

CONTROL RECOMMENDATIONS FOR VEGETABLES INSECTS

Residues

Federal laws prohibit the sale of food produce that contains more than the specifically permitted amounts of pesticide residues. The recommendations in this guide are within these limits and only insecticides that have been approved at the rates and time intervals specified are included. Disregarding the standards established by the Environmental Protection Agency could result in unnecessary losses and inconveniences. The kind and amount of pesticide present on food products are the responsibility of the food producer.

Specific instructions for the safe and effective use of farm chemicals must be given on the container label by law. It is your responsibility to carefully read and follow these label instructions and precautions.

Application checklist

To obtain satisfactory control of vegetable insects:

1. use one of the insecticides recommended for the particular crop against the particular pest.
2. use the correct amount of the insecticide.
3. follow the recommended schedule of applications whenever regular applications are indicated.
4. use hollow cone nozzles not herbicide nozzles.
5. set the nozzles about 20 inches from the surface to be sprayed.
6. use sufficient pressure to obtain a full spray pattern for the nozzle; manufacturer's list recommended psi for each style of nozzle. Excessive pressure will increase drift, decrease deposit, and should generally be avoided.
7. use sufficient spray to cover plants thoroughly especially when fungicides are combined with insecticides. The amount of spray may be increased by slowing the ground speed of the sprayer or by using larger nozzles. Increasing pressure is not recommended.

Dosages and Formulations

Dosages of sprayable powders (water soluble or wettable powders) and liquids are given as the amount of formulated product that should be used in 50 gallons of spray. Sufficient spray should be applied to provide thorough coverage of the plants. Granular insecticides commonly used for soil insect control are stated as the formulated product. Rates given are on the basis of a broadcast application unless otherwise stated.

Formulations listed are not necessarily all that are available. If another formulation is used convert to the proper dosage using those given in these recommendations as a guide.

Most insecticides are available as an emulsifiable concentrate (EC) that is based on solvents and/or oils or as a wettable powder (WP). Wettable powders are safer than emulsions to use on tender foliage. Certain insecticides are available as water soluble (WS) powders and should not be confused with wettable powders. Water soluble powders go into solution while wettable powders merely form suspensions that settle out on standing.

Some insecticides are marketed as a flowable. This formulation is generally less toxic to foliage than the standard EC.

Whenever possible the formulations of emulsifiable concentrates have been quoted in pounds of active ingredient per gallon (example: 5 lbs EC). This was done because in many products the percentage of ingredients will vary due to the use of different solvents. Malathion, for example, is 5 lbs EC yet may be formulated anywhere from 55%-57% of active material.

Precautions:

Phosphate and carbamate insecticides such as Parathion, Azinphos methyl, Methomyl, and Trithion are highly toxic to humans and animals. Take special precautions in handling and applying these chemicals and others of similar nature. Check the label carefully and observe all safety precautions. Wash at once and change clothes if spillage occurs. Bathe promptly after use and wash clothes before re-use. Generally, symptoms of phosphate insecticide poisoning include blurred vision, headache, abdominal cramps, and tightness of the chest.

NOTE: Take special precautions when mixing Methomyl. Wear a recommended respirator. Do not inhale the dust or powder.

WARNING: Re-entry times for workers entering groves and/or treated fields should be strictly observed. Be sure to check the label for this information.

pH: Adjust pH before adding insecticide-optimum range 5.5-6.0 for most insecticides. Diazinon needs no adjustment. Test water to adjust. **DO NOT JUST ADD BUFFER.**

SPREADER STICKERS: Needed on waxy leaf plants. May be used on most crops. Overdose will burn foliage.

ARTICHOKE

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Psyllids	Platinum	5.0-8.0 ozs	30	Observe label.
Leafhoppers	Asana XL	5.8-9.6 ozs	1	Observe label.
	Ambush 25W	6.4-19.2 ozs	0	Observe label.
	Capture 2EC	6.4 ozs	5	Observe label.
	Pounce 25WP	6.4-19.2 ozs	0	Observe label.
	SpinTor 2SC	3.6-6.0 ozs	3	Observe label.

BEANS (SNAP AND LIMA)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Thiodan 50WP	1.0-2.0 lbs	3	Observe label.
	Thiodan 3EC	1.3-2.3 pts	3	Observe label.
	Dibrom 8EC	0.5 pt	1	Do not feed treated vines to livestock.
	Provado 1.6F	3.25 ozs	7	Observe label.
	Malathion 5EC	1.0 pt	1	Observe label.
	Orthene 75S	0.5	14	Observe label.
	Malathion 25WP	2.5 lbs	1	Observe label.
Mexican bean beetles	Malathion 5EC	1.0 pt	1	Observe label.
Cucumber beetles	Malathion 25WP	2.5 lbs	1	Observe label.
	Thiodan 50WP	1.0-2.0 lbs	3	Observe label.
	Thiodan 3EC	1.3-2.3 pts	3	Observe label.
	Capture 2EC	2.1-6.4 ozs	3	Observe label.
	Fury 2EC	1.4-4.3 ozs	1	Observe label.
	Asana XL	5.8-9.6 ozs	3	Observe label.
	Carbaryl 80S	0.67 lb	None	Observe label.
	Carbaryl 50WP	1.0 lb	None	Observe label.
	Flea beetles, Leaf hoppers	Carbaryl 80S	1.0 lb	None
Bean leaf beetles	Carbaryl 50WP	2.0 lbs	None	Observe label.
At Pod Set: begin weekly applications when longest pods are one-inch long and continue throughout harvest for maximum pod protection. Add an insecticide for control of mites or leafminers as needed.				
Earworms, stinkbugs	Orthene 75S	0.5	14	Observe label.
Bean leaf beetles	Capture 2EC	2.1-6.4 ozs	3	Observe label.
Cucumber beetles	Fury 2EC	1.4-4.3 ozs	1	Observe label.
Lima bean pod borers	Asana XL	5.8-9.6 ozs	3	Observe label.
Leaf hoppers	Carbaryl 80S	1.25 lbs	None	Observe label.
	Carbaryl 50WP	2.0 lbs	None	Observe label.
Mites	Kelthane MF	1.0-3.0 pts	21	Cover foliage thoroughly.
	Capture 2EC	2.1-6.4 ozs	3	Observe label.
Leafminers	Dibrom 8EC	0.5 lb	1	Do not feed treated vines to meat or dairy animals.
	SpinTor 2SC	3.0-6.0 ozs	3	Observe label.

