

Fruit and Nuts – Commercial

Apple Spray Schedule

Dormant (apply in December or January)

Insect	Materials/ Insecticides	To Make 50 Gallons	Precautions
San Jose scale (when present)	Oil emulsion 3% actual oil in diluted spray.	Follow the recommendations of the manufacturer for mixing.	Use two applications 7-10 days apart prior to bud break with no time limit.
	Imidan (Phosmet) 70W	0.5-1.28 pounds	PHI=14 days; highly toxic to bees. Do not use in home gardens. Not to exceed 5.125 pounds A.I./acre.
	Esteem 35WP (Pyriproxyfen)	0.5-0.62 ounce (= 4-5 ounces/acre)	-PHI=45 days; limit to two applications per season. -Allow 14 days between applications. Apply at delayed dormant thru pink. For delayed dormant, mix with oil emulsion at the recommended manufacturer's rate. Must be timed to coincide with crawler emergence.
	Proaxis (Gamma-cyhalothrin)	0.427-0.853 fluid ounce	PHI=21 days; do not apply more than 0.1 pound A.I./acre/season.

Calyx (apply when three-fourths of petals have fallen)

Insect	Materials/ Insecticides	To Make 50 Gallons	Precautions
Catfacing insects	Imidan (Phosmet) 70W	0.5-1.28 pounds	See above information on Imidan.
Leafrollers, scales, leafhoppers	SpinTor 2SC (Spinosad – mixture of Spinosyn A and D)	0.62-1.25 fluid ounce	PHI=7 days. Not labeled to control scales.
Thrips	Carbaryl 50% WP (Sevin)	0.5-1.0 pound	PHI=3 days; highly toxic to bees; avoid during periods of full bloom until 30 days after full bloom. Allow 14 days between sprays. Use higher rate of Carbaryl 50WP for apple maggot, leafrollers, wooly apple aphid, plum curculio. Carbaryl might promote mite infestations.
	follow label in other Carbaryl (Sevin) formulations		
	Pounce (Permethrin) 3.2EC	1.25 fluid ounce (=10 fluid ounce/acre)	Do not apply after petal fall. Follow label.
	Proaxis (Gamma-cyhalothrin)	0.427-0.853 fluid ounce	PHI=21 days; do not apply more than 0.1 lb A.I./acre/season.
Aphids (not wooly apple aphid)	Provado 1.6F (Imidacloprid)	1.0-2.0 fluid ounce	PHI=7 days; apply post-bloom only.
Leafhoppers	Provado 1.6F (Imidacloprid)	0.5-1.0 fluid ounce	Provado is highly toxic to bees and aquatic invertebrates. Toxic to wildlife. Allow 10 or more days between applications. Do not apply more than 40 fluid ounce per acre per year.
	Mustang Max (Zeta-cypermethrin)	0.21-0.32 fluid ounce	PHI=14 days; allow 7 days between applications.
Mites	Nexter (Pyridaben)	5.2-10.67 ounces/acre	PHI=25 days; Do not make more than one application per season. Apply at the beginning of mite infestations.
	Savey 50DF (Hexythiazox)	3.0-6.0 ounces/acre	PHI=28 days; limit to one application per year. Apply at the beginning of mite infestations.

Apply cover sprays at 10- to 14-day intervals

Warning: Re-entry time for a worker entering treated areas should be strictly observed. Read the label for this information.

Note: Chemical should be applied at a rate of 200-300 gallons/acre for adequate coverage with the material.