

12.3 Pear Spray Table

Table 12.3.1. Pesticide Spray Table – Pears

Refer to back of book for key to abbreviations and footnotes.

Pest	Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comment (see text)	
Dormant							
Fire blight and Pseudomonas spur blight	Bordeaux mixture, 8-8-100 (copper sulfate) (spray lime) <i>plus</i> oil	8 lb/100 gal 8 lb/100 gal 1 qt/100 gal		24	BL	[2.3]	
	<i>OR</i> C-O-C-S 8 lb	2-4 lb/100 gal		24	BL		
	<i>OR</i> Cuprofix Ultra 40 Disperss		7.5-10 lb./A pseudomonas/0. 75 lb/acre fire blight	48	GT		
	<i>OR</i> Kocide 3000		5.25 – 7 lb/acre see comments	48	HIG		
	<i>OR</i> §Champ WG or other(§)coppers	see comments	8-16 lb./A	24	HIG		
	Pear psylla, European red mite	(§)oil	3 gal/100 gal		12	0	[12.1]
Pearleaf blister mite	oil <i>plus</i> *Diazinon 50WP	1-1.5 gal/100 gal 1 lb/100 gal		96	21	[14.1]	
	<i>OR</i> oil <i>plus</i> *Thionex 50WP or *Thionex 3EC	1-1.5 gal/100 gal 0.5-0.75 lb/100 gal 0.33/0.5 qt/100 gal	4 lb/acre 2.67 qt/acre	20 days 7 days	20 7		
	Swollen Bud						
	Pear midge	*Guthion 50WS	0.5-0.75 lb/100gal		14 days(E)	14	[11.1]
Pear psylla	Actara 25WDG		5.5 oz/A	12	35	[12.2]	
	<i>OR</i> *Agri-Mek 0.15EC	2.5-5.0 fl oz/100 gal		12	28	[12.5]	
	<i>OR</i> *Calypso 4F	1-2 fl oz/100 gal		12	30		
	<i>OR</i> Delegate 25WG		6.0-7.0 oz./A	4	7	[12.5]	
	<i>OR</i> Esteem 35WP		4-5 oz/A	12	45	[12.5]	
	<i>OR</i> Movento 240SC		6-9 oz/acre	24	7	[12.5]	
	<i>OR</i> Portal 0.4EC		2 pt/acre	12	14	[12.5]	
	<i>OR</i> *Proaxis 0.5CS		2.6-5.1 fl oz/A	24	21		
	<i>OR</i> *Proclaim	0.8-1.2 oz/100	3.2-4.8 oz/A	12	14		
	<i>OR</i> Nexter 75WS		6.6-10.7 oz/A	12	7		
<i>Insecticide with “Fair” efficacy rating for pear psylla. Additional “Fair” options listed under Petal Fall –</i>							
	Ambush EC (or equivalent dose of Perm-Up, Pounce)		12.8-25.6 fl oz/A	12	Pre- bloom		

