

APPLE AND PEAR SPRAY SCHEDULE—COMMERCIAL

Insect	Material and Formulation	Dosage of Insecticides/Acre	Remarks/Precautions	Days to Harvest
BY MARCH 15				
Initiate Oriental Fruit Moth Scouting Program	Place 2 or 3 Oriental fruit moth pheromone traps in orchard interior and check twice weekly to record first consistent moth emergence (late March) = OFM biofix . Be sure to keep trap bottoms clean and replace lures monthly or every two months for long-life lures. After OFM biofix date, begin calculating number of daily degree days (DD) using base 45°F = DD = (maximum daily temperature + minimum daily temperature)/2 – base .			
GREEN TIP TO 1/2" GREEN				
San Jose Scale	Oil	2 gal	Best to use a superior-type or highly refined summer oil applied dilute for best results. If the oil application is delayed until tight cluster to pink, reduce oil to 1/2-1 gal/100 gal water. Apply Supracide before any blossoms open. Do not use Captan or Sulfur within two weeks of an oil application. NOTE: Lime sulfur may injure Delicious or Ginger Gold apples. Lime sulfur is OMRI approved for organic production. Use Esteem with Superior spray oil at recommended rate. Esteem will control scale and rosy apple aphid. Use of pyrethroids (Asana, Ambush, Baythroid, Danitol, Decis, Proaxis, Pounce and Warrior) is likely to cause mite outbreaks because pyrethroids are persistent and kill mite predators.	post bloom
European Red Mite Eggs	Oil + Lorsban 50W	2 gal + 3 lb		pre bloom
Rosy Apple Aphid Eggs	Supracide 2E	1-2 pt		pre bloom
	Ambush 25 W	6.4-25.6 oz		pre petal fall
	Asana	2.0-5.8 oz		21
	Danitol 2.4EC	10.6-21.3 fl oz		14
	Esteem 0.86EC	13-16 fl oz		45
	Esteem 35WP	3-5 oz		45
	Proaxis	2.56-5.12 fl oz		21
	Warrior	2.56-5.12 fl oz		21
	Lime Sulfur	6-11 gal		21
	Voliam Xpress	6-12 fl oz		21
TIGHT CLUSTER TO PINK				
Rosy Apple Aphid	Actara 25W	2.0-5.5 oz	Weekly from tight cluster to late May, check five fruit clusters in interior of each of 20 susceptible trees for rosy apple aphids (look at Ida Red or Golden Delicious). Apply spray at pink stage if counts exceed the spray threshold of 1% of clusters infested with rosy apple aphid. Caution: In some blocks, rosy apple aphid is resistant to Endosulfan, Ambush and Asana. Caution: Use of Asana or Ambush is likely to cause increased mite problems later in the season. Use of these materials will eliminate mite predator populations. Pyrethroids may also lead to increased populations of woolly apple aphid, San Jose scale and Comstock mealybug. If there is a history of plant bug problems, a second application at petal fall will help. Keeping the orchard groundcover free of broadleaf, flowering weeds will also lessen the bug population and keep pollinators in the fruit trees.	35
Plant Bugs	Ambush	6.4-25.6 oz		pre petal fall
	Asana	2.0-5.8 oz		21
	Assail 70WP	1.1-1.7 oz		7
	Azinphosmethyl 50	1.5-2.0 lb		21
	Calypso 4F	2-4 oz		30
	Danitol 2.4EC	10.6-21.3 fl oz		14
	Endosulfan 3EC	2-3 qt		21
	Esteem 0.86EC	13-16 fl oz		45
	Esteem 35 WP	3-5 oz		45
	Provado	8 fl oz		7
Spotted Tentiform Leafminer	Danitol 2.4EC	10.6-21.3 fl oz		The need for insecticides against leafminer at this time is questionable, because the number of mines rarely exceeds threshold level of one per leaf.
	Endosulfan 3EC	2-3 qt		21
	Lannate 90SP	1/2 lb		14
	Vydate 2L	2-4 pt		14
Plum Curculio Dispersal	Plum curculio adults disperse from overwintering sites in adjacent woods into orchards and begin feeding on and laying eggs in fruit between 100 to 400 DD accumulated after temperatures exceed 70°F for two days in late March = PC biofix . After PC biofix date, begin accumulating DD to predict dispersal period by calculating number of daily DD using base 50°F = DD = (maximum daily temperature + minimum daily temperature)/2 – base .			
