







FIGURE 13.1.1

GROWTH STAGES IN TART CHERRY

1. Dormant 2. Swollen bud 3 Bud burst 4a. Early white bud 4b. White bud 5. Bloom 6. Petal fall 7. Fruit set

















FIGURE 13.1.2

GROWTH STAGES IN SWEET CHERRY

Dormant
 Swollen bud
 Bud burst
 Early white bud
 White bud
 Bloom
 Petal fall
 Fruit set









13 General Pest Management Considerations – Cherries

13.1 Diseases

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.

The optimum timing and effectiveness of (§)copper applications for control of bacterial canker is during the fall (after leaf fall) and spring (before bud burst). Label directions specify one application in the fall "before heavy rains begin" and another at late dormant. A third application before bud burst in the spring is also recommended. (For more information on bacterial canker and control, see the fact sheet at: http://www.fruitadvisor.info/pubs/ bacterialcanker.pdf) 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.

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 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.

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.

Brown Rot (Blossom blight & 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] *Monilinia 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 bloom. *M. laxa* may affect both sweet and tart cherries, but is primarily a problem on European or dark-fleshed tart cherry varieties.

• Pesticide Application Notes

[3.4] When used at a rate of 10 oz/100 gal, Rovral 50W provides 24-48 hr kickback activity against blossom blight infections. Only 2 sprays of Rovral are allowed per season. Indar and Tilt also have significant kickback activity. For resistance management purposes, it is recommended that the SI fungicides (Indar, Tebuzol, Tilt, Rally) should not be used routinely throughout the season for BOTH blossom blight AND fruit rot control.

[3.5] More than one blossom blight spray is rarely needed unless disease pressure is extreme.

[3.6] Young sweet cherry fruit are very susceptible to brown rot. Thus, a petal fall spray is recommended on sweet cherries if weather is wet; much less necessary on sour cherries.

[3.7] Do not use chlorothalonil (Bravo, Applause, Concorde, Echo, Equus) after shuck split; may resume use after harvest. Chlorothalonil has much longer residual activity than other fungicides labeled at shuck split, and is recommended if prolonged protection is needed. Also, chlorothalonil has a limited effect on *Monilinia. laxa*, and should be used in combination with a material from 3.8 in orchards where both *M. laxa* and *M. fructicola* are present. Indar is the most effective fungicide against brown rot on cherries.

[3.8] Fruit becomes increasingly susceptible to brown rot during the last 3 wk before harvest. It is therefore recommended that spray intervals be tightened during this period and that superior brown rot fungicides be used if disease pressure is high (warm and wet), especially on sweet cherries.

Indar is the most effective fungicide for control of brown rot under high disease pressure, and provides excellent residual activity. It may be applied at 7-10-day intervals as needed. Cabrio, Tilt, and Pristine are also excellent brown rot fungicides with no preharvest interval restrictions. Sulfur and captan plus sulfur do not provide adequate control on sweet cherries. The maximum allowable rate of 4 lb/A for captan is inadequate on trees greater than 10 ft tall, particularly on sweet cherries.

[3.9] Do not use Inspire Super on sweet cherries.

Leaf Spot

Pesticide Application Notes

[4.1] Primary leaf spot infections can occur from petal fall until after harvest; it is, therefore, important to maintain adequate spray deposits prior to infection periods (see Table 6.2.5) throughout this time. Chlorothalonil fungicides (Bravo, Applause, Concorde, Echo, Equus) have the longest residual activity. They also provide some control of black knot.

Indar and Tilt have approximately 3 days of postinfection activity, and can be used in this manner when necessary. However, leaf spot has shown resistance to SI fungicides in some orchards in Michigan, and regular use of post-infection timing will spread selection for resistance. Thiophanate-methyl (Topsin M) is no longer recommended for use on cherries because of widespread brown rot resistance and suspected leaf spot resistance. Captan may cause leaf injury on Schmidt, Emperor Francis, and Giant sweet cherries if used between petal fall and harvest. (§)Sulfur has short residual activity and must be reapplied frequently in wet seasons. Syllit has little effect against brown rot.

[4.2] Do not use chlorothalonil (Bravo, Applause, Concorde, Echo, Equus) after shuck split; may resume use after harvest. Chlorothalonil has much longer residual activity than other fungicides labeled at shuck split, and is recommended if prolonged protection is needed.

[4.3] Do not use captan on sensitive sweet cherry varieties in the preharvest sprays. Do not use chlorothalonil between shuck split and harvest.

[4.4] Do not use copper on sweet cherries.

Phytophthora Root, Crown, and Collar Rots

Biology & Cultural

[5.1] Cherry rootstocks are significantly more susceptible to Phytophthora root, crown, and collar rots

than are apples. Mahaleb is more susceptible than Mazzard or Colt. The Gisela rootstocks (G.5, G.6) are not particularly susceptible. The main defenses against these diseases should be providing good soil drainage through proper site selection and physical manipulations such as tiling or planting on berms; in marginal sites or very wet years, berms are much more effective than tiling. Highly susceptible rootstocks (e.g., Mahaleb) also should be avoided on marginal sites. However, Ridomil will provide additional protection in wet years, on marginal sites, or in wetter sections of the orchard. See comment **5.2** about applications.

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

[5.2] Ridomil applications should be made just before growth starts in the spring and at 2-3-month intervals thereafter if soil conditions are very wet. Apply to the soil beneath the tree canopy in sufficient water to ensure good coverage (material is moved into the soil by subsequent rain or irrigation). Do not apply Ridomil to newly planted trees. See label for further details.

Powdery Mildew

Pesticide Notes

[6.1] To control mildew, include an appropriate fungicide in each spray from 2nd fruit fly spray through the postharvest application. Rally is most effective.

[6.2] Do not use copper on sweet cherries.

X-Disease

• Pesticide Application Notes

[6.1] Refer to "Additional Summer Sprays" section in Pesticide Spray Table for Peaches and Nectarines.

13.2 Insects and Mites

American Plum Borer

Biology & Cultural

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

• Pesticide Application Notes

[8.1] Application recommended against newly emerging adults, shortly after petal fall. If fresh borer activity is noted in early July, follow up with an additional application by mid-July. For *Lorsban Advanced, *Lorsban 4E and Asana, apply as a coarse, low-pressure spray to give uniform coverage of tree trunks and lower limbs. Pounce not labeled for American plum borer. Avoid Lorsban contact with foliage in sweet cherries or premature leaf drop may occur. Rate of *Baythroid for lesser peachtree borer: 1.4-2.0 fl oz/A; for American plum borer: 2.4-2.8 fl oz/A. For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo *Leverage and *Voliam Xpress should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

[8.2] The July and August lesser peachtree borer sprays will additionally provide control of 2nd brood American plum borer. Refer to comment [13.2].

Black Cherry Aphid

Pesticide Application Notes

[9.1] Prebloom spray recommended, just before blossoms open, and during summer if needed. Because of toxicity to bees, Sevin is not recommended for prebloom aphid treatments. Movento must be used with a horticultural mineral oil or nonionic spray adjuvant. Do not apply§M-Pede to sweet cherries between fruit formation and harvest.

For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo, *Leverage, *Voliam Flexi and *Voliam Xpress should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

Suggested action threshold: 4 infested terminals/tree.