BEETS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Flea beetles or webworms	Carbaryl 80S	0.6 lb	3 (14 if tops are used for food)	Observe label.
	Lannate LV	0.75-3.0 pts	0 roots, 10 tops	Observe label.
	Lannate SP	0.25-1.0 lb	0 roots, 10 tops	Observe label.
	SpinTor 2SC	3.0-6.0 ozs	3	Observe label.
Vegetable weevils	Carbaryl 50WP	0.5 lb	3	Observe label.
	Malathion 5EC	1.0 pt	7	Observe label.
	Malathion 25WP	2.5 lbs	7	Observe label.

BEETS (cont'd)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Cutworms	Diazinon AG500	2.0-4.0 qts	14	Observe label.
Mole crickets	Diazinon AG500	1.0 qt	14	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	14	Observe label.
Dipterous leafminers	Diazinon AG500	0.5-1.0 pts	14	Observe label.

BRUSSELS SPROUTS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Loopers are most difficult to control; watch for loopers on underside of leaf along borders. Treat on a 7-day schedule and change to 5 days for heavy infestations. Use a wetting agent according to manufacturer's instructions.				
Add B.t. to sprays to increase control.				
Loopers	Orthene 75S	1.33 lbs	14	Observe label.
Imported cabbage worms	Monitor 4EC	0.5-1.0 pt	14	Observe label.
Diamond back moths	Bacillus thuringiensis-	Use maximum rate recommended by manufacturer.		
	Lannate SP	0.25-1.0 lb	3	Do not use in home plantings.
	Lannate LV	1.5-3.0 pts	3	Observe label.
	Ambush 2EC	3.26-4.0 ozs	1	Do not apply more than 8 applications per season.
	Ambush 25WP	3.2-6.4 ozs	1	Observe label.
	Guthion 2L	2.0-3.0 pts	7	Observe label.
	Guthion 50WP	1.0-1.5 lbs	7	Observe label.
	Pounce 3.2 EC	2.0-4.0 ozs	1	Observe label.
	SpinTor 2SC	1.5-10.0 ozs	1	Observe label.
	Proclaim	2.4-4.8 ozs	7	Observe label.
	Capture 2EC	2.1-6.4 ozs	7	Observe label.
	Avaunt	3.5 ozs	3	Observe label.
	Fury 2EC	2.4-4.3 ozs	1	Observe label.
	Confirm 2F	6.0-8.0 ozs	7	Observe label.
	Thiodan/Phaser 50WP	0.5 lb	7	Observe label.
Root aphids	Lorsban 4E	1.0-2.0 pts	21	Observe label.
Root maggots				
Aphids	Fulfill	2.75 ozs	7	Observe label.
	Provado 1.6FL	3.75 ozs	7	Observe label.
	Orthene 75S	1.33 lbs	14	Observe label.
Whiteflies	Provado 1.6FL	3.75 ozs	7	Observe label.
	Fulfill	2.75 ozs	7	Observe label.

CABBAGE AND BROCCOLI

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Loopers are most difficult to control; watch for loopers on underside of leaf along borders. Treat on 7-day schedule and change to 5 days for heavy infestations. Use a wetting agent according to manufacturer's instructions.				
Loopers	Ambush 2EC	3.2-6.4 ozs	1	Observe label.
Imported cabbage worm	Ambush 25WP	3.2-6.4 ozs	1	Observe label.
Diamond back moth	Confirm 2F	6.0-8.0 ozs	7	Observe label.
	Asana XL	5.8-9.6 ozs	3	Observe label.
	Lannate SP	0.25-1.0 lb	3	Do not use in plantings.
	Lannate LV	1.5-3.0 pts	3	Observe label.
	Thiodan/Phaser 50WP	0.5 lb	7	Observe label.
	Pounce 3.2 EC	2.0-4.0 ozs	1	Observe label.
	Guthion 2L	2.0-3.0 pts	21-cabbage 15-broccoli	Observe label.
	Guthion 50WP	1.0-1.5 lbs	21-cabbage 15-broccoli	Observe label.

CABBAGE AND BROCCOLI (cont'd)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
	Proclaim	2.4-4.8 ozs	7	Observe label.
	Capture 2EC	2.1-6.4 ozs	7	Observe label.
	Avaunt	3.5 ozs	3	Observe label.
	Fury 2EC	2.4-4.3 ozs	1	Observe label.
	Larvin 3.2	16.0-40.0 ozs	7	Observe label.
Leafminers, thrips	SpinTor 2SC	3.0-10.0 ozs	1	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	14	
Aphids	Diazinon AG500	0.5-1.0 pts	7-broccoli	Observe label.
Diamondback moths			21-cabbage	
Imported cabbageworms				
Dipterous leafminers				
Root aphids	Lorsban 4E	1.6-2.4 fl ozs/1,000/linear/row ft		Use 40 gals/acre.
Root maggots	Lorsban 15G	4.6-9.2 ozs/1,000 ft		
	Diazinon AG500	2.0-3.0 qts	broccoli-7 cabbage-21	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.

B.t. = Bacillus thuringiensis: use maximum amount recommended by manufacturer.
(Javelin, Biobit, Dipel, Agree, Condor, Xentari, Ketch)

