





13 Cherries

13.1 Insecticides and Fungicides for Cherries

See Sections 13.2, 13.3, and 13.4 for comments related to this table.

Table 13.1.1. Pesticide Spray Table – Cherries

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

Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)
Late Dormant							
Bacterial canker (<i>Pseudomonas syringae</i>)	M	Kocide 3000	1.1-2.3 lb/100 gal	48	BL, PH (C)		[1.1]
	M	or Cuprofix Ultra 40	5-8 lb/A	48	BL, PH (C)		[1.2]
	-	Badge SC	5-14 pt/A	48	BL		
	-	§Badge X2 or §other coppers	3.5-7 lb/A see comments, read labels	48	BL		
Phytophthora root, crown and collar rots	4	Ridomil Gold 4SL	2 qt/A	48	0		[5.2]
European red mite, Scales	-	§oil	2 gal/100 gal	12	0	high	[11.1],[16.1]
European fruit lecanium scale, San Jose scale	4A	Assail 30SG	5.3-8 oz/A	12	7	moderate	[16.1]
	16	Centaur 0.7WDG	34.5-46.0 oz/A	12	14	high	
	7C	Esteem 35WP	4-5 oz/A	12	14	high	
	1B	*Lorsban Advanced 3.76EC	1.5-4 pt/A	96	PB	high	
	1B	Lorsban 75WG	1.33-2 lb/A	96	14	high	
White bud							
Brown rot (blossom blight)	M5	Bravo Weather Stik 6F	1.0-1.375 pt/100 gal or 3.1-4.1 pt/A or other chlorothalonil formulations (see labels)	12	SS		
	4	Captan 50WP or Captan 80 WDG or Captec 4L	4 lb/A 2.5 lb/A 0.75-1 qt/100 gal or 2 qt/A	24 24 24	0 0 0		[3.1],[3.2]
	M5	Echo 720 or Echo 90DF	1.09-1.4 pt/100 gal 2.25-3.5 lbs/A	12	SS		
	17	Elevate 50WDG	0.33-0.5 lb/100 gal or 1.5 lb/A	12	0		
	7	Fontelis SC	14-20 fl oz /A	12	0		[3.8]
	3	Indar 2F	6fl oz/A	12	0		
	7,11	Merivon	4-6.7 fl oz/acre	12	0		
	2	Meteor 4F	1-2 pt/acre	24	PF		
	3	Tilt	1.0-1.6 fl oz/100 gal or 4 fl oz/A	12	0		
	7,11	Pristine 38WDG	10.5-14.5 oz/A	12	0		
	11	Cabrio EG	9.55 oz/A	12	0		
	3	Quash	2.5-3.5 oz/A	12	14		
	3	Rally 40 WSP	1.25-2 oz 100 gal or 2.5-6 oz/A	24	0		
	2	Rovral 4F	8fl oz/100 gal or 1 pt/A	24	PF		

