

HOME GARDEN VEGETABLE INSECT CONTROL – Products for Use by the General Public

The following table provides home garden vegetable insect control recommendations with pesticides for use by the homeowner. All chemical information provided below is given with the understanding that no endorsement of named products is intended, nor is criticism implied of similar products that are not mentioned. Individuals who use pesticides are responsible for ensuring that the intended use complies with current regulations and conforms to the product label. Before purchasing or using any pesticide, always read and carefully follow the label directions.

Insecticides listed below are identified by common chemical name. A tradename in parentheses may also be listed as a convenience for the reader. Additional trade names that may be available locally are listed in the HOMEOWNER INSECTICIDE PRODUCT LIST beginning on page 233.

The complete Organic Materials Review Institute (OMRI) products list can be viewed by visiting this link <http://www.omri.org/OMRI_products_list.php>.

Commodity	Insect	Insecticide and Formulation	Amount of Formulation Per Gallon of Spray	Minimum Interval (Days) Between Last Application and Harvest	Precautions and Remarks	
ASPARAGUS	Asparagus beetle, Japanese beetle, grasshopper, aphid	carbaryl (Sevin) 50 WP	3 tbsp	1	Do not repeat applications of carbaryl within 3 days. Sevin is not effective against aphids.	
		XLR Plus	2 tsp			
		permethrin (various brands) 2.5% EC	1.5 oz	3		
		pyrethrin EC	1-2 tsp	0		
BEAN	Aphid	malathion (various) 50%	2 tsp	1		
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0		
	Corn earworm	acephate (Orthene) 75 S	1 tbsp	14		
		carbaryl (Sevin) 50 WP	2 tbsp	0		
		spinosad (Naturalyte) 0.5% F	4 tbsp	3		
	Mexican bean beetle, bean leaf beetle, flea beetle, Japanese beetle, cucumber beetle	carbaryl (Sevin) 50 WP	2 tbsp	3		On foliage as needed. Use low rate of carbaryl on small plants.
		5 D	–			
	Potato leafhopper, fleahopper, lygus, stink bug	pyrethrin EC	1-2 tsp	0		
		malathion (various) 50% EC	2 tsp	1		
		5 D	–			
	Spider mite	pyrethrin EC	1-2 tsp	0		
		malathion 50% EC	2 tbsp	1		
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0		Apply treatment at first sign of mites and speckled plants.
	Thrips, leafminer	pyrethrin EC	1-2 tsp	0		On foliage as needed. Do not feed treated vines to livestock.
Whitefly	<i>Beauveria bassiana</i> (Mycotrol WP)	1/4 lb/20 gal water	0	Apply when whiteflies are observed. Repeat in 4- to 5-day intervals.		
	pyrethrin EC	1-2 tsp	0			
	soap (insecticidal, M-Pede) 49 EC	2 tbsp	0			

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BEET	Flea beetle, beet webworm, blister beetle	carbaryl (Sevin) 50 WP 4 XLR	3 tbsp 2 tsp	3 (14)	On foliage as needed. Fourteen days if tops used; 3 days if tops not used.
BROCCOLI, CAULIFLOWER, BRUSSELS SPROUTS, RUTABAGA	Aphid, flea beetle	malathion (various) 50% EC 5 D	1-2 tsp –	7	On foliage as needed.
		pyrethrin EC	1-2 tsp	0	On foliage as needed.
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.
	Cabbage looper, diamondback moth, imported cabbageworm	<i>Bacillus thuringiensis</i> (DiPel) 2 X 4 L (Javelin) WG	1 tbsp 2 tsp 2 tsp	0	On foliage as needed.
		esfenvalerate (Ortho) 0.425% EC	2 tbsp	3	On foliage as needed.
		pyrethrin EC	1-2 tsp	0	On foliage as needed. Not diamondback moth.
		spinosad (Naturalyte) 0.5%	4 tbsp	1	On foliage as needed.
Harlequin bug	malathion (various) 50% EC 5 D	1-2 tsp –	7	On foliage as needed.	
CABBAGE	Aphid	malathion (various) 50% EC 5 D	1-2 tsp –	7	
		pyrethrin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
		Cabbage looper, imported cabbageworm, diamondback moth, cutworm	<i>Bacillus thuringiensis</i> (DiPel) 2X 4 L (Javelin) WG	1 tbsp 2 tsp 2 tsp	0
	carbaryl (Sevin) 50 WP		4 tbsp	3	On foliage as needed. Sevin will not control cabbage looper. Sevin is suggested for cutworm.
	esfenvalerate (Ortho) 0.425% EC		2 tbsp	3	
	lambda-cyhalothrin (Triazide) 0.5% EC		1 tbsp	1	
	pyrethrin EC		1-2 tsp	0	Not diamondback moth.
	spinosad (Naturalyte) 0.5% F		4 tbsp	1	

