

12 Pears

12.1 Insecticides and Fungicides for Pears

See Sections 12.2 and 12.3 for comments related to this table.

Table 12.1.1. Pesticide Spray Table - Pears

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

	IRAC/ FRAC		-	REI	PHI	aa	Comments
Pest	Code	Product	Rate(s)	(hrs)	(days)	Efficacy	(see text)
Pseudomonas spur blight		Bordeaux mixture, 8-8-100					[2.3]
(Fire blight)		(copper sulfate) (spray lime) plus:	8 lb/100 gal 8 lb/100 gal	24	BL		
		oil	1 qt/100 gal				
		C-O-C-S	12-15.6 lbs/A	48	_		•
		Kocide 3000 or other coppers	5.25-7.0 lb/A see comments and labels	48	HIG		
Pear psylla, European red mite		oil	3 gal/100 gal	12	0		[12.1]
Pearleaf blister mite		oil plus:	1-1.5 gal/100 gal	12	0		[14.1]
	1B	*Diazinon 50WP	1 lb/100 gal	96	21	high	
San Jose scale	4A	Assail 30SG	8 oz/A	12	7	moderate	[20.1]
	16	Centaur 0.7WDG	34.5-46.0 oz/A	12	14	high	
	7C	Esteem 35WP	4-5 oz/A	12	45	high	
	1B	*Lorsban Advanced 3.76EC	1.5-4 pt/A	96	PB	high	
	1B	Lorsban 75WG	2-2.67 lb/A	96	PB	high	
Swollen Bud							
Pear Midge	_	Aza-Direct 1.2L	11.5-42 fl oz/A	4	0	moderate	[11.1]
	3A	PyGanic 1.4EC	16-64 fl oz/A	12	0	moderate	
Pear psylla	4A	Actara 25WDG	5.5 oz/A	12	35	high	[12.2]
	3A	*Ambush 25WP	12.8-25.6 oz/A	12	PB	moderate	[12.2]
	3A	*Asana XL 0.66EC	7.3-12.8 fl oz/100 gal or 9.6-19.12 fl oz/A	12	28	moderate	[12.2]
	4A	Assail 30SG	4-8 oz/A	12	7	moderate	
	4A	Calypso 4F	1-2 fl oz/100 gal or 4-8 fl oz/A	12	30	high	
	16	Centaur 0.7WDG	34.5-46 oz/A	12	14	high	
	3A	*Danitol 2.4EC	16-21.3 fl oz/A	24	14	moderate	[12.2]
	5	Delegate 25WG	4.5-7 oz/A	4	7	high	[12.2]
	7C	Esteem 35WP	4-5 oz/A	12	45	high	[12.2]
		M-Pede 49L	2 gal/100 gal	12	0	moderate	[12.3]
		oil Protein and a recommendation	1-2 gal/100 gal	12	0	high	[12.4]
	21A	Portal 0.4 EC	2 pt/Acre	12	14 DD		[10.0]
	3A	*Pounce 25WP	12.8-25.6 oz/A	12	PB	moderate	[12.2]
	3A	*Warrior II 2.08 CS	50 lb/A 1.28-2.56 fl oz/A	24	21	moderate moderate	[12.6] [12.2]

Table 12.1.1. Pesticide Spray Table – Pears

Refer to bac	ck of book	for key to	abbreviations	and footnotes.