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Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)
White bud (continued)							
Brown rot (blossom blight) <i>(continued)</i>	M2	Sulfur 92WP	5-10 lb/100 gallons	24	0		
	M2	§Microthiol Disperss	10-20 bl/100 gallons	24	0		
	-	Badge SC	5 pt/A	48	BL		
	-	§Badge X2	3.5-5 lb/A	48	BL		
Black cherry aphid	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	high	[9.1]
	4A	Assail 30SG	2.5-5.3 oz/A	12	7	high	
	-	§Aza-Direct 1.2L	11.5-42 fl oz/A	4	0	moderate	
	-	Azatin XL Plus 3L	10-16 fl oz/A	4	0	moderate	
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	high	
	9C	Beleaf 50SG	2-2.8 oz/A	12	14	high	
	1B	Malathion 57EC	1.5 pt/A	12	3	moderate	
	-	§M-Pede 49L	2 gal/100 gal	12	0	moderate	
	23	Movento	6-9 fl oz/acre	24	7	high	
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	14	high	
	28	Exirel	13.5-20.5 fl oz/A	12	3		
	-	§Des-X	2% vol/vol	12	0		
	-	§PFR 97	1-2 lb/A	4	0		
	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.						
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	[9.1]
Bloom							
Black knot	M5	Bravo Ultrex 82.5 WDG	0.9-1.25 lb/100 gal or 2.8-3.8 lb/A	12	SS		[2.1],[2.2]
	M5	or Bravo Weather Stik 6F	1.0-1.375 pt/100 gal				
Brown rot (blossom blight)	See materials listed under White Bud						[3.1],[3.3], [3.4]
Petal fall							
Black knot	See recommendations under Bloom						[2.1],[2.2]
Brown rot	See recommendations under White Bud						[3.3],[3.5]
Leaf spot	M5	Bravo Ultrex 82.5 WDG	0.9-1.25 lb/100 gal or 2.8-3.8 lb/A	12	SS, PH		[4.1]
	M5	or Bravo Weather Stik 6F or other chlorothalonil formulations (see labels)	1.0-1.375 pt/100 gal				
	4	Captan 50WP	1-2 lb/100 gal or 4 lb/A	24	0		
	4	or Captan 80 WDG	2.5 lb/A	24	0		
	4	or Captec 4L	0.75-1 qt/100 gal or 2 qt/A	24	0		
	M5	Echo 720	1.0-1.4 pt/100 gal	12	SS		
	M5	or Echo 90DF	2.25-3.5 lbs/A				
	7	Fontelis SC	14-20 fl oz /A	12	0		[3.8]
	3	Indar 2F	6- fl oz/A	12	0		

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Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)	
Petal fall (continued)								
Leaf spot (continued)	3	Tilt	1.0-1.6 fl oz/100 gal or 4 fl oz/A	12	0			
	3	Rally 40 WSP	1.25-2 oz/100 gal or 2.5-6 oz/A	24	0			
	11	Gem 500SC	1.9-3.8 oz/A	12	1			
	7,11	Pristine 38WDG	10.5-14.5 oz/A	12	0			
	3	Quash	4 oz/A	12	14			
	M2	Sulfur 92WP	5-10 lb/100 gallons	24	0			
	M2	§Microthiol Disperss	10-20 bl/100 gallons	24	0			
	American plum borer, Lesser peachtree borer	3A	*Ambush 25WP	6.4-12.8 oz/A	12	3	moderate	[8.1],
3A		*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	high	[13.2]	
3A		*Baythroid XL 1EC	1.4-2.8 fl oz/A [see Comment 8.1]	12	7	high		
1B		*Lorsban Advanced 3.76EC	1.5-3 qt/100 gal	96	21	high		
1B		or Lorsban 75WG	1.3-2 lb/A	96	21	high		
3A		*Pounce 25WP	6.4-12.8 oz/A	12	3	moderate		
3A		*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	14	high		
		§Pheromone disruption ties:						
–		Isomate-PTB Dual	150 ties/A			high	[13.1]	
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.								
	3A/6	*Gladiator EC	1.5-4.75 fl oz/100 gal or 6-19 fl oz/A	12	21	high		
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	[8.1]	
Black cherry aphid	[see Comment 9.2]						[9.2]	
Plum curculio	4A	Actara 25WDG	4.5-5.5 oz/A	12	14	high	[15.1]	
	3A	*Ambush 25WP	6.4-12.8 oz/A	12	3	high		
	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	high		
	22A	Avaunt 30WDG	5-6 oz/A	12	14	high		
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	high		
	1B	Imidan-70W (tart cherry only!)	0.75 lb/100 gal or 2.13 lb/A	72	7(C)	high	[15.3]	
	1B	Lorsban 75WG	2 lb/A	96	14	high	[15.3]	
	3A	*Pounce 25WP	6.4-12.8 oz/A	12	3	high		
	1A	Sevin XLR Plus, 4F	2-3 qt/A	12	3	moderate		
	1A	or Sevin 80S	2.5-3.75 lb/A			moderate		
	–	Surround 95WP	50 lb/A	4	0	moderate	[15.2]	
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	14	high		
	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.							