CANTALOUPE

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Metasystox-R 2EC	1.0-1.5 pts	7	Observe label.
	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
Leafminers	Dibrom 8EC	0.25-0.5 pt	1	Observe label.
	Oxamyl (Vydate L) 2EC	2.0-4.0 pts	1	Observe label.
	SpinTor 2SC	4.0-8.0 ozs	3	Observe label.
	Oxamyl 10G	40-60 lbs, broadcast		Apply within one week of planting.
	Pounce 3.2EC	8.0 ozs	1	Observe label.
	Pounce 2.5WP	12.8 ozs	1	Observe label.
Spider mites	Kelthane 50WP	1.25 lbs	2	Observe label.
	Guthion 2L	1.5-2.0 pts	7	Observe label.
	Guthion 50WP	0.75-1.0 lb	7	Observe label.
	Capture 2EC	5.12-6.4 ozs	3	Observe label.
	Ambush 25W	6.4-12.8 ozs	0	Observe label.
Make first applications for cucumber beetle control when seedlings first crack and repeat as needed.				
Cucumber beetles	Guthion 2L	1.5-2.0 pts	7	Observe label.
Pickleworms	Guthion 50WP	0.75-1.0 lb	7	Observe label.
Melon worms	Carbaryl 80S	0.6 lb	None	Observe label.
Squash bugs	Carbaryl 50WP	1.0 lb	None	Observe label.
Squash vine borers	Thiodan 2EC	1.0 pt	None	Observe label.
	Thiodan 50WP	0.5 lb	None	Observe label.
	Capture 2EC	5.12-6.4 ozs	3	Observe label.
	Ambush 25W	6.4-12.8 ozs	3	Observe label.
	Asana XL	5.6-9.8 ozs	3	Observe label.
Cutworms	Diazinon AG500	2.0-4.0 qts	3	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	3	Observe label.
Aphids	Diazinon AG500	0.5-1.5 pts	3	Observe label.
Dipterous leafminers				
Thrips				
Striped cucumber beetles				
Melonworms				
Leafhoppers				
Spider mites				

CARROTS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Leafhoppers	Carbaryl 80S	0.6 lb	None	Observe label.
Flea beetles	Carbaryl 50WP	0.5 lb	None	Observe label.
	Malathion 5EC	1.0-1.5 pts	7	Observe label.
	Lannate SP	0.33-1.0 lb	1	Observe label.
	Lannate LV	1.0-3.0 pts	1	Observe label.
	Asana XL	5.8-9.6 ozs	7	Observe label.
	Baythroid 2EC	1.6-2.8 ozs	0	Observe label.
Vegetables weevils	Malathion 5EC	1.0 pt	7	Observe label.
Aphids	Thiodan/Phaser 3EC	1.33-2.67 ozs	7	Only two applications per season.
	Diazinon AG500	1.0 pt	14	
Cutworms	Diazinon AG500	2.0-4.0 pts	14	Observe label.
Mole crickets	Diazinon AG500	1.0 qt	14	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	14	Observe label.

CAULIFLOWER

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Loopers are most difficult to control; watch for loopers on underside of leaf along borders. Treat on a 7-day schedule and change to 5 days for heavy infestations. Use a wetting agent according to manufacturer's instructions.				
Add B.t. to sprays to increase control.				
Loopers	Asana 1.9EC	1.7-3.4 ozs	1	Observe label.
Flea beetles	Ambush 2EC	3.2-6.4 ozs	1	Observe label.
Diamond back moths	Ambush 25WP	3.2-6.4 ozs	1	Observe label.
	Thiodan/Phaser 50WP	0.5 lb	14	Observe label.
Imported cabbage worms	Guthion 2L	2.0-3.0 pts	15	Observe label.
	Guthion 50WP	1.0-1.5 lbs	15	Observe label.
	Pounce 3.2EC	24.0 ozs	1	Observe label.
	Pounce 25WP	3.2-6.4 ozs	1	Observe label.
	Orthene 75S	1.33 lbs	14	Observe label.
	Lannate SP	0.25-1.0 lb	3	Do not use in home plantings.
	Lannate LV	0.75-3.0 pts	3	
	Proclaim	2.4-4.8 ozs	7	Observe label.
	Capture 2EC	2.1-6.4 ozs	7	Observe label.
	Fury 2EC	2.4-4.3 ozs	1	Observe label.
	Avaunt	3.5 ozs	1	Observe label.
	Confirm 2F	6.0-8.0 ozs	7	Observe label.
	SpinTor SC	1.5-10.0 ozs	1	Observe label.
	Larvin 80 DF/WSP	0.5-10.0 ozs	7	Observe label.
Bacillus thuringiensis-use maximum amount recommended by manufacturer.				
Root maggots	Diazinon AG500	2.0-3.0 pts	7	Observe label.
Root aphids	Lorsban 15G	1.6-2.4 ozs/1,000 linear ft	30	Do not use Methomyl or B.t.
Aphids	Fulfill	2.75 ozs	7	Observe label.
	Provado 1.6FL	3.75 ozs	7	Observe label.
	Orthene 75S	1.33 lbs	14	Observe label.
Whiteflies	Provado 1.6FL	3.75 ozs	7	Observe label.
	Fulfill	2.75 ozs	7	Observe label.
Cutworms	Diazinon AG500	2.0-4.0 qts	7	Observe label.
Mole crickets	Diazinon AG500	1.0 qt	7	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	7	Observe label.
Aphids	Diazinon AG500	0.5-1.0 pts	7	Observe label.
Diamondback moths				
Imported cabbage worms				
Dipterous leafminers				

COLLARDS AND GREENS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Malathion 5EC	1.0 pt	7	Observe label.
	Malathion 25WP	2.5 lbs	7	Observe label.
	Fulfill	2.75 ozs	7	Observe label.
	Provado 1.6FL	3.75 ozs	7	Observe label.
Loopers Caterpillars Add B.t. for better control.	Spray on 5-7 day schedule. Apply sufficient spray to cover foliage completely.			
	Thiodan 50 WP	1.5 lbs	21	Apply only once per season.
	Dibrom 8EC	0.5-1.0 pt	1	Observe label.
	Thiodan 3EC	1.0 qt	21	Observe label.
	Asana XL	5.8-9.6 ozs	7	Collards only.
	Confirm 2F	6.0-8.0 ozs	7	Observe label.
	SpinTor 2SC	1.5-10.0 ozs	1	Observe label.
	Fury 2EC	2.4-4.3 ozs	1	Observe label.
	Pounce 25WP	3.2-6.4 ozs	1	Observe label.
	Ambush 25W	3.2-6.4 ozs	1	Observe label.
	Bacillus thuringiensis-use maximum rate recommended by manufacturer.			
Cutworms	Diazinon AG500	2.0-4.0 qts	10	Observe label.
Mole crickets	Diazinon AG500	1.0 qt.	10	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	10	Observe label.
Aphids	Diazinon AG500	0.5-1.0 pt	10	Observe label.
Diamondback moths Harlequin bugs Corn earworms				

