





Chelan – Douglas Counties Horticultural Pest and Disease Boards

SUGGESTED ORGANIC SPRAY SCHEDULE FOR HOME GARDEN APPLES & PEARS

Growth Stage	Description	Target Information	Chemical Sprays	Important
Dormant	Before buds show any activity in late winter	 PEAR: overwintering scales, aphids and mites. When daytime temperatures reach 40 – 45 F. Finish spraying by noon to insure good dry time. 	Superior type horticultural dormant oil May mix with lime-sulfur. Products available under a variety of labels. Follow directions on label carefully to avoid plant damage. U.R. rate of 92% or more.	These are the most important stages and chemical spray for pest control.
		Manage pests as they hatch in early spring.	> See "Pre-Pink"	
Delayed- Dormant	In late winter, just as buds begin to show first green tissue.	 APPLE & PEAR: overwintering scales, aphids and mites. When daytime temperature is between 45 – 55 F, with no frost forecast overnight. Finish spraying by noon to insure good dry time. 	> See "Dormant" Oils are not effective against woolly apple aphids.	These are the most important stages and chemical spray for pest control.
Pre – Pink to Petal Fall	Just before bud clusters show any color through petal fall.	Critical time to manage pests. Powdery mildew control.	Lime sulfur (Lilly Miller Polysul, Dormant Spray for Disease)	Do not apply lime sulfur spray to Delicious apple or Anjou pear varieties at this time as severe fruit drop can occur later.
		Hatching insects pests such as mealybug, lygus bug, stinkbug, aphid, mites.	 Insecticial soaps (Safer); azadirachtin (neem oil); Beauveria bassiana (Mycotrol/Botanigard ES/22WP) 	
		> Feeding caterpillars	 Spinosad (Entrust 80W, Monterey Garden Insect Spray Easy-to-Use, Bull's-eye Bioinsecicide form Gardnes Alive) Bacillus thuringiensis (Dipel Pro) 	Make sure spray covers top and bottom of leaves. See "Bloom" below
Bloom	When flowers are open.	Avoid pesticide application during bl		1

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	Starting 17-21	Codling moth	Start preventative spraying of fruit 17-21 days after full	If the apple is not			
Late Spring &	days after full	"Stings"- shallow entries	bloom or 10 days after petal fall. SPRAY TIMING IS	protected, the egg			
Early	bloom. Keep	made on surface of fruit.	CRITICAL – First generation lasts 6 weeks, second	laid by the codling			
Summer	protected	Treat "stung" apples as	generation lives another 6 weeks. Protect during this	moth will hatch and			
	through	source of codling moth	entire period. Follow spray schedule on label.	the worm will enter			
	August/mid-	by removing infested	Spinosad (Entrust 80 W, Monterey Garden Insect Spray	the apple and be			
	September.	apples from the tree, seal	Easy-to-Use, Bull's-eye Bioinsecticide from Gardens Alive)	protected from the			
	_	in black garbage bags.	➤ Kaolin clay (Surround at Home)	sprays. See "Stings"			
	Reapply after brief,	Leave in sun for two	➤ Alternative Method: Exclusion bags – these bags	at left for handling			
	heavy rainfall or	weeks to kill worms.	are placed on each fruit just after petal fall to	treatment.			
	showers of longer duration, then resume		exclude codling moth and apple maggot. This				
	regular schedule.		method works best on small trees. (Red Apple Bag #6				
	.		for codling moth. Can be found at orchard supply co. such as				
		A	Wilson Irrigation & Orchard Supplies in Wenatchee)				
		Apple maggot	Kaolin clay (Surround at Home) Apply 1 st in early July				
			Alternative Method: Exclusion bags – See above. (Apple maggot exclusion bags can be found on-line).				
_	♦ Postharvest - To reduce infestation and spread of pests to commercial orchards - REMOVE ALL FRUIT - on the tree and ground.						
Important Additional CAUTION – Read this guide carefully. Read the product label directions carefully. Read and follow all label directions carefully.							
Information	responsible use of any pesticide.						
	 Aphids – Seldom build up to damaging levels in home garden fruit trees. Wash them off with stream of water from the hose, you rarely have to spray. Pesticide resistance – Vary products during the season and in following seasons to minimize pest resistance. 						
	♦ Too much fruit to handle – Cut down tree and purchase quality fruit for use. Help commercial orchards by maintaining good care						
	and pest management practices for your desired fruit trees!!!						
	♦ Further information – Contact WSU Chelan County Extension at (509) 667-6540 or our website at www.ncw.wsu.edu						
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