Dogt	IRAC/ FRAC	Dwaduat	Poto(a)	REI	PHI	Efficacy	Comments
Pest	Code	Product	Rate(s)	(hrs)	(days)	Efficacy	(see text)
Green Cluster	Come	taniala as nacamunan dad Ca					[1 2]
	Same ma	terials as recommended fo	0.25 lb/100 gal or 1	48	1		[1.2]
Pear scab		Topsin M WSB, 70WP	lb/A				[3.2]
		or Thiophanate-methyl 85WDG	.2 lb/100 gal or .8 lb/A	48	1		
		or Inspire Super plus:	8.5-12 fl oz/A	12	14		
		Manzate Max/Penncozeb 75DF	1 lb/100 gal or 3 lb/A	24	BL, 77 (A)		[3.3]
		Manzate Max/ Penncozeb 75DF	2 lb/100 gal or 6 lb/A	24	BL, 77 (A)		[3.3]
		Topsin M WSB, 70WP	0.25 lb/100 gal or 1 lb/A	48	1		[3.2]
		Fontelis	16-20 fl oz/A	28	12		[3.7]
		Merivon	4-5.5 fl oz/acre				[- · · ·]
Pear Midge	_	Aza-Direct 1.2L	11.5-42 fl oz/A	4	0	moderate	[11.1]
O	3A	PyGanic 1.4EC	16-64 fl oz/A	12	0	moderate	
Tarnished plant	3A	*Baythroid XL 1EC	2-2.4 fl oz/A	12	7	high	[19.1]
bug,	9C	Beleaf 50SG	2-2.8 oz/A	12	21	high	
Pear plant bug	3A	*Brigade 10WSB	6.4-32 oz/A	12	14	high	-
		or *Brigade 2EC	2.6-12.8 fl oz/A			C	
	3A	*Danitol 2.4EC	16-21.3 fl oz/A	24	14	high	-
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	21	high	-
	multiple modes of	owing pre-mix products are ness and insecticide resista pest species present are app faction contained in the pro-	nce management, their propriately matched to to duct.	use shou the comb	ald be reserve bination of a	ed for situat ctive ingred	ions when
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	high	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	_
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	high	
White Bud							
Fabraea leaf spot		n Cluster sprays					
Pear scab	Choose f	rom materials listed under					
		Flint 50WG	0.67-0.8 oz/100 gal or 2-2.5 fl oz/A	12	14		[3.4]
		Sovran 50WG	1.0-1.6 oz/100 gal or 3.2-6.4 oz/A	12	30		
		Fontelis	16-20 fl oz/A	28	12		[3.7]
Pear psylla	See Swo	llen Bud sprays					[12.2],[12.4]
Bloom							
Fire blight		Agrimycin 17WP, Streptrol 17WP, or Firewall 17WP	8 oz/100 gal or 24oz/A	12	30		[2.1], [2.8]
		Agrimycin 17WP, Streptrol 17WP, or Firewall 17WP plus:	8 oz/100 gal or 24oz/A	12	30		[2.1], [2.8]

Table 12.1.1. Pesticide Spray Table – Pears

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

	IRAC/ FRAC			REI	PHI		Comments
Pest	Code	Product	Rate(s)	(hrs)	(days)	Efficacy	(see text)
Bloom (continued	1)						
Fire blight (continued)		Glycerine (CP or USP grade)	2 qt/100 gal				
		or Regulaid	1 pt/100 gal				
		Mycoshield	1.0 lb/100 gal	12	60		[2.6]
		Serenade ASO	2-6 qt/A	4	0		[2.7]
		Bloomtime Biological FI		4	PF		[2.5]
Pear scab, Fabrea leaf spot	Choose f	rom materials listed previo	usly				
Petal Fall							
Pear scab,	Choose f	from materials listed previo	usly				
Fabrea leaf spot		Manzate Max/	1 lb/100 gal or 3	24	BL,		[3.3]
		Penncozeb 75DF	lb/A		77(A)		
		Pristine 38WG	14.5-18.5 oz/A	12	0		
		Ziram 76DF	24-32 oz/100 gal	48	14		
Fire blight		Agrimycin 17WP, Streptrol 17WP, or Firewall 17WP	8 oz/100 gal or 24oz/A	12	30		[2.1], [2.8]
		Agrimycin 17WP, Streptrol 17WP, or Firewall 17WP	8 oz/100 gal or 24oz/A	12	30		[2.1], [2.8]
		plus: Glycerine (CP or USP grade)	2 qt/100 gal				
Anhida	1 1	or Regulaid Admire Pro 4.6SC	1 pt/100 gal 2.8 fl oz/A	12	7	high	
Aphids, including Spirea	$\frac{4A}{4A}$	Assail 30SG	2.5-4 oz/A	12	7	high high	•
aphid	-	Aza-Direct 1.2L	11.5-42 fl oz/A	4	0	moderate	•
.	9C	Beleaf 50SG	2-2.8 oz/A	12	21	high	
	4A	Calypso 4F	1-2 fl oz/100 gal or 4-8 fl oz/A	12	30	high	[5.1]
	1B	*Dimethoate 4EC	0.5-1 pt/100 gal or 1-2 qt/A	240 (10 days)	28	moderate	
		M-pede 49L	1- 2 gal/100gal	12	0	moderate	[5.2]
	23	Movento 240SC	6-9 fl oz/A	24	7	high	[5.1]
		Neemix 4.5L	5-7 fl oz/A	4	0	moderate	
	effective multiple	owing pre-mix products are ness and insecticide resista pest species are present and f action contained in the pro-	nce management, their d appropriately matched	use shoule	d be reserv	ved for situat	ions when
	4A/6	*Agri-Flex SC	1.5-2.0 fl oz/100 gal or 5.5-8.5 fl oz/A	12	35	high	[5.1]
		plus: Horticultural spray oil	1 qt/100 gal or 1 gal/A				
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	high	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	

