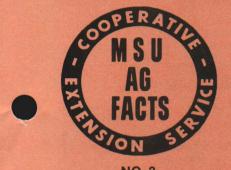
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Home Vegetable Garden: Disease and Insect Control Michigan State University Cooperative Extension Service Donald C. Cress Department of Entomology Howard S. Potter, Department of Botany and Plant Pathology April 1977 8 pages

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Home Vegetable Garden Disease, Insect Control

NO. 3

APRIL 1977

Donald C. CressHoward S. PotterDept. of EntomologyDept. of Botany and Plant Pathology

DISEASE CONTROL

In general, diseases in the home garden are less serious than insects. However, diseases can be very serious when weather and other conditions favor their development. Plant diseases can rarely be cured, but must be controlled by prevention.

The following measures will help reduce losses by disease:

- Use fertile, well-drained soil and plant crops or varieties that are suited to the soil and climate. (Order seeds from local seed companies or those located in the Midwest or Northeast.)
- 2. Control weeds and grass which provide protection for insects and may be alternate hosts for diseases.
- 3. Control insects since many transmit diseases.
- 4. Purchase disease-free seed; avoid seeds which are moldy or spoted.
- 5. Chemical treatment of seed Buy fungicide treated seed to protect against decay and damping-off organisms. Do not treat seed that is already treated, and do not use treated seed for food. Treatment may be done by the gardener as follows: place a pinch (less than ¹/₄ teaspoon per half pound of seed) of *Thiram* or *Captan* 75 percent seed protectant in the package of seeds and shake, coating all the seeds with the dust. Sift the excess dust from the seed through a fine mesh screen.
- 6. Purchase disease-free plants; make sure they do not have swellings on the roots, cankers on the stems, or spots on the leaves.
- 7. Grow disease resitant varieties such as those listed in Extension Bulletin E-760(a) "Variety Suggestions for the Home Vegetable Garden." Some of those varieties are highly resistant; others give partial protection.
- 8. Since most bacteria, fungi, and some home garden insects live in the soil from one growing season to the next, much of their damage can be avoided by relocating the garden or rotating the crops within the garden.
- 9. Closely related crops, such as melons and

EXTENSION BULLETIN E-760(b)

cucumbers or tomatoes, potatoes, peppers and eggplant should not succeed each other, because they are usually damaged by the same pests.

- 10. Destroy or compost plants of each annual crop as soon as the harvest is completed.
- 11. To rid soil of disease organisms it is often desirable to fumigate. Apply *Vapam* (VPM) in water to the soil surface two to three weeks before planting using a watering can or a simple proportioner attached to a garden hose. Read label for correct dosages and specific application procedures.
- 12. Stay out of the garden when plants are wet to avoid spreading diseases. Water during the day and not at night.
- 13. At the first sign of disease, use a good fungicide for control. Read the label on the pesticide container to determine which crop disease it will control, how much to use, how and when to apply. Contact your County Extension Office if you do not know what disease is causing your problems or consult U.S. Department of Agriculture Home and Garden Bulletin No. 46, "Insects and Diseases of Vegetables in the Home Garden," available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

INSECT CONTROL

Insects compete very strongly among themselves as well as with humans for their food. In the home garden (as well as in commercial agriculture), insects attack both the underground and aboveground plant parts. In order to limit insect damage, it is necessary to place the insecticide where the insects do the damage.

Since some insects have three or more generations per year, others have one generation per year and still others require three to six years to complete one generation, it is often necessary to make repeated applications of the insecticide. To achieve the highest degree of insect control, gardeners are always encouraged to:

- 1. properly identify the insect causing the damage;
- 2. obtain an insecticide which has that specific insect named on the label.;
- 3. apply the recommended amount of chemical where the insects are actually feeding.

