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Texas Agricultural Extension Service

# Texas Plant Diseases Handbook

## *Chemical Control Supplement*

1991 Revised Edition



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1997

**Texas Plant Disease Handbook  
- Chemical Control Supplement -  
(Revised January, 1991)**

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## TABLE OF CONTENTS

I.	Preface .....	i
II.	Strategies for Disease Control with Regard to the Use of Plant Health Protection Chemicals .....	ii
III.	Explanation of Terms Describing Chemical Use .....	iii
IV.	Foliar Disease Control	
	General Ornamentals .....	1
	Flowers, Bedding Plants, and Ground Covers .....	8
	Flower Bulbs, Corms and Tubers .....	20
	Shrubs .....	25
	Trees .....	38
	Turf .....	50
	Vegetables .....	53
	Fruit and Nut Crops .....	70
	Field Crops .....	79
V.	Seed Treatments	
	Flower Bulbs, Corms and Tubers .....	85
	Vegetables .....	86
	Field Crops .....	91
VI.	Nematode Control	
	Nursery and Landscape Plants .....	103
	Turf .....	104
	Vegetables .....	105
	Fruit and Nut .....	108
	Field Crops .....	109
VII.	Conversion Rates for 1 Gallon Application of Fungicide .....	111
VIII.	List of Products Used in Chemical Control of Plant Diseases and Their Manufacturers .....	113
	Address and Telephone Number of Manufacturers .....	118

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## PREFACE

This publication was prepared to serve as a reference in plant disease control for County Agricultural Extension Agents in Texas. It is also available to agribusiness personnel, growers and others who have need of information on chemical disease control.

Suggestions contained in this publication have been carefully checked with product labels. Users should be reminded, however, that changes occur regularly and it is imperative that plant health protection products be used in strict accordance with the label shown on the product at the time of use. This publication represents suggestions for use and is not intended to substitute in any way for the recommendations appearing on the label. Before using any plant health protection product, read and follow label directions.

Listings contained in this publication were selected on the basis of their having been registered with the Environmental Protection Agency as well as being available for purchase by Texas producers. This policy may have resulted in inadvertent omission of materials which were equally suitable in performance to those listed. Companies with such products are invited to submit labels along with performance data. Such submissions will be evaluated and considered for addition to the next revision.

Registration and EPA policies are subject to change. At the same time new products enter the market and some existing products are withdrawn. All use suggestions were current as of 1-1-91 to the knowledge of the authors. Information on the current status of chemical clearances can be obtained by contacting Dr. Rodney Holloway, Interim Program Leader and Pesticide Impact Assessment Specialist at Texas A&M University, College Station, Texas 77843 (409-845-3849). Information can also be obtained from the appropriate manufacturer, the Texas Department of Agriculture (512-463-7536) or directly from the Environmental Protection Agency. While complete revision is done periodically, it is not possible to issue revisions to those who may be in possession of copies of this publication.

The contents of this publication are listed for informational purposes only and the mention of products does not guarantee or warrant the standard of products mentioned, nor does it imply approval of any product to the exclusion of others which may be equally suitable.

## STRATEGIES FOR DISEASE CONTROL WITH REGARD TO THE USE OF PLANT HEALTH PROTECTION CHEMICALS

The authors of this publication are aware of the importance of plant health protection chemicals in the production of healthy and productive plants. Certain factors should be considered, however, in seeing that their use achieves desired goals. First it is necessary to correctly identify the present or potential problem so that effective and appropriate control alternatives can be selected. Individuals needing assistance with plant disease identification can benefit from contacting the Texas Plant Disease Diagnostic Laboratory at College Station, Texas. Its address is Room 101, L. F. Peterson Building, Texas A&M University, College Station, Texas 77843, (Telephone 409-845-8032).

Most plant disease problems are more easily solved by using preventative measures. This means that most plant health protection chemicals need to be applied just prior to the time that disease development is expected. This type of timing requires an understanding of disease development to ensure proper timing of application. Assistance in the form of publications, personal consultation and educational meetings are available from the Texas Agricultural Extension Service. See your County Extension Agent.

Plant health protection chemicals are always more effective when used in conjunction with appropriate cultural practices. One should not realistically expect a single chemical compound to perform all of the duties required to control disease causing organisms in a complete environmental system. Practices such as crop rotation, use of resistant varieties and crop residue management help to reduce pathogen populations so that protection chemicals work more effectively. For additional information on alternative control methods, consult the Texas Plant Disease Handbook (B-1140).

Application timing is often critical, especially when multiple applications of protectant fungicides are made. Usually the first application is made just before first infection is expected and additional ones are made as the effects of the first diminish. Application intervals for protectant fungicides generally range between 7 and 21 days and are specified on product labels.

Limitations exist as to when materials should be applied in relation to harvest. A few compounds have "No Time Limitation" and can be used at any time up to harvest. Others have waiting periods and should not be used within certain periods before harvest. A limited amount of information of this type is presented in this publication so the label should be consulted for more detail.

Reentry time is the length of time after application of a chemical before individuals can safely reenter the treated area without wearing protective clothing. This time is presented in this publication. Applicators should check this time before applying a treatment.

Seldom does application of plant health protection chemicals result in complete control of a given disease. If selected and used properly, however, these compounds will permit a crop to be grown without substantial loss and within the limits of economical production.

Suggestion for proper chemical use have come from a wide array of research and demonstration experience. The suggested rates are those that have been found to be both effective and economical. Rates are those that are approved by the Environmental Protection Agency. Rates that are either less than or more than that shown on the label should not be used. If too little is used, one may not get desired results and if too much is used, harm may come to the target plants, to the consumer or the environment.

Positive benefit can come from the proper use of plant health compounds. Crop protection is an essential aspect of producing a healthful and economical food supply. Plant disease causing organisms increase when crops are grown more intensively and extensively. Effective control is essential for productive crops and attractive landscapes.



## EXPLANATION OF TERMS DESCRIBING CHEMICAL USE

General Use Sections	Products listed in these sections have a general listing of crops and pathogens controlled. The products in this list can be used on many different crops within that category. (ex. Benomyl on flowers, bedding plants and ground covers)
Specific Use Sections	Products listed in these sections have a specific crop and pathogen listed on the label.
*	The asterisk (*) follows the number of days from last application until harvest.
Interval	This is the interval between applications. Generally shorter intervals are followed during periods of weather that favor disease development or on highly susceptible crops. Longer intervals are suggested during periods of low humidity or on varieties that have a high level of disease resistance.
Rate/A or 100 gallons	Normally a range of rates are given for a product. Lower rates are generally used during periods of low humidity or on varieties that have a high degree of disease resistance. The higher rate is used on crops that are susceptible to the pathogen or during periods of weather conditions that favor disease development. Higher rates are sometimes used if the pathogen has become established on a crop.
Refer to label	This term is used to indicate that before using any product, read the label carefully for any label changes that might have taken place after the publication was printed. There will also be additional information on the product as well as any restrictions.
Same as above	This means that the comment section for that product is the same as the comment section for the product immediately above.
Formulations	To assist in the use of this publication, as many of the different formulations of a product as possible are included. If a formulation was inadvertently left out, it does not mean that the product is not effective. When using different formulations of a product be sure to read the label carefully for any changes.
"E" or "EC"	Emulsifiable concentrate - A formulation which contains an active ingredient, a solvent, and an emulsifier.
"WP" or "W"	Wettable powder - Dry powder formulations which easily mix with water. Wettable powders contain an active ingredient, an emulsifier and a diluent.
"D"	Dusts - Dusts are ready to use when purchased. Dusts contain an active ingredient and a diluent.

"SP" or "S"	Soluble Powder - Dry powders which contain an active ingredient and a diluent. No emulsifier is required since the active ingredient is water soluble.
"WDG", "WG", "DF" or "DG"	Wettable Dry Granules, Wettable granules, Dry Flowable and Dry Granules - Dry formulations that are formulated in small distinct particles. They contain an active ingredient, an emulsifier and a diluent.
"F" or "FL"	Flowables - Liquid formulations that are suspensions of the active ingredient in a diluent.
"G"	Granules - Granules are applied directly to the soil and incorporated. They contain an active ingredient and a diluent. The diluent is coarse or granulated and may be clay, ground corn cob or similar material. The active ingredient is absorbed or coats the granule.
"LC"	Liquid Concentrate - A liquid material that contains an active ingredient and a diluent.
"L" or "Liq"	Liquid - Similar to LC, except the material is not concentrated.

GENERAL ORNAMENTALS

FOLIAGE PLANTS, FLOWERS, BULBS, CORMS, TUBERS, BEDDING PLANTS,  
GROUND COVERS, SHRUBS AND TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)	
<b>GENERAL USE</b> (Refer to label for specific crops and use patterns)						
<b>SOIL BORNE DISEASES</b>						
	Phytophthora and Pythium	propamocarb hydrochloride	Banol	2-3 fl oz/10 gals	Refer to label	
			66.5% EC			
			fosetyl-AI	Aliette	2.5-5 lbs/ 100 gals	Refer to label
			80% WP			
			etridiazole	Terrazole	----	Refer to label
			25% EC			
			Terrazole	----	Refer to label	
			35% WP			
			Truban	4-6 oz/100 gals	Professional use Refer to label	
			30% WP			
		Truban	3-4 fl oz/100 gals	Same as above		
		25% EC				
		Truban 5G	5-10 oz/cu yd	Same as above		
		5% G				
		metalaxyl	Subdue 2E	0.25-2 fl/oz/ 100 gals	Soil drench	
			25.1% EC	or		
				0.25-0.5 fl oz/ cu yd	Soil mix	
	Root Rots other than Pythium or Phytophthora	PNCB	Turfcide	----	Refer to label	
			10% G			
			Turfcide	----	Same as above	
		2 EC				
			Terraclor	----	Same as above	
		75% WP				
		iprodione	Chipco 26019	6.5 oz/100 gals	Refer to label (Rhizoctonia only)	
			50% WP			
		benomyl	Benlate 50 DF	1 lb/100 gals	Refer to label	
			50% DF			
			Tersan 1991 DF	1 lb/100 gals	Same as above	
			50% WP			

GENERAL ORNAMENTALS

FOLIAGE PLANTS, FLOWERS, BULBS, CORMS, TUBERS, BEDDING PLANTS,  
GROUND COVERS, SHRUBS AND TREES

rop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>OIL BORNE DISEASES (Cont'd)</u>					
			Benomyl 50 DF 50% DF	1 lb/100 gals	Same as above
		thiophanate-methyl	Topsin M (Turf and Ornamental) 70% WP	1 lb/100 gals	Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	20 oz/100 gals	Same as above
		captan	Captan 50 48.9% WP	2 lbs/100 gals	Refer to label
	All Root Rots	thiophanate-methyl + etrizidazole	Banrot 25% + 15% WP	6-12 oz/100 gals	Professional-use Refer to label
			Banrot 8G 8% G	8-16 oz/cu yd 8-12 lbs/1000 sq ft	Same as above
		metam-sodium	Vapam 32.7% EC	1-2 pts/100 sq ft	Refer to label
	Crown Gall	xyelenol + meta-cresol	Gallex 0.46% + 0.47%	----	Refer to label

STEM, FOLIAGE AND FLOWER DISEASES

	Leafspots, Flower Blight, Rust, Botrytis, Downy Mildew, Phytophthora	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above

GENERAL ORNAMENTALS

FOLIAGE PLANTS, FLOWERS, BULBS, CORMS, TUBERS, BEDDING PLANTS,  
GROUND COVERS, SHRUBS AND TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>STEM, FOLIAGE AND FLOWER DISEASES (Cont'd)</u>					
			Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals or 1.5 tbs/gal	Same as above
		copper hydroxide	Kocide 101 77% WP	1 lb/100 gals	Interval 7-14 days Refer to label
			Champion 37.5% F	1.33 pts/100 gals	Same as above
		iprodione	Chipco 26019 50% WP	1-2 lbs/100 gals	Interval 10-14 days Refer to label
		benomyl	Benlate 50 DF 50% DF	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 DF 50% DF	0.5-1 lb/100 gals	Same as above
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
		triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 10-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
		chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Refer to label
			Daconil 2787 90% WDG	1.25 lbs/100 gals	Same as above
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
		triforine	Funginex 6.5% EC	2/3-1 Tbsp/1 gal	Interval 7-10 days Refer to label
		thiophanate methyl + mancozeb	Zyban 15% + 60% WP	1.5 lbs/100 gals	Interval 7-10 days Professional use
			Duosan 15% + 60% WP	1.5 lbs/100 gals	Refer to label Professional use

GENERAL ORNAMENTALS

FOLIAGE PLANTS, FLOWERS, BULBS, CORMS, TUBERS, BEDDING PLANTS,  
GROUND COVERS, SHRUBS AND TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>STEM, FOLIAGE AND FLOWER DISEASES (Cont'd)</u>					
		sulfur	numerous formulations	----	Refer to label
		ziram	Ziram F-4 39.2% F	2-2.5 pts/100 gals	Interval 7 days Refer to label
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above
	Botrytis	iprodione	Chipco 26019 50% WP	1-2 lbs/100 gals	Interval 10-14 days Refer to label
		vinclozolin	Ornalin 50% WP	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Ornalin 41.3% F	8-12 fl oz/100 gals	Same as above
			Fungo Flo 46.2% F	10-20 fl oz/ 100 gals	Refer to label
			Topsin M (Turf and Ornamental) 70% WP	0.5-1.0 lb/100 gals	Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above
		thiophanate-methyl + mancozeb	Duosan 15% + 60% WP	1.5 lbs/100 gals	Refer to label Professional use
			Zybam 15% + 60% WP	1.5 lbs/100 gals	Same as above
	Botrytis	chlorothalonil	Daconil/2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
			Daconil 2787 90% WDG	1.25 lbs/100 gals	Same as above

GENERAL ORNAMENTALS

FOLIAGE PLANTS, FLOWERS, BULBS, CORMS, TUBERS, BEDDING PLANTS,  
GROUND COVERS, SHRUBS AND TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<b>STEM, FOLIAGE AND FLOWER DISEASES (Cont'd)</b>					
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals or 1.5 tbs/gal	Same as above
	Rusts	chlorothalonil	Daconil/2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
			Daconil 2787 90% WDG	1.25 lbs/100 gals	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above

GENERAL ORNAMENTALS

FOLIAGE PLANTS, FLOWERS, BULBS, CORMS, TUBERS, BEDDING PLANTS,  
GROUND COVERS, SHRUBS AND TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>STEM, FOLIAGE AND FLOWER DISEASES (Cont'd)</u>					
			Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals or 1.5 tbs/gal	Same as above
		triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 10-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
		triforine	Triforine EC 18.2% EC	12-18 fl oz/100 gals	Interval 7-10 days Refer to label
			Funginex 6.5% EC	2/3-1 Tbsp/1 gal	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	1 lb/100 gals	Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	20 oz/100 gals	Same as above
		thiophanate- methyl + mancozeb	Duosan 15% + 60% WP	1.5 lbs/100 gals	Refer to label Professional use
			Zybam 15% + 60% WP	1.5 lbs/100 gals	Same as above
		ziram	Ziram F-4 39.2% F	2-2.5 pts/100 gals	Interval 7 days Refer to label
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above
	Powdery Mildew	triforine	Triforine EC 18.2% EC	12-18 fl oz/100 gals	Interval 7-10 days Refer to label
		benomyl	Benlate 50 DF 50% DF	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 DF 50% DF	0.5-1 lb/100 gals	Same as above



GENERAL ORNAMENTALS

FOLIAGE PLANTS, FLOWERS, BULBS, CORMS, TUBERS, BEDDING PLANTS,  
GROUND COVERS, SHRUBS AND TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>STEM, FOLIAGE AND FLOWER DISEASES (Cont'd)</u>					
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
		triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 10-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	1 lb/100 gals	Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	20 oz/100 gals	Same as above
		thiophanate- methyl + mancozeb	Duosan 15% + 60% WP	1.5 lbs/100 gals	Refer to label Professional use
			Zybam 15% + 60% WP	1.5 lbs/100 gals	Same as above
		ziram	Ziram F-4 39.2% F	2-2.5 pts/100 gals	Interval 7 days Refer to label
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<b><u>SPECIFIC USE PRODUCTS</u></b> (Refer to pages 1-7 for general use products that are also approved for use on the crops listed below and other crops in this category.)					
<b><u>ACUBA, JAPONICA</u></b>					
	Alternaria Leaf Spot, Anthracnose	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
<hr/>					
<b><u>AFRICAN VIOLET</u></b>					
	Botrytis Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
<hr/>					
<b><u>ASTERS</u></b>					
	Rust	ziram	Ziram F-4 39.2% F	2 pts/12 gals	Interval 7 days Refer to label
			Ziram W-76 76% WP	1 lb/12 gals	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>ASTERS (Cont'd)</u>					
		triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
<u>BEGONIA</u>					
	Botrytis Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
<u>CARNATION</u>					
	Alternaria Leaf Spot, Anthracnose, Botrytis Blight	maneb + zinc	Maneb Plus Zinc F4 37% F	1.6-2.4 pts/100 gals	Interval 7 days Refer to label
			Manex 37% F	1.6-2.4 pts/100 gals	Same as above
	Leaf Spot	mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
	Rust, Leaf Spot, Petals Blight	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7-10 days Refer to label
			Ziram W-76 76% WP	1.67 lbs/100 gals	Same as above