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CABBAGE (cont.)	Flea beetle, thrips	carbaryl (Sevin) 50 WP	2 tbsp	3	
		malathion 50% EC (various)	1-2 tsp	7	
		pyrethrin EC	1-2 tsp	0	
	Harlequin bug	lambda-cyhalothrin (Triazide) 0.5% EC	1 tbsp	1	On foliage as needed.
malathion (various) 50% EC		2 tsp	7	On foliage as needed.	
CANTALOUPE	Aphid, thrips	malathion (various) 50% EC	1-2 tsp	1	
		5 D	—		
		pyrethrin EC	1-2 tsp	0	On foliage as needed.
	Cucumber beetle (spotted and striped), pickleworm, squash bug, squash vine borer	soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.
		carbaryl (Sevin) 50 WP	2 tbsp	0	On foliage as needed.
		5 D	--		
Spider mite	esfenvalerate (Ortho) 0.425% EC	2 tbsp	3		
	soap (insecticidal, M-Pede) 49 EC	2 tbsp	0		
CARROT	Armyworm, leafminer, leafhopper	<i>Bacillus thuringiensis</i> (DiPel) 2X	1 tbsp	0	<i>B.t.</i> will not control leafhoppers.
		4L	2 tsp		
		(Javelin) WG	2 tsp		
		carbaryl (Sevin) 80 S	1.25 tbsp	0	On foliage as needed.
		XLR Plus	2 tsp		
		cyfluthrin (Bayer Advanced) 0.75%	1 tbsp	0	
CELERY	Aphid, flea beetle, leafminer, flea hopper, looper	pyrethrin EC	1-2 tsp	0	
		malathion (various) 50% EC	1-2 tsp	7	On foliage as needed.
		permethrin (various brands) 2.5% EC	1.5 fl oz	3	On foliage as needed.

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COLLARD	Aphid, flea beetle	malathion (various) 50% EC	2 tsp	7	On foliage as needed.	
		pyrellin EC	1-2 tsp	0	On foliage as needed.	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.	
	Cabbage looper, diamondback moth, imported cabbageworm	<i>Bacillus thuringiensis</i> (DiPel) 2X	1 tbsp	0	Begin foliage treatments early and repeat as necessary. Include a spreader/sticker.	
		(DiPel) 4L	2 tsp			
		(Javelin) WG	2 tsp			
		pyrellin EC	1-2 tsp	0		Not diamondback moth.
	spinosad (Naturalyte) 0.5% F	4 tbsp	1			
Harlequin bug	malathion (various) 50% EC	1-2 tsp	7			
	5D	–				
CORN (SWEET)	Aphid	pyrellin EC	1-2 tsp	0		
	Corn earworm, sap beetle, flea beetle, Japanese beetle	carbaryl (Sevin) 50 WP	4 tbsp	2	To protect the ears, use 1 gal per 100 ft. Treat when silks first appear. Repeat at 2-day intervals until harvest is completed. Direct sprays toward the ear-zone. Corn silking after July 1 will need daily sprays to ensure worm-free ears. Flea beetles may damage small plants.	
		esfenvalerate (Ortho) 0.425% EC	2 tbsp	1		
		pyrellin EC	1-2 tsp	0		
	Corn earworm, European corn borer, fall armyworm	<i>Bacillus thuringiensis</i> (various)	2 tsp	0	Consult specific label. <i>B.t.</i> is effective while worms are feeding on the foliage.	
		carbaryl (Sevin) 50 WP		4 tbsp	0	To protect plants, direct treatment into whorl. Two or more weekly treatments may be needed. Sevin is not effective against fall armyworm.
			XLR Plus	2 tsp		
			cyfluthrin (Bayer Advanced) 0.75%	1 tbsp	0	
			esfenvalerate (Ortho) 0.425% EC	4 tbsp	1	
			lambda-cyhalothrin (Triazicide) 0.5% EC	1 tbsp	1	
		permethrin (various brands) 2.5% EC	1.5 fl oz	3		
	spinosad (Naturalyte) 0.5% F	2 tbsp	1			