CUCUMBERS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Dibrom 8EC	0.5 pt	None	Observe label.
	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
	Actara	2.0-3.0 ozs	None	Observe label.
	Fulfill	2.75 ozs	14	Observe label.
	Platinum	5.0-8.0 ozs	30	Observe label.
	Admire 2F	1.4 ozs/1,000 plants	0	(Greenhouse only; see restrictions under Greenhouse Tomatoes)
Leafminers	Dibrom 8EC	0.5-0.75 pt	None	Observe label.
	Pounce 3.2 EC	4.0-8.0 ozs	To harvest	Not more than 1.6 lbs/A.I./acre per season.
	Pounce 25WP	6.4-12.8 ozs	To harvest	
	SpinTor 2SC	4.0-8.0 ozs	1	Observe label.
	Agri-Mek 0.15 EC	8.0-16.0 ozs	7	Observe label.
	Vydate L	2.0-4.0 pts	1	Observe label.
Spider mites	Ambush 25W	0.1-0.2 lbs	None	Observe label.
	KelthaneWSP	1.25 lbs	2	Observe label.
Vegetable weevils Cucumber beetles	Capture 2EC	2.6-6.4 ozs	7	Observe label.
	Malathion 5EC	1.0 pt	7	Observe label.
Lannate LV	Lannate LV	1.5-3.0 pts	1.5 (1-day)	Observe label.
			> 1.5 (3-days)	
			0.5 (1-day)	
Lannate SP	Lannate SP	0.5-1.0 lb	> 0.5 (3-days)	Observe label.
Pickleworms	Guthion 2L	1.38 lbs	1	Observe label.
Melon worms	Pounce 3.2 EC	4.0-8.0 ozs	To harvest	Not more than 1.6 lbs
Squash bugs	Pounce 25WP	6.4-12.8 ozs	To harvest	Observe label.
Squash vine borers	Carbaryl 80S	0.6 lb	None	Observe label.
	Carbaryl 50WP	1.0 lb	None	Observe label.
	Ambush 25W	0.1-0.2 lb	None	Observe label.
	Capture 2EC	2.6-6.4 ozs	3	Observe label.

CUCUMBERS (cont'd)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Pickleworms	SpinTor 2SC	4.0-8.0 ozs	1	Observe label.
Melon worms	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
Squash bugs	Asana XL	5.8-9.6 ozs	3	Observe label.
Squash vine borers				
Make first applications for cucumber beetle control when seedlings first crack soil and repeat as needed.				

EGGPLANT

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations	
Aphids	Dibrom 8EC	0.5 pt	1	Observe label.	
	Thiodan 50WP	0.5 lb	1	Observe label.	
	Thiodan 2EC	1.0 pt	1	Observe label.	
	Metasystox-R 2EC	2.0 pts	14	Observe label.	
	Actara	2.0-4.0 ozs	None	Observe label.	
	Provado 1.6FL	3.75 ozs	None	Observe label.	
	Malathion 5EC	1.0 pt	3	Observe label.	
	Malathion 25WP	3.5 lbs	3	Observe label.	
Spider mites	Capture 2E	2.1-6.4 ozs	7	Observe label.	
Colorado potato beetles	Asana XL	5.8-9.6 ozs	1	Observe label.	
Flea beetles	Pounce 3.2 EC	8.0 ozs	3	Observe label.	
Thrips	Carbaryl 80S	1.5 lbs	None	Observe label.	
Horn worms	Admire 2F	10.0-24.0 ozs			
Tomato fruitworms	Carbaryl 50WP	2.0 lbs	None	Observe label.	
	Thiodan 2EC	1.0 pt	1	Observe label.	
	Thiodan 50WP	0.5 lb	1	Observe label.	
	Confirm 2F	6.0-8.0 ozs	7	Observe label.	
	Capture 2E	2.1-6.4 ozs	7	Observe label.	
	Avaunt	3.5 ozs	3	Observe label.	
	Fury 2EC	2.4-4.3 ozs	1	Observe label.	
	Guthion 50WP	0.75-1.0 lbs	7	Observe label.	
	Guthion 2L	1.5-2.0 pts	7	Observe label.	
	Ambush 25WP	0.1-0.2 lb	3	Observe label.	
	Whiteflies	Platinum	5.0-8.0 ozs	30	Observe label.
		Actara	2.0-4.0 ozs	0	Observe label.

ENGLISH PEAS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Malathion 5EC	1.0 pt	3	Observe label.
Cutworms, aphids	Asana XL	5.8-9.6 ozs	1	Observe label.
Cabbage loopers	SpinTor 2SC	3.6 ozs	3	Observe label.
	Capture 2EC	1.6-6.4 ozs	3	Observe label.
	Fury 2EC	1.4-4.3 ozs	1	Observe label.

IRISH POTATOES

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Monitor 4 EC	0.75-1.0 pt.	14	Observe label.
	Provado 1.6 F	3.25 ozs	7	Observe label.
	Fulfill	2.75 ozs	14	Observe label.
	Platinum	5.0-8.0 ozs	30	Observe label.
	Actara	1.5 ozs	14	Observe label.

IRISH POTATOES (cont'd)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Flea beetles	Ambush 25W	0.05-0.2 lb	7	Observe label.
Colorado potato beetles	Asana XL	5.8-9.6 ozs	1	Observe label.
Plant bugs	Pounce 3.2 EC	4.0-8.0 ozs	7	Observe label.
Cucumber beetles	Provado 1.6 F	3.25 ozs	7	Observe label.
Fleahoppers	Monitor 4EC	0.75-1.0 pt	14	Observe label.
Caterpillars	Thiodan/Phaser 3EC	1.0 pt	None	Observe label.
Leafhoppers	Thiodan/Phaser 50WP	0.5 lb	None	Do not plant root crops other than sweet potatoes, carrots, or potatoes as follow-up crops.
Psyllids				
	SpinTor 2SC	3.0-6.0 ozs	7	Observe label.
	Avaunt	3.5-6.0 ozs	7	Observe label.
	Agri-Mek 0.15 EC	8.0-16.0 ozs	14	Observe label.
	Carbaryl 80S	0.6 lb	None	Foliage applications only.
	Guthion 2L	1.5-3.0 pts	None	Foliage applications only.
	Guthion 50WP	0.75-1.5 lbs	7	Observe label.
Whiteflies	Provado 1.6 F	3.25 ozs	7	Observe label.
	Platinum	5.0-8.0 ozs	30	Observe label.
	Fulfill	2.75 ozs	14	Observe label.
	Actara	1.5 ozs	14	Observe label.
Mites	Agri-Mek 0.15 EC	8.0-16.0 ozs	14	Observe label.
Caterpillars	Lannate LV	0.75-3.0 pts	10	Do not use in home plantings.
	Lannate SP	0.25-1.0 lbs	14	Observe label.