Table 12.1.1. Pesticide Spray Table – Pears

Refer to l	back of	book for	key to abbr	eviations and	l footnotes.

	IRAC/ FRAC	to abbreviations and footi		REI	PHI		Comments
Pest	Code	Product	Rate(s)	(hrs)	(days)	Efficacy	(see text)
Petal Fall (conti	nued)						
Codling moth		Pheromone disruption:	2 4 4 0 9 4				[6.2]
G	4.4	Checkmate CM-F	2.4-4.8 fl oz/A	4	0	1 . 1	FØ 13
Comstock mealybug	4A	Admire Pro 4.6SC	7 fl oz/A	12	7	high	[7.1]
mearybug	4A	Actara 25WDG	4.5-5.5 oz/A	12	35	high	[7.3]
	4A	Assail 30SG	4-4.8 oz/A	12	7	high	_
	4A	Calypso 4F	1-2 fl oz/100 gal or 4-8 fl oz/A	12	30	high	
	16	Centaur 0.7WDG	34.5-46 oz/A	12	14	high	-
	1B	*Diazinon 50WP	1 lb/100 gal	96	21	high	-
	23	Movento 240SC	6-9 fl oz/A	24	7	high	-
	21A	Portal 0.4EC	2 pt/A	12	14	high	-
		owing pre-mix products are					effectivenes
	species a action co	cticide resistance managen re present and appropriate intained in the product.	ly matched to the comb	ination of	active ing	redients and	modes of
	4A/6	*Agri-Flex SC	1.5-2.0 fl oz/100 gal or 5.5-8.5 fl oz/A	12	35	high	[7.3]
		plus: Horticultural spray oil	1 qt/100 gal or 1 gal/A				_
	4A/28	Voliam Flexi WDG	7 oz/A	12	35	high	
Green	28	Altacor 35WDG	2.5-4 oz/A	4	5	high	[9.1]
fruitworms	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	28	high	
	3A	*Baythroid XL 1EC	1.4-2 fl oz/A	12	7	high	
	28	Belt 4SC	3-5 fl oz/A	12	14	high	
	1A	*Lannate 2.4LV	0.75 pt/100 gal or 1.5-3 pt/A	48	7	high	
	1A	or *Lannate 90SP	0.5-1 lb/A			high	
	6	*Proclaim 5SG	0.8-1.2 oz/100 gal or		14	high	
	2.4	4444 . H 2 00 GG	3.2-4.8 oz/A			1.1	
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	21	high	[12.2]
	and insec species a	owing pre-mix products are eticide resistance managent re present and appropriate entained in the product.	nent, their use should be	reserved	for situation	ons when mu	ltiple pest
	3A/4A	*Endigo ZC	5-6 fl oz/A	24	35	high	
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	high	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	
	28/16	Tourismo	12-17 fl oz/acre	12	14	high	
	4A/28	Voliam Flexi WDG	4-7 oz/A	12	35	high	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	high	
Pear psylla	4A	Actara 25WDG	5.5 oz/A	12	35	high	[12.5]
	<u>4A</u>	Admire Pro 4.6SC	7 fl oz/A	12	7	moderate	- 510.53
	6	*Agri-Mek 8SC	0.5-1 fl oz/100 gal or 2.25-4.25 fl oz/A	12	28	high	[12.5]

