

# Fruit and Nuts – Commercial

## Pear Spray Schedule

Name and Time of Spray	Insect	Materials/ Insecticide	To Make 50 Gallons of Spray	Precautions
<b>Dormant: December or January</b>	San Jose scale	Oil Emulsion, 3% actual oil in diluted spray	follow manufacturer's recommendation for mixing	No time limit.
		Admire Pro 4F (Imidacloprid)	2.8 fluid ounces/per acre	PHI=7 days; toxic to bees; allow 10 days between applications. Max=45 fluid ounces/ per acre/per season.
		Esteem (Pyriproxyfen)	13.0-16.0 fluid ounces/acre + oil	PHI=45 days; limit to 2 applications per season. Allow 14 days between Esteem sprays. Complete coverage is essential for control.
<b>Calyx – apply when petal fall is 80%</b>	Catfacing Insects, Leafrollers, Scales	SpinTor 2SC (Spinosad)	0.62-1.25 fluid ounces/50 gallons	PHI=7 days; toxic to aquatic invertebrates; toxic to bees exposed to treatment within 3 hours of spray; not labeled to control scales.
	Leafhoppers, Eastern Tent Caterpillars	Carbaryl (Sevin)	0.5 pound, 50% WP	PHI=3 days; extremely toxic to aquatic invertebrates; highly toxic to bees.
	Leafhoppers	Imidan 70W (Phosmet)	0.5-1.34 pounds A.I./50 gallons	PHI=7 days; do not use Imidan on homegrown trees; extremely toxic to fish; highly toxic to bees.
		Admire Pro 4F (Imidacloprid)	1.4-2.8 fluid ounces/per acre	PHI=7 days; toxic to bees; allow 10 days between applications. Max=45 fluid ounces/per acre/per season.
		Proaxis (Gamma-cyhalothrin)	0.427-0.853 fluid ounce	PHI=21 days; do not apply more than 0.1 lb A.I./acre/season.
		Mustang Maxx (z-cypermethrin)	0.21-0.32 fluid ounce/50 gallons	PHI=14 days; allow 7 days between applications.
<b>Apply in mid-April or when leaves start unfolding</b>	Catfacing Insects, Leafrollers, Scales	Same as above. <i>Except do not use Proaxis or Mustang Maxx for scales.</i>		Same as above.
	Eastern Tent Caterpillars, Leafhoppers	Actara (Thiamethoxam)	2.0-2.75 ounces/acre	PHI=14 days; (or 35 days PHI if rates higher than 2.75 ounces/acre are used); allow 10 days between applications; highly toxic to bees. Follow label.
	Mites: European Red Mite, Two-spotted Mite	Savey 50DF (Hexythiazox)	3.0-6.0 ounces/acre	PHI=28 days; limit to 1 application/year. Make applications when mite populations first appear.
<b>Apply in mid-May</b>	Catfacing Insects, Leafrollers, Scales, Leafhoppers, Eastern Tent Caterpillars	Same as above.		Same as above.
	Mites: European Red Mite, Two-spotted Mite, Pear Rust Mite	Vendex 50WF (Fenbutatin-oxide)	1.0-2.0 pounds/acre	PHI=14 days; efficacy of Vendex is reduced at temperatures below 70 F. Limit to 2 applications/season. Make applications when mite populations first appear.
<b>Mid-May to harvest</b>	Catfacing Insects, Leafrollers, Scales, Leafhoppers, Eastern Tent Caterpillars	Same as above.		Same as above. See limitations of preharvest intervals. Follow label.