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CUCUMBER	Cucumber beetle (spotted and striped), pickleworm, squash bug	carbaryl (Sevin) 50 WP 5 D	2 tbsp –	3	For pickleworms: Treat thoroughly every 5 to 7 days from the time of the first injury. Pickleworms are most severe after July 1.
		esfenvalerate (Ortho) 0.425% EC	2 tbsp	3	
		pyrethrin EC	1-2 tsp	0	
	Spider mite	pyrethrin EC	1-2 tsp	0	On foliage as needed.
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.
	Whitefly	pyrethrin EC	1-2 tsp	0	On foliage as needed.
soap (insecticidal, M-Pede) 49 EC		2 tbsp	0	On foliage as needed.	
EGGPLANT	Aphid, thrips	malathion (various) 50% EC 5 D	1 tsp –	3	On foliage as needed.
		pyrethrin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
	Colorado potato beetle, hornworm, corn earworm	<i>Bacillus thuringiensis</i> var. <i>tennebrionus</i> (Trident II)	2-4 tbsp	0	For Colorado potato beetle only. Treat when small larvae are present. Not effective against adults or large larvae.
		carbaryl (Sevin) 50 WP 5 D	2 tbsp –	3	Treat when most Colorado potato beetle eggs have hatched.
		spinosad (Naturalyte) 0.5% F	4 tbs	1	
	Flea beetle	carbaryl (Sevin) 50 WP 5 D	2 tbsp –	3	On foliage as needed. Flea beetles are most serious on small plants.
		malathion (various) 50% EC 5 D	2 tsp –	3	
	Lace bug, spider mite, whitefly	malathion (various) 50% EC 5 D	2 tsp –	3	On foliage as needed.
		pyrethrin EC	1-2 tsp	0	On foliage as needed.
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.

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KALE	Aphid	malathion (various) 50% EC 5 D	2 tsp –	7	On foliage as needed.
		pyrellin EC	1-2 tsp	0	On foliage as needed.
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.
	Cabbage looper, diamondback moth, imported cabbageworm	<i>Bacillus thuringiensis</i> (DiPel) 2X (Javelin) WG	1 tbsp 2 tsp	0	On foliage as needed.
		pyrellin EC	1-2 tsp	0	Not diamondback moth.
		spinosad (Naturalyte)	4 tbsp	1	
	Harlequin bug	malathion (various) 50% EC 5 D	2 tsp –	7	On foliage as needed.
		pyrellin EC	1-2 tsp	0	
	Vegetable weevil	pyrellin EC	1-2 tsp	0	On foliage as needed.
	LETTUCE	Aphid	malathion (various) 57 EC 5 D	2 tsp –	14 leaf-7 head
soap (insecticidal, M-Pede) 49 EC			2 tbsp	0	On foliage as needed.
pyrellin EC			1-2 tsp	0	On foliage as needed.
Cabbage looper, corn earworm, leafhopper		<i>Bacillus thuringiensis</i> (DiPel) 2X (Javelin) WG	1 tbsp 1 tsp	0	On foliage as needed.
		carbaryl (Sevin) 50 WP 80 S XLR Plus 5 D	4 tbsp 2 tbsp 2 tsp –	14 leaf-3 head	On foliage as needed.
		pyrellin EC	1-2 tsp	0	On foliage as needed.
		spinosad (Naturalyte) 0.5% F	4 tbsp	1	On foliage as needed.
		Leafhopper	malathion (various) 57 EC 5 D	2 tsp –	14 leaf-7 head