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CARNATION (Cont'd)</u>					
	Alternaria Leaf Spot, Branch Rot, Botrytis Flower Blight	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Rust, Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
<hr/>					
<u>CHRYSANTHEMUM</u>					
	Ascochyta Ray Blight, Botrytis Petal Blight, Septoria Leaf Spot	maneb + zinc	Maneb Plus Zinc 4F 37% F	12.8 fl oz/100 gals	Interval 3-4 days Refer to label
			Manex 37% F	12.8 fl oz/100 gals	Same as above
	Botrytis Petal Blight	mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
	Leaf Spot	ziram	Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7-10 days Refer to label
	Mycosphaerella Ray Blight, Septoria Leaf Spot, Botrytis Petal Blight	chlorothalonil	Ziram W-76 76% WP	1.67 lbs/100 gals	Same as above
			Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
	Rust, Powdery Mildew	triadimefon	Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
			Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>DAISY</u>	Mycosphaerella Ray Blight, Septoria Leaf Spot, Botrytis Petal Blight	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
<u>DELPHINIUM</u>	Powdery Mildew	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7 days Refer to label
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above
<u>DIEFFENBACHIA</u>	Leptosphaeria Leaf Spot	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
<u>DRACAENA</u>	Fusarium Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
<u>FATSIA</u>	Anthrachnose	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>FATSIA (Cont'd)</u>					
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
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<u>FICUS</u>					
	Cercospora	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
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<u>FUCHSIA</u>					
	Botrytis Blight, Rust	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
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<u>GERANIUM</u>					
	Botrytis Blight, Rust	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Rust	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>GERANIUM (Cont'd)</u>					
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
	Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
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<u>HOLLYHOCKS</u>					
	Powdery Mildew	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7 days Refer to label
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above
	Rust	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Anthracnose, Cercospora Leaf Spot, Rust	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
	Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
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<u>HONEYSUCKLE</u>					
	Herpobasidium Blight	mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7 days Refer to label
			Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>HONEYSUCKLE (Cont'd)</u>					
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
<u>MARIGOLDS</u>					
	Rust	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7-10 days Refer to label
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above
	Botrytis Petal Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
<u>MORNING GLORY</u>					
	Rust	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7-10 days Refer to label
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above
<u>ORCHID</u>					
	Botrytis Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above



SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>OYSTER PLANT</u>					
	Tan Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
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<u>PACHYSANDRA</u>					
	Volutella Leaf Blight	chlorothalonil	Daconil 2787 40.4% F	4 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	3 lbs/100 gals	Same as above
		mancozeb	Fore 80% WP	2 lbs/50 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	2 lbs/50 gals	Same as above
			Dithane M-45 80% WP	2 lbs/50 gals	Same as above
			Dithane F-45 37% F	3.2 pts/50 gals	Same as above
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<u>PALON PALM (Chamaedora)</u>					
	Helminthosporium Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
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<u>PANSIES</u>					
	Anthracnose	maneb + zinc	Maneb Plus Zinc 4F 37% F	1.6-2.4 pts/ 100 gals	Interval 7 days Refer to label
			Manex 37% F	1.6-2.4 pts/ 100 gals	Same as above
		mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Fore 80% WP	1.5 lbs/100 gals	Same as above

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PANSIES (Cont'd)</u>					
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
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<u>PEONY</u>					
	Alternaria	maneb + zinc	Maneb Plus Zinc 4F 37% F	1.6-2.4 pts/ 100 gals	Interval 7 days Refer to label
			Manex 37% F	1.6-2.4 pts/ 100 gals	Same as above
	Phytophthora	mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
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<u>PEPEROMIA</u>					
	Cercospora Leaf Spot	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)	
<u>PETUNIA</u>						
	Phytophthora Blight, Botrytis Blight	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label	
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above	
<u>PHILODENDRON</u>						
	Phytophthora Blight, Dactylaria Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label	
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above	
			mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
				Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
				Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
		Dithane F-45 37% F	2.4 pts/100 gals	Same as above		
<u>PHYLOX</u>						
	Powdery Mildew	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7 days Refer to label	
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above	
	Cercospora, Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label	
<u>PRAYER PLANT</u>						
	Helminthosporium Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-10 days Refer to label	
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above	
<u>SCHEFFLERA</u>						
	Alternaria Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label	

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SCHEFFLERA (Cont'd)</u>					
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
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<u>SNAPDRAGONS</u>					
	Rust	maneb + zinc	Maneb Plus Zinc 4F 37% F	1.6-2.4 pts/ 100 gals	Interval 7 days Refer to label
			Manex 37% F	1.67-2.4 pts/ 100 gals	Same as above
		mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
	Leaf Spot	ziram	Ziram F-4 39.2 F	2.5 pts/100 gals	Interval 7-10 days Refer to label
			Ziram W-76 76% WP	1.67 lbs/100 gals	Same as above
	Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
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<u>SYNGONIUM</u>					
	Cephalosporium Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label

SPECIFIC ORNAMENTALS

FLOWERS, BEDDING PLANTS AND GROUND COVERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SYNGONIUM</u> Cont'd)					
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
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<u>ZINNIA</u>					
	Alternaria Blight, Leaf Spot, Botrytis Blight	maneb + zinc	Maneb Plus Zinc 4F 37% F	1.6-2.4 pts/ 100 gals	Interval 7 days Refer to label
			Manex 37% F	1.6-2.4 pts/ 100 gals	Same as above
	Powdery Mildew	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Alternaria Leaf Spot	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
	Cercospora, Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label

SPECIFIC ORNAMENTALS

FLOWER BULBS, CORMS AND TUBERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SPECIFIC USE PRODUCTS</u> (Refer to pages 1-7 for general use products that are also approved for use on the crops listed below and other crops in this category.)					

DAFFODIL

Botrytis Blight	iprodione	Chipco 26019 50% WP	1-2 lbs/100 gals	Interval 10-14 days Refer to label
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DAHLIA

Botrytis Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
		Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
		Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
		Dithane F-45 37% F	2.4 pts/100 gals	Same as above
		Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
		Strike 25% WP	2-4 oz/100 gals	Same as above
Leaf Spot, Petal Blight, Powdery Mildew	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7-10 days Refer to label
		Ziram W-76 76% WP	1.67 lbs/100 gals	Same as above
	maneb + zinc	Maneb Plus Zinc F4 37% F	1.6-2.4 pts/ 100 gals	Interval 7 days Refer to label
		Manex 37% F	1.6-2.4 pts/ 100 gals	Same as above

GLADIOLUS

Botrytis Blight, Curvularia, Stemphylium Leaf Spot	maneb + zinc	Manex 37% F	2.4 pts/100 gals	Interval 7 days Refer to label
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SPECIFIC ORNAMENTALS

FLOWER BULBS, CORMS AND TUBERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>GLADIOLUS</u> (Cont'd)					
			Maneb Plus Zinc F4 37% F	2.4 pts/100 gals	Same as above
	Botrytis Blight, Curvularia Leaf Spot, Didymellina Leaf Spot, Mystrosporium Ink Spot	chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above
			mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals
		Fore 80% WP		1.5 lbs/100 gals	Interval 7-10 days Refer to label
		Dithane DF 75% DF		1.5 lbs/100 gals	Same as above
		Dithane M-45 80% WP		1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
		Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above	
	Leaf Spots	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7-10 days Refer to label
			Ziram W-76 76% WP	1.67 lbs/100 gals	Same as above
	Botrytis Blight	iprodione	Chipco 26019 50% WP	1-2 lbs/100 gals	Interval 7-14 days Refer to label
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<u>IRIS</u>	Botrytis Blight	iprodione	Chipco 26019 50% WP	1-2 lbs/100 gals	Interval 10-14 days Refer to label

SPECIFIC ORNAMENTALS

FLOWER BULBS, CORMS AND TUBERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)	
<u>IRIS</u> (Cont'd)	Botrytis Blight, Curvularia Leaf Spot, Didymellina Leaf Spot, Mystrosporium Ink Spot	chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label	
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above	
		mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 3-7 days Refer to label	
			Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label	
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above	
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above	
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above	
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above	
<u>LILY</u>	Botrytis Blight	iprodione	Chipco 26019 50% WP	1-2 lbs/100 gals	Interval 10-14 days Refer to label	
			Maneb + zinc	Maneb 37% F	2.4 pts/100 gals	Interval 7 days Refer to label
				Maneb Plus Zinc 4F 37% F	1.6-2.4 pts/ 100 gals	Same as above
	Botrytis Blight, Certain Other Diseases	chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label	
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above	
		mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7 days Refer to label	



SPECIFIC ORNAMENTALS

FLOWER BULBS, CORMS AND TUBERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>LILY (Cont'd)</u>					
			Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/ 100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
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<u>NARCISSUS</u>					
	Botrytis Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Manzate 200 DF 75% WP	1-2 lbs/100 gals	Same as above
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<u>TULIP</u>					
	Botrytis Blight	iprodione	Chipco 26019 50% WP	1-2 lbs/100 gals	Interval 10-14 days Refer to label
		chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above
		mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7 days Refer to label
			Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label

SPECIFIC ORNAMENTALS

FLOWER BULBS, CORMS AND TUBERS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>TULIP</u> (Cont'd)					
			Dithane DF 75% F	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SPECIFIC USE PRODUCTS</u> (Refer to pages 1-7 for general use products that are also approved for use on the crops listed below and other crops in this category.)					
<u>AZALEA</u>					
	Petal Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 3 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
			Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Same as above
		PCNB	Terraclor 75% WP	1 lb/150 sq ft	Refer to label
			Turcide 24% EC	1 1/2 qts/150 sq ft	Same as above
		captan	Captan 50-WP 50% WP	2 lbs/100 gals	Interval 7-14 days Refer to label
		triadimefon	Bayleton 25% WP	8-16 oz/100 gals	Interval 7-14 days Refer to label
		thiophanate- methyl	Fungo Flo 46.2%	20 fl oz/100 gals	Interval 10-14 days Refer to label
		ziram	Ziram F-4 39.2% F	3-4 pts/100 gals	Interval 10-14 days Refer to label
			Ziram W-76 76% WP	1.5-2 lbs/100 gals	Same as above
	Petal Blight, Phytophthora Dieback	chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>AZALEA (Cont'd)</u>					
	Leaf Spots, Petal Blight	benomyl	Benlate 50 DF 50% DF	1 lb/100 gals	Interval 10-14 days Refer to label
	Powdery Mildew, Leaf Spots, Petal Blight	thiophanate methyl + mancozeb	Zyban 15% + 60% WP	1.5 lbs/100 gals	Interval 7 days Professional use Refer to label
	Cercospora Leaf Spot, Botrytis Blight, Phytophthora Dieback, Powdery Mildew	copper hydroxide	Kocide 101 77% WP	1 lb/100 gals	Interval 7-14 days Refer to label
			Champion 37.5% F	1.33 pts/100 gals	Same as above
			Champion 77% WP	1 lb/100 gals	Same as above
<hr/>					
<u>BOXWOOD</u>					
	Leaf Spots	mancozeb	Manzate 200 DF 75% DF	1-2 lbs/100 gals	Interval 7-10 days Refer to label
<hr/>					
<u>CAMELLIA</u>					
	Petal Blight	PCNB	Terraclor 75% WP	1.0 lb/150 sq ft	Refer to label
			Turfcide 24% EC	1.5 qts/150 sq ft	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gal	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
			Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 3 days Refer to label
		ziram	Ziram F-4 39.2% F	3-4 pts/100 gals	Interval 7-10 days Refer to label
			Ziram W-76 76% WP	1.5-2 lbs/100 gals	Same as above

SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CAMELLIA (Cont'd)</u>					
		triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
		captan	Captan 50-WP 50% WP	1 lb/100 gals	Interval 7-14 days Refer to label
		thiophanate methyl + mancozeb	Zyban 15% + 60% WP	1.5 lbs/100 gals	Interval 7 days Professional use Refer to label
	Powdery Mildew	benomyl	Benlate 50 DF 50% DF	0.5 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 DF 50% DF	0.5 lb/100 gals	Same as above
	Phytophthora Root/Crown Rot	etr Diazole + thiophanate- methyl	Banrot 40% WP	2.5 fl oz/10 gals	Refer to label
		etr Diazole	Truban 5G 5% G	10 oz/cu yard	Refer to label
			Truban 30% WP	3-10 oz/100 gals	Same as above
		metalaxyl	Subdue 25%	1-4 fl oz/100 gals	Refer to label
<u>COTONEASTER</u>					
	Leaf Spots	mancozeb	Manzate 200 DF 75% DF	1-2 lbs/100 gals	Interval 7-10 days Refer to label
	Botrytis	copper hydroxide	Kocide 101 77% WP	1 lb/100 gals	Interval 7-14 days Refer to label
			Champion 77% WP	1 lb/100 gals	Same as above
			Champion 37.5% F	1.33 pts/100 gals	Same as above
<u>CRAPE MYRTLE</u>					
	Powdery Mildew	thiophanate methyl + mancozeb	Zyban 15% + 60 % WP	1.5 lbs/100 gals	Interval 7 days Professional use Refer to label
		triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CRAPE MYRTLE (Cont'd)</u>					
			Strike 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
		propiconazole	Banner 14.3% EC	16 fl oz/100 gals	Interval 21 days Refer to label
		triforine	Funginex 6.5% EC	0.5 fl oz/1 gal	Interval 7-10 days Refer to label

EUONYMOUS

	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
		triforine	Funginex 6.5% EC	0.5 fl oz/1 gal	Interval 7-14 days Refer to label
	Anthracnose, Leaf Spots	chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
		copper hydroxide	Kocide 101 77% WP	1 lb/100 gals	Interval 7-14 days Refer to label
			Champion 77% WP	1 lb/100 gals	Same as above
			Champion 37.5% F	1.33 pts/100 gals	Same as above

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>GARDENIA</u>					
	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Topsin M 4.5 (Turf and Ornamental) 46.3% F	10 fl oz/100 gals	Same as above
		benomyl	Benlate 50 DF 50% DF	0.5 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 DF 50% DF	0.5 lb/100 gals	Same as above
			Benlate 50 DF 50% DF	1 lb/100 gals	Same as above
<u>HAWTHORNE</u>					
	Cedar Apple Rust, Fabraea, Hawthorne Rust, Scab	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.5 pts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
<u>HOLLY</u>					
	Leaf Spots	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>HOLLY</u> (Cont'd)					
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1-2 lbs/100 gals	Same as above
			Dithane F-45 37% F	1.2 qts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
			Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Same as above
		chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
<hr/>					
<u>HYDRANGEA</u>					
	Botrytis Blight, Cercospora Leaf Spot	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
	Cercospora, Septoria, Rust	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above



## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>LAUREL, CHERRY</u>					
	Cercospora Leaf Spot	chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above
<hr/>					
<u>LAUREL, MOUNTAIN</u>					
	Powdery Mildew, Leaf Spots, Petal Blight	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
	Cercospora	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
		chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above
<hr/>					
<u>LIGUSTRUM</u>					
	Anthrachnose, Leaf Spots	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	1.2 qts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>LILAC</u>	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
		triforine	Funginex 6.5% EC	0.5 fl oz/1 gal	Interval 7-14 days Refer to label

<u>PHOTINIA</u>	Powdery Mildew, Entomosporium Leaf Spot	triforine	Funginex 6.5% EC	0.5 fl oz/1 gal	Interval 7-10 days Refer to label
	Leaf Spots	chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above
	Leaf Spots, Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	8-16 oz/100 gals	Interval 14-21 days Refer to label
			Strike 25% WP	8-16 oz/100 gals	Same as above
	Entomosporium Leaf Spot	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	1.2 qts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

<u>POINSETTIA</u>	Scab, Botrytis	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/100 gals	Interval 2-4 weeks Refer to label
			Tersan 1991 DF 50% DF	0.5-1 lb/100 gals	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>POINSETTIA (Cont'd)</u>					
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	1.2 qts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Botrytis	vinclozolin	Ornalin 50% WP	0.5-1 lb/100 gals	Interval 7-14 days Refer to label
			Chipco 26019 50% WP	1-2 lbs/A	Interval 7-14 days Refer to label
		thiophanate methyl + mancozeb	Zyban 15% + 60% WP	1.5 lbs/100 gals	Interval 7 days Professional use Refer to label
<u>PRIVET</u>					
	Leaf Spots, Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
	Leaf Spots	mancozeb	Manzate 200 DF 75% DF	1-2 lbs/100 gals	Interval 7-14 days Refer to label
		chlorothalonil	Daconil 2787 75% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 40.4% F	2 pts/100 gals	Same as above
<u>PYRACANTHA (firethorn)</u>					
	Scab	thiophanate methyl + mancozeb	Zyban 15% + 60% WP	1.5 lbs/100 gals	Interval 7 days Professional use Refer to label
		chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
		mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PYRACANTHA (Cont'd)</u>					
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
	Fire Blight, Scab	copper hydroxide	Kocide 101 77% WP	1 lb/100 gals	Interval 7-14 days Refer to label
			Champion 37.5% F	1.33 pts/100 gals	Same as above
<u>RHODODENDRON</u>					
	Phytophthora Dieback, Petal Blight	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Cercospora, Discosia Leaf Spot, Petal Blight	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
		benomyl	Benlate 50 DF 50% DF	1 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 DF 50% DF	1 lb/100 gals	Same as above
	Powdery Mildew, Leaf Spots, Petal Blight	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Refer to label