Table 13.1.1. Pesticide Spray Table – Cherries*Refer to back 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 (continued)							
Plum curculio (continued)	3A/6	*Gladiator EC	1.5-4.75 fl oz/100 gal or 6-19 fl oz/A	12	21	high	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	[15.1]
	4A/28	Voliam Flexi WDG	6-7 oz/A	12	14	high	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	
Shuck split							
Brown rot, Leaf spot	M5	Bravo Weather Stik 6F or other chlorothalonil formulations (see labels)	1.0-1.375 pt/100 gal or 3.1-4.1 pt/A	12	SS		[3.1],[3.2]
	4	Captan 50WP	1-2 lb/100 gal or 4 lb/A	24	0		
	4	or Captan 80 WDG	2.5 lb/A	24	0		
	4	or Captec 4L	0.75-1 qt/100 gal or 2 qt/A	24	0		
	M5	Echo 720	1.0-1.4 pt/100 gal	12	SS		
	M5	or Echo 90DF	2.25-3.5 lbs/A				
	7	Fontelis SC	14-20 fl oz /A	12	0		[3.8]
	7,11	Merivon	4-6.7 fl oz/acre	12	0		
	3	Rally 40 WSP (brown rot only)	2.5-6 oz/acre	24	0		
	11	Gem 500SC	1.9-3.8 oz/A	12	1		
	7,11	Pristine 38WDG	10.5-14.5 oz/A	12	0		
	11	Cabrio EG	9.55 oz/A	12	0		
	3	Indar 2F	6fl oz/A	12	0		
	3	Quash	2.5-4. oz/A	12	14		
	M2	Sulfur 92WP	5-10 lb/100 gallons	24	0		
	M2	§Microthiol Disperss	10-20 bl/100 gallons	24	0		
Black knot	M5	Bravo Ultrex 82.5 WDG	0.9-1.25 lb/100 gal or 2.8-3.8 lb/A	12	SS		[2.1],[2.2]
	M5	or Bravo Weather Stik 6F or other chlorothalonil formulations (see labels)	1.0-1.375 pt/100 gal or 3.1-4.1 pt/A				
Black cherry aphid	4A	Admire Pro 4.6SC	1.4-2.8 fl oz/A	12	7	high	[9.1]
	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	high	
	4A	Assail 30SG	2.5-5.3 oz/A	12	7	high	
	–	§Aza-Direct 1.2L	11.5-42 fl oz/A	4	0	moderate	
	–	Azatin XL Plus 3L	10-21 fl oz/A	4	0	moderate	
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	high	
	9C	Beleaf 50SG	2-2.8 oz/A	12	14	high	
	1B	Lorsban 75WG	2 lb/A	96	14	moderate	[9.3]
	1B	Malathion 57EC	1.5 pt/A	12	3	moderate	
	–	§M-Pede 49L	2 gal/100 gal	12	0	moderate	
	23	Movento 240SC	6-9 fl oz/A	24	7	high	
	1A	Sevin XLR Plus, 4F or Sevin 80S	2-3 qt/A 2.5-3.75 lb/A	12	3	high high	
	28	Exirel	13.5-20.5 fl oz/A	12	3		