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Commodity	Insect	Insecticide and Formulation	Amount of Formulation Per Gallon of Spray	Minimum Interval (Days) Between Last Application and Harvest	Precautions and Remarks
LIMA BEANS	Lima bean vine borer, plant bug, Mexican bean beetles, corn earworm	carbaryl (Sevin) 50 WP	2 tbsp	21	Repeat weekly after first sign of damage.
		5 D	–		
MUSTARD GREENS	Aphid, flea beetle	malathion (various) 57 EC	2 tsp	7	On foliage as needed.
		5 D	–		
		pyrethrin EC	1-2 tsp	0	On foliage as needed.
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.
	Cabbage looper, diamondback moth, imported cabbageworm	<i>Bacillus thuringiensis</i> (DiPel) 2X	1 tbsp	0	Begin foliage treatments early and repeat as necessary.
		(Javelin) WG	2 tsp		
		pyrethrin EC	1-2 tsp		
	spinosad (Naturalyte) 0.5% F	4 tbsp	1		
Vegetable weevil	pyrethrin EC	1-2 tsp	0	On foliage as needed.	
OKRA	Aphid, leafminer	malathion (various) 50% EC	1-2 tsp	1	Do not apply malathion after pods start to form.
		5 D	–		
		pyrethrin EC	1-2 tsp	0	
	Corn earworm, European corn borer, flea beetle, stink bug	carbaryl (Sevin) 50 WP	4 tbsp	1	
		5 D	–		
Stink bug	malathion (various) 50% EC	2 tsp	1		
	5 D	–			
	pyrethrin EC	1-2 tsp	0		
ONION	Onion thrips	lambda-cyhalothrin (Triazicide) 0.5% EC	1 tbsp	14	
		malathion (various) 50% EC	1-2 tsp	3 (green)	
		pyrethrin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	

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PEAS	Aphid, leafminer	malathion (various) 5 D	–	3	
		pyrethrin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
	Cowpea curculio	carbaryl (Sevin) 50 WP	2 tbsp	0	On foliage as needed.
		80 S	1.25 tbsp		
		XLR Plus	2 tsp		
5 D		–			
	esfenvalerate (Ortho) 0.425% EC	ready-to-use	21		
PEPPER	Aphid, leafminer, thrips	esfenvalerate (Ortho) 0.425% EC	2 tbsp	1	
		malathion (various) 50% EC	1 tbsp	3	
		5 D	–		
		pyrethrin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
	European corn borer, flea beetle, tomato fruitworm, hornworm, stink bug	carbaryl (Sevin) 50 WP	4 tbsp	3	
		5 D	–		
		cyfluthrin (Bayer Advanced) 0.75%	1 tbsp	7	
		esfenvalerate (Ortho) 0.425%	2 tbsp	1	
		permethrin (various brands) 2.5% EC	2 fl oz	3	
		spinosad (Naturalyte) 0.5% F	4 tbsp	1	
POTATO, IRISH	Aphid	malathion (various) 50% EC	1 tsp	0	
		5 D	–		
		pyrethrin EC	1-2 tsp	0	
	European corn borer	carbaryl (Sevin) 50 WP	2 tbsp	0	Apply when eggs begin to hatch and every 5 days as needed.
		5 D	–		
	esfenvalerate (Ortho) 0.425% EC	2 tbsp	1		