COOPERATIVE EXTENSION SERVICE

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ALWAYS READ AND FOLLOW ALL LABEL DIRECTIONS WHEN USING A PESTICIDE

Liquid Measures:

3Tsp = 1 tbsp 2 Tbsp = 1 fluid ounce 8 fluid ounces = 1 cup 2 cups = 1 pint2 pints = 1 quart4 quarts = 1 gallon

Abbreviations:

WP = Wettable Powder EC = Emulsifiable Concentrate Tbsp = Tablespoon Tsp = Teaspoon Sq ft = Square Feet

Underground Root-Feeding Insects. Insect Insecticide Remarks MAGGOTS Diazinon, 2 Tsp 50%/gal water/20 ft Apply insecticide in seed furrow and cover lightly with Onion of row soil. If cabbage or cauliflower are being transplanted, Cabbage dip the roots in a chlordane solution at transplanting. Or Seed-Corn Chlordane, 3 Tbsp 5% dust/25 ft of Or 1/3 cup of the diazinon solution can be poured around the stems of the transplants. row or Transplants: Chlordane, 2 Tbsp, 40% wettable powder/gal water. SEE REMARKS. 1/3-inch long and creamy white colored. WHITE GRUBS Chlordane, 5 oz 40% wettable powder These insects are most serious in soil where sod (grass) "C" shaped, 1 to 11/2 in. has been growing. They will remain in the soil for 3 long, white and purple to 6 years if not properly controlled. or colored. Diazinon, 3 oz 50% wettable powder Sprays should be applied in sufficient water to allow or thorough coverage (1 to 2 gal). Granules should be ap-Diazinon, 10 oz 14% granules per plied as bought. 1000 sq. ft. of soil surface. Immediately after application, thoroughly mix the chemical into the top 4 to 5 inches of soil. READ THE LABEL. WIREWORMS 11/2 to 13/4 in. long. Dark brown in color. **CUTWORMS** Sevin, 2 Tbsp 50% WP; or Malathion, Apply to soil around the base of the plants. 2 Tsp, 50% EC/gal water. READ THE LABEL. 11/4 to 11/2 in. long. Brown to black and mottled with yellow, brown or white. 2

Crop	Insect Pest or Disease	Insecticide or Fungicide	Formulation to Buy	Amount of Formulation/ Gal. of Water	Days from Last Application to Harvest	When to Treat
ASPARAGUS	Asparagus beetles	Sevin	50% WP	2 Tbsp.	1	When beetles are first
	A CALL AND A CALL		25% EC	3 Tbsp.	1	seen on spears and
		or	and the second			fern. READ LABEL.
		Malathion	50% EC	2½ Tsp.	1	
	and the second second		57% EC	2 Tsp.	1	
	Rust (fungus)	maneb	80% WP	2 to 3 Tsp.	after harvest	Apply when rust firs
	Powdery red to				- ferns only	seen, repeat at 7 to
	black pustules on	10				10 day interval.
	ferns.	Mancozeb	80% WP	2 to 3 Tsp.	after harvest	
		(Dithane M-45 Manzate 200)			- ferns only	
		Ivializate 200)				
		or				
		Polyram	80% WP	2 to 3 Tsp.	after harvest	
					- ferns only	
BEANS	Aphids	Malathion	50% EC	2 Tsp.	1	Begin treatment whe
	Apinos	Maratinon	57% EC	1½ Tsp.	i	aphids are first seen
		or				
		Diazinon	25% EC	2 Tsp.	7	READ LABEL.
	Mexican Bean	Sevin	50% WP	2 Thom	0	Degle treatment who
	beetles and	Sevin	25% EC	3 Tbsp. 2 Tbsp.	0	Begin treatment whe insects are first seer
	Leafhoppers	or	2378 20	2 1050.	and the states	Repeat as necessar
1. 11		Malathion	50% EC	2 Tsp.	1	Repout de neccour.
			57% EC	1½ Tsp.	1	READ LABEL.
		or				
		Methoxychlor	50% EC	2 Tbsp.	3	
			25% EC	3 Tbsp.	3	
	Blights (bacteria)	Tribasic Copper	53% WP	2 to 4 Tsp.	0	Apply treatment whe
	Leaves and pods	Sulfate			and the second	spots are first seen
	- water soaked,					repeat at 7 to 10 da
	spots, may become	or		State State		intervals.
	brown or black,	Kocide 101	54% WP	2 to 4 Tsp.	0	
	sometimes with a					
	yellow border.					
	Rust (fungus)	maneb	80% WP	2 to 3 Tsp.	4	Apply treatment whe
	Powdery red to					spots first appear, re
	black pustules on	or				peat at 7 to 10 da
	ferns.	Bravo	6 flowable	2 to 3 Tsp.	7	intervals.
	Anthracnose					
	(fungus)			SAME AS FO	R RUST	
	Red brown sunken					
	spots on pods.	And the second second			And an an all an	
	White and Gray	Bravo	6 flowable	2 to 3 Tsp.	7	Apply treatment when
	Mold (fungi)			and the second second		spots first appear, re
	Cotton white to	or	50% WP	1¼ Tsp.	14	peat at 7 to 10 day
	gray growth on	Benlate			(snap)	intervals.
	pods and leaves				28	
	causing watery rot.			- 6 Mar 10	(lima)	
BEETS	White Grubs,					
	Wireworms,	REFER TO SEC	TION ON UND	ERGROUND F	ROOT-FEEDING I	NSECTS, PAGE 2.
	Maggots			Service and the service of the servi		
	Leaf Spot (fungus)	Tribasic Copper	53% WP	2 to 4 Tsp.	0	Apply treatment when
						disease first seen. Re
						peat at 7 to 10 da intervals.