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Shuck split (continued)								
Black cherry	-	§PFR 97	1-2 lb/A	4	0			
aphid (continued)	-	§Des-X	25% vol/vol	12	0			
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	5-5.5 fl oz/A	24	14	high	[9.1]	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high		
	4A/28	Voliam Flexi WDG	4-7 oz/A	12	14	high		
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	[15.1]	
Plum curculio	See materials under Petal Fall							
Additional summer sprays								
Brown rot	4	Captan 50WP	1-2 lb/100 gal or 4 lb/A	24	0		[3.7]	
	4	or Captan 80 WDG	2.5 lb/A	24	0			
	4	or Captec 4L	0.75-1 qt/100 gal or 2 qt/A	24	0			
	17	Elevate 50WDG	1.0 lb/A	12	0			
	7	Fontelis SC	14-20 fl oz /A	12	0		[3.8]	
	3	Indar 2F	6 oz/A	12	0			
	7,11	Merivon	4-67 fl oz/acre	12	0			
	3	Tilt	1.0-1.6 fl oz/100 gal or 4 fl oz/A	12	0			
	11	Cabrio EG	9.55 oz/A	12	0			
	3	Gem 500 SC	2.9-3.8 oz/A	12	1			
	7,11	Pristine 38WDG	10.5-14.5 oz/A	12	0			
	3	Quash	2.5-4 oz/A	12	14			
	3	Rally 40 WSP	1.25-2 oz/100 gal or 2.5-6 oz/A	24	0			
Leaf spot	Choose from materials listed at Petal Fall.							[4.3]
Powdery mildew		Quintec	7fl oz/A	12	7		[6.1]	
		Rally 40WSP	1.25-2 oz/100 gal or 2.5-6 oz/A	24	0			
		Tilt	1.0-1.6 fl oz/100 gal or 4 fl oz/A	12	0			
		Procure 480SC	8-16 oz/A	12	1			
		Fontelis SC	14-20 fl oz /A	12	0		[3.8]	
		Gem 500SC	1.9-3.8 oz/A	12	1			
		Cabrio EG	9.55 oz/A	12	0			
		Pristine 38WDG	10.5-14.5 oz/A	12	0			
		Quash	2.5-4 oz/A	12	14			
		Sulfur 92WP	5-10 lb/100 gal	24	0			
		U8 Vivando	15.4 fl o/A	12	7			
		§Microthiol Disperss	10-20 lb/100 gal	24	0			
	American plum borer	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	moderate	[8.1]
3A		*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	moderate		

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Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)
Additional summer sprays (continued)							
American plum borer (continued)	1B	Lorsban 75WG	2-3 lb/A	96	21	high	
	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	5-5.5 fl oz/A	24	14	high	[8.1]
	3A/6	*Gladiator EC	1.5-4.75 fl oz/100 gal or 6-19 fl oz/A	12	21	moderate	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	moderate	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	moderate	
Black cherry fruit fly, Cherry fruit fly	4A	Actara 25WDG	4.5-5.5 oz/A	12	14	moderate	[10.1]
	4A	Admire Pro 4.6SC	1.4-2.8 fl oz/A	12	7	moderate	
	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	high	
	4A	Assail 30SG	5.3-8 oz/A	12	7	high	
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	high	
	5	Delegate 25WG	4.5-7 oz/A	4	7	high	
	1B	*Diazinon 50WP	1 lb/100 gal	96	21	high	
	5	§Entrust 80WP	0.42-0.83 oz/100 gal or 1.25-2.5 oz/A	4	7	moderate	
	5	or §Entrust 2SC	1.3-2.7 fl oz/100 gal or 4-8 fl oz/A			moderate	
	1B	Imidan 70-W (tart cherry only)	0.75 lb/100 gal or 2.13 lb/A	72	7(C)	high	[10.3]
	1B	Lorsban 75WG	2 lb/A	96	14	high	[10.3]
	1A	Sevin XLR Plus, 4F	2-3 qt/A	12	3	high	
	1A	or Sevin 80S	2.5-3.75 lb/A			high	
	–	§Surround 95WP	50 lb/A	4	0	moderate	[10.2]
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	14	high	
	28	Exirel	10-17 fl oz/A	12	3		
	21A	Apta	14-27 fl oz/A	12	14		
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 are present and appropriately matched to the combination of active ingredients and modes of action contained in the product.							
	3A/4A	*Endigo ZC	5-5.5 fl oz/A	24	14	moderate	[10.1]
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	
	4A/28	Voliam Flexi WDG	6-7 oz/A	12	14	moderate	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	
European red mite, Twospotted spider mite	10A	Apollo 4SC	2-8 oz/A	12	21	high/poor (ERM/TSSM)	[11.4]
	3A	*Danitol 2.4EC	10.7-21.3 fl oz/A	24	3	moderate	
	21	Nexter 75WS	4.4-10.67 oz/A	12	300(PH)	high/mod	[11.3]
	10A	Onager 1EC	12-24 fl oz/A	12	7	high/poor	
	21	Portal 0.4EC	2 pt/A	12	7	high	
	10A	Savey 50DF	3-6 oz/A	12	28	high/poor	[11.4]
	12B	*Vendex 50WP	1-5-3 lb/A	48	14	moderate	[11.2]