LETTUCE

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations	
Caterpillars	Thiodan/Phaser 3EC	1.0 qt	14	On head lettuce do not use more than 3 times after thinning and remove outside leaves. Do not feed refuse leaves to livestock. On leaf lettuce do not use more than two applications per season; head lettuce only.	
	Thiodan/Phaser 50WP	1.5-2.0 lbs	14		
	Ambush 25W	0.1-0.2 lbs	1		
	Pounce 3.2EC	4.0-8.0 ozs	7		
	Larvin 3.2	0.5-0.75 lb	14		
	Larvin 3.2F	0.4-0.75 lb	14		
	Pounce 25WP	6.4-12.8 ozs	1		
	Bacillus thuringiensis	Use maximum rate recommended by manufacturer.			
	Avaunt	2.5-3.5 ozs	3		Observe label.
	Proclaim	2.4-4.8 ozs	7		Observe label.
	Confirm	6.0-8.0 ozs	7		Observe label.
	Fury	2.4-4.3 ozs	5		Observe label.
	Capture 2EC	2.1-6.4 ozs	7		Observe label.
SpinTor 2SC	1.5-3.0 ozs	1	Observe label.		
Aphids	Malathion 5EC	1.0-2.0 pts	7 (head)	Observe label.	
			14 (leaf)	Observe label.	
	Fulfill	2.75 ozs	7	Observe label.	
	SpinTor 2SC	1.5-3.0 ozs	1	Observe label.	
Leafhoppers	Malathion 25WP	2.0-5.0 lbs	7 (head)	Observe label.	
Leafminers			14 (leaf)	Observe label.	
	Agri-Mek 0.15EC	8.0-16.0 ozs	7	Observe label.	
Cutworms	Diazinon AG500	2.0-4.0 qts	14	Observe label.	
Mole crickets	Diazinon AG500	1.0 qt	14	Observe label.	
Wireworms	Diazinon AG500	3.0-4.0 qts	14	Observe label.	
Aphids	Diazinon AG500	0.5-1.0 pt	14	Observe label.	
Dipterous leafminers					

OKRA

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Malathion 5EC	1.0 pt	1	Observe label.
	Malathion 25WP	2.5 lbs	1	Observe label.
Corn earworms	Carbaryl 80S	1.25 lbs	None	Observe label.
	Carbaryl 50WP	2.0 lbs	None	Observe label.
	SpinTor 2SC	1.5-8.0 ozs	1	Observe label.
Stinkbugs	Carbaryl 80S	1.25 lbs	None	Observe label.
Leaf-footed bugs	Carbaryl 50WP	2.0 lbs	None	Observe label.

ONIONS AND SHALLOTS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Thrips	Malathion 5EC	0.6 pt	3	Observe label.
Onion thrips	Diazinon AG500	1.0 pt	14	Observe label.
	Malathion 25WP	1.5 lbs	3	Observe label.
	Pounce 25WP	9.6-19.2 ozs	1	Observe label.
	Guthion 2L	2.0-3.0 pts	28-dry	Observe label.
	Guthion 50WP	1.0-1.5 lbs	14-green	Observe label.
	Fury 2EC	3.2-4.3 ozs	7	Observe label.
	Ambush 25W	9.6-19.2 ozs	1	Observe label.
	Onion maggots	Lorsban 15G	3.7 ozs/1,000 ft	
		1.1 ozs/1,000 ft		Observe label.
Diazinon AG500		2.0-4.0 qts	14	Observe label.

PARSLEY

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Malathion 5EC	1.0 pt	21	Observe label.
	Fulfill	2.75 ozs	7	Observe label.
	Provado 2FL	3.75 ozs	7	Observe label.
	Admire 2F	10.0-24.0 ozs	21	Soil application.
Loopers	B.t.		None	Observe label.
Caterpillars	Ambush 25W	0.4-0.8 lb	1	Observe label.
Flea beetles	Lannate LV	1.5-3.0 pts	10	Observe label.
	Lannate SP	0.5-1.0 lbs	10	Observe label.
	Confirm 2F	6.0-8.0 ozs	7	Observe label.
	Malathion 5EC	1.0-2.0 pts	21	Observe label.
	Sevin 50W	2.0-4.0 lbs	14	Observe label.

PEPPERS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Provado 2FL	3.75 ozs	7	Observe label.
	Admire 2F	16.0-32.0 ozs	21	Soil application.
	Dibrom 8EC	0.5 pt	1	Observe label.
	Orthene 75S	0.67 lb	7	Bell peppers only.
	Lannate LV	1.5-3.0 pts	3	Observe label.
	Lannate SP	0.5-1.0 lb	3	Observe label.
	Actara	2.0-4.0 ozs	0	Observe label.
	Platinum	5.0-8.0 ozs	30	Observe label.
	Vidate L	2.0-4.0 pts	7-14	Observe label.
	Whiteflies	Actara	2.0-4.0 ozs	None
Platinum		5.0-8.0 ozs	30	Observe label.
Fulfill		2.75 ozs	7	Observe label.
Admire 2F		16.0-32.0 ozs	21	Soil application.
Provado 2FL		3.75 ozs	7	Observe label.