[9.2] No separate spray recommended at petal fall. Sevin and Imidan applied for plum curculio will also control black cherry aphid.

Black Cherry Fruit Fly, Cherry Fruit Fly

Biology & Cultural

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

Pesticide Application Notes

[10.1] Make 1st spray 7 days after flies emerge (when Early Richmond starts to color); 2nd and 3rd sprays at 7- to 10-day intervals. Sevin is recommended as an emergency treatment near harvest. Imidan is for use on tart cherries only; not registered for black cherry fruit fly.

For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo, *Leverage, *Voliam Flexi and *Voliam Xpress should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

[10.2] Frequent applications (7-10-day intervals) of §Surround and maximal coverage (minimum of 100 gal/A) are advised while there is active foliar growth. If cherries are for fresh market, discontinue application of Surround when fruit are half size (approx. ¹/₄ inch) if no washing is available.

[10.3] Persons not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-Pick" or similar operations, cannot enter a treated area for 14 days after application of Imidan.Use of Imidan on tart cherries only.

Brown Marmorated Stink Bug – refer to section on Stink Bugs

European Red Mite

Biology & Cultural

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

Pesticide Application Notes

[11.1] Apply (§)oil against overwintering eggs.

[11.2] Do not apply Nexter, Portal, Vendex or Zeal more than 2 times per season.

[11.3] Use lower rate of Nexter for European red mite, higher rate for twospotted spider mite (see label). For postharvest use only; 300 day pre-harvest interval.

[11.4] Apollo, Envidor, Onager and Savey limited to 1 application per season.

[11.5] Portal for non-bearing trees only.

Japanese Beetle

Biology & Cultural

[12.1] Adults emerge from the soil between early July and mid-August to feed on numerous trees and shrubs. In cherry trees, beetles devour the tissue between the veins, leaving a lace-like skeleton. Severely injured leaves turn brown and often drop. Adults are most active during the warmest parts of the day and prefer to feed on plants that are fully exposed to the sun.

• Pesticide Application Notes

[12.2] Although pheromone traps are available and can be hung in the orchard in early July to detect the beetles' presence, they are generally NOT effective at trapping out the beetles. Fruit and foliage may be protected from damage by applying Admire Pro, Sevin, Assail or *Leverage; repeated applications may be required.

For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo, *Leverage and *Voliam Xpress should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

Lesser Peachtree Borer, Peachtree Borer

Biology & Cultural

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

Biological & Non-chemical Control

[13.1] Hang (§)pheromone ties at shuck split before moth flight begins. Use Isomate PTB-Dual at a rate of 150 ties per acre. Use a higher rate (200-250/A) for outside edges of border blocks; areas that haven't been disrupted before and have high populations; and in blocks smaller than 5 acres.

Pesticide Application Notes

[13.2] For Lorsban and pyrethroids, apply as a coarse spray to trunk and lower limbs in up to 3 sprays; June 1-10, July 7-15, and August 1-10. Or use *Lorsban as a single post harvest spray. Do not spray fruit. The July and August sprays will additionally provide control of 2nd brood American plum borer.

For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo, *Leverage and *Voliam Xpress should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

Obliquebanded Leafroller

Biology & Cultural

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

Pesticide Application Notes

[14.1] Apply in early July when larvae are small (approximately 360-450 DD [base 43° F] after 1st trap catch.

[14.2] For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo, *Leverage and *Voliam Xpress should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

Plum Curculio

Biology & Cultural

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

• Pesticide Application Notes

[15.1] Apply sprays when last petals are falling (early fruit set) and at 8- to 10-day intervals. Use 2-4 sprays. Sweet cherry fruit will incur considerable damage from the early migration of plum curculio if not protected with a recommended insecticide. Imidan is for use on tart cherries only; causes severe foliage injury to sweet cherries. Sevin and Imidan will also control black cherry aphid.

[15.2] Frequent applications (7-10 day intervals) of §Surround and maximal coverage (minimum of 100 gal/A) are advised while there is active foliar growth. If

cherries are for fresh market, discontinue application of Surround when fruit are half size (approx. ¹/₄ inch) if no washing is available.

[15.3] Do not apply Actara between the prebloom (swollen bud) and post bloom (petal fall) growth stages.

For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Leverage and *Voliam Xpress should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

[15.4] Persons not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-Pick" or similar operations, cannot enter a treated area for 14 days after application of Imidan. Imidan for tart cherries only.

Scales, including European Lecanium and San Jose Scale

Pesticide Application Notes

[16.1] Apply (§)oil at budburst against overwintering immatures; thorough coverage improves efficacy.

[16.2] One application 4-6 weeks after shuck split against crawler stages. Movento must be used with a horticultural mineral oil or nonionic spray adjuvant.

Spotted Wing Drosophila

Biology & Cultural

[17.1] This is an exotic species of vinegar fruit fly, a group normally attracted to damaged and rotting fruit. But in contrast to endemic Drosophila fruit flies, it has a serrated ovipositor and will lay eggs in intact ripening fruit on the tree and on the farmstand shelf. It is also a pest of berry fruit crops. Originally known from Japan, it has been found throughout New England since 2011. Refer to the reference materials list (17.4) at the end of this publication for fact sheets containing details on the biology and management of this species.

• Monitoring

[17.2] Vinegar-baited traps are not effective as an indicator of first emergence. There are two other baited traps that are more effective: 1) an Enhanced Apple Cider Vinegar baited trap using apple cider vinegar + denatured ethanol (alcohol) + unscented dishwasher soap; OR, 2) Standard Yeast Bait consisting of water+sugar+active dried yeast+unscented dishwasher soap. Inspect ripening fruit for larvae.

• Pesticide Application Notes

[17.3] Apply at first signs of adult activity when fruits are beginning to ripen. If repeated applications are necessary, rotate active ingredients to avoid promoting resistance in local populations.. Pyganic can provide adult knockdown but has a very short residual of 0-2 days. *Imidan is for use on tart cherries only.

[17.4] Persons not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-Pick" or similar operations, cannot enter a treated area for 14 days after application of Imidan. Imidan for tart cherries only.

Stink Bugs (including Brown Marmorated Stink Bug)

• Biology & Cultural

[18.1] A number of native stink bug species (Brown, Dusky and Green Stink Bugs) can sometimes cause fruit damage in all tree fruits under conditions that are not fully understood. Adult feeding during bloom and shuck split can cause the fruit to abort, and feeding later in the summer can cause a deep catfacing injury such as that caused by tarnished plant bug, or depressed, dimpled, corky or water-soaked areas on the skin. All tree fruits are attacked, especially peaches and apples. Other species of stink bugs are predators. Elimination of alternate host broadleaf weeds, especially legumes, in the orchard will contribute to management efforts. If control is needed, insecticides should be timed to kill immigrating adults as they appear in the orchards to prevent feeding damage and subsequent mating and egglaying.

The brown marmorated stink bug is an invasive species from Asia that was first documented in Allentown, PA in 2001. It has caused extensive damage to apple and peach crops in the Mid-Atlantic states in recent years. It has a wide host range and is more likely to reproduce in orchards as compared to native stink bugs. This insect has spread across a number of eastern US States, and now extends to the west coast as well. It was first documented in Connecticut in 2008. Although it can be found throughout Connecticut and other New England states in and around structures, extensive monitoring efforts in Connecticut in 2011 and 2012 resulted in very few detections in agricultural crops; however, reports of sightings have been increasing. Refer to the reference materials list (17.4) at the end of this publication for fact sheets containing details on the biology and management of brown marmorated stink bug.