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Additional summer sprays (continued)							
European red mite, Twospotted spider mite (continued)	10B	Zeal 72WS	2-3 oz/A	12	7	high	[11.4]
	-	§PFR 97	1-2 lb/A	4	0		
	-	§Des-X	25% vol/vol	12	0		
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.							
	3A/6	*Gladiator EC	4.75 fl oz/100 gal 19 fl oz/A	12	21	moderate	
Japanese beetle	4A	Admire Pro 4.6SC	1.4-2.8 fl oz/A	12	7	moderate	[12.2]
	4A	Assail 30SG	5.3-8 oz/A	12	7	high	
	1B	Imidan 70-W (tart cherry only)	0.75 lb/100 gal or 2.13 lb/A	72	7(C)	moderate	
	1A	Sevin XLR Plus, 4F or Sevin 80S	2-3 qt/A 2.5-3.75 lb/A	12	3	high	
	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	5-5.5 fl oz/A	24	14	high	[12.2]
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	high	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	
San Jose scale	4A	Admire Pro 4.6SC	2.8 fl oz/A	12	7	moderate	[16.2]
	4A	Assail 30SG	8 oz/A	12	7	moderate	
	16	Centaur 0.7WDG	34.5-46 oz/A	12	14	high	
	7C	Esteem 35WP	4-5 oz/A	12	14	high	
	23	Movento 240SC	6-9 fl oz/A	24	7	high	
	-	§Des-X	25% vol/vol	12	0		
	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.						
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	moderate	
Lesser peachtree borer	-	§Pheromone disruption ties: Isomate-PTB Dual	150 ties/A			high	[13.1]
	3A	*Ambush 25WP	6.4-12.8 oz/A	12	3	moderate	[13.2]
	3A	*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	high	
	3A	*Baythroid XL 1EC	1.4-2 fl oz /A	12	7	high	
	1B	or Lorsban 75WG	1.3-2 lb/A	96	14	high	
	3A	*Pounce 25WP	6.4-12.8 oz/A	12	3	moderate	
	3A	*Warrior II 2.08 CS	1.28-2.56 fl oz/A	24	14	high	
	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	5-5.5 fl oz/A	24	14	high	[13.2]

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Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)
Additional summer sprays (continued)							
Lesser peachtree borer (continued)	3A/6	*Gladiator EC	1.5-4.75 fl oz/100 gal or 6-19 fl oz/A	12	21	moderate	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	
Obliquebanded leafroller	28	Altacor 35WDG	3-4.5 oz/A	4	10	high	[14.1]
	3A	*Baythroid XL 1EC	2.4-2.8 fl oz/A	12	7	moderate	
	28	Belt 4SC	3-4 fl oz/A	12	7	high	
	3A	*Danitol 2.4EC	10.7-21.3 fl oz/A	24	3	moderate	
	5	Delegate 25WG	4.5-7 oz/A	4	7	high	
	11A	Deliver 18WG	0.5-2 lb/A	4	0	high	
	5	§Entrust 80WP	0.42-0.83 oz/100 gal or 1.25-2.5 oz/A	4	7	moderate	
	5	or §Entrust 2SC	1.3-2.7 fl oz/100 gal or 4-8 fl oz/A			moderate	
	11A	Javelin 7.5 WDG	0.25-4 lb/A	4	0	high	
	-	§Grandevo DF	3 lb/A	4	0		
	-	§Venerate XC	1-8 qt/A	4	0		
	28	Exirel	10-20.5 fl oz/A	12	3		
	21A	Apta	21-27 fl oz/A	12	14		
	28,16	Tourismo	10-14 fl oz/A	12	14		
	-	§Deliver	0.5-2 lb/A	4	0		
1B	Lorsban 75WG	1.3-2 lb/A	96	14	moderate	[14.2]	
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	5-5.5 fl oz/A	24	14	moderate	[14.1]
	3A/6	*Gladiator EC	1.5-4.75 fl oz/100 gal or 6-19 fl oz/A	12	21	moderate	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	moderate	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	high	
Spotted wing Drosophila	5	Delegate 25WG	4.5-7 oz/A	4	7	moderate	[17.2]
	5	§Entrust 80WP	0.42-0.83 oz/100 gal or 1.25-2.5 oz/A	4	7	high	[17.2]
	5	or §Entrust 2SC	1.3-2.7 fl oz/100 gal or 4-8 fl oz/A			high	
	1B	Imidan 70WS	0.75 lb/100 gal or 2.13 lb/A	72	7(C)	moderate	[17.2]
	3	Baythroid XL	2.4-2.8 oz/A	12	7	high	
	28	Exirel	13.5-20.5 fl oz/A	12	3	high	
	3	Mustang Max	4 oz/A	12	14	high	
	Stink bugs, including Brown marmorated stink bug	4A	Actara 25WDG	4.5-5.5 oz/A	12	14	moderate
3A		*Asana XL 0.66EC	2-5.8 fl oz/100 gal or 4.8-14.5 fl oz/A	12	14	moderate	
3A		*Baythroid XL 1EC	2-2.4 fl oz/A	12	7	moderate	
3A		*Danitol 2.4EC	10.7-21.3 fl oz/A	24	3	moderate	[18.2]
3A		*Warrior II 2.08CS	1.28-2.56 fl oz/A	24	14	moderate	