BY APRIL 1				
Initiate Plum Curculio, Codling Moth and San Jose Scale Scouting Programs	Tie gray plum curculio pyramid trap to each of 3 or 4 perimeter apple tree trunks adjacent to woods (overwintering site) and check twice weekly for plum curculio adults. Place 2 or 3 codling moth pheromone traps in upper third of tree canopy in orchard interior, and check twice weekly to record first consistent moth emergence in early to mid-April = CM biofix . Place 2 or 3 San Jose scale pheromone traps in orchard interior in tops of trees known to have a live SJS infestation (conspicuous red spots on apples last year) and record first date in early to mid-April when you consistently capture SJS males on traps = SJS biofix . Remove scale trap in May. After appropriate biofix dates, begin accumulating DD (base 50°F for CM and PC and base 51°F for SJS) to predict spray periods (hatch) by calculating number of daily DD using proper base = DD = (maximum daily temperature + minimum daily temperature)/2 – base .			

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BLOOM	PROTECT POLLINATORS!! DO NOT SPRAY INSECTICIDES DURING BLOOM.			
PETAL FALL				
European Red Mite	Agri-Mek 0.15EC + oil	2.5 fl oz	Apply when mites exceed threshold of 2.5 mites per leaf.	28
Two-Spotted Spider Mite	Apollo	4-8 oz	Caution: Do not use Captan or Sulfur within two weeks of the oil + Agri-Mek application.	45
	Danitol 2.4EC	16-21.6 fl oz	Application of Agri-Mek at petal fall should provide season-long suppression of these pests. A	14
	Kanemite 15 SC	21-31 oz	paraffinic spray oil (0.25% or 1 gal/acre) MUST be tank mixed to ensure activity of Agri-Mek.	14
	Savey 50	3 oz	Apollo and Savey are most effective if applied after petal fall or first cover.	28
	Zeal 72 WDG	2-3 oz		28
Plum Curculio	Actara 25W	4.5-5.5 oz	Spray trees as plum curculio adults move into orchard between 100 to 400 DD accumulated after	35
	Altacor	2.5-4.5 oz	second day in late March when temperatures exceed 70°F.	14
	Assail 30 SG	5-8 oz	Adult moths and plum curculio enter the orchards from late March to late April. Cool weather	7
	Avaunt 30WG	5-6 oz	during this time may extend plum curculio adult feeding and egg laying of both species into early	14
	Azinphosmethyl 50 W	1.5-2.0 lb	May. After petal fall, look for plum curculio feeding damage on fruit, especially along orchard	21
	Guthion Solupak	2-3 lb	perimeter adjacent to woods (overwintering site).	21
	Calypso 4F	4-8 oz	Surround is OMRI approved for organic production and should be reapplied as often as	30
	Imidan 70W	2 1/8-5 1/3 lb	needed to keep trees whitewashed, especially after a rain.	7
	Sevin 80 S	1 7/8-3 3/4 lb		3
	Sevin XLR	1 1/2-3 qt		3
	Voliam Xpress	6-12 fl oz		21
	Surround WP	25-50 lb		4 hours
Stink Bugs	Adjourn	4.8-14.5 fl oz	Randomly inspect 100 fruit for stink bugs or tarnished plant bugs and feeding punctures on fruit.	21
Tarnished Plant Bug	Asana XL	2.0-5.8 fl oz	Pyganic and Surround are OMRI approved for organic production.	21
	Azinphosmethyl 50 W	1.5-2.0 lb		14
	Guthion Solupak	2-3 lb		21
	Battalion 0.2 EC	14.1 fl oz		21
	Baythroid XL	2.0-2.4 fl oz		7
	Danitol 2.4EC	16-21 1/3 fl oz		14
	Kaiso 24 WG	1.33-2.67 oz		21
	Lambda T (only SB)	2.56-5.12 fl oz		21
	Mustang Max EC	3.2-4.0 fl oz		14
	Proaxis	2.56-5.12 fl oz		21
	Renounce 20WP	2.5-3.0 oz		7
	Silencer	2.56-5.12 fl oz		21
	Tombstone Helios	2.0-2.4 fl oz		7
	Warrior	2.56-5.12 fl oz		21
	Voliam Xpress	6-13 fl oz		21
	Pyganic 5 EC	1 pt		12 hours
	Surround WP	25-50 lb		4 hours
White Apple Leafhopper	Actara 25W	4.5-5.5 oz	White apple leafhoppers are usually in low numbers in Arkansas and rarely exceed the spray	35
	Avaunt 30WG	5-6 oz	threshold level of 1 nymph per leaf.	14
	Danitol 2.4EC	10.6-21.3 fl oz		14
	Provado 1.6F	4-8 fl oz		7

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Insect	Material and Formulation	Dosage of Insecticides/Acre	Remarks/Precautions	Days to Harvest
PETAL FALL (cont.)				