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Commodity	Insect	Insecticide and Formulation	Amount of Formulation Per Gallon of Spray	Minimum Interval (Days) Between Last Application and Harvest	Precautions and Remarks	
POTATO, IRISH (cont.)	Potato leafhopper, potato flea beetle, Colorado potato beetle, blister beetle, stink bug	<i>Bacillus thuringiensis</i> var. <i>san diego</i> (M-Trak)	1.5-3 tbsp	0	For Colorado potato beetle only. Treat when small larvae are present. Not effective against adults or large larvae.	
		var. <i>tennebrionus</i> (Trident II)	2-4 tbsp			
		carbaryl (Sevin)		0	On foliage as needed. Treat when most Colorado potato beetle eggs have hatched.	
		50 WP	2 tbsp			
		80 S	1.25 tbsp			
		XLR Plus	2 tsp			
		5 D	–			
		phosmet (Imidan) 70 W	Follow label	7		
	Potato tuberworm	<i>Bacillus thuringiensis</i> (DiPel) 2X	4L	1 tbsp	0	
				2 tsp		
carbaryl (Sevin)		50 WP	3 tbsp	0	Treat 10 and 3 days before harvest or when foliage or tuber damage is noted. Do not leave dug potatoes exposed in the field overnight. Practice sanitation in storage.	
		80 S	2 tbsp			
		XLR Plus	2 tsp			
	5 D	–				
	esfenvalerate (Ortho) 0.425% EC	2 tbsp	1			
PUMPKIN	See SQUASH AND PUMPKIN					
RADISH	Aphid	malathion (various)		7	On foliage as needed.	
		50% EC	2 tsp			
		5 D	–			
		pyrethrin EC	1-2 tsp	0	On foliage as needed.	
	Flea beetle, imported cabbageworm	carbaryl (Sevin)		3	On foliage as needed.	
	50 WP	2 tbsp				
	5 D	–				
	cyfluthrin (Bayer Advanced) 0.75%	1 tbsp	0			
SPINACH	Aphid, thrips, leafminer	pyrethrin EC	1-2 tsp	0	On foliage as needed.	
		soap (insecticidal, M-Pede) 49 EC	2 tsp	0	On foliage as needed.	
	Corn earworm, loopers	<i>Bacillus thuringiensis</i> (Dipel) 2X	4L	1 tbsp	0	
				2 tsp		
			spinosad (Naturalyte) 0.5% F	4 tbsp	1	

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SQUASH PUMPKIN	Aphid	pyrethrin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
	Cucumber beetle (spotted and striped), flea beetle, leafhopper	carbaryl (Sevin) 50 WP	2 tbsp	0	On foliage as needed.
		5 D	–		
		esfenvalerate (Ortho) 0.425%	2 tbsp	3	
		pyrethrin EC	1-2 tsp	0	
	Pickleworm	carbaryl (Sevin) 50 WP	2 tbsp	0	Treat thoroughly as soon as damage to blossoms or other plants is noted (midsummer).
		5 D	–		
		esfenvalerate (Ortho) 0.425%	2 tbsp	3	
		spinosad (Naturalyte) 0.5% F	4 tbsp	3	
Squash bug	carbaryl (Sevin) 50 WP	2 tbsp	0	On foliage as needed. Adults can be difficult to control.	
	5 D	–			
	malathion (various) 50% EC	2 tsp	1		
	pyrethrin EC	1-2 tsp	0		
Squash vine borer	pyrethrin EC	1-2 tsp	0		
SWEET POTATO	Wireworm				No effective registered control measures.
TOMATO	Aphid	malathion (various) 50% EC	2 tsp	1	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
		pyrethrin EC	1-2 tsp	0	
	Cutworm (surface type)	carbaryl (Sevin) 5 B	Apply bait at 1 lb/1,000 sq ft on a warm, dry evening.		
		esfenvalerate (Ortho) 0.425% EC	2 tbsp	1	
	Flea beetle, Colorado potato beetle	<i>Bacillus thuringiensis</i> var. <i>san diego</i> (M-Trak)	1.5-3 tbsp	0	For Colorado potato beetle only. Treat when small larvae are present. Not effective against adults or large larvae.
		var. <i>tennebrionus</i> (Trident II)	2-4 tbsp		
		carbaryl (Sevin) 50 WP	2 tbsp	3	On foliage as needed.
		5 D	–		
		spinosad (Naturalyte) 0.5%	4 tbsp	1	