Table 13.1.1. Pesticide Spray Table – Cherries

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

Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)
Additional summer sprays (continued)							
Stink bugs, including Brown marmorated stink 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.						
	3A/4A	*Endigo ZC	5-5.5 fl oz/A	24	14	high	
	3A/4A	*Leverage 360	2.4-2.8 fl oz/A	12	7	moderate	
	4A/28	Voliam Flexi WDG	6-7 oz/A	12	14	moderate	
	3A/28	*Voliam Xpress	6-12 fl oz/A	24	14	moderate	
Postharvest							
Leaf spot	M5	Bravo Ultrex 82.5 WDG	0.9-1.25 lb/100 gal or 2.8-3.8 lb/A	12	–		
	M5	or Bravo Weather Stik 6F	0.75-1 lb/100 gal				
	4	Captan 50WP	1-2 lb/100 gal or 4 lb/A	24	–		
	4	or Captan 80 WDG	2.5 lb/A	24	–		
	4	or Captec 4L	0.75-1 qt/100 gal or 2 qt/A	24	–		
	M	C-O-C-S <i>plus:</i> hydrated lime formulations (see labels)	8-15.5 lbs/A 3 lb/100 gal	48	–		[4.4]
	M5	Echo 720 or Echo 90DF	1.0-1.4 pt/100 gal 2.25-3.5 lbs/A	12	–		
	3	Rally 40WSP	1.25-2 oz/100 gal or 2.5-6 oz/A	24	–		
	7	Fontelis SC	14-20 fl oz /A	12	0		[3.8]
	3	Indar 2F	6 fl oz/A	12	–		
	M7	Syllit FL	1.5-3 pint/A	48	–		
	7,11	Pristine 38WDG	10.5-14.5 oz/A	12	–		
	1	Topsin 4.5FL	7.5-10 fl oz/100 gal or 22.5-30 fl oz/A	48	–		
	1	Topsin M WSB	0.375-0.5 lb/100 gal or 1.125-1.5 lb/A	48	–		
	M2	Sulfur 92WP	5-10 lb/100 gallons	24	0		
	M2	§Microthiol Disperss	10-20 bl/100 gallons	24	0		
Powdery mildew	3	Rally 40WSP	1.25-2 oz/100 gal or 2.5-6 oz/A	24	–		[4.4]
	3	Procure 480SC	10-16 oz/A	12	–		
	11	Gem 500SC	1.9-3.8 oz/A	12	–		
	7	Fontelis SC	14-20 fl oz /A	12	0		[3.8]
	11	Cabrio EG	9.55 oz/A	12	0		
	7,11	Pristine 38WDG	10.5-14.5 oz/A	12	–		
	13	Quintec	7fl oz/A	12	7		
	U8	Vivando	15.4 fl oz/A	12	7		
	M2	Sulfur 92WP	5-10 lb/100 gallons	24	0		
	M2	§Microthiol Disperss	10-20 bl/100 gallons	24	0		