Table 12.1.1. Pesticide Spray Table – Pears

Refer to back of book for key to abbreviations and footnotes.	Refer to bo	ack of book	for key to	abbreviations	and footnotes.
---	-------------	-------------	------------	---------------	----------------

Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)		
Petal Fall (contil		Troduct	Rate(s)	(1113)	(days)	Lineacy	(See text)		
Pear psylla (continued)	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	28	moderate			
`	4A	Assail 30SG	4-8 oz/A	12	7	moderate	_		
	4A	Calypso 4F	1-2 fl oz/100 gal or 4-8 fl oz/A	12	30	high	[12.5]		
	16	Centaur 0.7WDG	34.5-46 oz/A	12	14	high	-		
	3A	*Danitol 2.4EC	16-21.3 fl oz/A	24	14	moderate	-		
	5	Delegate 25WG	4.5-7 oz/A	4	7	high	[12.5]		
	7C	Esteem 35WP	4-5 oz/A	12	45	high	[12.5]		
	_	M-Pede 49L	2 gal/100 gal	12	0	moderate	[12.3]		
	23	Movento 240SC	6-9 fl oz/A	24	7	high	[12.5]		
	21	Portal 0.4EC	2 pt/A	12	14	high	[12.5]		
	21	Nexter 75WS	6.6-10.67 oz/A	12	7	moderate	[12.5]		
		Surround 95WP	50 lb/A	4	0	moderate	_		
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	21	moderate	[12.2]		
	species a	cticide resistance management present and appropriate ontained in the product. *Agri-Flex SC							
		plus:	or 5.5-8.5 fl oz/A			8	[12.0]		
		Horticultural spray oil	1 qt/100 gal or 1 gal/A				_		
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	high	<u>-</u>		
	4A/28	Voliam Flexi WDG	7 oz/A	12	35	high			
Pear rust mite	6	*Agri-Mek 8SC	0.5-1 fl oz/100 gal or 2.25-4.25 fl oz/A	12	28	high	[13.1], [8.1]		
	21	Nexter 75WS	5.2-10.67 oz/A	12	7	moderate			
	21	Portal 0.4EC	2 pt/A	12	14	high			
	12B	*Vendex 50WP	6-8 oz/100 gal or 1- 2 lb/A	48	14	moderate			
	and insec species a	The following pre-mix product is also labeled for use against this pest; 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.							
	4A/6	*Agri-Flex SC	1.5-2.0 fl oz/100 gal or 5.5-8.5 fl oz/A	12	35	high	[13.1]		
		plus: Horticultural spray oil	1 qt/100 gal or 1 gal/A						
Plum curculio	4A	Actara 25WDG	4.5-5.5 oz/A	12	35	high	[15.1]		
,	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	28	moderate			
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	moderate	-		
	3A	*Brigade 10WSB	6.4-32 oz/A	12	14	moderate	_		

