mobile and will find backyard trees in regions where commercial pear production occurs.
		Petroleum oils	Apply oils at the dormant stage as buds begin to swell and again at delayed dormant, just as buds start to
Psylla is an annual pest in pear. Psylla		-or-	open. Apply Kaolin a few days in advance of bud swell and delayed dormant so that the white coating
feeding results in copious amounts of	Pear	Kaolin clay	covers branches and twigs where egg-laying occurs.
honeydew, can cause leaf burning,		-or-	
defoliate trees, fruit drop and stunt tree		Insecticidal	There are many predators and parasites that will control low infestations of pear psylla. When possible,
growth.		soaps	avoid stimulating flushes of growth (prune lightly, proper fertility). Remove water sprouts and suckers.
		or Azadirachtin	Apply these products as needed. Add Horticultural oil to Azadirachtin for improved psylla control.
Powdery Mildew			
A gray-white fungus that colonizes			
fruit and leaf buds, leaves and even	Apple	Sulfur Products	Homeowners can plant less susceptible apple varieties. Homeowners should prune and destroy the whitish
entire shoots. Leaves may curl, distort,		-or-	infected buds and shoots early in spring to prevent fruit infection. Apply sulfur fungicides at bud cluster
become brittle, brown and die. Mildew		Myclobutanil	when buds start to open and at the pink stage just before blossoms open.
also causes fruit surface russeting.			
Fire Blight			
A disease where infected leaves, shoots		There are no	Fireblight is the most destructive disease of pears and many of the newer apple varieties. Most likely to
		There are no	
and fruit develop a water-soaked	Apple,	effective	be a problem during very warm and wet spring conditions during tree bloom. Blight resistant or tolerant
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products available to homeowners in Washington State, consult your Master Gardener volunteers, or visit this website: <u>http://pep.wsu.edu/hortsense/</u>.

Please note that in the State of Washington, homeowners are legally responsible for controlling the spread of horticultural pests and diseases, particularly if commercial orchards are found in your neighborhood. If you are unable or unwilling to accept this responsibility, please consider replacing fruit trees with other tree and plant varieties. For further information on Home Orchard Pest Management, do not hesitate to contact your local Master Gardener Program at your WSU Extension Office. For Benton/Franklin County, call (509) 735-3551 or 736-2726. For Yakima County call 509-574-1600

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