Spotted Tentiform Leafminer	Actara 25W	4.5-5.5 oz	The need for insecticides against spotted tentiform leafminer is questionable, because the number of mines in Arkansas rarely exceeds the spray threshold level of two mines per leaf. Entrust is OMRI approved for organic production.	35
	Assail 70WP	1.1-1.7 oz		7
	Danitol 2.4EC	10.6-21.4 fl oz		14
	Lannate 90SP	1/2 lb		14
	Provado 1.6F	4-8 fl oz		7
	SpinTor 2SC	4-10 fl oz		7
	Entrust	1.5-3.0 oz		7
Rosy Apple Aphid	Actara 25WP	4.5 oz	If an insecticide is not applied for rosy apple aphid at pink or if live aphids are still present, an insecticide should be applied. Caution: Diazinon applied with Captan or Captec may cause phytotoxicity or russetting. Diazinon should not be applied after petal fall.	35
	Danitol 2.4EC	10.6-21.3 fl oz		14
	Diazinon AG500	12.75 oz		21
FIRST COVER				
Oriental Fruit Moth and Codling Moth Eggs	Esteem 35 W	4-5 oz	Time applications of Esteem, Intrepid or Rimon before Oriental fruit moth egg hatch at 200-400 DD or for codling moth between 50-100 DD following biofix. Repeat applications in 14- to 17-day intervals.	45
	Esteem 0.86 EC	13-16 fl oz		45
	Intrepid 2F	10-16 oz		14
	Rimon 0.83 EC	20-40 fl oz		14
Oriental Fruit Moth Leafroller	Azinphosmethyl 50 W	1.5-2.0 lb	Do not exceed 8 lb Azinphosmethyl (4 lb ai) per acre per season. Biobit, Deliver and Javelin are OMRI approved for organic production against Oriental fruit moth and leafrollers. Apply weekly as necessary during hatch period.	21
	Biobit HP	0.5-1.0 lb		0
	Deliver	0.5-2.0 lb		0
	Javelin WG	0.5-4.0 lb		0
Oriental Fruit Moth and Codling Moth Eggs	Esteem 35 W	4-5 oz	Time applications of Esteem, Intrepid or Rimon before Oriental fruit moth egg hatch at 200-400 DD or for codling moth between 50-100 DD following biofix. Repeat applications in 14- to 17-day intervals.	45
	Esteem 0.86 EC	13-16 fl oz		45
	Intrepid 2F	10-16 oz		14
	Rimon 0.83 EC	20-40 fl oz		14
Oriental Fruit Moth and Codling Moth Newly Hatched Larvae	SpinTor 2SC	6-10 fl oz	Spray each codling moth larval generation starting at 250 DD (May), 1250 DD (June) and 2250 DD (late July). Entrust is OMRI approved for organic production.	7
	Entrust	2-3 oz		7
	Azinphosmethyl 50W	1.5-2.0 lb	Begin applying sprays for each Oriental fruit moth generation at 400-700 DD (late April), 1300-1700 DD (late May) and after 2300 DD (late June). Apply spinosad formulations, SpinTor (conventional production) or Entrust (OMRI approved for organic production), <u>only</u> in orchards with low to moderate populations of codling moth or Oriental fruit moth or leafrollers. Apply at 200 DD for codling moth or 350 DD for Oriental fruit moth, and reapply at 10-day intervals. Tank mixing spinosad with 1% oil (volume to volume) increases efficacy. Oil suppresses egg hatch, and spinosad kills young larvae that ingest it. Note: Do not apply more than 9 oz/acre/season. Resistance Management: Alternate spinosad sprays with applications of granulosis virus against codling moth or <i>Bt</i> formulations against Oriental fruit moth or leafrollers.	21
	Esteem 0.86EC	1/2 lb		45
	Guthion Solupak	2-3 lb		21
	Imidan 70WP	2 1/8-5 1/3 lb		7
Codling Moth Newly Hatched Larvae	Virus formulations		Virus formulations are OMRI approved for organic production. Use in non-chlorinated water. Apply one of the codling moth granulosis virus formulation (CYD-X, Virosoft or Carpovirusine) sprays <u>only</u> in orchards with low to moderate populations of codling moth. Time virus application against newly hatched codling moth larvae starting at 230 DD. Repeat sprays at interval of 7-9 days during codling moth hatch periods. After application, you may see stings and frass on fruit skins but rarely see live larvae. Note: Refrigerate (39°F) virus formulations until used in summer or store in freezer during winter.	