• Pesticide Application Notes

[18.2] Apply at first signs of infestation; BMSB are very mobile pests, and may reinfest the treated area quickly. If repeated applications are necessary, rotate active ingredients to avoid promoting resistance in local populations. *Danitol has a FIFRA Section 2(ee) registration for BMSB; the labeling must be in the possession of the user at the time of pesticide application. For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo, *Leverage and *Voliam Flexi should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

Storage Rots

Pesticide Application Notes

[19.1] A postharvest treatment with Scholar SC via flooders, T-jet, or similar system for control of storage rots is recommended for fruit coming from orchards where sporulating brown rot was observed, or when one hopes keep fruit in cold storage for a few days prior to sale. Holding tanks in postharvest treatment equipment must have excellent agitation to keep fungicides in suspension. Solutions must be replenished regularly as directed on the product label. Never expose treated fruit to direct sunlight. This will cause the fungicide to break down.

13.3. Cherry Spray Table

Table 13.3.1. Pesticide Spray Table – Cherries

Pest		Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
Late Dormant							
Bacterial		Kocide 3000		3.5-7.0 lb/A	48	BL, PH	[1.1]
canker	OR	Cuprofix Disperss 40DF		5.0-8.0 lb/A	48	BL, PH	
Pseudomonas syringae		or other (§)coppers	see comments				
Phytophthora root, crown and collar rots		Ridomil Gold SL 4EC	1.5 fl oz/1,000 sq ft treated	2.0 qt/A	48	0	[5.2]
Bud Burst							
European red mite, Scale insects		(§)oil	2 gal/100 gal		12	0	[11.1], [16.1]

Pest		Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
White Bud							
Brown rot (blossom blight)		Bravo WeatherStik	1.0-1.4 pt/100 gal	3.1-4.1 pt/A	12 hr/7 days (E)	SS	[3.1,3.2]
		or other chlorothalonil form	mulations (see labels)				_
	OR	Captan 50WP	2 lb/100 gal	4 lb/A	24	0	_
	OR	Echo 720 6F	1.1-1.4 pt/100 gal	3.1-4.1 pt/A	12 hr/7	SS	
		or Echo 90DF	0.75-1.2 lb/100 gal	2.25-3.5 lb/A	days(E)		_
	OR	Elevate 50WDG		1.5 lb/A	12	0	_
	OR	Fontelis 1.67		14-20 fl oz/A	12	0	-
	OR	Gem 500SC		1.9-3.8 oz/A	12	1	-
	OR	Indar 2F		6.0 fl oz/A	12	0	[3.4]
	OR	Inspire Super		16-20 fl oz/A	12	2	[3.9]
	OR	Merivon		4.0-6.7 fl oz/A	12	0	-
	-	Meteor 4F		1-2 pt/A	24	PF	-
	OR	Pristine 38WDG		10.5-14.5 oz/A	12	0	
	OR	Quash 50 WDG		2.5-3.5 oz/A	12	14	
	OR	Rally 40 WSP		2.5-6.0 oz/A	24	0	-
	OR	Rovral 4F		1.0-2.0 pt/A	24	PF	_
	OR	Sulfur 92WP	5-10 lb/100 gal		24	0	_
	OR	§Microthiol Disperss	10-20 lb/100 gal		24	0	
	OR	Tilt 3.6EC		4.0 fl oz/A	12	0	
Black cherry ophid		Asana XL 0.66 EC	2.0-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	14	-
	OR	Assail 30 SG		2.5-5.3 oz/A	12	7	
	OR	§Aza-Direct 1.2L		1.0-2.0 pt/A	4	0	
	OR	Azatin XL		10-16 fl oz/A	4	0	
	OR	*Baythroid XL 1EC		2.4-2.8 fl oz/A	12	7	<u>.</u>
	OR	Beleaf 50 SG		2.0-2.8 oz/A	12	14	-
	OR	Malathion 57EC		1.5 pt/A	12	3	<u>.</u>
	OR	§M-Pede 49L	2 gal/100 gal		12	0	[9.1]
	OR	Movento		6.0-9.0 fl oz/A	24	7	[9.1]
	OR	*Proaxis 0.5 CS		2.6-5.1 fl oz/A	24	14	_
	OR	*Warrior II		1.3-2.6 fl oz/A	24	14	
	and spec	following pre-mix product i insecticide resistance manag- ies are present and appropri on contained in the product.	gement, its use should	be reserved for sit	tuations wh	en multip	le pest
Bloom		*Voliam Xpress		6-12 fl oz/A	24	14	
Black knot		Bravo Ultrex 82.5WDG	0.9-1.25 lb/100 gal	2.8-3.8 lb/A	12 hr/7 days (E)	SS	[2.1], [2.2
		or Bravo Weather Stik 6F	1.0-1.4 pt/100 gal	3.1-4.1 pt/A	uu y 5 (L)		
Brown rot blossom blight)		See materials listed under		5.1 1.1 p#11			[3.1], [3.4 [3.5]

Pest		Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
Petal Fall							
Black knot		See recommendations und	er Bloom				[2.1], [2.2]
Brown rot		See recommendations und	er White Bud				[3.4], [3.6]
Leafspot		Bravo Ultrex 82.5WDG	0.9-1.25 lb/100 gal	2.8-3.8 lb/A	12 hr/7 days(E)	SS, PH	[4.1]
		or Bravo Weather Stik 6F	1.0-1.4 pt/100 gal	3.1-4.1 pt/A			
		or other chlorothalonil form	nulations (see labels)				=
	OR	Captan 50WP	1-2 lb/100 gal	4 lb/A	24	0	_
	OR	Echo 720 6F	1.0-1.4 pt/100 gal	3.1-4.1 pt/A	12 hr/7	SS	
		or Echo 90DF	0.75-1.2 lb/100 gal	2.25-3.5 lb/A	days (E)		_
	OR	Gem 500SC		1.9-3.8 oz/A	12	1	_
	OR	Indar 2F		6.0 fl oz/A	12	0	_
	OR	Pristine 38WDG		10.5-14.5 oz/A	12	0	_
	OR	Quash		4 oz/A	12	14	
	OR	Rally 40 WSP		2.5-6.0 oz/A	24	0	
	OR	Vintage 1EC	3.0-4.0 fl oz/100 gal	6.0-12.0 fl oz/A	24	0	
	OR	Sulfur 92WP	5-10 lb/100 gal		24	0	
	OR	§Microthiol Disperss	10-20 lb/100 gal		24	0	
	OR	Syllit FL		1.5-3.0 pt/A	48	7	
	OR	Tilt 3.6EC		4.0 fl oz/A	12	0	
American plum		Asana XL 0.66 EC	2.0-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	14	[8.1]
oorer,	OR	*Baythroid XL 1EC	C	2.4-2.8 fl oz/A	12	7	
Lesser	OR		1.5-3 qt/100 gal		96	21	-
Peachtree borer		or Lorsban 75WG	2.0-4.0 lb/100 gal		96	21	
		or *Lorsban Advanced 3.8EC	1.5-3 qt/100 gal		96	21	_
	OR	*Pounce 25WP		6.4-12.8 oz/A	12	3	
	OR	*Proaxis 0.5CS		2.6-5.1 fl oz/A	24	14	-
	OR	*Warrior II		1.3-2.6 fl oz/A	24	14	-
	OR	(§)Pheromone disruption ti	ies:				-
		Isomate PTB-Dual		150 ties/A			[13.1]
	and i spec	following pre-mix product i insecticide resistance manag ies are present and appropria on contained in the product.	gement, its use should	be reserved for sit	uations wh	en multip	le pest
		*Voliam Xpress		6-12 fl oz/A	24	14	[8.1]
Black cherry aphid		(See comment 9.2)					[9.2]
Plum curculio		Actara		4.5-5.5 oz/A	12	14	[15.1],
	OR	*Asana XL 0.66EC	2-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	14	[15.3]
	OR	Avaunt 30 WDG	~	5.0-6.0 oz/A	12	14	-
	OR	*Baythroid XL 1EC		2.4-2.8 fl oz/A	12	7	-
	OR	Imidan 70WP	0.75 lb/100 gal	2.1-2.5 lb/A	72	7(C)	[15.1], [15.4