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)	
<u>ROSES</u>	Black Spot, Botrytis	chlorothalonil	Daconil 2787 40.4% F	1.5 pts/100 gals	Interval 7-14 days Refer to label	
			Daconil 2787 75% WP	1 lb/100 gals	Same as above	
	Black Spot, Botrytis, Powdery Mildew	thiophanate methyl + mancozeb	Zyban 15% + 60% WP	1.5 lbs/100 gals	Interval 7 days Professional use Refer to label	
			Powdery Mildew, Black Spot	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/100 gals
	Tersan 1991 DF 50% DF	0.5-1 lb/100 gals			Same as above	
	captan	Captan 50 W 50% WP			2 lbs/100 gals	Interval 7-14 days Refer to label
	copper hydroxide	Kocide 101 77% WP			1 lb/100 gals	Interval 7-14 days Refer to label
	Champion 77% WP	1 lb/100 gals			Same as above	
	Champion 37.5% F	1.33 pts/100 gals			Same as above	
	Powdery Mildew, Black Spot, Rust	ziram	Ziram F-4 39.2% F	2.5 pts/100 gals	Interval 7-14 days Refer to label	
			Ziram W-76 76% WP	1.7 lbs/100 gals	Same as above	
			triforine	Funginex 6.5% EC	0.5 fl oz/1 gal	Interval 7-14 days Refer to label
			propiconazole	Banner 14.3% EC	5-10 fl oz/100 gals	Interval 10-14 days Refer to label
	Black Spot, Rust	sulfur	Several Formulations	---	Interval 7-10 days Refer to label	
			mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label
				Dithane DF 75% DF	1.5 lbs/100 gals	Same as above

## SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)	
<u>ROSES</u> (Cont'd)						
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above	
			Dithane F-45 37% F	1.2 qts/100 gals	Same as above	
			Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Same as above	
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above	
	Black Spot, Cercospora	maneb	Maneb 80 80% WP	1-1.5 lbs/A	Interval 7 days Refer to label	
		maneb + zinc	Maneb Plus Zinc F4 37% F	1.6-2.4 pts/ 100 gals	Interval 7-10 days Refer to label	
			Manex 37% F	1.6-2.4 pts/ 100 gals	Same as above	
	Powdery Mildew	dodemorph acetate	Milban 39% EC	1 qt/100 gals	Interval 10-14 days For commercial greenhouse use Refer to label	
			triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
				Strike 25% WP	2-4 oz/100 gals	Same as above
	Botrytis Blight	DCNA	Botran 75% WP	1.3 lb/100 gals	Refer to label	
<u>VIBURNUM</u>						
	Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label	
			Strike 25% WP	2-4 oz/100 gals	Same as above	
	Downy Mildew, Ramularia Leaf Spot	mancozeb	Fore 80% WP	1.5 lbs/100 gals	Interval 7-14 days Refer to label	
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above	

SHRUBS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>VIBURNUM (Cont'd)</u>					
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Powdery Mildew	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
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<u>WISTERIA</u>					
	Powdery Mildew, Leaf Spot	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Topsin M 4.5 (Turf and Ornamental) 46.2% F	20 fl oz/100 gals	Same as above
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<u>YUCCA</u>					
	Leaf Spot	mancozeb	Manzate 200 DF 75% DF	1-2 lbs/100 gals	Interval 7-10 days Refer to label
	Cercospora, Septoria Leaf Spot	copper hydroxide	Kocide 101 77% WP	2-3 lbs/100 gals	Interval 7-14 days Refer to label
			Champion 77% WP	2-3 lbs/100 gals	Same as above
			Champion 37.5% F	1.3 pts/100 gals	Same as above

TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
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SPECIFIC USE PRODUCTS (Refer to pages 1-7 for general use products that are also approved for use on the crops listed below and other crops in this category.)

ARBOVITA

	Leaf Spot, Powdery Mildew	thiophanate methyl + mancozeb	Zyban 15% + 60% WP	1.5 lbs/100 gals	Interval 7 days Professional use Refer to label
	Cercospora Blight	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

ASH

	Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Anthracnose, Cylindrosporium Leaf Spot	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

BOXELDER

	Leaf Spots	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 50 DF 50% DF	0.5-1 lb/100 gals	Same as above



## TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>BOXELDER (Cont'd)</u>					
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above
<u>CATALPA</u>					
	Leaf Spots	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Tersan 1991 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 10-14 days Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above
<u>CEDAR, RED</u>					
	Cercospora Blight, Phomopsis	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CONIFERS</u>					
	Brown Spot, Scleroderris Canker, Phoma Twig Blight, Sorococcus Tip Blight, Scirrhia Brown Spot	chlorothalonil	Daconil 2787 40.4% F	2-8 pts/A	Interval 21-28 days Refer to label
			Daconil 2787 75% WP	1.5-5.5 lbs/A	Same as above
			Bravo W-75 75% WP	1.5-5.5 lbs/100 gals	Same as above
			Bravo 90 DG 90% DG	1.12-4.5 lbs/ 100 gals	Same as above
			Bravo 720 54% F	2.75-5.5 pts/ 100 gals	Same as above
	Lophodermium Needle Cast, Brown Spot	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% WP	1-2 lbs/100 gals	Same as above
	Fusiform Rust	triadimefon	Bayleton 25% WP	.25-.5 lb/100 gals	Interval 14 days Refer to label
			Bayleton 50% DF	0.25-1 lb/A	Interval 14-21 days Refer to label
			Strike 50% DF	0.25-1 lb/A	Same as above
		ziram	Ziram F-4 39.2% F	4 pts/100 gals	Interval 3-5 days Refer to label
	Ziram W-76 76% WP		2 lbs/100 gals	Same as above	
	Pine Gall Rust	xyleneol + meta-cresol	Gallex 0.46 + 0.47% F	----	Refer to label

## TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CONIFERS (Cont'd)</u>					
	Rhizoctonia Needle Blight	PCNB	Terraclor 75% WP	50 lbs/100 gals/ A	Refer to label (Nursery use) Soil treatment
<u>CRABAPPLE</u>					
	Scab, Cedar- Apple Rust, Sphaeropsis Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
			mancozeb	Dithane F-45 37% F	2.4 pts/100 gals
		Dithane M-45 80% WP		1.5 lbs/100 gals	Same as above
		Dithane DF 75% DF		1.5 lbs/100 gals	Same as above
		Fore 80% WP		1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
		Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label	
	Powdery Mildew, Rust	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
	Powdery Mildew, Scab, Rust	propiconazole	Banner 14.3% EC	2-8 fl oz/100 gals	Interval 7-14 days Refer to label
		benomyl	Benlate 50 DF 50% DF	1 lb/100 gals	Interval 7-14 days Refer to label
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
			Tersan 1991 DF 50% DF	1 lb/100 gals	Same as above

TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CRABAPPLE</u> (Cont'd)		thiophanate-methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 7-14 days Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above Refer to label

CYPRESS

Cercospora, Monochaetia Canker	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
		Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
		Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
		Fore 80% WP	1.5 lbs/100 gals	Same as above
		Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

DOGWOOD

Septoria Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-10 days Refer to label	
		Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above	
Anthracnose	maneb + zinc	Maneb Plus Zinc F4 37% F	1.6-2.4 pts/100 gals	Refer to label	
		Manex 37% F	1.6-2.4 pts/100 gals	Same as above	
Anthracnose, Elsinoe Leaf Spot, Septoria Leaf Spot	mancozeb	Penncozeb (Turf and Ornamental) 80% WP	1.5 lbs/100 gals	Interval 7-10 days Refer to label	
		benomyl	Benlate 50 DF 50% DF	1 lb/100 gals	Interval 7-14 days Refer to label
			Tersan 1991 DF 50% DF	1 lb/100 gals	Same as above

## TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>DOGWOOD (Cont'd)</u>					
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 7-14 days Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above Refer to label
			Dithane F-45 37% F	2.4 pts/100 gals	Same as above
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Powdery Mildew	triadimefon	Bayleton 25% DF	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% DF	2-4 oz/100 gals	Same as above

ELM

	Black Leaf Spot	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>ELM</u> (Cont'd)	Powdery Mildew	triadimefon	Bayleton 25% DF	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% DF	2-4 oz/100 gals	Same as above
	Dutch Elm Disease	thiabendazole	Arbotect 20-S 26.6% EC	----	Refer to label

FLOWERING PEAR

Leaf Spot, Powdery Mildew	benomyl	Benlate 50 DF 50% DF	1 lb/100 gals	Interval 7-14 days Refer to label
		Tersan 1991 DF 50% DF	1 lb/100 gals	Same as above
		Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
	thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 7-14 days Refer to label
		Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above Refer to label
	triadimefon	Bayleton 25% WP	8-16 oz/100 gals	Interval 14-21 days Refer to label
		Strike 25% WP	8-16 oz/100 gals	Same as above

JUNIPER

Phomopsis Blight	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
		Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
		Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
		Fore 80% WP	1.5 lbs/100 gals	Same as above
		Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above

## TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>MAGNOLIA</u>					
	Gloeosporium Leaf Spot	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Magnolia Leaf Spot	PCNB	Terraclor 75% WP	2 lbs/100 gals	Refer to label
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<u>MAPLE</u>					
	Alternaria Leaf Spot, Phyllosticta Leaf Spot	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
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<u>MULBERRY</u>					
	Cercospora Leaf Spot	benomyl	Benlate 50 DF 50% DF	1 lb/100 gals	Interval 7-14 days Refer to label
			Tersan 1991 DF 50% DF	1 lb/100 gals	Same as above
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above

TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>MULBERRY (Cont'd)</u>					
		thiophanate-methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 7-14 days Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above Refer to label
	Bacterial Leaf Spot	copper bordeaux	several formulations	----	Refer to label
<u>OAKS</u>					
	Leaf Blister, Actinopelte, Anthracnose	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Ball Moss	copper hydroxide	Kocide 101 77% WP	6 lbs/100 gals	Refer to label
			Champion 77% WP	6 lbs/100 gals	Same as above
			Champion 37.5% F	8 pts/100 gals	Same as above
			Kocide 606 37.5% F	8 pts/100 gals	Same as above
	Actinopelte Leaf Spot, Taphrina Leaf Spot	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label



## TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>OAKS (Cont'd)</u>					
			Strike 25% WP	2-4 oz/100 gals	Same as above
	Oak Wilt	propiconazole	Alamo 14.3% EC	2-3 ml/Diameter inch trunk	Refer to label
<u>POPLAR</u>					
	Marssonina Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-10 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
	Rust	triforine	Funginex 6.5% EC	1 Tbsp/1 gal	Interval 7-10 days Refer to label
<u>REDBUD</u>					
		benomyl	Benlate 50 DF 50% DF	1 lb/100 gals	Interval 7-14 days Refer to label
			Tersan 1991 DF 50% DF	1 lb/100 gals	Same as above
			Benomyl 50 DF 50% DF	0.5-1 lb/100 gals	Same as above
		thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.5-1 lb/100 gals	Interval 7-14 days Refer to label
			Topsin M 4.5 F (Turf and Ornamental) 46.2% F	10-20 fl oz/100 gals	Same as above
<u>SYCAMORE</u>					
	Anthracnose	chlorothalonil	Daconil 2787 40.4% F	2 pts/100 gals	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	1.5 lbs/100 gals	Same as above
		copper hydroxide	Kocide 101 77% WP	2-3 lbs/100 gals	Interval 14 days Refer to label
			Kocide 606 37.5% F	2.66-4 pts/100 gals	Same as above

TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SYCAMORE (Cont'd)</u>					
			Champion 77% WP	2-3 lbs/100 gals	Same as above
			Champion 37.5% F	2.66-4 pts/100 gals	Same as above
	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above

WALNUT

	Anthracnose	mancozeb	Dithane F-45 37% F	2.4 pts/100 gals	Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5 lbs/100 gals	Same as above
			Fore 80% WP	1.5 lbs/100 gals	Same as above
			Dithane DF 75% DF	1.5 lbs/100 gals	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/100 gals	Same as above
	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
			Strike 25% WP	2-4 oz/100 gals	Same as above
	Bacterial Blight	copper sulfate	Basicop 54% WP	4-5 lbs/100 gals	Refer to label
		copper hydroxide	Kocide 101 77% WP	8-12.5 lbs/A	Interval 7-10 days Refer to label
			Kocide 606 37.5% F	2.66 pts/100 gals	Same as above
			Champion 77% WP	2 lbs/100 gals	Same as above
			Champion 37.5% F	2.66 pts/100 gals	Same as above

## TREES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>WILLOW</u>	Powdery Mildew	triadimefon	Bayleton 25% WP	2-4 oz/100 gals	Interval 7-14 days Refer to label
	Leaf Spot	mancozeb	Manzate 200 DF 75% DF	1-2 lbs/100 gals	Interval 7-10 days Refer to label

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## TURF

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SPECIFIC USE PRODUCTS</u>					
	Brown Patch, Dollar Spot	benomyl	Tersan 1991 DF 50% DF	2 oz/1000 sq ft (Brown Patch)	Interval 10-14 days Refer to label
	Brown Patch, Helminthosporium Leaf Spot, Melting Out, Gray Leaf Spot, Dollar Spot, Curvularia Leaf Spot	chlorothalonil	Daconil 2787 40.4% F	3-11 fl oz/ 1000 sq ft	Interval 7-14 days Refer to label
			Daconil 2787 75% WP	2-8 oz/1000 sq ft	Same as above
	Brown Patch, Helminthosporium Leaf Spot	PCNB	Turfcide 10% G	2-7.5 lbs/ 1000 sq ft	Interval 21-28 days Refer to label
			Turfcide 24% EC	1 qt/1000 sq ft	Same as above
	Brown Patch		Terraclor 75% WP	1 lb/1000 sq ft	Same as above
	Helminthosporium Leaf Spot, Rust, Fusarium Blight, Slime Mold, Dollar Spot, Brown Patch, Pythium Blight, Algae	mancozeb	Dithane F-45 37% F	6.4-12.8 fl oz/ 1000 sq ft	Interval 7-14 days Refer to label
			Dithane M-45 80% WP	4-8 oz/1000 sq ft	Same as above
			Dithane DF 75% DF	4-8 oz/1000 sq ft	Same as above
			Fore 80% WP	4-8 oz/1000 sq ft	Same as above
			Penncozeb (Turf and Ornamental) 80% WP	4-8 oz/1000 sq ft	Same as above
			Manex II 37% F	5-14 oz/1000 sq ft	Same as above
			Manzate 200 DF 75% DF	3-4 oz/1000 sq ft	Same as above

## TURF

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SPECIFIC USE PRODUCTS (Cont'd)</u>					
	Brown Patch, Rust, Melting Out, Dollar Spot	maneb + zinc	Maneb Plus Zinc F4 37% F	4.8-12.8 fl oz/ 1000 sq ft	Refer to label
	Brown Patch, Helminthosporium Leaf Spot, Melting Out, Dollar Spot, Fusarium Blight	iprodione	Chipco 26019 50% WP	1-4 oz/1000 sq ft	Interval 14-28 days Refer to label
	Dollar Spot, Helminthosporium Leaf Spot	vinclozolin	Vorlan 50% WP	1-2 oz/1000 sq ft	Interval 14-28 days Refer to label
			Vorlan Flo 41.3% F	1-2 fl oz/1000 sq ft	Same as above
	Brown Patch, Dollar Spot, Powdery Mildew, Rust, Anthracnose, Summer Patch, Helminthosporium Leaf Spot	propiconazole	Banner 14.3% EC	1-4 fl oz/1000 sq ft	Interval 10-21 days Refer to label
	Brown Patch, Dollar Spot, Rusts	triadimefon	Bayleton 25% WP	1-2 oz/1000 sq ft	Interval 15-30 days Refer to label
	Pythium Blight, Brown Patch	chloroneb	Terraneb SP 65% WP	4-5 oz/1000 sq ft	Interval 5-7 days Refer to label
	Pythium Blight	propamocarb hydrochloride	Banol 66.5% EC	1.3-4 fl oz/ 1000 sq ft	Interval 7-21 days Refer to label
		etridiazole	Terrazole 35% WP	4-8 oz/1000 sq ft	Interval 5-10 days Refer to label
			Koban 30 30% WP	2-4.5 oz/1000 sq ft	Same as above
			Koban 1.3 1.3G	3 lb/1000 sq ft	Same as above
	Pythium Blight, Downy Mildew	metalaxyl	Subdue 25.1% EC	1-2 fl oz/1000 sq ft	Interval 10-21 days Refer to label
			Subdue 2% G	12.5-25 oz/1000 sq ft	Same as above

## TURF

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SPECIFIC USE PRODUCTS (Cont'd)</u>					
	Leaf Spot, Dollar Spot, Brown Patch, Rusts	anilazine	Dyrene 4 38% F	2-8 fl oz/1000 sq ft	Interval 10-14 days Refer to label
	Dollar Spot, Brown Patch	thiophanate- methyl	Topsin M (Turf and Ornamental) 70% WP	0.75-1.5 oz/ 1000 sq ft	Interval 5-14 days Refer to label
			Topsin M 4.5F 46.2% F	1-2 fl oz/1000 sq ft	Same as above
			Fungo Flo 46.2% F	1-2 fl oz/1000 sq ft	Interval 10-14 days Refer to label
			Fungo 50 50% WP	2 oz/1000 sq ft	Same as above
		thiram	Thiramad 75% WP	2.5 oz/1000 sq ft	Interval 7 days Refer to label
		thiophanate methyl + mancozeb	Duosan 15% + 60% WP	3 oz/1000 sq ft	Interval 10-14 days Refer to label