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Green Cluster						
Fabraea leaf spot	Same materials as recommended for pear scab					[1.2]
Pear scab	Topsin M WSB, 70WP	4 oz./100 gal	1 lb	48	1	[3.2]
	or Thiophanate-methyl 85WDG	3.2 oz./100 gal		72	1	
	or T-Methyl 70W	0.25 lb	1 lb	48	1	
	or Vintage SCC	4 fl oz./100 gal				
	or Procure 50WP	4 oz./100gal				
	or Inspire Super MP		8.5-12 fl oz	12	14	
	<i>plus</i> Dithane/*Manzate/ Penncozeb 75DF	1 lb/100 gal		24	BL, 77 (A)	[3.3]
	<i>OR</i> Dithane/*Manzate/ Penncozeb 75DF	1-2 lb/100 gal		24	BL, 77 (A)	[3.3]
<i>OR</i> Tebuzol 45DF	2 oz	4-8 oz	120	75		
<i>OR</i> Ziram 76DF	1.5-2 lb/100 gal		48	14		
<i>OR</i> Adament 50WG		4-5 oz	12	75		
Pear Midge	*Guthion 50WS	0.5-0.75 lb/100 gal		14 days(E)	14-21(A)	[11.1]
Tarnished plant bug, plant bug	*Asana XL 0.66EC	2-5.8 oz/100 gal		12	28	[19.1]
	<i>OR</i> *Baythroid XL 1E		2.0-2.4 fl oz/A	12	7	
	<i>OR</i> Beleaf 50SG		2.0-2.8 oz/A	12	21	
	<i>OR</i> *Brigade 10WS		6.4-32 oz/A	12	14	
	<i>OR</i> *Danitol 2.4EC		16-21.3 fl oz/A	24	14	
	<i>OR</i> *Guthion 50WS	0.5-0.75 lb/100 gal		14 days (E)	14-21(A)	
	<i>OR</i> *Pounce 3.2E		8-16 fl oz/A	12	PB	
	<i>OR</i> *Proaxis 0.5CS		2.6-5.1 fl oz/A	24	21	
<i>OR</i> *Warrior II 2.08 CS		1.28-2.56 fl oz/A	24	21		
The following pre-mix products are also labeled for use against these pests; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species present are appropriately matched to the combination of active ingredients and modes of action contained in the product						
	<i>OR</i> *Leverage 360	see label	2.4-2.8 fl oz/A	12	7	
	<i>OR</i> *Voliam Xpress	see label	6-12 fl oz/A	24	21	
White Bud						
Fabraea leaf spot	See Green Cluster sprays					
Pear scab	Choose from materials listed under Green Cluster					
	<i>OR</i> Flint 50WG	0.67-0.8 oz/100 gal		12	14	[3.4]
	<i>OR</i> Sovran 50WG	1.0-1.6 oz/100 gal		12	30	
Pear psylla	See Swollen Bud sprays					[12.2], [12.4]
	<i>OR</i> Centaur	--	34.5 to 46 oz	12	14	

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Bloom						
Fire blight	§Agri-mycin 17WP or Streptrol 17WP or Firewall 17WP	0.5 lb/100 gal	24 oz./A	12	30	[2.1]
	OR §Agri-mycin 17WP or Streptrol 17WP or Firewall 17WP	0.25 lb/100 gal		12	30	
	<i>plus</i> Glycerine (CP or USP grade) or Regulaid	2 qt/100 gal 0.25 pt/100 gal				
	OR Mycoshield	1.0 lb		12	60	[2.6]
	OR §Serenade ASO		2-6 qt	4	0	[2.7]
	OR §Bloomtime Biological FD			150 g	4	PF
Pear scab, Fabraea leaf spot	Choose from materials listed previously					
Petal Fall						
Pear scab, Fabraea leaf spot	Choose from materials listed previously					
	OR Vintage SC	2-4 fl oz/100 gal	6-12 oz/A	24	30	[3.5]
	<i>plus</i> Dithane/*Manzate/ Penncozeb 75DF	1 lb/100 gal		24	BL/77(A)	[3.3]
	OR Flint 50WG	0.67-0.8 oz/100 gal	2-2.5 fl oz/A	12	14	[3.4]
	OR Pristine 38WG		14.5-18.5 oz/A	12	0	
	OR Ziram 76DF	24-32 oz/100 gal		48	14	
Aphids, including spirea aphid	Assail 30SG		2.5-4.0 oz/A	12	7	
	*Admire Pro 4.6SC	See label	2.8 fl oz	12	7	
	OR §Aza-Direct 1.2L		16-32 fl oz/A	4	0	
	OR Beleaf 50SG		2.0-2.8 oz/A	12	21	
	OR Calypso 4F	1-2 fl oz/100 gal		12	30	[5.2]
	OR *Dimethoate 4EC	0.5 pt/100 gal		240	28	
	OR §M-Pede 49L	1-2 gal/100gal		12	0	
	OR Movento 240SC		6-9 oz/acre	24	7	[5.1]
The following pre-mix product is also labeled for use against these pests; however, for best effectiveness and insecticide resistance management, its use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product						
	Leverage 360	See label	2.4-2.8 fl oz/acre	12	7	
Codling moth	Pheromone disruption:					
	Checkmate CM-F		2.4-4.8 oz/acre	12	7	[6.2]
Comstock mealybug	Actara 25WDG		4.5-5.5 oz/A	12	35	[7.1]
	OR Assail 30SG		4.0-4.8 oz/A	12	7	