Crop	Insect Pest or Disease	Insecticide or Fungicide	Formulation to Buy	Amount of Formulation/ Gal. of Water	Days from Last Application to Harvest	When to Treat		
CABBAGE CAULIFLOWER BROCCOLI BRUSSEL SPROUTS	Aphids	Malathion or	50% EC 57% EC	2 Tsp. 1½ Tsp.	7 (broccoli, 3)	Begin treating when aphids are first seen before leaves cup.		
		Diazinon	50% WP 25% EC	1 Tbsp. 2 Tsp.	7 — Cabbage and Brussel sprouts; 5 — Cauli- flower and Broccoli	Repeat as needed. READ LABEL.		
	Cabbage Worms	Thuricide or Dipel Disease spores. (Follow the label).						
		or						
		Sevin	50% WP 25% EC	4 Tbsp. 2 ¹ / ₂ Tbsp.	Same as for Aphids, above	Apply treatment when worms are very small		
		or Diazinon	50% WP 25% EC	1 Tbsp. 1 Tbsp.		and continue every 7 to 10 days until har- vest. READ LABEL.		
		or Malathion	50% EC 57% EC	2 Tsp. 1½ Tsp.				
	Blights (fungi) Brown to black	maneb or	80% WP	2 to 3 Tsp.	7	Apply treatment when disease first appears,		
-	spots on leaves and kurds (flow- ers).	Bravo	6 flowable	2 to 3 Tsp.	0	repeat at 7 to 10 day intervals.		
	Mildew (fungus) Leaves with yellow spots, sparse gray white mold on un- derside.	SAME AS FOR BLIGHTS.						
	Club Root (fungus) Knot or wart-like growth on roots.	Terraclor	75% WP	3 Tsp.		Apply ½ cup solution to roots when trans- planting.		
ARROTS	Knot or wart-like				ROOT-FEEDING 1	to roots when trans-		
ARROTS	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf				ROOT-FEEDING I	to roots when trans- planting. NSECTS, PAGE 2. Apply treatment when		
ARROTS	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf Spots (fungi) Leaves and stems – round tan spots	REFER TO SEC	CTION ON UNE	ERGROUND F		to roots when trans- planting. NSECTS, PAGE 2.		
ARROTS	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf Spots (fungi) Leaves and stems	REFER TO SEC Bravo or	CTION ON UNE 6 flowable	PERGROUND F 2 to 3 Tsp.	0	to roots when trans- planting. NSECTS, PAGE 2. Apply treatment when disease first seen, re- peat at 7 to 10 day		
ARROTS	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf Spots (fungi) Leaves and stems — round tan spots with dark borders or irregular dark brown spots. Leaves curl and	REFER TO SEC Bravo or maneb or Mancozeb (Dithane M-45	CTION ON UNE 6 flowable 80% WP	ERGROUND F 2 to 3 Tsp. 2 to 3 Tsp.	0 7	to roots when trans- planting. NSECTS, PAGE 2. Apply treatment when disease first seen, re- peat at 7 to 10 day		