	Carpovirusine	6.8-13.5 fl oz		0
	CYD-X	1-6 fl oz		0
	Virosoft CP4	3.2 fl oz		0

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SECOND COVER AND LATER SPRAYS				
San Jose Scale	Assail 30 SG	8 oz	Spray SJS crawlers that emerge between 300-700 DD since male scale catch in pheromone traps in April (biofix). To detect crawlers, wrap several double-sticky tapes on scale-infested branches. Check tapes for crawlers twice weekly between 300 to 700 DD.	7
	Azinphosmethyl 50W	1.5-2.0 lb		21
	Baythroid	2.4-2.8 fl oz		7
	Diazinon AG600	12.75 oz		21
	Esteem 0.86EC	1/2 lb		45
	Guthion Solupak	2-3 lb		21
	Imidan 70WP	2 1/8-5 1/3 lb		7
	Movento	6-9 oz		7
	Sevin	1 1/2-3 qt		7
	Summer oil	1-2 gal		0
	Tombstone Helios	2.4-2.8 fl oz	7	
Oriental Fruit Moth Codling Moth	Avaunt 30WG	5-6 oz		14
	Confirm 2F	10-16 fl oz		14
	Danitol 2.4EC	16-21 fl oz		14
	Guthion Solupak	2-3 lb		21
	Imidan 70W	2 1/8-5 1/3 lb		7
	Intrepid 2F	10-16 oz		14
	Sevin XLR	1-3 qt		3
	Sevin 80S	1 1/4-3 3/4 lb		3
	Voliam Xpress	6-12 fl oz		21
Mating Disruption of Oriental Fruit Moth and Codling Moth	Isomate CM/OFM TT	200 dispensers	Pheromone dispensers are OMRI approved for organic production. In orchards larger than 5 acres , we have used the mating disruption strategy to achieve fruit free of damage by Oriental fruit moth and Codling moth. Best results require that you reduce the first generation moth populations with insecticide or virus or <i>Bt</i> (see Petal Fall or First Cover). Then attach mating disruption dispensers on lateral branches in upper third of tree canopy prior to moth emergence of second generation <u>Oriental fruit moth (OFM) by mid-May (800 DD) and/or codling moth (CM) by early-June (900 DD)</u> . Apply double rate of dispensers only to edges of orchard. Use dual-species dispenser (Isomate CM/OFM TT) if pheromone traps capture both CM and OFM or use single-species dispensers if pheromone traps detect only CM or OFM in orchard. Note: By mid-August, most of the pheromone has evaporated from these dispensers, so you will need to apply insecticide or <i>Bt</i> or a virus formulation for moth control from mid-August through harvest.	0
	Isomate CM TT	200 dispensers		0
	Isomate OFM TT	100 dispensers		0
	CheckMate CM	120-160 dispensers		0
	CheckMate OFM	100-200 dispensers		0
	NoMate CM spiral	300-400 dispensers		0
	NoMate OFM spiral	100-400 dispensers		0
	Hercon Disrupt CM-Xtra	200 dispensers		0
Hercon Disrupt OFM	108 dispensers	0		
White Apple Leafhopper Potato Leafhopper	Actara 25WP	2 oz	These leafhoppers generally are not a problem in Arkansas. The threshold level for second brood nymphs (which occur in late July to early August) is one nymph per leaf. Treatment at this time will eliminate the need to treat for adults immediately before harvest. Generally, low rates of insecticides will control leafhoppers.	35
	Avaunt 30WG	5-6 oz		14
	Danitol 2.4EC	10.6-21.3 fl oz		14
	Endosulfan 3EC	1 lb		21
	Provado 1.6F	4-8 fl oz		7
Spotted Tentiform Leafminer	Actara 25WP	2 oz	A threshold level of two spotted tentiform leafminer mines per leaf for second generation larvae (June to July) should be used to dictate the need for control. Control of third generation spotted tentiform leafminer larvae (August) may be necessary on late-maturing cultivars if populations exceed four mines per leaf. Entrust is OMRI approved for organic production. Most orchards have high levels of parasitism of spotted tentiform leafminer mines by this time.	35
	Danitol 2.4EC	10.6-21.3 fl oz		14
	Entrust	1.5-3.0 oz		7
	Lannate 90SP	1/2 lb		14
	Provado 1.6F	4-8 fl oz		7
	Spin Tor 2SC	4-8 oz		7
	Vydate 2L	2-4 pt		14
Green Apple Aphid	Actara 25WP	2 oz	Threshold level for green apple aphid is 50 percent infested terminals. Control is most important on young trees and dwarf plantings.	35
	Provado 1.6F	4-8 fl oz		7

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SECOND COVER AND LATER SPRAYS (cont.)				