PEPPERS (cont'd)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Flea beetles	Pounce 3.2 EC	4.0-8.0 ozs	3	Observe label.
Tomato fruitworms	Carbaryl 80S	1.25 lbs	None	Observe label.
Leaf-footed bugs	Carbaryl 50WP	2.0 lbs	None	Observe label.
Hornworms	Thiodan/Phaser 3EC	1.0 qt	4	Observe label.
Yellow-striped Armyworms	Thiodan/Phaser 50WP	1.0 lb	4	Observe label.
	Lannate LV	1.5-3.0 pts	3	Observe label.
	Lannate SP	0.5-1.0 lb	3	Observe label.
	SpinTor 2SC	1.5-8.0 ozs	1	Observe label.
	Capture 2EC	2.1-6.4 ozs	7	Observe label.
	Fury 2EC	2.4-4.3 ozs	1	Observe label.
	Confirm 2F	6.0-8.0 ozs	7	Observe label.
Spider mites	Kelthane MF	0.75-1.5 pts	2	Observe label.
	Capture 2EC	2.1-6.4 ozs	7	Observe label.
	Agri-Mek 0.15 EC	8.0-16.0 ozs	7	Observe label.
Leafminers	Dibrom 8EC	0.25 pt	1	Observe label.
	Pounce 3.2EC	4.0-8.0 ozs	3	Observe label.
	SpinTor 2SC	1.5-8.0 ozs	1	Observe label.
	Agri-Mek 0.15 EC	8.0-16.0 ozs	7	Observe label.
	Fury 2EC	2.4-4.3 ozs	1	Observe label.
	Vydate L	2.0-4.0 pts	7-14	Observe label.
Pepper weevils	Carbaryl 80S	2.5 lbs	None	Observe label.
	Pounce 3.2EC/25WP	4.0-8.0 ozs	3	Bell peppers only.
	Orthene 75S	0.66 lb	7	Use in conjunction with pyrethroids.
		(not on bell peppers)		
	Capture 2EC	2.1-6.4 ozs	7	Observe label.
	Fury 2EC	2.4-4.3 ozs	1	Observe label.
	Asana XL	5.8-9.7 ozs	7	Observe label.
	Ambush 25WP	6.4-12.8 ozs	3	Bell peppers only.
Begin spray application for control of pepper weevil as soon as damage is observed. Spray on 3- to 4-day schedule until control is obtained (usually 3 weeks). Destroy all pepper plants when through harvesting.				
Vegetable weevils	Malathion 57EC	1.0 pt	7	Late afternoon and evening spraying is best. Clearing or treating dead lands and ditch banks is effective.
Thrips	Admire 2F	16.0-32.0 ozs	21	
	Agri-Mek 0.15 EC	8.0-16.0 ozs	7	

PUMPKINS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids, Whiteflies	Thiodan/Phaser 3EC	1.0 pt	None	Observe label.
	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
	Fulfill	2.75 ozs	7	Observe label.
	Admire 2F	16.0-24.0 ozs	21	Soil application.
	Actara	2.0-4.0 ozs	None	Observe label.
Cucumber beetles	Carbaryl 80S	0.6 lb	None	Observe label.
Pickleworms	Carbaryl 50WP	1.0 lb	None	Observe label.
Melon worms	Thiodan/Phaser 3EC	1.0 pt	None	Observe label.
Squash bugs	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
Squash vine borers	SpinTor 2SC	4.0-8.0 ozs	3	Observe label.
	Pounce 3.2 EC	8.0 ozs	1	Observe label.
	Pounce 25WP	12.8 ozs	1	Observe label.
	Asana XL	5.8-9.6 ozs	3	Observe label.
	Ambush 25WP	6.4-12.8 ozs		Observe label.
Make first application for cucumber beetle when seedlings first crack soil and repeat as needed.				
Spider mites	Kelthane 50WSP	1.25 pts	2	Observe label.
	Agri-Mek 0.15 EC	8.0-16.0 ozs	7	Observe label.

RADISHES

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Malathion 5EC	1.0 pt	7	Observe label.
Flea beetles	Carbaryl 80S	0.6 lbs	3	Observe label.
Dipterous leafminers	Carbaryl 50WP	1.0 lbs	3	Observe label.
	Diazinon AG500	0.5-1.0 pt	14	Observe label.
	Asana XL	5.8-9.6 ozs	7	Observe label.
	Baythroid	1.6-2.8 ozs	None	Observe label.
	SpinTor 2SC	3.0-6.0 ozs	7	Observe label.
Cutworms	Diazinon AG500	2.0-4.0 qts	14	Observe label.
Mole crickets	Diazinon AG500	1.0 qt	14	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	14	Observe label.
Root aphids	Lorsban 15G	3.3 ozs/1,000		Observe label.
Root maggots				

SOUTHERN PEAS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations	
Aphids	Provado 2F	3.75 ozs	7	Observe label.	
	Malathion 5EC	1.0 pt	1	Observe label.	
	Malathion 25WP	2.5 lbs	1	Observe label.	
	Admire 2F	16.0-24.0 ozs	21	Soil application.	
Cowpeas	Carbaryl 80S	1.25 lbs	None	Carbaryl should be applied as a spray rather than a dust.	
Curculios					
Stinkbugs	Carbaryl 50WP	2.0 lbs	None	Do not feed treated threshing to livestock or allow to graze treated fields.	
Corn earworms	Thiodan 2 lbs EC	1.0 qt	3		
	Thiodan 50WP	1.0 lb	3		
	SpinTor 2SC	3.0-6.0 ozs	3		Observe label.
	Capture 2EC	2.1-6.4 ozs	3		Observe label.
	Fury 2EC	1.4-4.3 ozs	1		Observe label.
	Lannate LV	0.75-3.0 pts	3		Do not graze or feed treated forage to livestock.
Lannate SP	0.25-1.0 lb	3			

SPINACH

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Dibrom 8EC	0.5 pt	1	Observe label.
	Malathion 5EC	1.0 pt	7	Observe label.
	Admire 2F	10.0-24.0 ozs	21	Soil application.
	Provado 1.6 FL	3.75 ozs	7	Observe label.
	Diazinon AG500	0.5-1.0 pt	14	Observe label.
Loopers	Spray on 5- 7-day schedule or as needed. Apply sufficient spray to cover foliage completely.			
Caterpillars	Pounce 3.2 EC	4.0 ozs	1	Observe label.
Flea beetles	Pounce 25WP	6.4 ozs	1	Observe label.
	Ambush 2EC	6.4 ozs	1	Observe label.
	Ambush 25WP	6.4 ozs	1	Observe label.
	SpinTor 2SC	1.5-10.0 ozs	1	Observe label.
	Confirm 2E	6.0-8.0 ozs	7	Observe label.
	Larvin 3.2 F	16.0-30.0 ozs	14	Observe label.
	Cutworms	Diazinon AG500	2.0-4.0 qts	14
Wireworms	Diazinon AG500	3.0-4.0 qts	14	Observe label.
Bacillus thuringiensis-use maximum rate recommended by manufacturer (Javelin-Biobit-Cutlass-Dipel).				