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>ASPARAGUS</u>					
	Crown Rot	mancozeb	Manzate 200 DF 75% WP	1 lb/100 gals	Dip crowns
			Dithane F-45 37% F	1.6 pts/100 gals	Same as above
			Manex II 37% F	1.6 pts/100 gals	Same as above
			Dithane M-45 80% WP	1 lb/100 gals	Same as above
			Dithane DF 75% DF	1 lb/100 gals	Same as above
	Cercospora Leaf Spot, Rust	mancozeb	Manzate 200 DF 75% DF	2 lbs/A	Interval 10 days Refer to label
			Penncozeb 80% WP	2 lbs/A	Same as above
			Penncozeb DF 75% DF	2 lbs/A	Same as above
			Dithane M-45 80% WP	2 lbs/A	Same as above
			Dithane F-45 37% F	3.2 pts/A	Same as above
			Dithane DF 75% DF	2 lbs/A	Same as above
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<u>BEANS</u> (pole, snap, lima)					
	Botrytis Blight Anthracnose, Downy Mildew, Rust	chlorothalonil	Bravo 720 54% F	1.27-3 pts/A	7-42*, Interval 7 days Refer to label
			Bravo 90 DG 90% DG	1.12-2.25 lbs/A	Same as above
	Rust, Botrytis Blight, Powdery Mildew	chlorothalonil + sulfur	Bravo S 19.2% + 27.25% F	4-8 pts/A	7*, Interval 7 days Refer to label
	Halo Blight, Bacterial Blight	copper hydroxide	Kocide 101 77% WP	1-3 lbs/A	0*, Interval 7-14 days Refer to label

\* Interval between last application and harvest in days

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
BEANS (Cont'd)			Kocide 606 37.5% F	1.33-4 pts/A	Same as above
			Champion 77% WP	1-3 lbs/A	Same as above
			Champion 37.5% F	1.33-4 pts/A	Same as above
	Bacterial Blights, Rust	copper hydroxide + sulfur	Kocide 404S 27% + 15.5% F	2-6 pts/A	0*, Interval 7-14 days Refer to label
	Downy and Powdery Mildew, Rust, Halo Blight	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	0*, Refer to label
	Anthrachnose, Downy and Powdery Mildew, Leaf Spot, Bacterial Blights	copper sulfate	Basicop 53% WP	2 lbs/A	0*, Interval 7-10 days Refer to label
	Powdery Mildew, Leaf Spot	sulfur	Several Formulations	---	0*, Refer to label
	White Mold, Gray Mold	benomyl	Benlate 50 DF 50% DF	1.5-2 lbs/A	14*, Snap beans 28*, Lima beans Refer to label
		thiophanate- methyl	Topsin M 70% WP	1.5-2 lbs/A	14*, Interval 4-7 days Refer to label
			Topsin M 85WDG 85% WDG	1.2-1.6 lbs/A	Same as above
		Topsin M 4.5F 46.2% F	30-40 fl oz/A	Same as above	
White Mold	DCNA	Botran 75W 75% WP	3-4 lbs/A	2*, Interval 7 days Refer to label	
	iprodione	Rovral 50% WP	1.5-2 lbs/A	Refer to label	
Anthrachnose	ziram	Ziram 76 WDG 76% WDG	2-3 lbs/A	4*, Interval 7 days Refer to label	



VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>BEANS (Cont'd)</u>					
	Pythium	metalaxyl	Ridomil 2E 25.1% EC	2-4 pts/A	Refer to label
	Pythium, Damping Off	metalaxyl + PCNB	Ridomil PC 11G 1% + 10% G	0.75 lb/1000 ft	14*, Refer to label
	Rhizoctonia, Damping Off, White Mold	PCNB	Terraclor 75% WP	1.3-2.75 lbs/A	14*, Refer to label
			Terraclor 23.8% EC	0.5-1 gal/A	Same as above
			Terraclor 10% G	10-15 lbs/A	0*, Refer to label
<u>BEETS</u>					
	Downy Mildew	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	2 pts/A	0*, Interval 7-14 days Refer to label
		copper sulfate	Basicop 53% WP	3 lbs/100 gals	0*, Interval 7-10 days Refer to label
<u>BROCCOLI, BRUSSELS SPROUTS, CABBAGE (See Cole Crops)</u>					
<u>CANTALOUPE (See Cucurbit Crops)</u>					
<u>CARROTS</u>					
	Cercospora, Alternaria Leaf Spot	chlorothalonil	Bravo 720 54% F	1.5-2 pts/A	0*, Interval 7-10 days Refer to label
			Bravo 90 DG 90% DG	1.25-1.5 lbs/A	Same as above
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	2 qts/A	0*, Interval 7-10 days Refer to label
		copper sulfate	Basicop 53% WP	3-4 lbs/A	Refer to label
		iprodione	Rovral 50% WP	1-2 lbs/A	0*, Interval 7-14 days Refer to label
	Cercospora	copper hydroxide	Kocide 101 77% WP	2 lbs/A	0*, Interval 7-14 days Refer to label
			Kocide 606 37.5% F	2.66 pts/A	Same as above
			Champion 37.5% F	2.66 pts/A	Same as above

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CARROTS</u> (Cont'd)					
			Champion 77% WP	2 lbs/A	Same as above
	Powdery Mildew	sulfur	Several Formulations	---	0*, 14 day interval Refer to label
	Sclerotinia	DCNA	Botran 75W 75% WP	1 lb/100 gals	Refer to label. Post harvest
	Sclerotinia Gray Mold	thiabendazole	Mertect 340-F 42.3% F	42 fl oz/100 gals	Refer to label

CAULIFLOWER (See Cole Crops)

<u>CELERY</u>					
	Early and Late Blight, Rhizoctonia Crater Rot	anilazine	Dyrene 50% WP	2-6 lbs/A	0*, Interval 4-10 days Refer to label
		chlorothalonil	Bravo 720 54% F	1-3 pts/A	7*, Interval 3-7 days Refer to label
			Bravo 90 DG 90% DG	1-2.5 lbs/A	Same as above
	Early and Late Blight	benomyl	Benlate 50 DF 50% DF	0.25-.5 lb/A	7*, Interval 7-10 days Refer to label
		thiophanate- methyl	Topsin M 70% WP	0.5 lb/A	7*, Interval 7-14 days Refer to label
			Topsin M 85WDG 85% WDG	0.4 lb/A	Same as above
			Topsin M 4.5F 46.2% F	10 fl oz/A	Same as above
	Early and Late Blight, Bacterial Blight	copper hydroxide	Kocide 101 77% WP	2 lbs/A	0*, Interval 5-7 days Refer to label
			Champion 77% WP	2 lbs/A	Same as above
			Champion 37.5% F	2.66 pts/A	Same as above

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CELERY</u> (Cont'd)					
	Early and Late Blight, Leaf Spot	copper sulfate	Basicop 53% WP	3-4 lbs/A	0*, Interval 5-14 days Refer to label
	Pink Rot	DCNA	Botran 75W 75% WP	2-5.3 lbs/100	Refer to label gals
<u>COLE CROPS</u> (broccoli, brussels sprouts, cabbage, Chinese cabbage, cauliflower, kohlrabi, collards, kale)					
	Downy Mildew, Alternaria Leaf Spot	chlorothalonil	Bravo 720 54% F	1.5 pts/A	0*, Interval 7-10 days Refer to label
			Bravo 90 DG 90% DG	1.25 lbs/A	Same as above
		metalaxyl + chlorothalonil	Ridomil Bravo 81W 9% + 72% WP	1.5-2 lbs/A	7*, 14 day interval Refer to label
		chlorothalonil + sulfur	Bravo S 19.2% + 27.25% F	4.5 pts/A	0*, Interval 7-10 days Refer to label
	Downy Mildew, Black Rot, Alternaria	copper hydroxide	Kocide 101 77% WP	0.5-2 lbs/A	0*, Interval 7-10 days, Refer to label
			Kocide 606 37.5% F	0.66-2.66 pts/A	Same as above
			Champion 77% WP	0.5-2 lbs/A	Same as above
			Champion 37.5% F	0.66-2.66 pts/A	Same as above
	Downy Mildew, Leaf Spot	copper sulfate	Basicop 53% WP	1-3 lbs/A	0*, Interval 7-10 days Refer to label
	Downy Mildew	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	0*, Interval 7-10 days Refer to label
	Powdery Mildew	sulfur	Several Formulations	----	0*, 14 day interval Refer to label
	Wire Stem	PCNB	Terraclor 75% WP	15-20 lbs/A	Refer to label
	Pythium, Phytophthora	metalaxyl	Ridomil 2E 25.1% E	4-8 pts/A	Refer to label
	Club Root	PCNB	Terraclor 75% WP	2-6 lbs/A	Refer to label

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>COLE CROPS (Cont'd)</u>					
	Black Leg	iprodione	Rovral 50% WP	2 lbs/A	Refer to label
			Rovral 4F 41.6% F	2 pts/A	Same as above
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<u>COLLARDS (See Cole Crops)</u>					
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<u>CORN (sweet, pop)</u>					
	Helminthosporium Leaf Blight, Rust	chlorothalonil	Bravo 720 54% F	0.75-2 pts/A	14*, Interval 4-7 days Refer to label
			Bravo 90 DG 90% DG	0.63-1.5 lbs/A	Same as above
		maneb	Maneb 80 80% WP	1.5 lbs/A	0*, Interval 4-7 days Refer to label
		maneb + zinc	Maneb Plus Zinc 4F 37% F	2.5 pts/A	0*, Interval 7-10 days Refer to label
			Manex 37% F	2.4 pts/A	Same as above
		mancozeb	Penncozeb 80% WP	1.5 lbs/A	7*, Interval 4-7 days Refer to label
			Manex II 37% F	2.6 pts/A	Same as above
			Manzate 200 DF 75% WP	1.5 lbs/A	Same as above
			Dithane F-45 37% F	2.4 pts/A	Same as above
			Dithane DF 75% DF	1.5 lbs/A	Same as above
			Dithane M-45 80% WP	1.5 lbs/A	Same as above
			Penncozeb DF 75% DF	1.5 lbs/A	Same as above

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CUCURBIT CROPS</u> (cantaloupe, cucumber, honey dew, pumpkin, squash, watermelon)					
	Anthracnose, Downy Mildew, Gummy Stem Blight, Alternaria	chlorothalonil	Bravo 720 54% F	1.5-3 pts/A	0*, Interval 7 days, Refer to label
			Bravo 90 DG 90% DG	1.25-2 lbs/A	Same as above
	Gummy Stem Blight, Anthracnose, Powdery Mildew	benomyl	Benlate 50 DF 50% DF	0.25-0.5 lb/A	0*, Interval 7-14 days Refer to label
		thiophanate- methyl	Topsin M 70% WP	0.25-0.5 lbs/A	Same as above
			Topsin M 85WDG 85% WDG	0.2-0.4 lbs/A	Same as above
	Powdery Mildew	triadimefon	Bayleton 50% WP	2-4 oz/A	0*, Interval 14 days Refer to label
			Bayleton 50% DF	2-4 oz/A	Same as above
	Downy Mildew, Anthracnose, Cercospora, Gummy Stem Blight	metalaxyl + chlorothalonil	Ridomil Bravo 81W 9% + 72% WP	1.5-2 lbs/A	0*, Interval 14 days Refer to label
	Angular Leaf Spot, Anthracnose, Downy Mildew	copper sulfate	Basicop 53% WP	2 lbs/A	0*, Interval 7-10 days Refer to label
		copper hydroxide	Kocide 101 77% WP	1.5-2 lbs/A	0*, Interval 7 days Refer to label
			Kocide 606 37.5% F	2.66 pts/A	Same as above
			Champion 77% WP	1.5-2 lbs/A	Same as above
			Champion 37.5% F	2-2.66 pts/A	Same as above
		ziram	Ziram 76 WDG 76% WDG	2-3 lbs/A	0*, Interval 7-10 days Refer to label
	Downy and Powdery Mildew	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	1-2 pts/100 gals	0*, Interval 7-10 days Refer to label

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)	
<u>CUCURBIT CROPS (Cont'd)</u>						
	White Mold	DCNA	Botran 75W 75% WP	1.3 lbs/100 gals	Refer to label	
	Pythium Damping Off	metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/treated acre	Refer to label	
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<u>EGGPLANT</u>						
	Phomopsis Fruit Rot, Anthracnose, Alternaria	copper hydroxide	Kocide 101 77% WP	2 lbs/A	0*, Interval 7-10 days Refer to label	
			Kocide 606 37.5% F	2.66 pts/A	Same as above	
			Champion 77% WP	2 lbs/A	Same as above	
			Champion 37.5% F	2.66 pts/A	Same as above	
	Pythium, Damping Off, Phytophthora Crown Rot	copper sulfate	Basicop 53% WP	3-4 lbs/A	0*, Interval 7-10 days Refer to label	
			tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	0*, Interval 7-10 days Refer to label
			metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/A	7*, Refer to label
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<u>GARLIC (See Onions)</u>						
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<u>HONEY DEW MELONS (See Cucurbit Crops)</u>						
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<u>KALE (See Cole Crops)</u>						
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<u>LETTUCE AND ENDIVE</u>						
	Anthracnose, Cercospora Leaf Spot, Downy Mildew	copper sulfate	Basicop 53% WP	2-3 lbs/100 gals	0*, Interval 7-10 days Refer to label	
	Downy Mildew	copper hydroxide	Champion 77% WP	1.5-2 lbs/100 gals	0*, Interval 7-10 days Refer to label	
			Champion 37.5% F	1.33-2.66 pts/A	Same as above	

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>LETTUCE AND ENDIVE (Cont'd)</u>					
	Botrytis Gray Mold, Lettuce Drop, Soft Rot, Leaf Spots	DCNA	Botran 75W 75% WP	2-3.33 lbs/100 gals	14*, Refer to label
	Pythium Root Rot	metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/A	Refer to label
			Ridomil 5G 5% G	20-40 lbs/A	Same as above
	Lettuce Drop, Bottom Rot	iprodione	Rovral 50% WP	1.5-2 lbs/A	Refer to label
			Rovral 4F 41.6% F	1.5-2 pts/A	Same as above
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<u>MUSTARD</u>					
	Downy Mildew	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	0*, Interval 10-14 days Refer to label
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<u>ONIONS (garlic, shallots)</u>					
	Purple Blotch	anilazine	Dyrene 50% WP	2-3 lbs/A	0*, Interval 7-10 days Refer to label
	Botrytis, Purple Blotch, Downy Mildew	chlorothalonil	Bravo 720 54% F	1.5-3 pts/A	7*, Dry onion, 14*, all others Interval 7-10 days Refer to label
			Bravo 90 DG 90% DG	1-2.25 lbs/A	Same as above
	Botrytis, Purple Blotch	iprodione	Rovral 50% WP	1.5 lbs/A	7*, Interval 7-14 days Refer to label
			Rovral 4F 41.6% F	1.5 pts/A	Same as above
	Purple Blotch, Downy Mildew	mancozeb	Manzate 200 DF 75% DF	3 lbs/A	7*, Interval 7 days Refer to label
			Penncozeb 80% WP	2-3 lbs/A	Same as above
			Penncozeb DF 75% DF	2-3 lbs/A	Same as above

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>ONIONS (Cont'd)</u>					
			Manex II 37% F	3.4-5 pts/A	Same as above
			Dithane M-45 80% WP	3 lbs/A	Same as above
			Dithane F-45 37% F	4.8 pts/A	Same as above
			Dithane DF 75% DF	3 lbs/A	Same as above
	Downy Mildew, Purple Blotch, Botrytis	metalaxyl + chlorothalonil	Ridomil Bravo 81W 9% + 72% WP	1.5-2 lbs/A	7*, Dry onions 21*, Green onions Interval 14 days Refer to label
	Downy Mildew	metalaxyl + mancozeb	Ridomil MZ 58 10% + 48% WP	1.5-2 lbs/A	7*, Interval 14 days Refer to label
	Purple Blotch, Downy Mildew	copper hydroxide	Kocide 101 77% WP	2 lbs/A	0*, Interval 7-10 days Refer to label
			Kocide 606 37% F	2.66 pts/A	Same as above
			Champion 77% WP	2 lbs/A	Same as above
			Champion 37.5% F	2.66 pts/A	Same as above
	Pythium Root Rot	metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/A	Refer to label
	White Rot	iprodione	Rovral 50% WP	4 lbs/A	Refer to label
			Rovral 4F 41.6% F	4 pts/A	Same as above
		DCNA	Botran 75W 75% WP	32-40 lbs/A	Refer to label
		thiophanate- methyl	Topsin M 70% WP	0.5-0.67 lb/ 1000 ft row	Refer to label
			Topsin M 85WDG 85% WDG	0.27-0.4 lb/ 1000 ft row	Refer to label



VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>ONIONS</u> (Cont'd)					
		PCNB	Terraclor 23.8% EC	10 gals/A	Refer to label
			Terraclor 75% WP	27.5 lbs/A	Same as above
-----					
<u>PEAS</u> (southern, blackeyed, cream, cowpeas)					
	Powdery Mildew	copper hydroxide	Kocide 101 77% WP	1.5-3 lbs/A	0*, Interval 7 days Refer to label
			Kocide 606 37.5% F	2-4 pts/A	Same as above
			Champion 77% WP	1.5-3 lbs/A	Same as above
			Champion 37.5% F	2-4 pts/A	Same as above
		copper hydroxide + sulfur	Kocide 404S 27% + 15.5% F	3-6 pts/A	Same as above
		sulfur	Several Formulations	---	0*, Interval 3 weeks Refer to label
	Rust, Anthracnose, Downy Mildew, Cercospora	chlorothalonil	Bravo 720 54% F	1.37-2 pts/A	42*, Interval 7-10 days. Refer to label
			Bravo 90 DG 90% DG	1.12-1.75 lbs/A	Same as above
	Pythium Root Rot	metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/A	Refer to label
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<u>PEAS</u> (English, sugar peas)					
	Pythium Root Rot	metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/A	Refer to label
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<u>PEPPER</u> (sweet, hot)					
	Anthracnose, Bacterial Leaf Spot, Cercospora Leaf Spot	copper sulfate	Basicop 53% WP	2-4 lbs/A	0*, Interval 7-10 days Refer to label
	Bacterial Leaf Spot	copper hydroxide	Champion 77% WP	2-3 lbs/A	0*, Interval 7-10 days Refer to label
			Champion 37.5% F	2.66-4 pts/A	Same as above

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PEPPER (Cont'd)</u>					
			Kocide 606 37.5% F	2.66-4 pts/A	Same as above
			Kocide 101 77% WP	2-3 lbs/A	Same as above
		copper hydroxide + sulfur	Kocide 404S 27% + 15.5% F	4-6 pts/A	0*, Interval 7-14 days Refer to label
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	0*, Interval 7-14 days Refer to label
		streptomycin sulfate	Agri-Strep 21.2% WP	200 ppm (1 lb/100 gals)	Interval 4-5 days Transplants only Refer to label
	Pythium Damping Off, Phytophthora Crown Rot	metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/A	Refer to label
	Southern Blight	PCNB	Terraclor 75% WP	3-5 lbs/A	Refer to label

POTATO, IRISH

Botrytis Vine Rot, Early and Late Blight		chlorothalonil	Bravo 720 54% F	0.75-1.5 pts/A	0*, Interval 7-10 days Refer to label	
			Bravo 90 DG 90% DG	0.63-1.25 lbs/A	Same as above	
Early and Late Blight		anilazine	Dyrene 50% WP	2-5 lbs/A	0*, Interval 7-10 days Refer to label	
			chlorothalonil + sulfur	Bravo S 19% + 27% F	3-4.25 pts/A	0*, Interval 7-10 days Refer to label
			copper hydroxide	Kocide 101 77% WP	1-1.5 lbs/A	0*, Interval 7-10 days Refer to label
				Kocide 606 37.5% F	1.33-5.33 pts/A	Same as above
				Champion 77% WP	1-1.5 lbs/A	Same as above
		Champion 37.5% F	1.33-5.33 pts/A	Same as above		

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
POTATO, IRISH (Cont'd)		copper sulfate	Basicop 53% WP	3-6 lbs/A	0*, Interval 7-10 days Refer to label
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4-6 pts/A	0*, Interval 7-10 days Refer to label
		maneb	Maneb 80 80% WP	1.5-2 lbs/A	0*, Interval 5-10 days Refer to label
		maneb + zinc	Maneb Plus Zinc F4 37% F	2.5-3.25 pts/A	0*, Interval 5-10 days Refer to label
			Manex 37% F	1.6-3.2 pts/100 gals	Same as above
		mancozeb	Dithane M-45 80% WP	1-2 lbs/A	0*, Interval 7-10 days Refer to label
			Dithane DF 75% DF	1-2 lbs/A	Same as above
			Dithane F-45 37% F	1.6-3.2 pts/A	Same as above
			Manex II 37% F	1.6-3.4 pts/A	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/A	Same as above
			Penncozeb 80% WP	1-2 lbs/A	Same as above
			Penncozeb DF 75% DF	1-2 lbs/A	Same as above
		triphenyltin hydroxide	Du-Ter 30 F 19.7% F	8.5-17 fl oz/A	7*, Interval 7 days Refer to label
			Super Tin 4L 40% F	4-8 fl oz/A	Same as above
		maneb + triphenyltin hydroxide	Pro-Tex 32.6% + 4.7% F	1.5-3.2 pts/A	7*, Interval 7 days Refer to label

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>POTATO, IRISH</u> (Cont'd)	Late Blight, Tuber Rot, Pythium Leak, Pink Rot	metalaxyl + mancozeb	Ridomil MZ 58 10% + 48% WP	1.5-2 lbs/A	7*, Interval 7-14 days Refer to label
	Late and Early Blight, Botrytis, Storage Rots	metalaxyl + chlorothalonil	Ridomil Bravo 81 W 9% + 72% WP	1.5-2 lbs/A	7*, Interval 7-14 days Refer to label
	White Mold	iprodione	Rovral 50% WP	2 lbs/A	Refer to label
			Rovral 4F 41.6% F	2 pts/A	Same as above
	<u>Rhizoctonia solani</u> (Stem Rot)	PCNB	Terraclor 23.8% EC	5 gals/A (42 inch row)	Refer to label
			Terraclor 75% WP	13.5 lbs/A (42 inch row)	Same as above
			Terraclor 10% G	100 lbs/A (36 inch row)	Same as above

Seed Piece Treatments

Seed Rot, Damp-off, Fusarium Seed Piece Decay	maneb	Maneb 80 80% WP	1.25 lbs/10 gals	Refer to label
	maneb + zinc	Manex 37% F	2 pts/10 gals	Refer to label
		Maneb Plus Zinc F4 37% F	2 pts/10 gals	Same as above
	mancozeb	Penncozeb 80% WP	1.25 lbs/50 gals	Refer to label
		Penncozeb DF 75% DF	1.25 lbs/50 gals	Same as above
		Dithane M-45 80% WP	1.25 lbs/50 gals	Same as above
		Dithane F-45 37% F	2 pts/50 gals	Same as above

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>Seed Piece Treatments (Cont'd)</u>					
			Dithane DF 75% DF	1.3 lbs/50 gals	Same as above
			Manzate 200 DF 75% DF	1.25 lbs/50 gals	Same as above
			Manex II 37% F	2.1 pts/50 gals	Same as above
	Fusarium, Rhizoctonia	thiophanate- methyl	Tops - 2.5D 2.5% D	1 lb/100 lbs seed	Refer to label
<u>SWEET POTATO</u>					
	Soil Rot (Pox)	dichloropropene + chloropicrin	Telone C-17 77.9% + 16.5% Liq.	10.5 gal/A	Refer to label
	Scurf, Black Rot, Foot Rot	thiabendazole	Mertect 340-F 42.3% F	107 fl oz/100 gals	Seed Root Treatment Refer to label
	Sclerotial Blight, Scurf Rhizopus Rot	DCNA	Botran 75W 75% WP	---	Refer to label
<u>PUMPKIN (See Cucurbit Crops)</u>					
<u>SHALLOTS (See Onions)</u>					
<u>SPINACH</u>					
	White Rust, Downy Mildew, Anthracnose, Cercospora	copper sulfate	Basicop 53% WP	2-4 lbs/A	0*, Interval 7-10 days Refer to label
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	0*, Interval 7-10 days Refer to label
	Pythium Damping Off, White Rust	metalaxyl	Ridomil 2E 25.1% EC	4-8 pts/A	Refer to label
<u>SQUASH (See Cucurbit Crops)</u>					
<u>SWISS CHARD (No fungicides currently cleared on Swiss Chard)</u>					
<u>TOMATO</u>					
	Anthracnose, Botrytis, Late and Early Blight, Septoria, Gray Leaf Spot	anilazine	Dyrene 50% WP	2-5 lbs/A	0*, Interval 7-10 days Refer to label

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>TOMATO (Cont'd)</u>					
	Gray Mold, Leaf Mold, White Mold, Cercospora Leaf Spot, Phoma Leaf Spot	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/A	0*, Interval 7-14 days Refer to label
	Early and Late Blight, Gray Leaf Spot, Gray Leaf Mold, Septoria Leaf Spot, Anthracnose Rhizoctonia Fruit Rot, Botrytis, Alternaria Fruit Rot	chlorothalonil	Bravo 720 54% F	1.5-3 pts/A	0*, Interval 7-14 days Refer to label
			Bravo 90 DG 90% DG	1-2.5 lbs/A	Same as above
	Bacterial Spot, Bacterial Speck, Early and Late Blight, Gray Leaf Mold	chlorothalonil + sulfur	Bravo S 19% + 27 %F	4.5-8.5 pts/A	0*, Interval 7-14 days Refer to label
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4-6 pts/A	0*, Interval 5-10 days Refer to label
	Early Blight, Bacterial Spot	copper hydroxide	Kocide 101 77% WP	2-4 lbs/A	0*, Interval 7-10 days Refer to label
			Kocide 606 37.5% F	2.66-5.33 pts/A	Same as above
			Champion 77% WP	2-4 lbs/A	Same as above
			Champion 37.5% F	2.66-5.33 pts/A	Same as above
			copper hydroxide + sulfur	Kocide 404S 27.5% + 15% F	4-8 pts/A
	Anthracnose, Early and Late Blight, Septoria, Cladosporium	mancozeb	Dithane M-45 80% WP	1.5-3 lbs/A	5*, Interval 7 days Refer to label
			Dithane F-45 37% F	2.4-4.8 pts/A	Same as above
			Dithane DF 75% DF	1.5-3.25 lbs/A	Same as above

VEGETABLES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>TOMATO (Cont'd)</u>					
			Manzate 200 DF 75% DF	1.5-3 lbs/A	Same as above
			Manex II 37% F	2.6-5 pts/A	Same as above
			Penncozeb 80% WP	1.5-3 lbs/A	Same as above
			Penncozeb DF 75% DF	1.5-3 lbs/A	Same as above
	Botrytis Stem Canker	DCNA	Botran 75 W 75% WP	1 lb/100 gals	Greenhouse only Refer to label
	Anthracnose, Early Blight, Septoria Leaf Spot, Gray Leaf Mold	ziram	Ziram 76 WDG 76% WDG	2-3 lbs/A	0*, Interval 7-10 days Refer to label
	Late Blight, Phytophthora and Other Fruit Rots, Leaf Spots	metalaxyl + mancozeb	Ridomil MZ 58 10% + 48% WP	1.5-2 lbs/A	5*, Interval 14 days Refer to label
		metalaxyl + chlorothalonil	Ridomil Bravo 81 W 9% + 72% WP	1.5-2 lbs/A	7*, Interval 14 days Refer to label
	Anthracnose, Early and Late Mold, Septoria	copper sulfate	Basicop 53% WP	2-4 lbs/A	0*, Interval 7-10 days Refer to label
	Pythium Damping Off, Phytophthora Fruit Rots	metalaxyl	Ridomil 2E 25.1% EC	---	Refer to label
			Ridomil 5G 5% G	---	Same as above
	Southern Blight	PCNB	Terraclor 75% WP	3-5 lbs/A	Refer to label
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<u>TURNIP</u>					
	Leaf Spots, Downy Mildew	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	0*, Interval 7-10 days Refer to label
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<u>WATERMELON (See Cucurbit Crops)</u>					
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FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)	
<u>APPLE</u>	Scab	sulfur	Several Formulations	---	Refer to label	
	Scab, Fruit Rots, Powdery Mildew, Rust	thiophanate-methyl	Topsin M 70% WP	1-1.5 lbs/A	0*, Interval 7-14 days Refer to label	
			Topsin M 4.5 F 46.2% F	5-7.5 fl oz/A	Same as above	
			Topsin M 85 WDG 85% WDG	0.8-1.2 lbs/A	Same as above	
		thiophanate-methyl + captan	Topsin M 70% WP + Captan 50 WP 48.9% WP	2-3 oz/100 gals + 0.75-1 lb/100 gals	0*, Interval 7-14 days Refer to label	
		benomyl + captan	Benlate 50 DF 50% DF + Captan 50 WP 48.9% WP	2-3 oz/100 gals + 12-16 oz/100 gals	30*, Interval 7-14 days Refer to label	
		triforine	Funginex 1.6 EC 18.2% EC	10 fl oz/100 gals	Interval 7 days Refer to label	
		myclobutanil	Nova 40W 40% WP	1.25-2.5 oz/100 gals	14*, Refer to label	
	Scab, Bitter Rot, Black Rot, Botryosphaeria, Black Pox, Bull's Eye Rot, Botrytis Rot	captan	Captan 50 WP 48.9% WP	4-8 lbs/A	0*, Interval 10-14 days Refer to label	
			Captec 4L 37.4% F	1-2 pts/100 gals	Same as above	
	Powdery Mildew, Cedar Apple Rust	triadimefon	Bayleton 50% WP	0.5-2 oz/100 gals	0*, Interval 7-14 days Refer to label	
			Bayleton 50% DF	0.5-2 oz/100 gals	Same as above	
	Fire Blight	streptomycin sulfate	Agri-strep 21.2% WP	24-48 oz/A	50*, Interval 3-4 days Refer to label	
			copper hydroxide	Kocide 101 77% WP	8-16 lbs/A	Refer to label
				Kocide 606 37% F	2.66-5.33 pts/100 gals	Same as above



## FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>APPLE (Cont'd)</u>					
			Champion 77% WP	2-4 lbs/100 gals	Same as above
			Champion 37.5% F	2.6-5.33 pts/ 100 gals	Same as above
		copper sulfate	Basicop 53% WP	0.5 lb/100 gals	0*, Refer to label
	Pre and Post Harvest Fruit Rots	benomyl	Benlate 50 DF 50% DF	6 oz/100 gals	0*, Refer to label
		thiophanate- methyl	Topsin M 70% WP	0.5-1 lb/100 gals	0*, Refer to label
			Topsin M 85 WDG 85% WDG	0.8-1.2 lbs/A	Same as above
	Molds and Storage Rots	captan	Captan 50 WP 48.9% WP	2.5 lbs/100 gals	Apply as dip or wash Refer to label
	Crown Gall	xlenol + meta-cresol	Gallex 0.46 + 0.47% F	----	Refer to label
	Phytophthora Crown Rot	metalaxyl	Ridomil 2E 25.1% EC	1 qt/100 gals	Refer to label
	Phytophthora Foot and Root Rot	fosetyl-AL	Aliette 80% WP	5 lbs/100 gals	Refer to label

BLACKBERRIES, RASPBERRIES, DEWBERRIES

	Leaf and Cane Spots	copper hydroxide	Kocide 101 77% WP	4 lbs + 1 qt superior type oil/A	Refer to label
			Kocide 606 37% F	5.33 pts + 1 qt superior oil/ 100 gals	Same as above
			Champion 77% WP	4 lbs/ + 1 qt superior type oil/100 gals	Same as above
			Champion 37% F	5.33 pts + 1 qt superior type oil/100 gals	Same as above
	Leaf Spots, Anthracnose	copper sulfate	Basicop 53% WP	2 lbs/100 gals	0*, Interval 10-14 days Refer to label
	Powdery Mildew, Fruit Rots	benomyl	Benlate 50 DF 50% DF	0.75 lb/A	3*, Interval 14 days Refer to label

FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>BLACKBERRIES, RASPBERRIES, DEWBERRIES (Cont'd)</u>					
		sulfur	Several Formulations	----	Refer to label
	Fruit Rots	iprodione	Rovral 50% WP	1-2 lbs/A	0*, Refer to label
			Rovral 4 41.6% F	1-2 pts/A	0*, Refer to label
<u>BLUEBERRIES</u>					
	Mummy Berry, Botrytis Blight, Leaf Spot	benomyl	Benlate 50 DF 50% DF	1 lb/A	21*, Interval 7-14 Refer to label
		captan	Captan 50-WP 48.9% WP	5 lbs/A	0*, Interval, 7-10 days Refer to label
		triforine	Funginex 1.6 EC 18.2% EC	24 fl oz/A	Refer to label
	Phytophthora Root Rot	metalaxyl	Ridomil 2E 25.1% EC	----	45*, Refer to label
			Ridomil 5G 5% G	----	45*, Same as above
<u>CITRUS</u>					
	Melanose, Scab, Greasy Spot, Brown Rot	copper hydroxide	Kocide 101 77% WP	2-12 lbs/A	Refer to label
			Kocide 606 37.5% F	1-2 pts/100 gals	Same as above
			Champion 77% WP	0.5-1.0 lbs/100 gals	Same as above
			Champion 37.5% F	1-2 pts/100 gals	Same as above
	Brown Rot, Melanose	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50%	8-16 pts/100 gals	Refer to label
	Brown Rot, Greasy Spot, Melanose, Pink Pitting, Scab	copper sulfate	Basicop 53% WP	1.5-3 lbs/A	Refer to label
	Greasy Spot	oil	Several Formulations	----	Refer to label

FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CITRUS (Cont'd)</u>					
	Greasy Spot, Post Harvest Diseases, Scab, Fruit Decay, Blue Mold, Stem End Rot	benomyl	Benlate 50 DF 50% DF	1.5-3 lbs/A	0*, Refer to label
	Phytophthora Foot Rot	metalaxyl	Ridomil 2E 25.1% EC	----	Refer to label
			Ridomil 5G 5% G	----	Same as above
		fosetyl-AL	Aliette 80% WP	5 lbs/A	Refer to label Non bearing only
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<u>FIG (No fungicides currently approved for use by EPA)</u>					
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<u>GRAPE</u>					
	Black Rot, Downy Mildew Dead Arm	captan	Captan 50-WP 48.9% WP	2-4 lbs/A	0*, Interval 7-14 days Refer to label
			Captan 4L 37.4% F	1.5-2 pts/100 gals	Same as above
	Black Rot, Dead Arm, Downy Mildew, Bunch Rot	mancozeb	Dithane M-45 80% WP	1.5-4 lbs/A	66*, Interval 10-14 days Refer to label
			Dithane DF 75% DF	1.5-4 lbs/A	Same as above
			Dithane F-45 37% F	2.4-6.4 pts/A	Same as above
			Manzate 200 DF 75% DF	1.5-4 lbs/A	Same as above
			Manex II 37% F	2.6-6.8 pts/A	Same as above
			Penncozeb 80% WP	1.5-4 lbs/A	Same as above
			Penncozeb DF 75% DF	1.5-4 lbs/A	Same as above
	Black Rot, Downy Mildew	copper sulfate	Basicop 53% WP	2 lbs/A	14*, Interval 14 days Refer to label

FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>GRAPE (Cont'd)</u>					
	Black Rot, Downy Mildew, Powdery Mildew	copper hydroxide	Kocide 101 77% WP	2 lbs/A + 2-6 lbs hydrated lime	0*, Refer to label
			Kocide 606 37.5% F	2.66 pts/A + 2-6 lbs hydrated lime	Same as above
			Champion 77% WP	2 lbs/A + 2-6 lbs hydrated lime	Same as above
			Champion 37.5% F	2.66 pts/A + 2-6 lbs hydrated lime	Same as above
	Powdery Mildew, Botrytis, Bunch Rot, Black Rot, Bitter Rot	benomyl	Benlate 50 DF 50% DF	0.75-1.5 lbs/A	7*, Interval 14-21 days Refer to label
	Black Rot, Powdery Mildew	triadimefon	Bayleton 50% WP	2-6 oz/A	14*, Interval 7-14 days Refer to label
			Bayleton 50% DF	2-6 oz/A	Same as above
		myclobutanil	Nova 40 W 40% WP	3-5 oz/A	14*, Interval 10-14 days Refer to label
	Powdery Mildew	iprodione	Rovral 50% WP	1.5-2 lbs/A	0*, Refer to label
			Rovral 4F 41.6% F	1.5-2 pts/A	Same as above
		sulfur	Several Formulations	----	0*, Refer to label
	Crown Gall	xylenol + meta-cresol	Gallex 0.46% + 0.47% F	----	Refer to label

PEACHES, PLUMS, NECTARINES, CHERRIES, APRICOTS

	Brown Rot, Scab	benomyl	Benlate 50 DF 50% DF	0.75-1.5 lbs/A	0*, Refer to label
	Brown Rot, Scab, Plum Black Knot	thiophanate- methyl	Topsin M 70% WP	1.5-2.25 lbs/A	0*, Refer to label

FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PEACHES, PLUMS, NECTARINES, CHERRIES, APRICOTS (Cont'd)</u>					
			Topsin M 85 WDG 85% WDG	1.2-1.9 lbs/A	Same as above
			Topsin M 4.5 F 46.2% F	30-45 fl oz/A	Same as above
	Coryneum Blight, Brown Rot, Scab	captan	Captan 50-WP 48.9% WP	8 lbs/A	0*, Refer to label
			Captec 4L 37.4% F	1.5-6 pts/100 gals	Same as above
	Leaf Curl, Coryneum Blight, Blossom Blight, Brown Rot, Scab	chlorothalonil	Bravo 720 54% F	3.12-4.12 pts/A	Do not apply after shuck split. Refer to label
			Bravo 90 DG 90% DG	2.5-4.5 lbs/A	Same as above
			Bravo S 19.2% + 27.25% F	3-4 pts/100 gals	Same as above
	Leaf Curl, Coryneum Blight, Bacterial Leaf Spot	copper hydroxide	Kocide 101 77% WP	8-16 lbs/A	Apply in early dormant season. Refer to label
			Kocide 606 37.5% F	2.66-5.33 pts/ 100 gals	Same as above
			Champion 77% WP	2-4 lbs/100 gals	Same as above
			Champion 37.5% F	2.66-5.33 pts/ 100 gals	Same as above
	Rhizopus Rot, Brown Rot	DCNA	Botran 75W 75% WP	1.33 lbs/100 gals	1*, Refer to label
	Brown Rot	iprodione	Rovral 50% WP	1-2 lbs/A	0*, Refer to label
			Rovral 4F 41.6% F	1-2 pts/A	Same as above
			Funginex 1.6 EC 18.2% EC	36-48 fl oz/A	Same as above
		sulfur	Several Formulations	----	0*, Interval 7-10 days Refer to label

FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PEACHES, PLUMS, NECTARINES, CHERRIES, APRICOTS (Cont'd)</u>					
	Peach Leaf Curl, Shot-hole, Brown Rot	ziram	Ziram F-4 39.2% F	12-15 pts/A	0*, Refer to label
			Ziram W-76 76% WP	1.5-3 lbs/100 gals	Same as above
			Ziram 76 WDG 76% WDG	8-10 lbs/A	Same as above
	Crown Gall	xylenol + meta-cresol	Gallex 0.46 + 0.47% F	----	Refer to label
	Phytophthora Root Rot	metalaxyl	Ridomil 2E 25.1% EC	----	Refer to label
			Ridomil 5G 5% G	----	Same as above
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<u>PEARS</u>					
	Scab, Sooty Blotch, Fly Speck, Powdery Mildew	benomyl	Benlate 50 DF 50% DF	4-6 oz/100 gals	0*, Interval 7-14 days Refer to label
	Powdery Mildew	triadimefon	Bayleton 50% WP	0.5-2 oz/100 gals	0*, Interval 7-14 days Refer to label
			Bayleton 50% DF	0.5-2 oz/100 gals	Same as above
	Fire Blight	streptomycin sulfate	Agristrep 21.2% WP	20-48 oz/A	30*, Refer to label
	Fire Blight, Pseudomonas Blight	copper hydroxide	Kocide 101 77% WP	1 lb/A	Refer to label
			Kocide 606 37.5% F	1 pt/A	Same as above
			Champion 77% WP	1 lb/A	Same as above
			Champion 37.5% F	1 pt/A	Same as above
		copper sulfate	Basicop 53% WP	0.5 lb/100 gals	0*, Interval 7-10 days Refer to label
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/100 gals	0*, Interval 5-7 days Refer to label

FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PEARS</u> (Cont'd)					
	Scab, Powdery Mildew	sulfur	Several Formulations	----	0*, Refer to label
	Post Harvest Fruit Rots	benomyl	Benlate 50 DF 50% DF	6 oz/100 gals	Refer to label
		captan	Captan 50 WP 48.9% WP	2.5 lbs/100 gals	Refer to label
	Crown Gall	xylenol + meta-cresol	Gallex 0.46 + 0.47% F	----	Refer to label
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<u>PECAN</u>					
	Pecan Scab, Brown Leaf Spot, Powdery Mildew, Downy Spot, Liver Spot, Zonate Leaf Spot, Fungal Leaf Scorch	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/A	Interval 21-24 days Refer to label
		propiconazole	Orbit 41.8% EC	4-6 fl oz/A	Interval 14 days Refer to label
	Pecan Scab, Brown Leaf Spot, Downy Spot, Powdery Mildew, Liver Spot, Sooty Mold, Leaf Blotch	triphenyltin hydroxide	Du-Ter 30 F 19.7% F	17-25.5 fl oz/A	Interval 14-28 days Refer to label
			Super-Tin 4L 40% F	8-12 fl oz/A	Same as above
	Pecan Scab, Brown Spot, Downy Spot, Powdery Mildew	thiophanate-methyl	Topsin M 70% WP	0.5-1.0 lb/A	Interval 21-24 days Refer to label
			Topsin M 85 WDG 85% WDG	0.4-0.8 lb/A	Same as above
			Topsin M 4.5 F 46.2% F	10-20 fl oz/A	Same as above
	Scab	ziram	Ziram F-4 39.2% F	3 pts/100 gals	Interval 21-28 days Refer to label
			Ziram W-76 76% WP	2 lbs/100 gals	Same as above
	Crown Gall	xylenol + meta-cresol	Gallex 0.46 + 0.47% F	----	Refer to label

## FRUIT AND NUT CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>STRAWBERRY</u>	Gray Mold, Powdery Mildew, Leaf Spots, Anthracnose, Botrytis, Crown Rot, Leaf Spots	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/A	0*, Interval 7-14 days Refer to label
		thiophanate- methyl	Topsin M 70% WP	.75-1 lb/A	1*, Interval 7-10 days Refer to label
			Topsin M 4.5 F 46.2% F	15-20 fl oz/A	Same as above
	Gray Mold, Leaf Spots, Botrytis Rot	captan	Captan 50 WP 48.9% WP	6 lbs/A	0*, Interval 7 days Refer to label
			Captec 4L 37.4% F	3-5 pts/A	Same as above
		anilazine	Dyrene 50% WP	2-6 lbs/A	5*, Interval 7-10 days Refer to label
	Powdery Mildew	sulfur	Several Formulations	----	0*, Refer to label
	Botrytis	vinclozolin	Ronilan WP 50% WP	1.5-2 lbs/A	Interval 7 days Refer to label
			Ronilan FL 41.3% F	1.5 pts/A	Interval 7-14 days Refer to label
	Leaf Spot, Leaf Blight	copper hydroxide	Kocide 101 77% WP	2-3 lbs/100 gals	0*, Interval 7 days Refer to label
			Kocide 606 37.5% F	2.66-4 pts/100 gals	Same as above
			Champion 77% WP	2-3 lbs/100 gals	Same as above
			Champion 37.5% F	2.66-4 pts/100 gals	Same as above
copper sulfate		Basicop 53% WP	2-3 lbs/100 gals	Refer to label	



FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CORN (field)</u>					
	Helminthosporium Leaf Blight, Rust	mancozeb	Manzate 200 DF 75% DF	1.5 lbs/A	7*, Interval 4-7 days. Refer to label
<u>COTTON</u>					
	Seedling Disease	PCNB + etridiazole	Terraclor Super X 10% + 2.5% G	10-15 lbs/A (40" row)	Refer to label In furrow only
			Terraclor Super X 23.2% + 5.8% EC	2-3 qts/A (40" row)	Same as above
<u>PEANUTS</u>					
	Cercospora, Cercosporidium Leaf Spot, Web Blotch, Rust	chlorothalonil	Bravo 720 54% F	1.0-1.5 pts/A	14*, Interval 10-14 days. Refer to label
			Bravo 90 DG 90% DG	1-1.25 lbs/A	Same as above
		chlorothalonil + sulfur	Bravo S 19.15% + 27.25%	3-4.25 pts/A	14*, Interval 10-14 days Refer to label
	Cercospora, Rust	mancozeb	Dithane M-45 80% WP	1-2 lbs/A	14* Interval 7-14 days Refer to label
			Dithane F-45 37% F	1.6-3.2 pts/A	Same as above
			Dithane DF 75% DF	1-2 lbs/A	Same as above
			Manzate 200 DF 75% DF	1-2 lbs/A	Same as above
			Manex II 37% F	1.6-3.4 pts/A	Same as above
			Penncozeb DF 75% DF	1-2 lbs/A	Same as above
			Cercospora Leaf Spot, Rust, Web Blotch	benomyl + mancozeb (Tank mix)	Benlate 50 DF + Manzate 200 DF 50% + 75% DF
		thiophanate-methyl + mancozeb (Tank mix)	Topsin M 70 WP + Penncozeb DF 70% + 75% DF	0.25 lb + 1-2 lbs/A	Refer to label Other Topsin M and mancozeb formulations may be used

FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PEANUTS</u> (Cont'd)					
	Cercospora Leaf Spot	thiophanate- methyl	Topsin M. 70% WP	0.5 lbs/A	14*, Interval 14-21 days. Refer to label
			Topsin M 4.5 F 46.2% F	10 fl oz/A	Same as above
			Topsin M 85 WDG 85% WDG	0.4 lb/A	Same as above
		cupric hydroxide	Kocide 101 77% WP	1.5-3 lbs/A	0*, Interval 10-14 days Refer to label
			Kocide 606 37.5% F	2-4 pts/A	Same as above
			Champion 77% WP	1.5-3 lbs/A	Same as above
			Champion 37.5% F	2-4 pts/A	Same as above
		cupric hydroxide + sulfur	Kocide 404S 27% + 15.5% F	2-4 pts/A	Same as above
	Cercospora Leaf Spot, Cercosporidium Leaf Spot, Rust	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4-6 pts/A	0*, Interval 10-14 days Refer to label
	Rust	sulfur	Several Formulations	----	0*, Interval 7-14 days Refer to label
	Southern Blight	PCNB	Terraclor 10 G 10% G	100 lbs/A	Refer to label
			Terraclor 75% WP	6-13 lbs/A	Same as above
			Terraclor 23.8% EC	3-5 gals/A	Apply only through irrigation. Refer to label
		PCNB + metalaxyl	Ridomil PC 11G 10% + 1%	40-50 lbs/A	Refer to label
	Sclerotinia Blight	iprodione	Rovral 50% WP	2 lbs/A	10*, Interval 28 days Refer to label
			Rovral 4F 41.6% F	2 pts/A	Same as above

FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>RICE</u>					
	Rice Blast, Sheath Rot, Narrow Brown Leaf Spot, Sheath Blight	benomyl	Benlate 50 DF 50% DF	1.0-2.0 lbs/A	21*, Refer to label
		thiabendazole 42.3% F	Mertect 340-F	6-12 fl oz/A	Refer to label
	Sheath Blight, Brown Leaf Spot, Narrow Brown Leaf Spot, Leaf Smut	propiconazole	Tilt 41.8% EC	6-10 fl oz/A	Refer to label
	Sheath Blight	iprodione	Rovral 4F 41.6% F	16 fl oz/A	Refer to label
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<u>SMALL GRAINS</u> (barley, oats, rye, wheat)					
Wheat	Helminthosporium Leaf Blight, Septoria Leaf Spot, Tan Spot, Septoria Glume Blotch, Leaf Rust	mancozeb	Dithane M-45 80% WP	2 lbs/A	28*, Refer to label
			Dithane F-45 37% F	3.2 pts/A	Same as above
			Dithane DF 75% DF	2 lbs/A	Same as above
			Manzate 200 DF 75% DF	2 lbs/A	Same as above
			Penncozeb 80% WP	2 lbs/A	Same as above
			Manex II 37% F	3.4 pts/A	Same as above
Wheat, Barley	Leaf Rust, Stem Rust, Stripe Rust, Leaf Blotch, Barley Scald Powdery Mildew	triadimefon	Bayleton 50% WP	2-8 oz/A	21*, Refer to label
			Bayleton 50 DF 50% DF	4-8 oz/A	Same as above
Wheat, Barley, Oats and Rye	Rusts, Powdery Mildew, Leaf and Glume Blotch, Tan Spot, Barley Scald, Net Blotch	propiconazole	Tilt 41.8% EC	4 fl oz/A	Refer to label
		mancozeb	Penncozeb DF 75% DF	2 lbs/A	28*, Refer to label

## FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SMALL GRAINS (Cont'd)</u>					
Wheat, Barley	Powdery Mildew, Leaf Rust	tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	Refer to label
<u>SOYBEANS</u>					
	Pod & Stem Blight, Anthracnose, Septoria Brown Leaf Spot, Frogeye Leaf Spot, Purple Seed Stain, Cercospora Leaf Spot	benomyl	Benlate 50 DF 50% DF	0.5-1 lb/A	35*, Refer to label
		thiophanate- methyl	Topsin M 70% WP	0.5-1 lb/A	Refer to label
			Topsin M 85 WDG 85% WDG	0.4-8 lb/A	Same as above
			Topsin M 4.5 F 46.2% F	10-20 fl oz/A	Same as above
		chlorothalonil	Bravo 720 54% F	1-2.5 pts/A	6 weeks*, Refer to label
			Bravo 90 DG 90% DG	0.8-2 lbs/A	Same as above
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4 pts/A	Refer to label
	Pod & Stem Blight, Anthracnose, Brown Spot	thiabendazole	Mertect 340-F 42.3% F	6-10 fl oz/A	21*, Refer to label
	Phytophthora Root Rot, Pythium Root Rot	metalaxyl	Ridomil 2E 25.1% EC	----	Refer to label
			Ridomil 5G 5% G	----	Same as above
<u>SUGAR BEETS</u>					
	Cercospora Leaf Spot	benomyl	Benlate 50 DF 50% DF	0.36-0.5 lb/A	21*, Interval 14-21 days Refer to label
		copper hydroxide	Kocide 101 77% WP	2-5 lbs/A	0*, Interval 10-14 days. Refer to label
			Kocide 606 37.5% F	2.66-6.66 pts/A	Same as above
			Champion 77% WP	2-5 lbs/A	Same as above

## FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SUGAR BEETS (Cont'd)</u>					
			Champion 37.5% F	2.66-6.66 pts/A	Same as above
		copper hydroxide + sulfur	Kocide 404S 27% + 15.5% F	4-10 pts/A	0*, Interval 10-14 days Refer to label
		tribasic copper sulfate + sulfur	Top Cop 8.4% + 50% F	4-8 pts/A	0*, Interval 10-14 days Refer to label
		copper sulfate	Basicop 53% WP	4 lbs/A	0*, Interval 7-10 days Refer to label
		mancozeb	Manzate 200 DF 75% DF	1.5-2 lbs/A	14*, Interval 7-10 days Refer to label
			Dithane M-45 80% WP	1.5-2 lbs/A	Same as above
			Dithane F-45 37% F	2.4-3.2 pts/A	Same as above
			Dithane DF 75% DF	1.5-2 lbs/A	Same as above
			Penncozeb 80% WP	1.5-2 lbs/A	Same as above
			Penncozeb DF 75% DF	1.5-2 lbs/A	Same as above
			Manex II 37% F	2.6-3.4 pts/A	Same as above
		maneb	Manex 37% F	2.4-4.8 pts/A	0*, Interval 7-14 days Refer to label
		thiophanate- methyl	Topsin M 70% WP	0.36-0.5 lbs/A	21*, Interval 14-21 days Refer to label
			Topsin M 85 WDG 85% WDG	0.3-0.4 lbs/A	Same as above
			Topsin M 4.5 F 46.2% F	8-10 fl oz/A	Same as above
		triphenyltin hydroxide	Du-ter 30F 19.7% F	8.5-17 fl oz/A	14*, Interval 10-14 days Refer to label
			Super Tin 4L 40% F	4-8 fl oz/A	Same as above

## FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>SUGAR BEETS</u> (Cont'd)					
		triphenyltin hydroxide + maneb	Pro-Tex 4.7% + 32.6% F	2-4 pts/A	14*, Interval 10-14 days Refer to label
	Powdery Mildew	sulfur	Several Formulations	----	Refer to label
		triadimefon	Bayleton 50% WP	0.25-1 lb/A	Interval 10-14 days Refer to label
			Bayleton DF 50% DF	0.25-1 lb/A	Same as above

**SEED TREATMENT FOR FLOWER BULBS, CORMS AND TUBERS**

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>EASTER LILY</u>					
	Rhizoctonia	PCNB	Terraclor 75% WP	4-6 lbs/100 gals	Refer to label
	Pythium	etridiazole	Terrazole 35% WP	3-10 oz/100 gals	Refer to label
<hr/>					
<u>GLADIOLUS</u>					
	Corm Rot, Damping Off, Decay	captan	Captan 75 71.7% WP	1 lb/10 gals	Refer to label
			Captan 50 48.9% WP	0.5-1.5 lbs/10 gals	Refer to label
		thiram	Thiram 50 WP Dyed 50% WP	---	Refer to label
			42-S 42% S	---	Same as above
<hr/>					
<u>GLADIOLUS, LILY, NARCISSUS, TULIP, HYACINTH, IRIS AND SCILLA</u>					
	Sclerotinia, Botrytis	vinclozolin	Ornalin 50% WP	1.5-2 lbs/100 gals	Refer to label
<hr/>					
<u>IRIS, HYACINTH, TULIP, NARCISSUS AND OTHERS</u>					
	Crown Rot, Black Rot	PCNB	Terraclor 75% WP	---	Refer to label
			Terraclor 10G 10% G	2-4 lbs/100 sq ft	Same as above
<hr/>					
<u>LILY, TULIP, GLADIOLUS, DAFFODIL, IRIS</u>					
	Fusarium, Penicillium Rots	benomyl	Benlate 50 DF 50% DF	1.66 lbs/100 gals	Refer to label
			Tersan 1991 DF 50% DF	1.66 lbs/100 gals	Same as above
<hr/>					
<u>ORNAMENTAL BULBS AND CORMS</u>					
	Fusarium Basal Rot, Penicillium Blue Mold	thiabendazole	Mertect 340-F 42.3% F	30 fl oz/100 gals	Refer to label

SEED TREATMENT FOR VEGETABLE CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>BEAN</u> (snap, lima)	Seedling Disease	captan	Captan 75%	
		carboxin	Vitavax 34	
		carboxin + diazinon + lindane	Germate Plus	
		chloroneb	Chloroneb 65W	
	Pythium, Phytophthora	metalaxyl	Apron 25 W	
			Apron Dry	Planter Box
			Apron-FL	
	Pythium, Phytophthora Seedling Disease	PCNB + etridiazole	Terra-coat L-205N	
			Terraclor Super X	Planter Box
			Apron-Terraclor Dust	
Halo Blight	streptomycin sulfate	Agri-strep		
<hr/>				
<u>BEETS</u>	Seedling Diseases	captan	Captan 400	
			Captan 400-D	
			Captan 75%	
			Captan 30-DD	
			Captan 300	
		thiram	42-S	
			Thiram-30	
			Thiram 50 WP Dyed	
<hr/>				
<u>CARROTS</u>	Seedling Disease	thiram	Thiram-30	



SEED TREATMENT FOR VEGETABLE CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<hr/>				
<u>CARROTS</u> (Cont'd)				
			Thiram 50 WP Dyed	
			42-S	
<hr/>				
<u>COLE CROPS</u> (cabbage, cauliflower, brussels sprouts, broccoli, collards, kohlrabi, mustard, kale, and radish)				
	Seedling Disease	captan	Captan 75%	
			Captan 30-DD	
			Captan 300	
			Captan 400	
			Captan 400-D	
		thiram	Thiram-30	
			Thiram 50 WP Dyed	
			42-S	
<hr/>				
<u>CORN</u> (sweet)				
	Seedling Disease	captan	Captan 75%	
			Captan 30-DD	
			Captan 300	
			Captan 400	
			Captan 400-D	
		carboxin	Vitavax 34	
		thiram	Thiram 50 WP Dyed	
			42-S	
			Thiram-30	
	Phythium, Damping Off	metalaxyl	Apron 25W	
			Apron-FL	
			Apron Dry	Planter Box
<hr/>				
<u>CUCURBITS</u> (cantaloupe, muskmelon, cucumber, watermelon, pumpkin, squash)				
	Seedling Disease	captan	Captan 75%	

SEED TREATMENT FOR VEGETABLE CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>CUCURBITS (Cont'd)</u>				
			Captan 300	
			Captan 30-DD	
			Captan 400	
			Captan 400-D	
		thiram	Thiram-30	
			42-S	
			Thiram 50 WP Dyed	
<u>EGGPLANT</u>				
	Seedling Disease	thiram	42-S	
			Thiram 30	
			Thiram 50 WP Dyed	
		captan	Captan 75%	
<u>LETTUCE</u>				
	Seedling Disease	thiram	42-S	
			Thiram-30	
			Thiram 50 WP Dyed	
		captan	Captan 75%	
<u>OKRA</u>				
	Pythium, Seedling Disease	metalaxyl	Apron 25W	
			Apron-FL	
			Apron Dry	Planter Box
	Seedling Disease	thiram	Thiram 50 WP Dyed	
<u>ONIONS</u>				
	Seedling Disease	thiram	Thiram-30	
			42-S	
<u>PEAS (English)</u>				
	Seedling Disease	metalaxyl	Apron-FL	

SEED TREATMENT FOR VEGETABLE CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>PEAS (English) (Cont'd)</u>				
			Apron 25W	
			Apron Dry	Planter box
-----				
<u>PEAS (Southern)</u>				
	Seedling Disease	captan	Captan 75%	
			Captan 30-DD	
			Captan 300	
			Captan 400	
			Captan 400-D	
	Pythium, Downy Mildew	metalaxyl	Apron-FL	
			Apron 25W	
			Apron Dry	Planter Box
		thiram	42-S	
			Thiram-30	
			Thiram 50 WP Dyed	
-----				
<u>PEPPER</u>				
	Seedling Disease	captan	Captan 75%	
			Captan 30-DD	
			Captan 300	
			Captan 400	
			Captan 400-D	
		thiram	Thiram-30	
			42-S	
			Thiram 50 WD Dyed	
-----				
<u>SPINACH AND SWISS CHARD</u>				
	Seedling Disease	captan	Captan 75%	
			Captan 30-DD	
			Captan 300	

SEED TREATMENT FOR VEGETABLE CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>SPINACH AND SWISS CHARD</u> (Cont'd)				
			Captan 400	
			Captan 400-D	
		thiram	Thiram-30	
			Thiram 50 WP Dyed	
			42-S	
<u>TOMATO</u>				
	Seedling Diseases	mancozeb	Dithane M-45	
			Dithane F-45	
			Dithane DF	
			Manzate 200 DF	
		thiram	Thiram-30	
			Thiram 50 WP Dyed	
			42-S	
		captan	Captan 30-DD	
			Captan 300	

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>ALFALFA AND CLOVER</u>				
	Seedling Disease Complex	captan	Captan 30 DD Captan 300 Captan 400 Captan 400-D Captan 75%	Alfalfa only
	Pythium, Phytophthora	metalaxyl	Apron 25 W Apron-FL Apron Dry	Planter box
		thiram	Thiram-30 42-S Thiram 50 WP Dyed Yield Shield	
<u>BARLEY</u>				
	Seedling Disease	captan	Captan 30 DD Captan 300 Captan 400 Captan 400-D Captan 75%	
		thiram	42-S Thiram-30 Thiram 50 WP Dyed	
	Pythium	metalaxyl	Apron 25W Apron-FL Apron Dry	Planter box
	Seedling Disease, Rhizoctonia, Pythium	metalaxyl + PCNB	Apron-Terraclor Dust	Planter box

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>BARLEY</u> (Cont'd)	Seedling Disease	maneb + lindane	DB Green	
		maneb + lindane + carboxin	DB Green + Vitavax	
	Covered Smut, Seedling Disease	PCNB	Terra-coat LT-2N	
			RTU-PCNB	
		PCNB + etridiazole	Terraclor Super X	Planter box
	Loose Smut, Covered Smut, Seedling Disease		Terra-Coat L-205 N	
		carboxin + thiram	Vitavax 200	
			RTU Vitavax-Thiram	Planter box
		carboxin + maneb + lindane	Vitavax Maneb Lindane (Enhance Plus)	Planter box
		carboxin + captan	Vitavax-Captan (Enhance)	
		carboxin + PCNB	Vitavax-PCNB	
		mancozeb	Dithane M-45	
		Manzate 200 DF	Bunt control also	
	Common Root Rot, Barley Stripe	imazalil	Flo Pro IMZ	
Powdery Mildew, Rust, Seedling Disease, Smuts	triadimenol	Baytan 30		
<u>CORN</u> (field)	Seedling Disease Complex	captan	Captan 400-D	
			Captan 400	
			Captan 30-DD	

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)	
<u>CORN</u> (Cont'd)			Captan 300		
			Captan 75%		
	Seedling Disease, Head Smut	carboxin	Vitavax 34		
	Pythium	metalaxyl	Apron-FL		
			Apron Dry	Planter box	
			Apron 25 W		
	Pythium, Seedling Disease	metalaxyl + PCNB	Apron-Terraclor Dust	Planter box	
	Seed Decay	carboxin + maneb + lindane	Vitavax Maneb Lindane (Enhance Plus)	Planter box	
	Seedling Disease	carboxin + diazinon + lindane	Germate Plus	Planter box	
		PCNB	RTU-PCNB		
		PCNB + etridiazole	Terracoat L-205N		
			Terraclor Super X	Planter Box	
		thiram	Thiram-30 42-S Thiram 50 WP Dyed		
	<hr/>				
	<u>COTTON</u>	Seedling Disease	captan	Captan 300 Captan 30 DD Captan 400-D Captan 75%	
		PCNB	RTU-PCNB Terracoat LT-2N		

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
COTTON (Cont'd)		thiram	Thiram-30 42-S Thiram 50 WP Dyed	
		imazalil	Nuzone 10 ME Nuzone 10 EC	
		mancozeb	Dithane DF Dithane F-45 Dithane M-45 Manzate 200 DF	
	Pythium, Phytophthora	metalaxyl	Apron-FL Apron 25W Apron Dry	Planter box
	Seedling Disease, Pythium, Phytophthora	metalaxyl + PCNB	Apron-Terraclor Dust	Planter box
		chloroneb	Nu Flow D Chloroneb 65 W	
		imazalil	Nuzone 10 ME Flo Pro IMZ	
	Seedling Disease, Pythium	TCMTB	Nusan 30 EC	
		carboxin	Vitavax 30 C Vitavax 34	
		carboxin + PCNB	Vitavax-PCNB	
		carboxin + thiram	RTU-Vitavax- Thiram	
		PCNB + etridiazole	Terraclor Super X	Planter box



SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>COTTON</u> (Cont'd)				
			Terracoat L-205N	
-----				
<u>FLAX</u>				
	Seedling Disease	captan	Captan 30-DD Captan 300 Captan 400 Captan 400-D Captan 75% WP	
		thiram	42-S	
-----				
<u>GRASSES</u> (forage and turf)				
	Seedling Disease	captan	Captan 30-DD Captan 300 Captan 400 Captan 400-D	
		thiram	42-S Thiram-30 Thiram 50 WP Dyed	
	Pythium	iprodione	Epic 30	
		metalaxyl	Apron 25W Apron-FL Apron Dry	Planter box
-----				
<u>WATS</u>				
	Seedling Disease, Seed Rot	captan	Captan 400-D Captan 400 Captan 75% Captan 30-DD Captan 300	

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)	
<u>OATS</u> (Cont'd)	Seedling Disease, Smut	PCNB	Terra-coat LT-2N		
			RTU-PCNB		
	Pythium	metalaxyl	Apron 25W		
			Apron Dry	Planter box	
	Seedling Disease, Loose Smut, Covered Smut	carboxin + thiram	Vitavax 200		
			RTU-Vitavax- Thiram	Planter box	
			carboxin	Vitavax 34	
			carboxin + maneb + lindane	Vitavax Maneb Lindane (Enhance Plus)	Planter box
			carboxin + captan	Vitavax-Captan (Enhance)	Planter box
	Seedling Disease, Rusts, Smuts, Powdery Mildew	triadimenol	Baytan 30		
			mancozeb	Manzate 200 DF	
				Dithane M-45	

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<u>PEANUTS</u>				
	Seedling Disease Complex	carboxin	Vitavax 30C	
		DCNA	Botran 30C	
		captan + DCNA	Captan DCNA 60-20	
		thiram	Thiram 50 WP Dyed	
		captan	Captan 30-DD	
			Captan 300	
		Captan 400		

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>PEANUTS (Cont'd)</u>				
			Captan 400-D	
		PCNB	RTU-PCNB	
		PCNB + etridiazole	Terra-coat L-205 N	
			Terraclor Super X	Planter box
	Seedling Disease, Pythium	metalaxyl + PCNB	Apron-Terraclor Dust	Planter box
		mancozeb	Manzate 200 DF	
			Dithane DF	
			Dithane M-45	
			Dithane F-45	
		captan + maneb + PCNB + etridiazole	4-Way	
<hr/>				
<u>RICE</u>				
	Seedling Disease	mancozeb	Manzate 200 DF	
			Dithane DF	
			Dithane F-45	
			Dithane M-45	
		carboxin + thiram	Vitavax 200	
			RTU-Vitavax + Thiram	Planter box
		thiram	42-S	
			Thiram 50 WP Dyed	
		PCNB	RTU-PCNB	
		PCNB + etridiazole	Terra-Coat L-205 N	
	Pythium, Phytophthora	metalaxyl	Apron-FL	

SEED TREATMENT FOR FIELD CROPS

Crop                      Disease(s)                      Chemical(s)                      Formulation(s)                      Remark(s)

RICE (Cont'd)

Apron Dry

SORGHUM

Seedling  
Disease

captan

Captan 30-DD

Captan 300

Captan 400

Captan 400-D

Captan 400-S

Captan 75%

PCNB

RTU-PCNB

thiram

Thiram-30

42-S

Thiram 50 WP Dyed

mancozeb

Manzate 200 DF

Dithane DF

Dithane M-45

Dithane F-45

Downy Mildew,  
Pythium

metalaxyl

Apron-FL

Apron 25 W

Apron Dry

Planter box

Downy Mildew,  
Pythium,  
Seedling Disease

metalaxyl +  
captan

Apron-Captan

Planter box

Seedling Disease,  
Pythium

PCNB +  
etridiazole

Terra-Coat  
L-205N

Terraclor  
Super X

Planter box

SOYBEANS

Seedling Disease  
Complex

captan

Captan 75%

## SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>SOYBEANS</u> (Cont'd)				
			Captan 400	
			Captan 400-D	
			Captan 300	
			Captan 30-DD	
		captan + molybdenum	Cap'N Moly	Planter box
		chloroneb	Chloroneb 65W	
		carboxin + thiram	Vitavax 200	
			RTU-Vitavax-Thiram	Planter box
		PCNB	RTU-PCNB	
		PCNB + etridizaole	Terra-Coat L-205N	
			Terraclor Super-X	Planter box
		carboxin + PCNB	Vitavax-PCNB	
		carboxin + captan	Vitavax-Captan (Enhance)	Planter box
		carboxin + diazinon + lindane	Germate Plus	
		thiram	Thiram-30	
			Thiram 42-S	
			Thiram 50 WP Dyed	
	Seedling Disease, Pod, Stem Blights	captan + TBZ	Captan T	
		captan + PCNB + TBZ	Rival	
		carboxin	Vitavax 34	