Table 12.1.1. Pesticide Spray Table – Pears

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

	IRAC/						
	FRAC			REI	PHI		Comments
Pest	Code	Product	Rate(s)	(hrs)	(days)	Efficacy	(see text)
Petal Fall (contin							
Plum curculio (continued)	4A	Calypso 4F	1-2 fl oz/100 gal or 4-8 fl oz/A	12	30	high	
	1B	Imidan 70W	0.75-1 lb/100 gal or 2.13-5.75 lb/A	7 days	7	high	
		Surround 95WP	50 lb/A	4	0	moderate	[12.6]
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	21	moderate	
	and insec species a	owing pre-mix products are eticide resistance managen re present and appropriate entained in the product.	nent, their use should be	reserved i	for situati	ons when mu	ltiple pest
	4A/6	*Agri-Flex SC	1.5-2.0 fl oz/100 gal or 5.5-8.5 fl oz/A	12	35	high	[15.1]
		plus: Horticultural spray oil	1 qt/100 gal or 1 gal/A				
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	moderate	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	
	4A/28	Voliam Flexi WDG	6-7 oz/A	12	35	high	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	moderate	
Obliquebanded	11A	Agree WG 3.8WS	1-2 lb/A	4	0	high	[10.1]
leafroller	28	Altacor 35WDG	2.5-4.5 oz/A	4	5	high	
	28	Belt 4SC	3-5 fl oz/A	12	14	high	
	5	Delegate 25WG	4.5-7 oz/A	4	7	high	
	11A	Deliver 18WG	0.5-2 lb/A	4	0	high	
	11A	Dipel 10.3DF	0.5-2 lb/A	4	0	high	
	5	Entrust 80WP	0.67-1 oz/100 gal or 2-3 oz/A	4	7	high	
	5	or Entrust 2SC	6-10 fl oz/A				
	18A	Intrepid 2F	8-16 fl oz/A	4	14	high	
	11A	Javelin 7.5 WDG	0.5-4 lb/A	4	0	high	
	1A 1A	*Lannate 2.4LV or *Lannate 90SP	0.75 pt/100 gal or 1.5-3 pt/A 0.25 lb/100 gal or 0.5-1 lb/A	48	7	moderate	
	6	*Proclaim 5SG	0.8-1.2 oz/100 gal or 3.2-4.8 oz/A	12/48 (E	14	high	
	and insec	owing pre-mix products are cticide resistance managen re present and appropriate entained in the product.	e also labeled for use ag nent, their use should be	reserved	for situati	ons when mu	ltiple pest
	3A/4A	*Endigo ZC	5-6 fl oz/A	24	35	moderate	[10.3]
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	moderate	
	4A/28	Voliam Flexi WDG	4-7 oz/A	12	35	high	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	high	

Table 12.1.1. Pesticide Spray Table – Pears

Refer to back of book for key to abbreviations and footnotes.	Refer to bo	ack of book	for key to	abbreviations	and footnotes.
---	-------------	-------------	------------	---------------	----------------