SQUASH (SUMMER AND WINTER)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Thiodan/Phaser 50WP	Thiodan/Phaser 3EC	1.0 pt	None	Observe label.
		0.5 lb	None	Observe label.
	Fulfill	2.75 ozs	7	Observe label.
	Actara	2.0-4.0 ozs	None	Observe label.
	Admire 2F	16.0-24.0 ozs	21	Soil application.
Leafminers	Dibrom 8EC	0.5-1.0 pt	None (summer) 1 day (winter)	
	Pounce 3.2 EC	4.0-8.0 ozs	To harvest	Not more than 1.6 lbs/A.I./acre per season.
	Pounce 25WP	6.4-12.8 ozs	To harvest	
	SpinTor 2SC	4.0-8.0 ozs	3	Observe label.
	Capture 2EC	5.12-6.4 ozs	3	Observe label.
	Vydate L	2.0-4.0 pts	1	Leafminers only.
Whiteflies	Platinum	5.0-8.0 ozs	30	Observe label.
	Fulfill	2.75 ozs	7	Observe label.
	Admire 2F	16.0-24.0 ozs	21	Soil application.
Cucumber beetles	Make applications for cucumber beetle control when seedlings first crack soil; repeat as needed.			
Pickleworms	Carbaryl 80S	0.6 lb	None	Observe label.
Melon worms	Carbaryl 50WP	1.0 lb	None	Observe label.
Squash bugs	Thiodan/Phaser 3EC	1.0 pt	None	Observe label.
Squash vine borers	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
	Pounce 3.2EC	4.0-8.0 ozs	To harvest	Not more than 1.6 lbs/A.I./acre per season.
	Pounce 25WP	6.4-12.8 ozs	To harvest	
	Capture 2EC	5.12-6.4 ozs	3	Observe label.
	SpinTor 2SC	4.0-8.0 ozs	3	Observe label.
	Lannate LV	1.5-3.0 pts	3	Observe label.
	Lannate SP	0.5-1.0 lbs	3	Observe label.
	Asana XL	1.7-3.4 ozs	3	Observe label.
Spider mites	Capture 2EC	5.12-6.4 ozs	7	Observe label.
	Kelthane 50WSP	1.25 lb	2	Observe label.

SWEET CORN

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Fall armyworms	For best control apply to silks when silks first appear on 2-day schedule until silks wilt.			
	Pounce 3.2 EC	4.0-8.0 ozs	1	Observe label.
	Pounce 25WP	6.4-12.8 ozs	1	Observe label.
	Ambush 25WP	6.4-12.8 ozs	1	Observe label.
	SpinTor 2EC	1.5-6.0 ozs	1	Observe label.
	Capture 2EC	2.1-6.4 ozs	1	Observe label.
	Fury 2EC	2.4-4.3 ozs	3	Observe label.
	Asana XL	5.8-9.6 ozs	1	Observe label.
	Larvin 3.2F	20.0-30.0 ozs		Observe label.
	Carbaryl 80S	2.5 lbs	None	Observe label.
	Carbaryl 50WP	4.0 lbs	None	Observe label.
Cutworms	Diazinon AG500	2.0-4.0 qts	7	Observe label.
Seed corn maggots	Diazinon AG500	2.0-4.0 qts	7	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	7	Observe label.
Corn earworms	Diazinon AG500	1.25 qts	7	Observe label.
Corn rootworms (adult)	Diazinon AG500	0.5-1.0 pt	7	Observe label.
Corn leaf aphids	Diazinon AG500	1.0-2.0 pts	7	Observe label.
Grasshoppers	Diazinon AG500	1.0 pt	7	Observe label.
Spider mites				
Flea beetles				
Sap beetles	Diazinon AG500	2.0-2.5 pts	7	Observe label.
Corn rootworms	Furadan 15G	6.7 lbs (40-inch row spacing)		Observe label.
Flea beetles	Furadan 4F	1.0 qt (40-inch row spacing)		Observe label.

FIELD TOMATOES

Stage to Begin Treatment	Pest to Control	Material and Formulations	Rate/A	Cutoff Day			
Following transplanting or as needed	Leafminers	Agri-Mek 0.15 EC	8.0-16.0 ozs	7			
		Dibrom 8EC	0.25 pt	1			
		Guthion 2L	1.5-3.0 pts	14			
		Guthion 50WP	0.75-3.0 lbs	14			
		Vydate L	2.0-4.0 pts	3			
Following transplanting or as needed	Whiteflies	Admire 2F	16.0-24.0 ozs (not more than 24 fl ozs per acre per year as a single soil application)	21-soil applications			
		Platinum	5.0-8.0 ozs (not more than 8.0 fl ozs Platinum-0.125 lb a.i.-per acre during each growing season)	30			
		Actara	2.0-4.0 ozs	0			
		Fulfill	2.75 ozs	7			
		Liriomyza leafminers	Agri-Mek 0.15 EC	8-16 fl ozs	7		
Do not exceed 48 ozs/acre							
(Fresh market only) Vegetable weevils	Aphids, Thrips	Dibrom 8EC	0.25 pt	1			
		Malathion 5EC	1.0 pt	1			
		Admire 2F	16.0-24.0 ozs	21-soil applications			
		Fulfill	2.75 ozs	7			
		Platinum	5.0-8.0 ozs	30			
		Provado 1.6 FL	3.75 ozs	5-foliar applications			
		Actara	2.0-4.0 ozs	0			
		Malathion 25WP	2.0 lbs	1			
		Ambush 25WP	6.4-12.8 ozs	1			
		Thiodan/Phaser 3EC	1.0 qt	1			
		Thiodan/Phaser 50WP	1.0 lb	1			
		Fury 2EC	2.4-4.3 ozs	1			
From first blossom through harvest at weekly intervals.	Fruitworms	Lannate LV	1.5-3.0 pts	1			
		Hornworms	Lannate SP	0.5-1.0 lb	1		
	Pinworms	Thiodan/Phaser 3EC	1.0 qt	1			
		Thiodan/Phaser 50WP	1.0 lb	1			
	(Fresh market only)		Confirm 2F	6.0-8.0 ozs	7		
			SpinTor 2SC	1.5-8.0 ozs	1		
			Fury 2EC	2.4-4.3 ozs	1		
			Ambush 25W	6.4-12.8 ozs	1		
			Don't feed residues to meat or dairy animals.	Spider mites	Agri-Mek 0.15 EC	8.0-16.0 fl ozs	7
			Do not exceed 48 ozs/acre				
(Fresh market only)	Fruitworms	KelthaneMF	0.75-1.5 pts	2			
		Hornworms	Guthion 2L	1.5-3.0 pts	14		
		Guthion 50WP	0.75-3.0 lbs	14			
		Carbaryl 80S	1.25 lbs	None			
			5 1/3-10 2/3 ozs	7			
	(Fresh market only)		Avaunt	2.5-3.5 ozs	3		
			Asana XL	5.8-9.6 ozs	1		
			Ambush W	3.2-12.8 ozs	1		
			Stinkbugs	Carbaryl 80S	1.25 lbs	None	
			Thiodan/Phaser 3EC	1.0 qt	1		
Thiodan/Phaser 50WP			1.0 lb	1			
Guthion 2L			1.5-3.0 pts	1			
Guthion 50WP			0.75-3.0 lbs	1			
Pinworms			Agri-Mek 0.15 EC	16 fl ozs	7		
Do not exceed 48 ozs/acre							
		SpinTor SC	1.5-8.0 ozs	1			