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TOMATO (cont.)	Grasshopper	carbaryl (Sevin) 50 WP 5 D	2 tbsp –	0	On foliage as needed.
		malathion (various) 5% EC 5 D	2 tsp –	1	
	Leafminer	pyrethrin EC	1-2 tsp	0	On foliage as needed.
	Spider mite	malathion (various) 50% EC	2 tsp	1	On foliage as needed.
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.
		pyrethrin EC	1-2 tsp	0	On foliage as needed.
	Stink bug	cyfluthrin (Bayer Advanced) 0.75%	1 tbsp	7	Do not make more than 6 applications per season.
		lambda-cyhalothrin (Triazicide) 0.5%	1 tbsp	5	
		malathion (various) 50% EC 5 D	2 tsp –	1	
		permethrin (various brands) 2.5% EC	1.5 fl oz	7	
		pyrethrin EC	1-2 tsp	0	
	Thrips	pyrethrin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
	Tomato fruitworm, cabbage looper, tobacco hornworm	<i>Bacillus thuringiensis</i> (DiPel) 2X 4 L (Javelin) WG (Biobit) FC	1 tbsp 2 tsp 2 tsp 1-3 tsp	0	Treat weekly, if necessary. Begin when fruits are 0.5 inch in diameter. Fruitworms are most serious after August 1. Do not tank mix <i>B.t.</i> formulations with Dyrene.
		carbaryl (Sevin) 50 WP 5 D	4 tbsp –	3	
cyfluthrin (Bayer Advanced) 0.75%		1 tbsp	7	Do not make more than 6 applications per season.	
esfenvalerate (Ortho) 0.425%		2 tbsp	1		
lambda-cyhalothrin (Triazicide) 0.5%		1 tbsp	5		

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TOMATO	Tomato fruitworm, cabbage looper, tobacco hornworm	permethrin (various brands) 2.5% EC	1.5 fl oz	7	Do not apply on cherry tomatoes or varieties less than 1 inch in diameter.	
		spinosad (Naturalyte) 0.5% F	4 tbsp	1		
	Whitefly	<i>Beauveria bassiana</i> (Mycotrol WP)	1/4 lb/20 gal water		0	Apply when whiteflies are observed. Repeat in 4- to 5-day intervals.
		malathion (various) 50% EC 5 D	2 tsp –		1	
		pyrethrin EC	1-2 tsp		0	
		pyrethrum products	Follow label		0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp		0	
TURNIP, TURNIP GREENS	Aphid, flea beetle	pyrethrin EC	1-2 tsp	0		
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0		
	Cabbage looper, diamondback moth, imported cabbageworm	<i>Bacillus thuringiensis</i> (DiPel) 2X (Javelin) WG	1 tbsp 2 tsp		0	On foliage as needed.
		pyrethrin EC	1-2 tsp		0	Not diamondback moth.
		spinosad (Naturalyte) 0.5% F	4 tbsp		1	On foliage as needed.
	Harlequin bug	carbaryl (Sevin) 50 WP 5 D	2 tbsp –		14 tops 3 roots	On foliage as needed.
		pyrethrin EC	1-2 tsp		0	On foliage as needed.
	Vegetable weevil	pyrethrin EC	1-2 tsp		0	On foliage as needed.
	WATERMELON	Aphid	pyrethrin EC	1-2 tsp	0	On foliage as needed.
			soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	On foliage as needed.
Cucumber beetle (spotted and striped)		carbaryl (Sevin) 50 WP 5 D	2 tbsp –		3	On foliage as needed.
		esfenvalerate (Ortho) 0.425% EC	2 tbsp		3	
		malathion (various) 57 EC	2 tsp		1	

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WATERMELON (cont.)	Spider mite	pyrellin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
	Thrips	carbaryl (Sevin) 50 WP	2 tbsp	3	
		malathion (various) 50% EC	2 tsp	1	
		pyrellin EC	1-2 tsp	0	
		soap (insecticidal, M-Pede) 49 EC	2 tbsp	0	
WITHIN GARDEN TREATMENT	Red imported fire ants	S-methoprene (Extinguish)	3-5 T/mound	Mound-to-mound treatment rate. Broadcast rate	This is an IGR.
			1-1.5 lb/A		
		Spinosad (Eliminator Fire Ant Bait, Green Light Fire Ant Control, Justice Fire Ant Bait, Ortho Fire Ant Bait, Safer Fire Ant Bait)	4-6 T/mound	Mound-to-mound treatment rate. Broadcast rate	See label for specific rate and application instructions. Acceptable for organic production.
			2.5-5 lb/A		