	IRAC/	io abbreviations ana jooth		DEL	DIII		Commonts
Pest	FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)
Additional Summ		1 Toduct	Rate(s)	(IIIS)	(uays)	Efficacy	(see text)
Fire blight	er Sprays	Agrimycin 17WP,	0.5 lb/100 gal or 24-	12	30		[2.4]
(ONLY after a		Streptrol 17WP, or	48 oz/A	12	30		[2.4]
hailstorm)		Firewall 17WP	10 02/11				
Pear scab,	See Petal	Fall sprays					
Fabraea leaf		1 3					
spot, Sooty							
blotch, Black rot							
Codling moth	28	Altacor 35WDG	2.5-4.5 oz/A	4	5	high	[6.1]
	4A	Assail 30SG	4-8 oz/A	12	7	high	
	22	Avaunt 30WDG	5-6 oz/A	12	28	moderate	
	3A	*Baythroid XL 1EC	2-2.4 fl oz/A	12	7	moderate	<u>.</u>
	28	Belt 4SC	3-5 fl oz/A	12	14	high	<u>.</u>
	4A	Calypso 4F	1-2 fl oz/100 gal or 4-8 fl oz/A	12	30	high	
		Carpovirusine 0.99SC	0.5-1 pt/100 gal	4	0	moderate	
		Cyd-X 0.06SC	1-6 floz/A	4	0	moderate	
	3A	*Danitol 2.4EC	16-21.3 fl oz/A	24	14	moderate	
	5	Delegate 25WG	4.5-7 oz/A	4	7	high	
	11A	Deliver 18WG	0.5-2 lb/A	4	0	moderate	
	11A	Dipel 10.3DF	0.5-2 lb/A	4	0	moderate	
	5	Entrust 80WP	0.67-1 oz/100 gal or 2-3 oz/A	4	7	moderate	
	5	or Entrust 2SC	6-10 fl oz/A			moderate	
	1B	Imidan 70W	0.75-1 lb/100 gal or 2.13-5.75 lb/A	7 days	7	high	
	11A	Javelin 7.5WDG	0.5-4 lb/A	4	0	moderate	
	_	Pheromone disruption:				moderate	[6.2]
		Checkmate CM-F	2.4-4.8 fl oz/A	4	0		
	and insec	wing pre-mix products are sticide resistance managen re present and appropriate ntained in the product.	nent, their use should be	reserved	for situation	ons when mu redients and	ltiple pest
	$\frac{3A/4A}{3A/6}$	*Endigo ZC *Gladiator EC	3.5-4.75 fl oz/100	12	28	moderate moderate	[0.1]
			gal or 14-19 fl oz/A				
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	
	28/16	Tourismo	12-17 fl oz/acre	12	14	high	
	4A/28	Voliam Flexi WDG	4-7 oz/A	12	35	high	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	high	
Comstock	4A	Actara 25WDG	4.5-5.5 oz/A	12	35	high	[7.2],[7.3]
mealybug	4A	Admire Pro 4.6SC	7.0 fl oz/A	12	7	high	
	4A	Assail 30SG	4-8 oz/A	12	7	high	
	4A	Calypso 4F	1-2 fl oz/100 gal or 4-8 fl oz/A	12	30	high	
	16	Centaur 0.7WDG	34.5-46 oz/A	12	14	high	
	1B	*Diazinon 50WP	1 lb/100 gal	96	21	high	
	23 21A	Movento 240SC Portal 0.4EC	6-9 fl oz/A 2 pt/A	24 12	7 14	high high	

Table 12.1.1. Pesticide Spray Table – Pears

Refer to bac	ck of book	for key to	abbreviations	and footnotes.

	IRAC/			DEI	DITT		Comments	
Pest	FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)	
Additional Summ			Rate(s)	(1113)	(uays)	Efficacy	(see text)	
Comstock mealy bug (continued)	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.							
	4A/6	*Agri-Flex SC	1.5-2.0 fl oz/100 gal or 5.5-8.5 fl oz/A	12	35	high	[7.3]	
		plus: Horticultural spray oil	1 qt/100 gal or 1 gal/A					
	4A/28	Voliam Flexi WDG	7 oz/A	12	35	high		
European red mite, Twospotted	6	*Agri-Mek 8SC	0.5-1 fl oz/100 gal or 2.25-4.25 fl oz/A	12	28	high/mod (ERM/ TSSM)	[8.1],[13.1]	
spider mite,	10A	Apollo 4SC	4-8 oz/A	12	21	high/poor		
Pear rust mite	3A	*Brigade 10WSB or *Brigade 2EC	12.8-32 oz/A 5.12-12.8 fl oz/A	12	14	moderate		
	23	Envidor 2 SC	16-18 fl oz/acre	12	7	high		
	20B	Kanemite 15SC	21-31 fl oz/A	12	14	high		
	21	Nexter 75WS	4.4-10.67 oz/A	12	7	high/mod		
	10A	Onager 1EC	12-24 fl oz/A	12	28	high/poor		
	21	Portal 0.4EC	2 pt/A	12	14	high		
	10A	Savey 50DF	3-6 oz/A	12	28	high/poor		
	12B	*Vendex 50WP	6-8 oz/100 gal or 1- 2 lb/A	48	14	moderate		
	10B	Zeal 72WS	2-3 oz/A	12	14	high		
	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.							
	4A/6	*Agri-Flex SC	1.5-2.0 fl oz/100 gal or 5.5-8.5 fl oz/A	12	35	high/ moderate	[8.1]	
		plus: Horticultural spray oil	1 qt/100 gal or 1 gal/A					
	3A/6	*Gladiator EC	4.75 fl oz/100 gal or 19 fl oz/A	12	28	high/poor		
Obliquebanded	11A	Agree WG 3.8WS	1-2 lb/A	4	0	high	[10.2]	
leafroller	28	Altacor 35WDG	2.5-4.5 oz/A	4	5	high		
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	moderate		
	28	Belt 4SC	3-5 fl oz/A	12	14	high		
	5	Delegate 25WG	4.5-7 oz/A	4	7	high		
	11A	Deliver 18WG	0.5-2 lb/A	4	0	high		
	11A	Dipel 10.3DF	0.5-2 lb/A	4	0	high		
	5	Entrust 80WP	0.67-1 oz/100 gal or 2-3 oz/A	4	7	high		
	5	or Entrust 2SC	6-10 fl oz/A			high		
	18A	Intrepid 2F	8-16 fl oz/A	4	14	high		
	11A	Javelin 7.5WDG	0.5-4 lb/A	4	0	high		