Woolly Apple Aphid	Admire Pro	10.5-14.0 fl oz	Aboveground infestations of WAA are of greatest concern for younger trees. Do not apply Admire	7
Leafhoppers	Endosulfan 3 EC	1 lb	Pro pre-bloom or during bloom when bees are foraging.	21
	Movento	6-9 fl oz		7
European Red Mite	Abba 0.15 EC + 1 qt horticulture spray oil	2.5-5.0 fl oz	Apply when mites exceed 5 mites per leaf. Follow a 21-day minimum interval between applications of Abba. Do not exceed 40 fl oz Abba per acre per season.	28
Twospotted Spider Mite	Summer Oil	1/2-1 gal	Allow only one spray of Acramite per season.	0
	Acramite 50 WS	0.75-1.0 lb	Use a higher rate of Kelthane on large trees. Do not expect complete control with a single application of oil or sulfur. These materials must be applied multiple times for best results.	7
	Agri-Mek 0.15EC	2.5-5.0 oz		28
	Danitol 2.4 EC	4-8 lb	Applying a highly refined summer oil when mite populations are beginning to increase (first and second cover sprays) will help suppress European red mites.	14
	Kelthane 50 WSB	1-2 lb		25
	Vendex 50W	2-4 pt	Do not apply Captan two weeks before or after an oil spray.	7
	Vydate 2L	1.5-3.5 lb		14
Japanese Beetle	Assail 30 SG	5-8 oz	Do not make more than two applications of Assail per season, and use a 14-day interval spray. Do not exceed 5.3 oz Assail per season.	7
	Calypso 4 F	2-4 fl oz		30
	Sevin 80S	1 7/8-3 3/4 lb	Do not exceed 16 fl oz (0.5 lb ai) Sevin per acre per season.	3
	Sevin XLR	1 1/2-3 qt		3
Plum Curculio	See Petal Fall.		Plum curculio sprays are justified when you detect new fruit feeding damage in perimeter trees after 1200 DD (usually in early June) have accumulated since the PC biofix in late March.	
Used Mating Disruption (pheromone gone by mid-August)	SpinTor 2SC	6-10 fl oz	If you see new surface stings and frass on fruit, it means mating disruption dispensers are no longer emitting pheromone so apply insecticide: SpinTor or Entrust or <i>Bt</i> or virus.	7
	Entrust	1.5-3.0 oz	In conventional orchards , SpinTor will control Oriental fruit moth, codling moth and leafrollers as will other compounds listed in SECOND COVER .	7
Oriental Fruit Moth	Biobit HP	0.5-1.0 lb	In organic blocks, from August to harvest, rotate weekly applications of OMRI-approved formulations of Entrust with <i>Bt</i> formulations (Biobit, Deliver or Javelin) to control Oriental fruit moth or codling moth granulosis virus (CYD-X, Virosoft and Carpovirusine) to control codling moth.	0
Codling Moth	Deliver	0.5-2.0 lb		0
Leafroller	Javelin WG	0.5-4.0 lb		0
	CYD-X	1-6 fl oz		0
	Virosoft CP4	1.3 fl oz		0
	Carpovirusine	6.8-13.5 fl oz		0
RED IMPORTED FIRE ANTS				
ALL FIRE ANT BAITS – Apply when ants are active and soil temperature is above 60 degrees F. Do not treat if rain is anticipated within 6 hours.				
Bearing Apples	Pyriproxyfen (Esteem)	2-4 Tbsp/mound 1.5-2.0 lb/acre	Mound-to-mound treatment rate. Broadcast rate.	
	S-Methoprene (Extinguish)	3-5 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate. Broadcast rate. This product is an insect growth regulator (IGR). Apply 3 to 4 weeks prior to harvest date.	
Non-Bearing Apples	Fenoxycarb (Award)	1-3 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate. Broadcast rate. This product is an IGR.	
	Hydramethylnon (Amdro Pro)	2-5 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate. Broadcast rate.	
	Pyridine (Distance)	1-4 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate. Broadcast rate.	