Pest	4	Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
Petal Fall (con				(1120 - 1)	10	2	
Plum curculio (continued)		*Pounce 25WP		6.4-12.8 oz/A	12	3	-
(continuea)	OR	*Proaxis 0.5CS		2.6-5.1 fl oz/A	24	14	-
		Sevin XLR Plus, 4F		2.0-3.0 qt/A	12	3	-
	OR	§Surround 95WP		25-50 lb/A	4	0	[15.2]
		*Warrior II		1.3-2.6 fl oz/A	24	<u>14</u>	<u> </u>
	and spec	following pre-mix products insecticide resistance manag- ies are present and appropri- on contained in the product	gement, their use shoul	d be reserved for	situations w	when mult	tiple pest
		*Leverage 360		2.4-2.8 fl oz/A	12	7	[15.3]
	OR	*Voliam Xpress		6-12 fl oz/A	24	14	[15.3]
Shuck Split							
Brown rot,		Bravo WeatherStik 6F	1.0-1.4 pt/100 gal	3.1-4.1 pt/A	12 hr/	SS	[3.2], [3.7]
Leaf spot		or other chlorothalonil for	mulations (see labels)		7days(E)		_
	OR	Cabrio		9.5 oz/A	12	0	_
	OR	Captan 50WP	2 lb/100 gal	4 lb/A	24	0	_
	OR	Echo 720 6F	1.1-1.4 pt/100 gal	3.1-4.1 pt/A	12 hr/7	SS	
		or Echo 90DF	0.75-1.2 lb/100 gal	2.25-3.5 lb/A	days(E)		_
	OR	Fontelis 1.67		14-20 fl oz/A	12	0	_
	OR	Gem 500SC		1.9-3.8 oz/A	12	1	_
	OR	Indar 2F		6.0 fl oz/A	12	0	_
	OR	Inspire Super		16-20 fl oz/A	12	2	[3.9]
	OR	Merivon		4.0-6.7 fl oz/A	12	0	
	OR	Pristine		10.5-14.5 oz/A	12	0	_
	OR	Quash 50WDG		2.5-4.0 oz/A	12	14	-
	OR	Rally 40 WSP		2.5-6.0 oz/A	24	0	-
Black knot		Bravo Ultrex 82.5WDG	0.9-1.25 lb/100 gal	2.8-3.8 lb/A	12 hr/7	SS	[2.1], [2.2]
		or Bravo Weather Stik 6F	1.0-1.4 pt/100 gal	3.1-4.1 pt/A	days (E)		
		or other chlorothalonil for	mulations (see labels)				
Black cherry		Admire Pro		1.4-2.8 fl oz/A	12	7	[9.1]
aphid	OR	Asana XL 0.66 EC	2.0-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	14	[9.1]
	OR	Assail 30 SG		2.5-5.3 oz/A	12	7	
	OR	§Aza-Direct 1.2L		1.0-2.0 pt/A	4	0	_
	OR	Azatin XL		10-16 fl oz/A	4	0	-
	OR	*Baythroid XL 1EC		2.4-2.8 fl oz/A	12	7	-
	OR	•		2.0-2.8 oz/A	12	14	-
	OR	Malathion 57EC		1.5 pt/A	12	3	-
	OR	§M-Pede 49L	2 gal/100 gal	ł	12	0	-
	OR	*		6.0-9.0 fl oz/A	24	7	-
							-
	OR	*Proaxis 0.5CS		2.6-5.1 fl oz/A	24	14	
	OR OR	*Proaxis 0.5CS Sevin XLR Plus, 4F		2.6-5.1 fl oz/A 2.0-3.0 qt/A	24 12	<u>14</u> 3	_

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

Pest Shuck Split (co	ontinu	Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
Black cherry aphid (continued)	The and i	following pre-mix products insecticide resistance mana ies are present and appropr on contained in the product.	gement, their use shoul iately matched to the co	ld be reserved for s	ituations	when mult	iple pest
		*Endigo ZC		5-5.5 fl oz/A	24	14	
	OR			2.4-2.8 fl oz/A	12	7	_
	OR	*Voliam Flexi WDG		4.0-7.0 oz/A	12	14	_
	OR	*Voliam Xpress		6-12 fl oz/A	24	14	_
Plum curculio		See materials under Petal	Fall				[15.1]
Additional Sun	nmer						
Brown rot		Captan 50WP	2 lb/100 gal	4 lb/A	24	0	[3.8]
	OR		8	9.5 oz/A	12	0	
	OR			1.5 lb/A	12	0	
	OR	Fontelis 1.67		14-20 fl oz/A	12	0	
		Indar 2F		6.0 fl oz/A	12	0	
	OR	Inspire Super		16-20 fl oz/A	12	2	[3.9]
	OR			4.0-6.7 fl oz/A	12	0	
	OR	Pristine 38WDG		10.5-14.5 oz/A	12	0	-
	OR	Quash 50 WDG		2.5-3.5 oz/A	12	14	-
	OR	Rally 40 WSP		2.5-6.0 oz/A	24	0	
	OR	Tilt 3.6EC		4.0 fl oz/A	12	0	
Leaf spot		ose from materials listed at rothalonil products which c					[4.2]
Powdery	OR	Cabrio		9.5 oz/A	12	0	[6.1]
mildew	OR	Gem 500SC		1.9-3.8 oz/A	12	1	
	OR	Rally 40 WSP		2.5-6.0 oz/A	24	0	_
	OR	Sulfur 92WP	5-10 lb/100 gal		12	0	_
	OR	§Microthiol Disperss	10-20 lb/100 gal		24	0	
	OR	*Procure 50W		8.0-16.0 oz/A	12	1	
	OR	Pristine 38WDG		10.5-14.5 oz/A	12	0	_
	OR	Quash 50 WDG		2.5-4.0 oz/A	12	14	
	OR	Quintec 2.08 EC		7 fl oz/A	12	7	
	OR	Tilt 3.6EC		4.0 fl oz/A	12	0	
	OR	Vintage 1EC	3.0-4.0 fl oz/100 gal	6.0-12.0 fl oz/A	24	0	-
American plum	OR	Asana XL 0.66 EC	2.0-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	14	[8.1]
borer	OR	*Baythroid XL 1EC		2.4-2.8 fl oz/A	12	7	
	OR	*Lorsban 4EC	1.5-3 qt/100 gal		96	21	
		or *Lorsban Advanced	1.5-3 qt/100 gal		96	21	
		or Lorsban 75WG	2.0-4.0 lb/100 gal		96	21	
	OR	*Proaxis 0.5CS	2.6-5.1 fl oz/A		24	14	
	OR	*Warrior II		1.3-2.6 fl oz/A	24	14	

Table continued on next page.