Table 12.1.1. Pesticide Spray Table – Pears

Refer to back	of book for k	ey to abbreviations	and footnotes.

	IRAC/ FRAC			REI	PHI		Comment		
Pest	Code	Product	Rate(s)	(hrs)	(days)	Efficacy	(see text)		
Additional Summ			Rate(s)	(III S)	(uays)	Efficacy	(SCC TCAT)		
Obliquebanded eafroller	1B	*Lannate 2.4LV	0.75 pt/100 gal or 1.5-3 pt/A	48	7	moderate			
(continued)	1B	or *Lannate 90SP	0.25 lb/100 gal or 0.5-1 lb/A			moderate			
	6	*Proclaim 5SG	0.8-1.2 oz/100 gal or 3.2-4.8 oz/A	12 or 48 (E)	14	high			
	and insec species a	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.							
	3A/4A	*Endigo ZC	5-6 fl oz/A	24	35	moderate	[10.3]		
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	moderate			
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	moderate			
	4A/28	Voliam Flexi WDG	4-7 oz/A	12	35	high			
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	high			
Pear psylla	Choose f	from materials listed unde	r Petal Fall, except for E	steem			[12.5]		
Pearleaf blister	1A	Sevin XLR Plus, 4F	1.5-3 qt/A	12	3	high	[14.2]		
mite	1A	or Sevin 80S	1.88-3.75 lb/A			high			
Redbanded	11A	Agree WG 3.8WS	1-2 lb/A	4	0	high	[16.1]		
leafroller	28	Altacor 35WDG	2.5-4.5 oz/A	4	5	high			
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	high			
	28	Belt 4SC	3-5 fl oz/A	12	14	high			
	5	Delegate 25WG	4.5-7 oz/A	4	7	high			
	11A	Deliver 18WG	0.5-2 lb/A	4	0	high			
	11A	Dipel 10.3DF	0.5-2 lb/A	4	0	high			
	1B	Imidan 70W	0.75-1 lb/100 gal or 2.13-5.75 lb/A	7 days	7	high			
	11A	Javelin 7.5WDG	0.5-4 lb/A	4	0	high			
	6	*Proclaim 5SG	0.8-1.2 oz/100 gal or 3.2-4.8 oz/A	48	14	high			
	and insec species a	owing pre-mix products are cticide resistance manager are present and appropriate ontained in the product. *Gladiator EC	ment, their use should be	reserved	for situation	ons when mu	ltiple pest		
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high			
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	high			
San Jose scale	4A	Admire Pro 4.6SC	2.8 fl oz/A	12	7	moderate	[20.2]		
	4A	Assail 30SG	8 oz/A	12	7	moderate			
		Centaur 0.7WDG	34.5-46 oz/A	12	14	high			
	16	Contact of the C							
	7C	Esteem 35WP	4-5 oz/A	24	45	high			
			4-5 oz/A 6-9 fl oz/A	24 24	45 7	high high			
	7C 23 The folloand insections species a	Esteem 35WP	6-9 fl oz/A re also labeled for use ag ment, their use should be	24 ainst this reserved	7 pest; howe for situation	high ever, for best ons when mu	ltiple pest		