UCUMBERS	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf Spots (fungi) Leaves and stems — round tan spots with dark borders or irregular dark brown spots. Leaves curl and	REFER TO SEC Bravo or maneb or Mancozeb (Dithane M-45 Manzate 200) or	CTION ON UND 6 flowable 80% WP 80% WP 47% WP	DERGROUND F 2 to 3 Tsp. 2 to 3 Tsp. 2 to 3 Tsp. 1 Tsp. 1 ³ / ₄ Tbsp.	0 7 7 14 1	to roots when trans- planting. NSECTS, PAGE 2. Apply treatment when disease first seen, re- peat at 7 to 10 day interval. Begin treatment when		
UCUMBERS	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf Spots (fungi) Leaves and stems – round tan spots with dark borders or irregular dark brown spots. Leaves curl and die.	REFER TO SEC Bravo or maneb or Mancozeb (Dithane M-45 Manzate 200) or Duter	CTION ON UND 6 flowable 80% WP 80% WP 47% WP	DERGROUND F 2 to 3 Tsp. 2 to 3 Tsp. 2 to 3 Tsp. 2 to 3 Tsp. 1 Tsp.	0 7 7 14	to roots when trans- planting. NSECTS, PAGE 2. Apply treatment when disease first seen, re- peat at 7 to 10 day interval. Begin treatment when plants first break		
UCUMBERS IELONS QUASH	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf Spots (fungi) Leaves and stems – round tan spots with dark borders or irregular dark brown spots. Leaves curl and die.	REFER TO SEC Bravo or maneb or Mancozeb (Dithane M-45 Manzate 200) or Duter Methoxychlor	CTION ON UND 6 flowable 80% WP 80% WP 47% WP 50% WP 25% EC 50% EC	DERGROUND F 2 to 3 Tsp. 2 to 3 Tsp. 2 to 3 Tsp. 2 to 3 Tsp. 1 Tsp. 1 Tsp. 1 ³ / ₄ Tbsp. 2 ¹ / ₃ Tbsp. 3 ¹ / ₂ Tsp.	0 7 7 14 1 1 1	to roots when trans- planting. NSECTS, PAGE 2. Apply treatment when disease first seen, re- peat at 7 to 10 day interval. Begin treatment when plants first break through soil, repeat at 5 day intervals. Do		
ARROTS	Knot or wart-like growth on roots. White Grubs, Wireworms Blight and Leaf Spots (fungi) Leaves and stems – round tan spots with dark borders or irregular dark brown spots. Leaves curl and die.	REFER TO SEC Bravo or maneb or Mancozeb (Dithane M-45 Manzate 200) or Duter Methoxychlor or	CTION ON UND 6 flowable 80% WP 80% WP 47% WP 50% WP 25% EC	DERGROUND F 2 to 3 Tsp. 2 to 3 Tsp. 2 to 3 Tsp. 2 to 3 Tsp. 1 Tsp. 134 Tbsp. 2 ¹ / ₃ Tbsp.	0 7 7 14 1	to roots when trans- planting. NSECTS, PAGE 2. Apply treatment when disease first seen, re- peat at 7 to 10 day interval. Begin treatment when plants first break through soil, repeat		