Pest		Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
Additional Sun	nmer	Sprays (continued)	a constant				
American plum borer (continued)	and i spec	following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product.	ement, their use shoul	d be reserved for si	ituations	when mult	iple pest
		*Endigo ZC		5-5.5 fl oz/A	24	14	
	OR	*Leverage 360		2.4-2.8 fl oz/A	12	7	-
	OR	*Voliam Xpress		6-12 fl oz/A	24	14	_
Black cherry		Actara 25WDG		4.5-5.5 oz/A	12	14	[10.1]
fruit fly	OR	Admire Pro		1.4-2.8 fl oz/A	12	7	-
Cherry fruit fly	OR	*Asana XL 0.66EC	2-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	14	[10.1]
	OR	Assail 30 SG		5.3-8.0 oz/A	12	7	
	OR	*Baythroid XL 1EC		2.4-2.8 fl oz/A	12	7	_
	OR	Delegate 25 WG		4.5-7.0 oz/A	4	7	_
	OR	*Diazinon 50WP	0.5-1 lb/100 gal		96	21	_
	OR	§Entrust 80WP		1.25-2.5 oz/A	4	7	_
	OR	Imidan 70WP	0.75 lb/100 gal	2.1-2.5 lb/A	72	7(c)	[10.3],[15.4]
	OR	*Proaxis 0.5CS	2	2.6-5.1 fl oz/A	24	14	
	OR	Sevin XLR Plus, 4F		2.0-3.0 qt/A	12	3	-
	-			25-50 lb/A	4	0	[10.2]
	OR	§Surround 95WP		25 50 10/11		0	
	OR The	*Warrior II following pre-mix products insecticide resistance manag		1.3-2.6 fl oz/A se against this pest;	24 however	14 , for best e	ffectiveness
	OR The and spec	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product.	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ	24 however ituations ve ingredi	14 c, for best e when multi ients and m	effectiveness tiple pest
	OR The and spec actio	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC	gement, their use shou	1.3-2.6 fl oz/A se against this pest; Id be reserved for s ombination of activ 5-5.5 fl oz/A	24 however ituations ve ingredi 24	14 c, for best e when mult ients and m 14	effectiveness tiple pest
	OR The and spec actio	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360	gement, their use shou	$\frac{1.3-2.6 \text{ fl oz/A}}{\text{se against this pest;}}$ Id be reserved for so ombination of activ $\frac{5-5.5 \text{ fl oz/A}}{2.4-2.8 \text{ fl oz/A}}$	24 however ituations ve ingredi 24 12	$\frac{14}{14}$, for best e when multiple inters and multiple 14 14 7	effectiveness tiple pest
	OR The and spec actio	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG	gement, their use shou	1.3-2.6 fl oz/A se against this pest; Id be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A	24 however ituations re ingredi 24 12 12	14 c, for best e when mult ients and m 14	effectiveness tiple pest
European red	OR The and spec action OR OR	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360	gement, their use shou	$\frac{1.3-2.6 \text{ fl oz/A}}{\text{se against this pest;}}$ Id be reserved for so ombination of activ $\frac{5-5.5 \text{ fl oz/A}}{2.4-2.8 \text{ fl oz/A}}$	24 however ituations ve ingredi 24 12	14 c, for best e when multi ients and m 14 7 14	effectiveness tiple pest
L .	OR The and spec actio OR OR OR	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Xpress	gement, their use shou	1.3-2.6 fl oz/A se against this pest; Id be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A	24 however ituations re ingredi 24 12 12 24	14c, for best ewhen multiients and m14714141414	ffectiveness tiple pest nodes of
mite, Twospotted	OR The and spec actic OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Xpress Apollo 4SC	gement, their use shou	1.3-2.6 fl oz/A se against this pest; Id be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A	24 however ituations re ingredi 24 12 12 24 12 24 12	14 r, for best e when multiplication 14 7 14 7 14 21	ffectiveness tiple pest nodes of [11.4]
mite, Twospotted	OR The and spec actic OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag- ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC	gement, their use shou	1.3-2.6 fl oz/A se against this pest; Id be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A	24howeverituations241212241212121212	14 c, for best e when multi ients and m 14 7 14 14 14 21 7	ffectiveness tiple pest nodes of [11.4]
mite, Twospotted	OR The and spec actic OR OR OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag- ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 4.4-10.7 oz/A	24 however ituations 7e ingredi 24 12 12 24 12 12 12 12	14 c, for best e when multi ients and m 14 7 14 14 21 7 300(PH)	ffectiveness tiple pest nodes of [11.4]
mite, Twospotted	OR The and spec actic OR OR OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag- ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 4.4-10.7 oz/A 12-24 oz/A	24 however ituations re ingredi 24 12 12 24 12 12 12 12 12	14 c, for best e when multi ients and m 14 7 14 14 21 7 300(PH) 7	ffectiveness tiple pest nodes of [11.4] [11.3]
mite, Twospotted	OR The and spec actio OR OR OR OR OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC Portal	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 4.4-10.7 oz/A 12-24 oz/A 2.0 pt/A	24 however ituations re ingredi 24 12 12 12 12 12 12 12 12 12	14 c, for best e when multi ients and m 14 7 14 14 21 7 300(PH) 7 365	ffectiveness tiple pest nodes of [11.4] [11.3] [11.5]
mite, Twospotted	OR The and spec actic OR OR OR OR OR OR OR OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC Portal Savey 50DF	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 12-24 oz/A 2.0 pt/A 3.0-6.0 oz/A	24 however ituations re ingredi 24 12 12 12 12 12 12 12 12 12 12	14 c, for best e when multi ients and m 14 7 14 14 21 7 300(PH) 7 365 28	ffectiveness tiple pest nodes of [11.4] [11.3] [11.5] [11.4]
mite, Twospotted spider mite	OR The and spec actic OR OR OR OR OR OR OR OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag- ties are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC Portal Savey 50DF *Vendex 50WP	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 4.4-10.7 oz/A 12-24 oz/A 2.0 pt/A 3.0-6.0 oz/A 1.5-3.0 lb/A	24 however ituations re ingredi 24 12 12 12 12 12 12 12 12 12 12 12 12 12	14 c, for best e when multi ients and m 14 7 14 14 21 7 300(PH) 7 365 28 14	ffectiveness tiple pest nodes of [11.4] [11.3] [11.5] [11.4]
mite, Twospotted spider mite	OR The and spec actic OR OR OR OR OR OR OR OR OR OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC Portal Savey 50DF *Vendex 50WP Zeal 72 WS	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 12-24 oz/A 2.0 pt/A 3.0-6.0 oz/A 1.5-3.0 lb/A 2.0-3.0 oz/A	24 however ituations re ingredi 24 12 12 12 12 12 12 12 12 12 12 12 12 12	14 c, for best e when multi ients and m 14 7 14 14 21 7 300(PH) 7 365 28 14 7	[11.4] [11.3] [11.5] [11.2]
European red mite, Twospotted spider mite Japanese beetle	OR The and spec actic OR OR OR OR OR OR OR OR OR OR OR OR OR	*Warrior II following pre-mix products insecticide resistance manag- ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC Portal Savey 50DF *Vendex 50WP Zeal 72 WS Admire Pro	gement, their use shou	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 12-24 oz/A 2.0 pt/A 3.0-6.0 oz/A 1.5-3.0 lb/A 2.0-3.0 oz/A 1.4-2.8 fl oz/A	24 however ituations re ingredi 24 12 12 12 12 12 12 12 12 12 12 12 12 12	14 r, for best e when multiple ients and m 14 7 14 7 300(PH) 7 365 28 14 7 365 28 14 7 7 365 28 14 7 7	ffectiveness tiple pest nodes of [11.4] [11.3] [11.5] [11.4] [11.2] [12.2]
mite, Twospotted spider mite	ORORacticacticOR </td <td>*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC Portal Savey 50DF *Vendex 50WP Zeal 72 WS Admire Pro Assail 30 SG</td> <td>are also labeled for us</td> <td>1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 12-24 oz/A 2.0 pt/A 3.0-6.0 oz/A 1.4-2.8 fl oz/A 2.0-3.0 oz/A 1.4-2.8 fl oz/A 2.0-3.0 qt/A se against this pest; ld be reserved for s</td> <td>24 however ituations re ingredi 24 12 12 12 12 12 12 12 12 12 12 12 12 12</td> <td>14 r, for best e when multiple ients and m 14 7 14 7 300(PH) 7 365 28 14 7 365 28 14 7 3 r, for best e when multiple</td> <td>a 11.4] [11.4] [11.5] [11.4] [11.2] [12.2] [12.2] a [12.2] a [12.2] a [12.2] a a b a [12.2] b a b a b b b c</td>	*Warrior II following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360 *Voliam Flexi WDG *Voliam Flexi WDG *Voliam Xpress Apollo 4SC Envidor 2 SC Nexter 75 WS Onager 1 EC Portal Savey 50DF *Vendex 50WP Zeal 72 WS Admire Pro Assail 30 SG	are also labeled for us	1.3-2.6 fl oz/A se against this pest; ld be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 2.4-2.8 fl oz/A 4.0-7.0 oz/A 6-12 fl oz/A 2.0-8.0 oz/A 16.0-18.0 fl oz/A 12-24 oz/A 2.0 pt/A 3.0-6.0 oz/A 1.4-2.8 fl oz/A 2.0-3.0 oz/A 1.4-2.8 fl oz/A 2.0-3.0 qt/A se against this pest; ld be reserved for s	24 however ituations re ingredi 24 12 12 12 12 12 12 12 12 12 12 12 12 12	14 r, for best e when multiple ients and m 14 7 14 7 300(PH) 7 365 28 14 7 365 28 14 7 3 r, for best e when multiple	a 11.4] [11.4] [11.5] [11.4] [11.2] [12.2] [12.2] a [12.2] a [12.2] a [12.2] a a b a [12.2] b a b a b b b c