FIELD TOMATOES (cont'd)

Stage to Begin Treatment	Pest to Control	Material and Formulations	Rate/A	Cutoff Day
		Lannate LV	1.5-3.0 pts	1
		Lannate SP	0.5-1.0 lb	1
		Asana XL	1.7-3.4 ozs	1
	(Fresh market only)	Ambush 25W	3.2-12.8 ozs	1
	Colorado potato beetle	Platinum	5.0-8.0 ozs	30
		Actara	2.0-4.0 ozs	0
		Agri-Mek 0.15 EC	8.0-16.0 ozs	7
	Cutworms	Diazinon AG500	2.0-4.0 qts	1
	Mole crickets	Diazinon AG500	1 qt	1
	Wireworms	Diazinon AG500	3.0-4.0	1
	Aphids			
	Dipterous leafminers	Diazinon AG500	0.5 pt	1
	Banded cucumber beetles	Diazinon AG500	0.75-1.0 pt	1
	Fall armyworms			
	Southern armyworms			
	Beet armyworms			

TURNIPS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Provado 2F	3.75 ozs	7	Greens only.
	Admire 2F	10.0-24.0 ozs	21	Greens only.
	Fulfill	7.75 ozs	7	Greens only.
	Dibrom 8EC	0.5 pt	1	Observe label.
	Malathion 5EC	1.0 pt	7	Observe label.
	Malathion 25WP	2.5 lbs	3	Observe label.
Flea beetles	Spray on 5-to 7-day schedule. Apply sufficient spray to cover foliage completely.			
Loopers	Dibrom 8EC	0.51 pt	1	Observe label.
Caterpillars	Confirm 2F	6.0-8.0 ozs	7	Observe label.
	Ambush 25W	3.2-6.4 ozs	1	Observe label.
	SpinTor 2SC	1.5-10.0 ozs	1	Observe label.
	Bacillus thuringiensis-use maximum rate recommended by manufacturer.			
Root maggots	Lorsban 15G	4.6-9.2 ozs/1,000 ft row		
	Lorsban 4E	1.0 oz/1,000 ft row		

* Use sufficient volume to obtain runoff.

** Apply in minimum of 100 gals water per acre.

WATERMELONS

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Aphids	Admire 2F	16.0-24.0 ozs	21	Soil application.
	Fulfill	2.75 ozs	7	Observe label.
	Thiodan/Phaser 3EC	1.0 pt	None	Observe label.
	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
	Actara	2.0-4.0 ozs	0	Observe label.
	Dibrom 8EC	0.25-0.5 pt	1	Observe label.
Whiteflies	Fulfill	2.75 ozs	7	Observe label.
	Actara	2.0-4.0 ozs	0	Observe label.
Leafminers	Pounce 3.2EC	4.0-8.0 ozs	None	A.I./acre/season.
	Pounce 25WP	6.4-12.8 ozs	None	Observe label.
	Guthion 2L	1.5-2.0 pts	7	Observe label.
	Guthion 50WP	0.75-1.0 lb	7	Observe label.
Spider mites	Kelthane WSP	1.25-2.0 lbs	2	Observe label.
	Capture 2EC	5.12-6.4 ozs	3	Observe label.

WATERMELONS (cont'd)

Insects	Insecticide and Formulations	Rate/A	Cutoff Day	Restrictions or Limitations
Cucumber beetles	Make first applications for cucumber beetle control when seedlings first crack soil and repeat as needed.			
Pickleworms				
Melon worms	Carbaryl 80S	0.6 lb	None	Observe label.
Squash bugs	Carbaryl 50WP	1.0 lb	None	Observe label.
Squash vine borers	Thiodan/Phaser 3EC	1.0 pt	None	Observe label.
Cucumber beetles	Thiodan/Phaser 50WP	0.5 lb	None	Observe label.
Pickleworms	Pounce 3.2 EC	4.0-8.0 ozs	None	Not more than 1.6 lbs/A.I./acre per season.
Melon worms	Pounce 25WP	6.4-12.8 ozs	None	
Squash bugs	Capture 2EC	5.12-6.4 ozs	3	Observe label.
Squash vine borers	Vydate L	2.0-4.0 pts	1	Observe label.
	Guthion 2L	1.5-2.0 pts	7	Observe label.
	Guthion 50WP	2.0 pts	7	Observe label.
	Asana XL	5.8-9.6 ozs	1	Observe label.
Whiteflies	Fulfill	2.75 ozs	7	Observe label.
	Actara	2.0-4.0 ozs	0	Observe label.
Cutworms	Diazinon AG500	2.0-4.0 qts	3	Observe label.
Wireworms	Diazinon AG500	3.0-4.0 qts	3	Observe label.
Aphids	Diazinon AG500	0.5-1.5 pts	3	Observe label.
Dipterous leafminers				
Thrips				
Striped cucumber beetles				
Melonworms				
Leafhoppers				
Spiders mites				

GENERAL PESTS

Pest	Insecticide	Rate	Restrictions and Limitations
Snails	Metaldehyde bait	10 lbs of 25% bait	Apply to soil around plants. Do not contaminate edible parts.
Slugs			
Blister beetles	Carbaryl	1.0 lb A.I./acre	Apply as spot treatment as needed.
	Malathion	1.0 lb A.I./acre	Apply as spot treatment as needed.

* Observe label