CONTINUED

Crop	Insect Pest or Disease	Insecticide or Fungicide	Formulation to Buy	Amount of Formulation/ Gal. of Water	Days from Last Application to Harvest	When to Treat
CUCUMBERS MELONS SQUASH	Aphids	Malathion or	50% EC 57% EC	2 Tsp. 1½ Tsp.	1 (pumpkin – 3)	Apply treatment whe aphids first appea and before leave
PUMPKINS (Continued)		Diazinon (Do not use on squash and pumpkins.)	25% WP	1 Tsp.	7 (melons <u>–</u> 3)	curl. Repeat weekly.
	Squash Bug (Squash and pumpkins only)	Sevin	50% WP 25% EC	2 Tbsp. 1¼ Tbsp.	0 0	Begin treatment whe black bugs are fir seen. Repeat a needed.
	Angular Leaf Spot (bacteria)	Kocide 101 or	54% WP	2 to 4 Tsp.	0	Apply treatment whe disease first seen, r
	Leaves — brown angular to square spots. Centers of spots drop out giv- ing leaf a shot holed appearance. Water soaked to scabby spots on fruit.	Tribasic Copper Sulfate	53% WP	2 to 4 Tsp.	0	peat at 7 to 10 da intervals.
	Other Leaf Spots (fungi) Round tan to brownish leaf spots	Bravo	6 flowable	2 to 3 Tsp.	0	Same as above.
	often with darker borders. Fruit spots often sunken with	maneb or	80% WP	2 to 3 Tsp.	5	Same as above.
	concentric ring pattern.	Mancozeb	80% WP	2 to 3 Tsp.	5	
	Powdery Mildew (fungus)	Bravo	6 flowable	2 to 3 Tsp.	0	Apply treatment wh disease is first see Repeat every 7 to
	White powder on leaf surfaces. Leaves yellow and die.	or Benlate	50% WP	1 Tsp.	0	days.
PEAS	Aphids	Malathion	50% EC 57% EC	2 Tsp. 1½ Tsp.	3 3	Begin treating wh aphids first appe and repeat weekly
		or Diazinon	50% WP 25% EC	1 Tbsp. 1 Tsp.	0 0	as needed. REALABEL.
PEPPERS	Aphids	Malathion	50% EC 57% EC	2 Tsp. 1½ Tsp.	3 3	Begin treating und sides of leaves aphids in mid-Ju
	Aphids and	Diazinon	25% EC	1 Tsp.	5	and continue every
	Corn Borer	plus	50% WP	1/2 Tbsp.	5	to 7 days until fro Add Sevin to eith
		Sevin	50% WP	2 Tbsp.	0	Malathion or Diazin in early August a continue 5 to 7 c treatment until from

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Crop	Insect Pest or Disease	Insecticide or Fungicide	Formulation to Buy	Amount of Formulation/ Gal. of Water	Days from Last Application to Harvest	When to Treat
PEPPERS	Leaf and Fruit	Bravo	6 flowable	and the second second		The second second second
(Continued)	Spots (bacteria – fungi)	or	6 Howable	2 to 3 Tsp.	0	Apply treatments when disease first ap-
	Round to irregular shaped brown to	maneb /	80% WP	2 to 3 Tsp.	5	pears, repeat at 7 to 10 day intervals. Ko- cide 101 or Tribasic
	black spots on leaves and fruit.	or Mancozeb (Dithane M-45 Manzate 200)	80% WP	2 to 3 Tsp.	5	Copper Sulfate are important during wet weather to prevent bacterial diseases.
		plus				
		Kocide 101	54% WP	2 to 4 Tsp.	0	
		or Tribasic Copper Sulfate	53% WP	2 to 4 Tsp.	0	
POTATOES	Aphids	Diazinon	25% EC	2 Tsp.	35	Pagin treatment to
	, ipinoo	Didemon	50% WP	1 Tbsp.	35	Begin treatment to underside of leaves
		or		1 1000.		in mid-June and con-
		Malathion	50% EC	2 Tsp.	0	tinue every 5 to 7
		or	57% EC	1½ Tsp.	0	days until harvest.
		Thiodan	3% Dust	¾ lb/1000 sq. ft.	0	READ LABEL.
	Flea beetles,	Sevin	50% WP	0.75-0		
	Leafhoppers, Colorado Potato	or	25% EC	2 Tbsp. 1 Tbsp.	0 35	Begin when insects first appear and con-
	Beetles	Diazinon	25% EC	2 Tsp.	0	tinue as needed.
			50% WP	1 Tbsp.	35	READ LABEL.
		or		A. Carteres	0	marine light strange
		Thiodan	3% Dust	3/4 lb/1000 sq.	ft.	
	Late and Early Blight (fungi) Leaves — brown to	Bravo	6 flowable	2 to 3 Tsp.	0	Apply treatment when plants are 6" high
	black; round or ir- regular spots, of-	or maneb	80% WP	2 to 3 Tsp.	0	and repeat at 7 to 10 day intervals till har- vest. Add Kocide 101
	ten with a concen- tric ring pattern or with white mold growth (particular-	or Mancozeb (Dithane M-45 or Manzate 200)	80% WP	2 to 3 Tsp.	0	or Tribasic Copper Sulfate to spray late in growing season.
	ly on underside of leaf) around the border. Tubers	plus Kocide 101	54% WP	2 to 4 Tsp.	0	
	with brown sunken spots.	or	01/3 M	2 to 4 TSp.	0	
		Tribasic Copper Sulfate	53% WP	2 to 4 Tsp.	0	
ADISHES	Aphids	Malathion	50% EC	2 Tbsp.	7	Apply treatments
URNIPS		or	57% EC	1½ Tsp.	(turnip – 3)	when aphids first ap-
		Diazinon	50% WP	1 Tbsp.	10	pear and repeat as needed. READ LABEL.
			25% EC	2 Tsp.	10	HOUGH NEAD LADEL.