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

Pest		Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
Additional Sum	mer	Sprays (continued)					
Japanese beetle	OR	*Leverage 360		2.4-2.8 fl oz/A	12	7	<u>.</u>
(continued)	OR	*Voliam Xpress		6-12 fl oz/A	24	14	
Lecanium scale,		*Centaur 0.7WDG		34.5-46.0 oz/A	12	14	[16.2]
San Jose scale	OR	Esteem 35 WP		4.0-5.0 oz/A	12	14	_
	OR	Movento 240 SC		6.0-9.0 fl oz/A	24	7	
Lesser		(§)Pheromone disruption ti	les:				
peachtree borer		Isomate PTB-Dual		150 ties/A			[13.1]
	OR	*Asana XL 0.66EC	2.0-5.8 fl oz/100 gal	4.8-14.5 fl oz/A	12	14	[13.2]
	OR	*Lorsban 4EC	1.5-3 qt/100 gal		96	21	
		or *Lorsban Advanced	1.5-3 qt/100 gal		96	21	
		or Lorsban 75WG	2.0-4.0 lb/100 gal		96	21	-
	OR	*Pounce 25WP		6.4-12.8 oz/A	12	3	_
	OR	*Proaxis 0.5CS		2.6-5.1 fl oz/A	24	14	
	OR	*Warrior II		1.3-2.6 fl oz/A	24	14	
		ies are present and appropria n contained in the product. *Endigo ZC					
		*Endigo ZC		5-5.5 fl oz/A	24	14	
	OR	*Voliam Xpress		6-12 fl oz/A	24	14	
Obliquebanded		Altacor 35 WDG		3.0-4.5 oz/A	4	10	[14.1]
eafroller	0.0	*Baythroid XL 1EC		2.4-2.8 fl oz/A	10	_	
	OR	Daymond AL TEC		2.4-2.8 II 0Z/A	12	7	
		Belt SC		2.4-2.8 ft oz/A 3.0-4.0 ft oz/A	12	7	-
	OR						
	OR	Belt SC		3.0-4.0 fl oz/A 0.5-2.0 lb/A	12	7	
	OR OR OR	Belt SC §Biobit HP *Danitol 2.4EC		3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A	12 4	7 0	
	OR OR OR OR	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG		3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A	12 4 24	7 0 3	
	OR OR OR OR OR	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG		3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A	12 4 24 4 4	7 0 3 7 0	
	OR OR OR OR OR OR	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP		3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A	12 4 24 4	7 0 3 7	
	OR OR OR OR OR OR OR The and i spec	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG	gement, their use shoul	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A se against this pest; ld be reserved for s	12 4 24 4 4 4 4 4 however, ituations	7 0 3 7 0 7 0 7 0 for best e when mult	iple pest
	OR OR OR OR OR OR OR The and i spec	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria	gement, their use shoul	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A se against this pest; ld be reserved for s	12 4 24 4 4 4 4 4 however, ituations	7 0 3 7 0 7 0 7 0 for best e when mult	iple pest
	OR OR OR OR OR OR OR The and i spec	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria on contained in the product.	gement, their use shoul	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A se against this pest; Id be reserved for s ombination of active	12 4 24 4 4 4 4 however, ituations w	7 0 3 7 0 7 0 for best e when mult ents and m	iple pest
	OR OR OR OR OR OR OR The and i spec actio	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria in contained in the product. *Endigo ZC	ement, their use shoul ately matched to the co	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A is against this pest; Id be reserved for s combination of active 5-5.5 fl oz/A 2.4-2.8 fl oz/A 6-12 fl oz/A	12424444444ve ingredie24	$ \begin{array}{r} 7 \\ 0 \\ 3 \\ 7 \\ 0 \\ 7 \\ 0 \\ 7 \\ 0 \\ for best e \\ when mult \\ ents and m \\ 14 \\ 14 \end{array} $	iple pest
	OR OR OR OR OR OR The and i spec actio	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria in contained in the product. *Endigo ZC *Leverage 360	gement, their use shoul	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A is eagainst this pest; Id be reserved for s combination of active 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.8-14.5 fl oz/A	12 4 24 4 4 4 4 4 however, ituations v 24 12	$ \begin{array}{r} 7 \\ 0 \\ 3 \\ 7 \\ 0 \\ 7 \\ 0 \\ 7 \\ 0 \\ for best e \\ when mult \\ ents and m \\ 14 \\ 7 \\ 7 \end{array} $	iple pest
	OR OR OR OR OR OR The and i spec actio	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria in contained in the product. *Endigo ZC *Leverage 360 *Voliam Xpress	ement, their use shoul ately matched to the co	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A is e against this pest; Id be reserved for s combination of active 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.8-14.5 fl oz/A 2.0-2.4 fl oz/A	12 4 24 4 4 4 4 4 4 4 4 4 4 4 4 4 24 24	7 0 3 7 0 7 0 for best e when mult ents and m 14 7 14	iple pest
	OR OR OR OR OR OR OR actio OR OR	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria in contained in the product. *Endigo ZC *Leverage 360 *Voliam Xpress *Asana XL 0.66EC	ement, their use shoul ately matched to the co	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A is eagainst this pest; Id be reserved for s combination of active 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.8-14.5 fl oz/A	12 4 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$ \begin{array}{r} 7 \\ 0 \\ 3 \\ 7 \\ 0 \\ 7 \\ 0 \\ 7 \\ 0 \\ for best e when mult ents and m \\ 14 \\ 7 \\ 14 \\ 14 \\ 14 \end{array} $	iple pest
	OR OR OR OR OR OR The and i spec actio OR OR OR	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria in contained in the product. *Endigo ZC *Leverage 360 *Voliam Xpress *Asana XL 0.66EC *Baythroid XL 1 L *Danitol 2.4EC Delegate 25WG	ement, their use shoul ately matched to the co	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A is e against this pest; Id be reserved for s combination of active 5-5.5 fl oz/A 2.4-2.8 fl oz/A 4.8-14.5 fl oz/A 2.0-2.4 fl oz/A	12 4 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$ \begin{array}{r} 7 \\ 0 \\ 3 \\ 7 \\ 0 \\ 7 \\ 0 \\ 7 \\ 0 \\ for best e when mult ents and m \\ 14 \\ 7 \\ 14 \\ 7 \\ 14 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 14 \\ 7 \\ $	iple pest
Spotted wing Drosophila	OR OR OR OR OR OR OR OR OR OR OR	Belt SC §Biobit HP *Danitol 2.4EC Delegate 25 WG §Deliver 18WG §Entrust 80WP §Javelin WG following pre-mix products insecticide resistance manag ies are present and appropria in contained in the product. *Endigo ZC *Leverage 360 *Voliam Xpress *Asana XL 0.66EC *Baythroid XL 1 L *Danitol 2.4EC	ement, their use shoul ately matched to the co	3.0-4.0 fl oz/A 0.5-2.0 lb/A 10.7-21.3 fl oz/A 4.5-7.0 oz/A 0.5-2.0 lb/A 1.25-2.5 oz/A 0.25-4.0 lb/A se against this pest; Id be reserved for s ombination of activ 5-5.5 fl oz/A 2.4-2.8 fl oz/A 6-12 fl oz/A 4.8-14.5 fl oz/A 2.0-2.4 fl oz/A 10.7-21.3 fl oz/A	12 4 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 24 2	$ \begin{array}{r} 7 \\ 0 \\ 3 \\ 7 \\ 0 \\ 7 \\ 0 \\ 7 \\ 0 \\ 7 \\ 0 \\ for best e when mult ents and m \\ 14 \\ 7 \\ 14 \\ 7 \\ 3 \\ 3 \end{array} $	iple pest nodes of