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Petal Fall (continued)						
Comstock mealybug (continued)	OR Calypso 4F	1-2 fl oz/100 gal		12	30	
	OR *Centaur		34.5-46 oz/acre	12	14	[12.5]
	OR *Diazinon 50WP	1 lb/100 gal		96	21	
	OR Movento 240SC		6-9 oz/acre	24	7	
	OR Portal 0.4EC		2 pt/acre	12	14	
	OR Admire Pro	see lable	7 fl oz/A	12	7	[7.1]
Green fruitworms	Altacor 35WDG		2.5-4 oz/acre	4	5	[9.1]
	OR *Asana XL 0.66EC	2-5.8 fl oz/100 gal		12	28	[9.1]
	OR *Assail 30SG		4.0-8.0 oz/A	12	7	
	OR Baythroid XL 1E		1.4-2.0 fl oz/A	12	7	
	OR Belt 4SC	See label	3-5 fl oz/A	12	14	
	OR *Lannate 2.4L	0.75 pt/100 gal		48-96(E)	7	
	OR *Proaxis 0.5CS		2.6-5.1 fl oz/A	24	21	
	OR *Proclaim 5SG	0.8-1.2 oz/100 gal		12	14	
	OR *Thionex 50WP or Thionex 3EC	1 lb/100 21.3 oz/100 gal		20 days 7 days	20 7	
	OR *Warrior 1CS or *Warrior II 2.08 CS		2.6-5.1 fl oz/A 1.28-2.56 fl oz/A	24 24	21 21	
The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species present are appropriately matched to the combination of active ingredients and modes of action contained in the product.						
	*Endigo ZC	See label	5-6 fl oz/acre	24	35	
	*Leverage 60	See label	2.4-2.8 fl oz/acre	12	7	
	*Voliam Express	See label	6-12 flo oz/acre	24	21	
Pear psylla	Actara 25WDG		5.5 oz/A	12	35	[12.5]
	OR Admire Pro 4.6CS	See label	7 fl oz/acre	12	7	
	OR *Agri-Mek *SC	25.0 fl oz/100 gal	2.25-4.25 fl oz/acre	12	28	[12.5]
	OR *Calypso 4F	1-2 fl oz/100 gal		12	30	
	OR Delegate 25WG		6.0-7.0 oz./A	4	7	[12.5]
	OR Esteem 35WP		4-5 oz/A	12	45	[12.5]
	OR Movento 240SC		6-9 oz/acre	24	7	[12.5]
	OR Portal 0.4EC		2 pt/acre	12	14	[12.5]
	OR *Proaxis 0.5CS		2.6-5.1 fl oz/A	24	21	
	OR *Proclaim	0.8-1.2 oz/100	3.2-4.8 oz/A	12	14	
OR Nexter 75WS		6.6-10.7 oz/A	12	7		
<i>Insecticides with "Fair" efficacy rating for pear psylla –</i>						
	Assail 30SG		4.0-8.0 oz/A	12	7	
	OR *Asana XL 0.66EC	2.0-5.8 fl oz/100 gal		12	28	
	OR *Baythroid XL 1E		2.4-2.8 fl oz/A	12	7	
	OR Belay	1.5-3 oz/100 gal	6-12 oz/A	12	7	