Table 13.1.1. Pesticide Spray Table – Cherries

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

Pest	IRAC/ FRAC Code	Product	Rate(s)	REI (hrs)	PHI (days)	Efficacy	Comments (see text)
Postharvest (continued)							
European red mite, Twospotted spider mite	21	Nexter 75WS	4.4-10.67 oz/A	12	300(PH)	high/mod	[11.3]
	3A	*Danitol 2.4EC	10.7-21.3 fl oz/A	24	3	moderate	
Control of Storage Disorders							
Storage rots	12	Scholar SC	16 fl oz/100 gal (see comments & label)				[19.1]
Autumn							
Bacterial canker (<i>Pseudomonas syringae</i>)	M	Kocide 3000	1.1-2.3 lb/100 gal (max 12 lb/A)	48	BL, PH (C)		[1.1]
	M	or Cuprofix Ultra 40 Disperss or other coppers	5-8 lb/A (see comments)	48	BL, PH (C)		[1.2]

13.2 Cherry Disease Notes

13.2.1 Bacterial Canker (*Pseudomonas syringae*)

• Biology & Cultural

[1.1] The pathogen causing bacterial canker is favored by cool, wet weather (spring and fall). It can invade leaf scars in fall and fresh pruning wounds in spring if pruning is done under cool, wet conditions. When pruning, make sure to leave a 6-inch stub, especially when removing scaffold branches as the bacteria appear to be arrested within the stub. Avoid flush cut pruning.

• Pesticide Application Notes

[1.2] We recommend copper applications at 20% and 80% leaf drop in the fall, and one application in the spring late dormant. Position the two applications around any fall pruning. If you are treating sweet cherries, just make one application at 50% leaf drop. Try to time these applications to a warm, dry period. An additional application is also labeled for use after harvest in orchards where disease is severe, although this application should be avoided on sweet cherries in New England due to the potential for leaf injury. Several other commercial copper formulations in addition to those listed may be labeled for this use on cherries. Although they have not been tested, research on other crops suggests that most copper formulations should give comparable rates of control at comparable rates of metallic copper.

13.2.2 Black Knot

• Biology & Cultural

[2.1] Black knot has become an increasingly important problem on sour cherries in recent years. It is a difficult disease to control completely, but good sanitation – removing and destroying infected (knotted) limbs as they appear (make pruning cuts at least 6-8 in below visible

swellings), destroying infected fence row trees and adjacent abandoned orchards (when possible) – is critical. Fungicide sprays are unlikely to provide satisfactory control without good sanitation practices. The most critical time for protecting against infection with fungicides is between white bud and shuck split. Black knot infection periods require rain and temperatures above 55°F; thus, fungicide sprays are most likely to be beneficial under these conditions.

Refer to the reference materials list at the end of this publication for a Fact Sheet containing more details on the biology and management of this disease.

• Pesticide Application Notes

[2.2] Bravo is the most effective fungicide for black knot control. Note that a minimum 10-day re-treatment interval is specified on the label.

13.2.3 Brown Rot (Blossom & Shoot Blight)

• Biology & Cultural

[3.1] Blossom blight is most likely to occur when the weather is warm (above 60°F) and wet during bloom or when large numbers of fruit were not harvested the previous year. Blossom blight may also be serious at lower temperatures if prolonged wetting periods occur. Blossom sprays on tart cherries may often be reduced or eliminated if none of these conditions occur. Blossom blight is much more serious on sweet cherry than on sour cherry.

[3.2] Sweet (but not sour) cherry fruit are very susceptible to brown rot for the first few weeks after they set. Protection is therefore important at this time, particularly in wet weather.

Refer to the reference materials list at the end of this publication for a Fact Sheet containing more details on the biology and management of this disease.

[3.3] *Monlinia laxa* commonly referred to as European brown rot is present in the region and can cause extensive blossom and shoot blight in cool wet weather at