Table continued on next page.

Pest		Product	1 mt/100 gol	Amt/A	REI	PHI (dava)	Comments
	mmor	Sprays (continued)	Amt/100 gal	AIIIUA	(hrs)	(days)	(see text)
Spotted wing	OR	Imidan 70WS	0.75 lb/100 gal	2.13 lb/A	72	7(C)	[17.4]
Drosophila	$\frac{OR}{OR}$	Malathion 5EC	0.75 10/100 gai	2.13 10/14 2.5-4.8 pts/A	12	3	[17.4]
(continued)	OR	Mustang Max		4 oz./A	12	14	
	OR	Pyganic		1 pt- 2 qt/A	12	0	[17.3]
	OR	Sevin XLR Plus		2-3 qts/A	12	3	[]
	and spec	following pre-mix product i insecticide resistance manag- ies are present and appropria on contained in the product.	ement, their use shoul	d be reserved for ombination of acti	situations v ve ingredie	when mult ents and m	iple pest
		*Leverage 360		2.4-2.8 fl oz/A	12	7	
Stink bugs,		*Actara 25WDG		4.5-5.5 oz/A	12	14	[18.2]
including Brown	OR	Assail 30SG		5.3-8.0 oz/A	12	7	
marmorated	OR	*Baythroid XL 1EC		2-2.4 fl oz/A	12	7	510 0
stink bug	OR	*Danitol 2.4EC		10.7-21.3 fl oz/A	24	3	[18.2]
	OR	*Warrior 1ICS following pre-mix product i	1 1 1 1 1 0	1.28-2.56 fl oz/A	24	14	
		ies are present and appropria on contained in the product. *Endigo ZC *Leverage 360	ately matched to the co	5-5.5 fl oz/A 2.4-2.8 fl oz/A	24 12	14 7	
	OR	*Voliam Flexi		6-7 fl oz/A	12	14	
Postharvest	OR	v onam i lexi		0 / 11 02/11	12	17	
		Bravo Ultrex 82.5 WDG	0.9-1.25 lb/100 gal	2.8-3.8 lb/A	12 hr/	SS,PH	
Leaf spot		or Bravo Weather Stik 6F	-		7days (E)	55,РП	
			1.0-1.4 pt/100 gal	3.1-4.1 pt/A 4 lb/A	24	0	
		Captan 50WP C-O-C-S WDG	2 lb/100 gal 1.5 lb/100 gal	4 10/A	24		Г <i>А</i> АТ
	<i>UK</i>	plus	1.5 10/100 gai		24	PH(C)	[4.4]
		hydrated lime	3 lb/100 gal				
	OR	Echo 720 6F	1.0-1.4 pt/100 gal	3.1-4.1 pt/A	12	SS, PH	
	ΟΛ	ECHO 720 01	1.0-1.4 pt/100 gai				
		or Echo 90DE		-	hr/7days	55,111	
		or Echo 90DF	0.75-1.2 lb/100 gal	2.25-3.5 lb/A		55,111	
	OR	or Echo 90DF Rally 40WSP		-	hr/7days	0	
	OR OR	Rally 40WSP		2.25-3.5 lb/A 2.5-6.0 oz/A	hr/7days (E)		
	OR	Rally 40WSP	0.75-1.2 lb/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A	hr/7days (E) 24	0	
	OR	Rally 40WSP Vintage 1EC	0.75-1.2 lb/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A	hr/7days (E) 24 24	0 0	
	OR OR OR	Rally 40WSP Vintage 1EC Syllit FL	0.75-1.2 lb/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A 1.5-3.0 pt/A	hr/7days (E) 24 24 48	0 0 7	
Powdery	OR OR OR	Rally 40WSP Vintage 1EC Syllit FL Gem 500SC	0.75-1.2 lb/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A 1.5-3.0 pt/A 1.9-3.8 oz/A	hr/7days (E) 24 24 48 12	0 0 7 1 0 PF,	[4.4]
Powdery mildew	OR OR OR	Rally 40WSPVintage 1ECSyllit FLGem 500SCPristine 38WDG	0.75-1.2 lb/100 gal 3.0-4.0 fl oz/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A 1.5-3.0 pt/A 1.9-3.8 oz/A	hr/7days (E) 24 24 48 12 12	0 0 7 1 0	[4.4]
•	OR OR OR	Rally 40WSPVintage 1ECSyllit FLGem 500SCPristine 38WDGC-O-C-S WDG	0.75-1.2 lb/100 gal 3.0-4.0 fl oz/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A 1.5-3.0 pt/A 1.9-3.8 oz/A	hr/7days (E) 24 24 48 12 12	0 0 7 1 0 PF,	[4.4]
•	OR OR OR	Rally 40WSPVintage 1ECSyllit FLGem 500SCPristine 38WDGC-O-C-S WDGplus	0.75-1.2 lb/100 gal 3.0-4.0 fl oz/100 gal 1.5 lb/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A 1.5-3.0 pt/A 1.9-3.8 oz/A	hr/7days (E) 24 24 48 12 12	0 0 7 1 0 PF,	[4.4]
•	OR OR OR OR	Rally 40WSPVintage 1ECSyllit FLGem 500SCPristine 38WDGC-O-C-S WDGplushydrated lime	0.75-1.2 lb/100 gal 3.0-4.0 fl oz/100 gal 1.5 lb/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A 1.5-3.0 pt/A 1.9-3.8 oz/A 10.5-14.5 oz/A	hr/7days (E) 24 24 48 12 12 24	0 0 7 1 0 PF, PH(C)	[4.4]
•	OR OR OR OR OR OR	Rally 40WSPVintage 1ECSyllit FLGem 500SCPristine 38WDGC-O-C-S WDGplushydrated limeCabrio	0.75-1.2 lb/100 gal 3.0-4.0 fl oz/100 gal 1.5 lb/100 gal	2.25-3.5 lb/A 2.5-6.0 oz/A 6.0-12.0 fl oz/A 1.5-3.0 pt/A 1.9-3.8 oz/A 10.5-14.5 oz/A 9.5 oz/A 2.5-6.0 oz/A	hr/7days (E) 24 24 48 12 12 24 24 12	0 0 7 1 0 PF, PH(C) 0	[4.4]