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Petal Fall (continued)						
Pear psylla (continued)	OR *Brigade 10WSB		6.4-32 oz/A	12	14	
	or *Brigade 2EC		2.6-12.8 fl oz/A	12	14	
	OR *Centaur		34.5-46 oz/acre	12	14	
	OR *Clutch	1.0-1.5 oz/100 gal	4-6 oz/acre	12	7	
	OR *Danitol 2.4EC		16-21.3 fl oz/A	24	14	
	OR *Leverage 2.7SE	see label	3.6-4.4 fl oz/A	12	7	
	or *Leverage 360	see label	2.4-2.8 fl oz/A	12	7	
	OR §M-Pede 49L	1-2 gal/100 gal		12	0	
	OR §summer oil	1.5-2 gal/100 gal		4	0	
	OR Provado 1.6F		20 fl oz/A	12	7	
	OR §Surround 95WP		50 lb/A	4	0	
	OR Tourismo		12-17 fl oz/A	12	14	
	OR *Warrior		2.6-5.1 fl oz/A	24	21	
OR *Warrior II		1.3-2.5 fl oz/A	24	21	[12.2]	
Pear rust mite	*Agri-Mek 0.15EC	2.5-5.0 fl oz/100 gal		12	28	[13.1]
	OR Nexter 75WS	5.2-10.7 oz/A		12	7	
	OR Portal 0.4EC		2 pt/acre	12	14	[8.1]
	OR *Vendex 50WP	6-8 oz/100 gal		48	14	
Plum curculio	Actara 25WDG		4.5-5.5 oz/A	12	35	
	OR *Asana XL 0.66EC	2.0-5.8 fl oz/100 gal		12	28	
	OR *Baythroid XL 1E		2.4-2.8 fl oz/A	12	7	
	OR *Brigade 10WSB		6.4-32 oz/A	12	14	
	or Brigade 2EC		2.6-12.8 fl oz/A	12	14	
	OR *Guthion 50WS	0.5-0.75 lb/100 gal		14 days(E) 14-21(A)		
	OR Imidan 70WP	0.75-1 lb/100 gal		72	7	
	OR *Proaxis 0.5CS		2.6-5.1 fl oz/A	24	21	
	OR §Surround 95WP		50 lb/A	4	0	[12.6]
	OR *Warrior 1CS		2.6-5.1 fl oz/A	24	21	
or *Warrior II 2.08 CS		1.28-2.56 fl oz/A	24	21		
The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species present are appropriately matched to the combination of active ingredients and modes of action contained in the product.						
	OR *Leverage 360	See label	2.4-2.8 fl oz/acre	12	7	
	OR *Voliam Express	See label	6-12 oz/acre	24	21	
Obliquebanded leafroller	Altacor 35WDG	see label	2.5-4.5 oz/A	4	5	
	OR Belt 4SC	See label	3-5 fl oz/acre	12	14	
	OR §Biobit XL 2.1FC		1.5-5.5 pt/A	4	0	
	OR Delegate 25WG		4.5-7.0 oz/A	4	7	
	OR §Deliver 18WG		0.5-2 lb/A	4	0	
	OR §Dipel 10.3DF		0.5-2 lb/A	4	0	