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RED IMPORTED FIRE ANTS (ALL FIRE ANT BAITS) – Apply when ants are active and soil temperature is above 60 degrees F. Do not treat if rain is anticipated within 6 hours.				
Non-Bearing Apples	S-Methoprene (Extinguish)	3-5 Tbsp/mound 1.0-1.5 lb/acre	Mound-to-mound treatment rate. Broadcast rate. This product is an IGR.	
	Pyriproxyfen (Esteem)	2-4 Tbsp/mound 1.5-2.0 lb/acre	Mound-to-mound treatment rate. Broadcast rate.	

Conventional Agriculture Suppliers	Address/Online URL	Phone and Fax
Midwest Tree Fruit Pest Management Handbook (Appendix B: Pest Management Suppliers)	Online: < www.ca.uky.edu/agc/pubs/id/id93/app.htm >	
Great Lakes IPM, Inc. (hand lens, traps, pheromone lures for most fruit pests, codling moth virus, mating disruption dispensers, max/min thermometers, soil probes, refractometers)	10220 East Church Road, Vestaburg, MI 48891 Online: < www.greatlakesipm.com >	Ph. 989-268-5693 Ph. 800-235-0285 Fax 989-268-5311
Gempler's (hand lens, NoMate Oriental fruit moth mating disruption dispensers, OFM and CM traps and pheromone lures, weather stations, thermometers, pH meters, refractometer, fruit hardness meter)	P.O. Box 270, Mt. Horeb, WI 53572 Online: < www.gemplers.com/pest-mgmt >	Ph. 800-382-8473 Fax 800-551-1128
Forestry Suppliers, Inc. (sprayers, hand lens, weather stations, thermometers, waterproof notebooks, stake flags)	205 West Rankin Street, P.O. Box 8397 Jackson, MS 39284-8397 Online: < www.forestry-suppliers.com/index1.asp >	Ph. 800-647-5368
Organic Agriculture Suppliers	Address/Online URL	Phone and Fax
Midwest Organic and Sustainable Education Services (MOSES) (best list of organic suppliers)	P.O. Box 339, Spring Valley, WI 54767 Online: < www.mosesorganic.org >	Ph. 715-778-5775 Fax 715-778-5773
Organic Agriculture Resources List	Online: < extension.agron.iastate.edu/organicag/supplpm.html >	Ph. 515-294-7069 Fax 515-294-0730
AgBio, Inc. (flathead borer trap, insect traps and lures, Pyganic insecticide, mycostop biofungicide)	9915 Raleigh St., Westminster, CO 80031 Online: < www.agbio-inc.com/ >	Ph. 303-469-9221 Fax 303-469-9598
Ag Resource, Inc. (irrigation and production supplies, soil amendments, pest controls, equipment)	35268 State Highway 34, Detroit Lakes, MN 56501	Ph. 218-847-9351 Fax 218-844-6251
NovaSource Tessenderlo Group (Surround Crop Protectant)	2255 N. 44th Street, Suite 300, Phoenix, AZ 85008 Online: < www.NovaSource.com/ >	Ph. 800-525-2803
Gardens Alive (beneficial insects, soil amendments, pet care, cover crops, CM trap, pest controls: Oil-Away™ Supreme Insecticidal Oil, Surround at Home® Crop Protectant)	5100 Schenley Place, Lawrenceburg, IN 47025 Online: < www.gardensalive.com/category.asp?c=13 >	Ph. 812-537-5108
Peaceful Valley Farm Supply, Inc. (organic farming supplies, CM trap, seeds, plants, soil amendments, pest control: CYD-X, JMS Stylet oil, Isomate CTT, Dipel, Entrust, Pyganic, Surround Kaolin clay, M-Pede Insecticidal Soap, and parasitic nematodes)	P.O. Box 2209, 125 Clydesdale Court, Grass Valley, CA 95945 Online: < www.groworganic.com/weed-pest-control.html >	Ph. 888-784-1722
Rincon-Vitova Insectaries, Inc. (distributors of beneficial insects for controlling pests biologically)	P.O. Box 1555, Ventura, CA 93002 Online: < www.rinconvitova.com/ >	Ph. 800-248-2847 Fax 805-643-6267
Seven Springs Farm (Pest Controls: Copper, Bt-Javelin, Neemix, Pyganic, Entrust, M-Pede, Surround Crop Protectant)	426 Jerry Lane NE, Check, VA 24072 Online: < www.7springsfarm.com >	Ph. 540-651-3228