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

Pest	Product	Amt/100 gal	Amt/A	REI (hrs)	PHI (days)	Comments (see text)
Postharvest (co	ontinued)					
Powdery	OR §Microthiol Disperss	10-20 lb/100 gal		24	0	
mildew	OR *Procure 50W		8.0-16.0 oz/A	12	1	
(continued)	OR Gem 500SC		1.9-3.8 oz/A	12	1	
	OR Pristine 38WDG		10.5-14.5 oz/A	12	0	
	OR Quash 50 WDG		2.5-4.0 oz/A	12	14	
	OR Quintec 2.08 EC		7 fl oz/A	12	7	
European red mite,	Nexter 75WS		4.4-10.7 oz/A	12	300 (PH)	
Twospotted spider mite						
Storage rots	Scholar SC	16-32 fl oz/100 gal (see comments & label)				[19.1]
Autumn						
Bacterial canker (Pseudomonas	Kocide3000		3.5-7.0 lb/A	48	BL, PH (C)	[1.2]
syringae)	or Kocide 2000		6.0-12.0 lb/A	48	BL, PH (C)	
	or Cuprofix Ultra Disperss 40DF		5.0-8.0 lb/A	48	BL. PH	
	or other coppers	(see comments)				

Table 13.3.2. Growth Regulator Uses in Cherries

Timing	Product	Concentration Product	Rate of Formulated
Promote Lateral Branch formation of vegetative bu	ing in Tart Cherry: (to counterac rds)	t the adverse effects of tart cl	herry yellows virus on
14-21 days after petal fall	§Pro-Gibb 4%, Falgro 4L	10-15 ppm	4-6 fl oz/100 gal
	§Pro-Gibb Plus 2X, Falgro 20SP	10-15 ppm	0.67-1 oz (lb)/100 gal
	r 1-3 inches of terminal extension on e. Use low rate on vigorous trees and		ionic surfactant as a dilute
Promote Vegetative Gro	wth of Young Non-Bearing Tree	25	
2-4 weeks after bloom	§Pro-Gibb 4%, Falgro 4L	50-100 ppm	20-40 fl oz/100 gal
	§Pro-Gibb Plus 2X, Falgro 20SP	50-100 ppm	3.34-6.67 oz (lb)/100 gal
Apply at the 5-7 leaf stage. F applications no closer than 7	Reduces crop in year after treatment. days apart.	Do not spray first year trees. For	low vigor trees make two
Induction of Lateral Brai	nching in Nursery Trees		
SWEET CHERRIES			
When terminal shoot is 26-32" long	Promalin, Perlan, Typy	250-1,000 ppm	0.5-2 qt/5 gal
Include a non-ionic surfactar which lateral branching is de	at and apply as a directed spray to top sired.	p part of tree after trees have read	ched a terminal height at

Table 13.3.2. Growth Regulator Uses in Cherries

Timing	Product	Concentration Product	Rate of Formulated
Induction of Lateral Bra	anching in Young Non-Bearing T	rees	
SWEET CHERRIES			
Bud Swell	Promalin, Perlan, Typy	5,000-7,500 ppm	3.2-5.3 fl oz/1pt latex paint
	int on buds. Do not apply the Promali tips. The best results are obtained by at mixture.		
Delay Harvest and Incre	ease Firmness and Size of Swee	t Cherries	
Fruit is light green to	§Pro-Gibb 4%, Falgro 4L	10-30 ppm	16-48 fl oz/acre
straw color (about 3-4 weeks before harvest)	§Pro-Gibb Plus 2X, Falgro 20SP	10-30 ppm	80-240g/acre
weeks before narvest)	§Pro-Gibb 40%	10-15ppm	40-120g/acre
	color development but give the maxim of color. Do not apply within 1 week		ower rates for less delay in
Promote Fruit Loosenir	ng for Mechanical Harvesting		
	ng for Mechanical Harvesting		
TART CHERRIES 7-14 days before	ng for Mechanical Harvesting Ethrel	150 ppm	0.5 pt/100 gal
TART CHERRIES 7-14 days before anticipated harvest			
TART CHERRIES 7-14 days before anticipated harvest Apply with a nonionic surfa	Ethrel		
TART CHERRIES 7-14 days before anticipated harvest Apply with a nonionic surfa SWEET CHERRIES 7-14 days before	Ethrel		
TART CHERRIES 7-14 days before anticipated harvest Apply with a nonionic surfa SWEET CHERRIES 7-14 days before anticipated harvest	Ethrel actant. Do not apply to weak trees or the second se	rees under heat or moisture st 300-450 ppm	ress. 1-1.5 pt/100 gal