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Petal Fall (continued)						
Obliquebanded leafroller (continued)	OR §Entrust 80WP	0.67-1.0 oz/100 gal		4	7	
	OR Intrepid 2F		8-16 fl oz/A	4	14	
	OR §Javelin 7.5 WDG		0.5-4 lb/A	4	0	
	OR *Lannate 2.4L or *Lannate 90SP	0.75 pt/100 gal 0.25 lb/100 gal		48-96(E)	7	
	OR *Proclaim 5SG	0.8-1.2 oz/100 gal		12 or 48	14	
The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species present are appropriately matched to the combination of active ingredients and modes of action contained in the product.						
	OR *Endigo ZC	See label	5-6 fl oz/acre	24	35	
	OR *Voliam Xpress	see lable	6-12 fl oz/acre	2	21	
Additional Summer Sprays						
Fire blight (ONLY after a hailstorm)	§Agri-mycin 17WP or Streptrol 17WP or Firewall 17WP	0.5 lb/100 gal		12	30	[2.4]
Pear scab, Fabraea leaf spot, Sooty blotch, Black rot	Topsin M 70WSB	4 oz/100 gal		72	1	
	OR Thiophanate-methyl 85WDG	3.2oz/100 gal		72	1	
	<i>plus</i> Dithane/*Manzate/Penncozeb as listed for pear scab under Green Cluster			24	BL/77 (A)	[3.6]
	OR Vintage SC	3 fl oz/100 gal		24	30	
	<i>plus:</i> Dithane/*Manzate/ Penncozeb 75DF	1 lb/100 gal		24	BL/77 (A)	[2.4]
	OR Flint 50WG	0.67-0.8 oz/100 gal		12	14	[3.4]
	OR Sovran 50WG	1.0-1.6 oz/100 gal		12	30	
	OR Pristine 38WG		14.5-18.5 oz/A	12	0	
OR Ziram 76DF	1.5-2 lb/100 gal		48	14		
Codling moth	Altacor 35WDG	see label	2.5-4.5 oz/A	4	5	[6.1]
	OR Assail 30SG		4.0-8.0 oz/A	12	7	[6.1]
	OR Avaunt 30WDG	See label	5-6 oz/acre	12	28	
	OR *Baythroid XL 1E		2.0-2.4 fl oz/A	12	7	
	OR §Biobit XL 2.1FC		1.5-5.5 pt/A	4	0	
	OR *Calypso 4F	1-2 fl oz/100 gal		12	30	
	OR §Carpovirusine 0.99SC	0.5-1 pt/100 gal		4	0	
	OR §Cyd-X 0.06SC	1-6 fl oz/A	1-6 fl oz/A	4	0	
	OR *Danitol 2.4EC	16-21.3 fl oz/A	16-21.3 fl oz/A	24	14	
	OR Delegate 25WG	4.5-7.0 oz/A	4.5-7.0 oz/A	4	7	
	OR §Deliver 18WG	0.5-2 lb/A	0.5-2 lb/A	4	0	
	OR §Dipel 10.3DF	0.5-2 lb/A		4	0	
	OR §Entrust 80WP	0.67-1.0 oz/100 gal		4	7	

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Additional Summer Sprays (continued)						
Codling moth (continued)	OR *Guthion 50WS	0.5-0.75 lb/100 gal		14 days (E)	14-21 (A)	
	OR Imidan 70WP	0.75-1 lb/100 gal		72	7	
	OR §Javelin 7.5WDG		0.5-4 lb/A	4	0	
	OR *Leverage 2.7SE		3.6-4.4 fl oz/A	12	7	
	OR or *Leverage 360		2.4-2.8 fl oz/acre	12	7	
	OR Virosoft PC4	See label	2-3.2 fl oz/acre	4	0	
	OR (§)Pheromone disruption: Checkmate CM-F		2.4-4.8 fl oz/acre	4	0	
The following pre-mix products are also labeled for use against these pests; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species present are appropriately matched to the combination of active ingredients and modes of action contained in the product.						
	*Endigo ZC	see label	5-6 fl oz/A	24	35	
	*Leverage 360	see label	2.4-2.8 fl oz/A	12	7	
	*†Voliam Xpress	see label	6-12 fl oz/A	24	21	
Comstock mealybug	Actara 25WDG		4.5-5.5 oz/A	12	35	[7.1, 7.2]
	OR *Admire Pro 4.6SC	see label	7.0 fl oz/A	12	7	
	OR Assail 30SG		4.0-8.0 oz/A	12	7	
	OR *Calypso 4F	1-2 fl oz/100 gal		12	30	
	OR *Centaur		34.5-46 oz/acre	12	14	[12.5]
	OR *Diazinon 50WP	1 lb/100 gal		96	21	
	OR Movento 240SC	see label	6-9 fl oz/A	24	7	
OR Portal 0.4EC	see label	2 pt/A	12	14		
European red mite, Twospotted spider mite, Pear rust mite	*Agri-Mek 8SC	0.5-1 fl oz/100 gal	2.25-4.25 fl oz/A	12	28	[8.1], [13.1]
	OR Apollo 4SC		4-8 oz/A	12	21	
	OR *Brigade 10WSB		12.8-32 oz/A	12	14	
	OR or *Brigade 2EC		5.12-12.8 fl oz/acre			
	OR Envidor 2SC		16-18 fl oz/A	12	7	
	OR Portal 5EC		2 pt/A	12	14	
	OR Kanemite 15SC		21-31 fl oz/A	12	14	
	OR Nexter 75WS		4.4-10.7 oz/A	12	7	
	OR Onager 1EC		12-24 fl oz/A	12	28	
	OR Portal 0.4EC	see label	2 pt/A	12	14	
	OR Savey 50DF		3-6 oz/A	12	28	
	OR *Vendex 50WP	6-8 oz/100 gal		48	14	
	OR Zeal 72WS		2-3 oz/A	12	14	
	Obliquebanded leafroller	§Agree WG 3.8WS		1-2 lb/A	4	0
OR Altacor 35WDG		see label	2.5-4.5 oz/A	4	5	
OR *Baythroid XI 1E			2.4-2.8 fl oz/A	12	7	