Table 12.1.1. Pesticide Spray Table - Pears

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

	IRAC/ FRAC			REI	РНІ		Comments	
Pest	Code	Product	Rate(s)	(hrs)	(days)	Efficacy	(see text)	
Additional Summe	er Sprays	(continued)						
San Jose Scale	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	moderate		
(continued)	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	moderate		
Spotted wing	5	Delegate 25WG	4.5-7 oz/A	4	7	moderate	[17.2]	
Drosophila	5	Entrust 80WP	1.5-3 oz/A	4	7	high	[17.2]	
	5	or Entrust 2SC	4-10 fl oz/A			high	_	
	1B	Imidan 70W	0.75-1 lb/100 gal or 2.13-5.75 lb/A	7 days	7	moderate		
Stink bugs,	4A	Actara 25WDG	4.5-5.5 oz/A	12	35	moderate	[18.2]	
including Brown	3A	*Baythroid XL 1EC	2-2.4 fl oz/A	12	7	moderate		
marmorated	3A	*Brigade 2EC	2.6-12.8 fl oz/A	12	14	high		
stink bug	3A	or *Brigade 10WSB	6.4-32 oz/A	12	14	high		
	3A	*Danitol 2.4EC	10.7-21.3 fl oz/A	24	14	moderate	[18.2]	
	1A	*Lannate 2.4LV	2.25 pt/A	96	7	high	[18.2]	
	1A	or *Lannate 90SP	0.75 lb/A	96	7	high		
	_	Surround 95WP	25-50 lb/A	4	0	moderate		
	1A	*Vydate 2L	1.5-3 pt/A	48	14	moderate	[18.2]	
	3A	*Warrior II 2.08CS	1.28-2.56 fl oz/A	24	21	moderate		
	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.							
	3A/4A	*Endigo ZC	5-6 fl oz/A	24	35	high		
	3A/6	*Gladiator EC	3.5-4.75 fl oz/100 gal or 14-19 fl oz/A	12	28	moderate		
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	moderate		
	4A/28	Voliam Flexi WDG	6-7 oz/A	12	35	moderate		
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	21	moderate		

12.2 Pear Disease Notes

12.2.1 Fabraea Leaf Spot

• Biology & Cultural

[1.1] Bosc and Seckel are much more susceptible than Bartlett.

• Pesticide Application Notes

[1.2] It is important to prevent the establishment of early primary infections. Sprays should start at green cluster if the year is wet and disease was prevalent last year; otherwise, wait until white bud. Continue sprays at 10- to 14-day intervals through 1st or 2nd cover. In orchards with high inoculum, apply a mancozeb spray at 7-day intervals after petal fall until reaching either the 77-day PHI or the limit on the number of sprays per season. A 3-wk summer spray schedule will normally maintain control if early infections have been prevented. Summer applications of Sovran or Flint to control scab or sooty blotch will also control Fabraea leaf spot. Pear psylla can facilitate the spread of leafspot during summer, so controlling psylla is

important in high-pressure orchards. Using summer oils to suppress pear psylla may also suppress spread of Fabraea leaf spot during late summer.

12.2.2 Fire Blight

• Biology & Cultural

[2.1] Fire blight is an even more serious disease on pears than it is on apples. In general, the control strategies recommended for apples apply equally to pears. Bartlett, Bosc, Clapps Favorite, and Gorham are all extremely susceptible varieties. D'Anjou is slightly less susceptible, but comparable to the most highly susceptible apple variety; Seckel is considered moderately susceptible. Refer to the discussion of this disease in the "General Pest Management Considerations for Apples" section. For more details on optimizing streptomycin blossom blight sprays, see footnote 8.3 in the apple section

[2.2] The best program for reducing summer spread of fire blight is good psylla control.