Crop	Insect Pest or Disease	Insecticide or Fungicide	Formulation to Buy	Amount of Formulation/ Gal. of Water	Days from Last Application to Harvest	When to Treat
RADISHES TURNIPS (Continued)	Flea beetles	Sevin	50% WP 25% EC	2 Tbsp. 1¼ Tbsp.	3 (14 days if tops are	Begin treatments when small round holes first appear in
44 - 32 		or Diazinon	25% EC	1 Tbsp.	eaten) 10	leaves. Repeat as needed.
	Mildew (fungus) Yellow spots on leaves with sparse gray to white mold	zineb or	75% WP	2 to 3 Tsp.	0 (7 days on turnips if tops used.)	Apply treatment when disease first seen Repeat 7 to 10 day intervals.
	on underside.	Tribasic Copper Sulfate	53% WP	2 to 4 Tsp.	0	
	Leaf Spot (fungus) Tan to dark brown round to irregular spots.	zineb	75% WP	2 to 3 Tsp.	0 (7 days on turnips if tops used.)	Same as above.
SWEET CORN	Corn borer and Aphids	Sevin plus	50% WP	3 Tbsp.	0	Begin treatments in mid-June and par- ticularly from early
		Diazinon	25% EC	1 Tbsp.	1	August throughout harvest.
	Corn earworm	Sevin	50% WP 25% EC	4 Tbsp. 2½ Tbsp.	0 0	Begin treatments to silks when silks firs
		or Diazinon	25% EC	1 Tbsp.	1	appear. Continue treatments every 2 to 3 days until silks dry up and turn brown.
	Flea beetles	Sevin	50% WP 25% EC	3 Tbsp. 2½ Tbsp.	0 0	Apply treatment when plants emerge. Re
		or Diazinon	25% EC	1 Tbsp.	1	peat 2 to 3 times at 5-day intervals.
TOMATOES	Cutworms	Sevin	50% WP 25% EC	4 Tbsp. 2½ Tbsp.	0 0	Apply to soil surface when plants are set
		or Thiodan	3% Dust	¾ lb/1000 sq. ft.	1	out and repeat weekly for 2 or more weeks.
	Aphids	Malathion	50% EC 57% EC	2 Tsp. 1½ Tsp.	1 1	Begin treatments to undersides of leaves
		or Diazinon	50% WP	1 Then		when aphids are first
		or	25% EC	1 Tbsp. 2 Tbsp.	1 1	seen. Repeat as needed.
		Thiodan	3% Dust	3/4 lb/1000 sq. ft.	1	
	Hornworms	Thuricide or Dip	el Disease spor	es. (Follow the	label).	
	Hornworms, Fruit worms	or Sevin	50% WP 25% EC	3 Tbsp. 2 Tbsp.	0	Worms can be hand picked off when dam- age first appears. Otherwise, apply in- secticide as needed.

Crop	Insect Pest or Disease	Insecticide or Fungicide	Formulation to Buy	Amount of Formulation/ Gal. of Water	Days from Last Application to Harvest	When to Treat
TOMATOES (Continued)	Leaf Blights and Fruit Spots (bacteria, fungi)	Bravo or	6 flowable	2 to 3 Tsp.	0	Apply treatment after transplanting or when plants are 6" tall, re-
	Tan to black round or irregular spots on leaves, often	maneb or	80% WP	2 to 3 Tsp.	5	peat at 7 to 10 day intervals. Kocide 101 or Tribasic Copper
	with concentric rings. On fruit, spots raised and scabby or sunken with concentric	Mancozeb (Dithane M-45 or Manzate 200) plus	80% WP	2 to 3 Tsp.	5	Sulfate added to pro- tect against bacterial diseases.
	rings.	Kocide 101	54% WP	2 to 4 Tsp.	b	
		Tribasic Copper Sulfate	53% WP	2 to 4 Tsp.	0	

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