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Additional Summer Sprays (continued)						
Obliquebanded leafroller (continued)	OR *Belt 4SC	see label	3-5 fl oz/A	12	14	
	OR §Biobit XL 2.1FC		1.5-5.5 pt/A	4	0	
	OR Delegate 25WG		4.5-7.0 oz/A	4	7	
	OR §Deliver 18WG		0.5-2 lb/A	4	0	
	OR §Dipel 10.3DF		0.5-2 lb/A	4	0	
	OR §Entrust 80WP	0.67-1.0 oz/100 gal		4	7	
	OR Intrepid 2F		8-16 fl oz/A	4	0	
	OR §Javelin 7.5WDG		0.5-4 lb/A	4	0	
	OR *Lannate 2.4L or *Lannate 90SP	0.75 pt/100 gal 0.25 lb/100 gal		48-96(E)	7	
	OR *Proclaim 5SG	0.8-1.2 oz/100 gal		12	14	
The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species present are appropriately matched to the combination of active ingredients and modes of action contained in the product.						
	*†Endigo ZC	see label	5-6 fl oz/A	24	35	
	OR *Leverage 360	see label	2.4-2.8 fl oz/A	12	7	
	OR *Voliam Xpress	see label	6-12 fl oz/A	24	21	
Pear psylla	Choose from materials listed under Petal Fall, except for Esteem					[12.5]
Pearleaf blister mite	Sevin XLR Plus, 4F or Sevin 80S, *80WS		1.5-3 qt/A 1.88-3.75 lb/A	12	3	[14.2]
	OR oil plus *Diazinon 50WP	1-1.5 gal/100 gal 1 lb/100 gal		96	21	
	OR oil plus *Thionex 50WP or *Thionex 3EC	1-1.5 gal/100 gal 0.5-0.75 lb/100 gal 0.33-0.5 qt/100gal	4 lb/acre 2.67 qt/acre	20 days 7 days	20 7	
Redbanded leafroller	§Agree WG 3.8WS		1-2 lb/A	4	0	[16.1]
	OR *Altacor 35WDG		2.5-4.5 oz	4	5	
	OR *Baythroid XL 1E		2.4-2.8 fl oz/A	12	7	
	OR *†Belt 4SC	see label	3-5 fl oz/A	12	14	
	OR §Biobit XL 2.1FC		1.5-5.5 pt/A	4	0	
	OR Delegate 25WG		4.5-7.0 oz/A	4	7	
	OR §Deliver 18WG		0.5-2 lb/A	4	0	
	OR §Dipel 10.3DF		0.5-2 lb/A	4	0	
	OR *Guthion 50WS	0.5-0.75 lb/100 gal		14 days (E)	14-21 (A)	
	OR Imidan 70WP	0.75-1 lb/100 gal		72	7	
	OR §Javelin 7.5WDG		0.5-4 lb/A	4	0	
OR *Proclaim 5SG	0.8-1.2 oz/100 gal		12	14		

The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species present are appropriately matched to the combination of active ingredients and modes of action contained in the product.

Table 12.3.1. Pesticide Spray Table – Pears

Refer to back of book for key to abbreviations and footnotes.

Pest	Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comment (see text)
Additional Summer Sprays (continued)						
Redbanded leafroller (continued)	*Leverage 360	see label	2.4-2.8 fl oz/A	12	7	
	OR *Voliam Xpress		6-12 oz	24	21	
Spotted wing Drosophila	Delegate 25WG	see label	4.5-7 oz/A	4	7	
	OR §Entrust 80WP	see label	1.5-3 oz/A	4	7	
	OR *Imidan 70WS	0.75-1 lb/100 gal	2.13-5.75 lb/A	7 days	7	
Stink bugs, including Brown marmorated stink bug	*†Actara 25WDG	see label	4.5-5.5 oz/A	12	35	
	OR *Asana XL 0.66EC	2.0-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	21	
	OR *Baythroid XL 1EC	see label	2-2.4 fl oz/A	12	7	
	OR *Brigade 2EC	see label	2.6-12.8 fl oz/A	12	14	
	or *Brigade 10WSB	see label	6.4-32 oz/A	12	14	
	OR *Danitol 2.4EC	see label	10.7-21.3 fl oz/A	24	14	
	OR *Lannate 2.4LV	see label	2.25 pt/A	96	7	
	or *Lannate 90SP	see label	0.75 lb/A	96	7	
	OR *Proaxis 0.5CS	see label	2.6-5.1 fl oz/A	24	21	
	OR §Surround 95WP	see label	25-50 lb/A	4	0	
	OR *†Vydate 2L	see label	1.5-3 pt/A	48	14	
	OR *Warrior 1CS	see label	2.6-5.1 fl oz/A	24	21	
or *Warrior II 2.08CS	see label	1.28-2.56 fl oz/A	24	21		
The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product.						
	*†Endigo ZC	see label	5-6 fl oz/A	24	35	
	OR *Leverage 360	see label	2.4-2.8 fl oz/A	12	7	
	OR *†Voliam Xpress	see label	6-12 fl oz/A	24	21	

Table 12.3.2. Growth Regulator Uses in Pears.

Refer to back of book for key to abbreviations and footnotes.

Timing	Product	Concentration	Rate of Formulated Product
Chemical Thinning			
Petal Fall to 5-7 days after petal fall	Amid-Thin W	25-50 ppm	4-8 oz/100 gal
For thinning Bartlett and Bosc. Apply at petal fall or within 5-7 days after petal fall.			
7-28 days after full bloom	Fruitone-N or Fruitone-L	10-15 ppm	4-6 oz/100 gal
Directions for use on Bartlett and Bosc pears. NAA is more effective at early timings and should be applied as soon as fruit set is apparent for greatest success. Late applications may result in reduced fruit size. Do not apply when temperature is below 60°F or above 85°F. NAA will not usually adequately thin Bartlett, but the addition of a surfactant will improve thinning.			
Fruit Size 8-14 mm(7-28 days after full bloom) Maxcel, RiteWay 125-200 ppm 4-6 oz/100 gal			
Do not apply when temperature is below 60°F or above 85°F.			

Table 12.3.2. Growth Regulator Uses in Pears.*Refer to back of book for key to abbreviations and footnotes.*

Timing	Product	Concentration	Rate of Formulated Product
Induction of Lateral Branching in Young Trees			
1-2” of terminal shoot growth	Promalin, Perlan, Typy	125-1000 ppm	0.25-2 pt/5 gal
Include a non-ionic surfactant and apply as a directed spray to areas where additional branching is desired. This practice is more effective in the second and third growing seasons after planting. Response on weak or low-vigor trees is usually disappointing. For nursery stock treat after trees have reached a terminal height at which lateral branching is desired.			
Preharvest Fruit Drop Control			
1-2 weeks before anticipated harvest	ReTain		0.74 lb/acre or 333 g/acre or (1 pouch)
Apply in sufficient water to ensure thorough but not excessive coverage. An organosilicone surfactant (12 oz/100 gal) must be used with ReTain.			
5-7 days before harvest	Fruitone-N	10-15ppm	4-6 oz /100 gal
Apply 7 days before harvest on D’Anjou, Bosc, and Bartlett. Make separate sprays to early and late maturing varieties.			
* To convert ounces to grams multiply ounces by 28.3. To convert fluid ounces to milliliters multiply fluid ounces by 29.57.			