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
<u>SOYBEANS (Cont'd)</u>				
	Pythium, Phytophthora	metalaxyl	Apron 25W	
			Apron Dry	Planter box
			Apron-FL	
	Phytophthora, Seedling Disease	metalaxyl + captan	Apron-Captan	Planter box
			metalaxyl + PCNB	Apron-Terraclor Dust

SUGARBEETS

	Seedling Disease Complex	captan	Captan 400	
			Captan 30-DD	
			Captan 300	
			Captan 400D	
			Captan 75%	
			PCNB	RTU-PCNB
	Phytophthora, Pythium	metalaxyl	Terraclor Super X	Planter box
			Apron 25W	
			Apron-FL	
	Seed Decay	chloroneb	Apron Dry	Planter box
			Chloroneb 65W	
			thiram	Thiram 50 WP Dyed Thiram-30

SUNFLOWER

	Seed Decay	captan	Captan 400	
			Captan 400-D	
			Captan 300	
			Captan 30-DD	

SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)	
<u>SUNFLOWER (Cont'd)</u>					
	Systemic Downy Mildew	thiram	Thiram-30		
		metalaxyl	Apron-FL		
			Apron Dry	Planter box	
			Apron 25W		
<hr/>					
<u>WHEAT</u>					
	Stinking Smut, Bunt, Seed Rots, Seedling Disease	captan	Captan 30-DD		
			Captan 300		
			Captan 75%		
			Captan 400		
			Captan 400-D		
		triadimenol	Baytan 30		
		PCNB	Terra-Coat LT-2N		
	Pythium, Smut, Bunt, Seedling Disease	PCNB + etridiazole	Terra-Coat L-205 N		
			Terraclor Super X	Planter box	
		metalaxyl + PCNB	Apron-Terraclor Dust	Planter box	
	Seedling Disease	thiram	Thiram-30		
			42-S		
			Thiram 50 WP Dyed		
			maneb + lindane	DB Green	
			imazalil	Flo Pro IMZ	
			Doubler R		
	Phytophthora, Pythium	metalaxyl	Apron 25W		
			Apron Dry	Planter box	
			Apron-FL		

## SEED TREATMENT FOR FIELD CROPS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Remark(s)
WHEAT (Cont'd)			Nuzone 10 EC	
		thiabendazole	Mertect LSP	Bunt control
		captan + PCNB + TBZ	Rival	
	Smut, Bunt	carboxin	Vitavax 34	
	Smut, Bunt, Seedling Disease	carboxin + thiram	Vitavax 200	
			RTU Vitavax-Thiram	Planter box
	Smuts, Seedling Disease	carboxin + maneb + lindane	Vitavax-Maneb- Lindane (Enhance Plus)	Planter box
	carboxin + captan	Vitavax-Captan (Enhance)	Planter box	



NURSERY AND LANDSCAPE PLANTS - NEMATOCIDES AND FUMIGANTS

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
GENERAL USE NEMATOCIDES AND SOIL FUMIGANTS (NURSERIES)					
	Nematodes, Soil Fungi, Soil Insects	dichloropropene + chloropicrin	Telone C-17 77.9% + 16.5% Liq	17.1-116.3 gals/A	Refer to label
	Nematodes, Soil Insects	dichloropropene	Telone II 94% Liq	----	Refer to label
	Nematodes, Soil Fungi, Weed Seed, Insects	methyl bromide + chloropicrin	Brom-O-Gas 98% + 2% Gas	1-2 lb/100 sq ft (nursery soil) 1 lb/cu yd (potting mix)	Refer to label
		metam-sodium	Vapam 32.7% Liq	2-3 pts/ 100 sq ft	Refer to label
	Nematodes	oxamyl	Vydate L 24% Liq	----	Refer to label
		fenamiphos	Nemacur 10% G	180 lbs/A	Refer to label
BULBS					
<u>IRIS, LILY, AND NARCISSUS</u>					
	Nematodes	fenamiphos	Nemacur 10% G	60-120 lbs/A or 4.75-9.5 lbs/ 1000 sq ft	Refer to label

## TURF - NEMATICIDES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>TURF</u>	Nematodes	ethoprop	Mocap 5G 5% G	9-13.5 lbs /1000 sq ft or 400-600 lbs/A	Refer to label
		fenamiphos	Nemacur 10% G	2.3-4.6 lbs/ 1000 sq ft or 100-200 lbs/A	Refer to label
			Nemacur 3 35% EC	9-12 fl oz/ 1000 sq ft or 3-4 gals/A	Same as above
		dichloropropene + chloropicrin	Telone C-17 77.9% + 16.5% Liq	10.3-17.1 gals /A	Preplant only. Refer to label
		methyl bromide + chloropicrin	Terr-O-Gas 67 67% + 33% Gas	---	Preplant only. Refer to label
		metam-sodium	Vapam 32.7% Liq	2-3 pts/ 100 sq ft	Preplant only. Refer to label

VEGETABLE CROPS - NEMATICIDES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
GENERAL USE NEMATICIDES AND FUMIGANTS					
	Nematodes	dichloropropene	Telone II 94% Liq	4.5-6 gals/A banded	Preplant only. Refer to label
	Nematodes, Soil Fungi, Soil Insects	dichloropropene + chloropicrin	Telone C-17 77.9% + 16.5% Liq	5.1-6.9 gals /A banded	Preplant only. Refer to label.
		meta-sodium	Vapam 32.7% Liq	40-100 gals/A	Preplant only. Refer to label.
			Vapam 32.7% Liq	2-3 pts/100 sq ft	Use in garden. Refer to label
TRANSPLANTS					
	Nematodes, Soil Fungi, Soil Insects	methyl bromide + chloropicrin	Terr-O-Gas 67 67% + 31.8% Liq	270-360 lbs/A	Preplant. Refer to label
			Terr-O-Gas 33 33% + 64.66% Gas	450-725 lbs/A	Same as above
SPECIFIC NEMATICIDES AND FUMIGANTS					
<u>BEAN</u> (snap and lima)					
	Nematodes	ethoprop	Mocap 10% G 10% G	20 lbs/A (36" row)	Refer to label
			Mocap EC 69.6% EC	2.66-4 pts/A banded (36" row)	Same as above
<u>CABBAGE</u>					
	Nematodes	ethoprop	Mocap 10% G 10% G	20 lbs/A (36" row)	Refer to label
			Mocap EC 69.6% EC	2.66 pts/A (36" row)	Same as above
		fenamiphos	Nemacur 15% G	10-20 lbs/A (36" row)	Refer to label
<u>CARROT</u>					
	Nematodes	oxamyl	Vydate L 24% Liq	1-2 gals/A	Apply in furrow at planting. Refer to label
<u>CORN</u> (sweet)					
	Nematodes	ethoprop	Mocap 10% G 10% G	12 oz/1000 ft of row	Apply after planting. Refer to label

VEGETABLE CROPS - NEMATICIDES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>CORN (Cont'd)</u>					
			Mocap EC 69.6% EC	2-2.66 pts/A (40" row)	Same as above
<u>CUCUMBER</u>					
	Nematodes	ethoprop	Mocap 10% G 10% G	20 lbs/A	Apply just before planting. Refer to label
			Mocap EC 69.6% EC	2.66 pts/A	Same as above
		carbofuran	Furadan 15G 10% G	13.3 lbs/A (60" row)	Refer to label
<u>EGGPLANT</u>					
	Nematodes, Soil Fungi,	methyl bromide + chloropicrin	Terr-O-Gas 67 67% + 31.8% Gas	270-360 lbs/A	Preplant. Refer to label
			Terr-O-Gas 33 33% + 64.66% Gas	450-725 lbs/A	Same as above
	Nematodes	oxamyl	Vydate L 24% Liq	1 gal/A	Refer to label
		fenamiphos	Nemacur 15% G	13.4 lbs/A (36" row)	Refer to label
<u>OKRA</u>					
	Nematodes	fenamiphos	Nemacur 15% G	13.4-16.7 lbs/A	Apply at planting. Refer to label
<u>PEPPER</u>					
	Nematodes, Soil Fungi, Weed Seed, Insects	methyl bromide + chloropicrin	Terr-O-Gas 67 67% + 31.8% Gas	270-360 lbs/A	Preplant. Refer to label
			Terr-O-Gas 33 33% + 64.66% Gas	450-725 lbs/A	Same as above
	Nematodes	oxamyl	Vydate L 24% Liq	2 pts/A	Refer to label
<u>POTATOES (Irish)</u>					
	Nematodes	aldicarb	Temik 15G 15% G	20 lbs/A	Apply at planting. Refer to label
		ethoprop	Mocap EC 69.9% EC	4 pts/A (40" row)	Apply at planting. Refer to label

VEGETABLE CROPS - NEMATICIDES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>POTATOES (Irish) (Cont'd)</u>					
			Mocap 10% G 10% G	30 lbs/A (36" row)	Same as above
		oxamyl	Vydate L 24% Liq	1-2 gals/A (in furrow)	Refer to label
<u>POTATOES (Sweet)</u>					
	Nematodes	aldicarb	Temik 15G 15% G	10-20 lbs/A (48" rows)	Apply at planting Refer to label
		ethoprop	Mocap 10% G 10% G	30-40 lbs/A (42" row)	Apply 2-3 weeks prior to planting. Refer to label
		dichloropropene	Telone II 94% L	4-6 gals/A	Preplant. Refer to label
			Mocap 69.9% EC	2-2.66 qts/A (42" row)	Same as above
		oxamyl	Vydate L 24% Liq	2-3 gals/A broadcast	Refer to label
<u>TOMATOES</u>					
	Nematodes, Soil Fungi, Weed Seed, Insects	methyl bromide + chloropicrin	Brom-O-Gas 98% + 2 % Gas	----	Refer to label
			Terr-O-Gas 80 80% + 20% Gas	----	Refer to label

**FRUIT AND NUT CROPS - NEMATICIDES**

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PEACH, PLUM, NECTARINE, APRICOT, APPLES, PECANS, FIG, GRAPE, STRAWBERRIES</u>					
	Nematodes	dicloropropropene	Telone II 94% Liq	27-102 gals/A	Refer to label
	Nematodes, Soil Fungi,	metam-sodium	Vapam 32.7% Liq	40-100 gals/A	Preplant only. Refer to label
				2-4 pts/100 sq ft	Hose proportioner Refer to label
	Nematodes, Soil Fungi, Soil Insects	dichloropropene + chloropicrin	Telone C 17 77.9% + 16.5% Liq	17-116 gals/A	Preplant only Refer to label
	Nematodes, Soil Fungi, Weed Seed, Soil Insects	methyl bromide + chloropicrin	Brom-O-Gas 98% + 2% Gas	---	Refer to label

**SPECIFIC USE NEMATICIDES**

APPLES, PEACHES

Nematodes	fenamiphos	Nemacur 3 35% EC	1.5-3.0 gals/A (banded)	Refer to label Non bearing
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CITRUS

Nematodes	aldicarb	Temik 15G 15% G	33-67 lbs/A (banded)	One application annually. Refer to label
	fenamiphos	Nemacur 15% G	33.5-67 lbs/A (banded)	Post plant treatment Refer to label
		Nemacur 3 35% EC	1.67-3.33 gals/A (banded)	Same as above

GRAPE

Nematodes	fenamiphos	Nemacur 3 35% EC	3 gals/A (banded)	Refer to label
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STRAWBERRIES

Nematodes, Soil Fungi,	methyl bromide + chloropicrin	Brom-O-Gas 98% + 2% Gas	---	Refer to label
Nematodes	fenamiphos	Nemacur 15% G	13.8 lbs/A	Refer to label Nursery stock only

FIELD CROPS - NEMATICIDES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>GENERAL USE</u>					
	Nematodes, Soil insects	dichloropropene	Telone II 94% Liq	4.5-6 gals/A	Refer to label
	Nematodes, Soil Insects, Soil Fungi	dichloropropene + chloropicrin	Telone C-17 77.9% + 16.5% Liq	5.1-6.9 gals/A	Refer to label
<hr/>					
<u>CORN</u>					
	Nematodes	carbofuran	Furadan 15 G 15% G	10-13.3 lbs/A (40" row)	Apply at planting Refer to label
		terbufos	Counter 15% G	8 oz/1000 row ft	Refer to label
		ethoprop	Mocap 10% G 10% G	12 oz/1000 ft row	Refer to label
			Mocap EC 69.6% EC	2-2.66 pts/A (40" row)	Refer to label
<hr/>					
<u>COTTON</u>					
	Nematodes	aldicarb	Temik 15G 15% G	3.5-10 lbs/A (40" row)	Apply at planting Refer to label
		aldicarb + PCNB + etrizidazole	Temik TSX 5% + 10% + 2.5%	10-15 lbs/A (40" row)	Same as above
		fenamiphos	Nemacur 15% G	6.5-14.7 lbs/A	Refer to label
			Nemacur 3 35% EC	1.3-2.9 qts/A	Same as above
<hr/>					
<u>PEANUTS</u>					
	Nematodes	ethoprop	Mocap 10% G 10% G	20-40 lbs/A (36" row)	Refer to label
			Mocap EC 69.6% EC	2.67-5.33 pts/A (36" row)	Same as above
		aldicarb	Temik 15G 15% G	14-20 lbs/A (36" row)	Apply at planting Refer to label
		fenamiphos	Nemacur 3 35% EC	4-6.6 pts/A (36" row)	Apply at planting Refer to label
			Nemacur 15% G	10-17 lbs/A (36" row)	Same as above

FIELD CROPS - NEMATICIDES

Crop	Disease(s)	Chemical(s)	Formulation(s)	Rate(s)	Remark(s)
<u>PEANUTS (Cont'd)</u>					
		carbofuran	Furadan 15 15% G	13.3-26.7 lbs/A (36" row)	Refer to label
		oxamyl	Vydate L 24% Liq	---	Refer to label Soil and foliar applications
<u>SOYBEANS</u>					
	Nematodes	aldicarb	Temik 15G 15% G	10-20 lbs/A (30-48" rows)	At planting Refer to label
		carbofuran	Furadan 15 G 15% G	10-13.3 lbs/A (40" row)	At planting Refer to label
			Furadan 4F 44% F	3-4 pts/A (40" row)	Same as above
		ethoprop	Mocap EC 69.67% EC	2-4 pts/A (36" row)	At planting Refer to label
			Mocap 10% G 10% G	15-30 lbs/A (36" row)	Same as above
		oxamyl	Vydate L 24% Liq	2-4 pts/A (46" row)	Refer to label
<u>SUGAR BEETS</u>					
	Nematodes	aldicarb	Temik 15G 15% G	27-33 lbs/A (22" row)	Preplant or post plant application Refer to label
<u>SUGARCANE</u>					
	Nematodes	carbofuran	Furadan 15 G 15% G	13.3-26.7 lbs/A (60" row)	Apply at planting Refer to label
		ethoprop	Mocap 10% G 10% G	20-40 lbs/A (banded on row)	Refer to label
			Mocap 20% G 20% G	10-20 lbs/A (banded on row)	Same as above
			Mocap 69.7% EC	2.67-5.33 pts/A (banded on row)	Same as above



EQUIVALENT RATES OF FUNGICIDES TO BE USED  
WHEN MIXING 1 GALLON OF SPRAY SOLUTION

Rate desired in pounds/100 gallons water

Wettable Powders

Material	0.25	0.5	1.0	1.5	2.0
Benlate 50% DF	0.25 Tbs	0.5 Tbs	1 Tbs	1.5 Tbs	2 Tbs
Champion 77% WP	0.25 Tbs	0.5 Tbs	1 Tbs	1.5 Tbs	2 Tbs
Chipco 26019 50% WP	0.35 tsp	0.7 tsp	1.3 tsp	2 tsp	2.7 tsp
Daconil 2787 75% WP	----	1 tsp	2 tsp	3 tsp	4 tsp
Dithane M-45 80% WP	0.25 Tbs	0.5 Tbs	1 Tbs	1.5 Tbs	2 Tbs
Fore 80% WP	0.25 Tbs	0.5 Tbs	1 Tbs	1.5 Tbs	2 Tbs
Kocide 101 77% WP	0.25 Tbs	0.5 Tbs	1 Tbs	1.5 Tbs	2 Tbs
Maneb 80% WP	0.5 tsp	1 tsp	2 tsp	3 tsp	4 tsp
Manzate 200 DF 75% DF	0.37 tsp	0.75 tsp	1.5 tsp	2.25 tsp	3 tsp
Penncozeb 80% WP	0.25 Tbs	0.5 Tbs	1 Tbs	1.5 Tbs	2 Tbs
Tersan 1991 DF 50% DF	0.25 Tbs	0.5 Tbs	1 Tbs	1.5 Tbs	2 Tbs
Terraclor 75% WP	0.37 tsp	0.75 tsp	1.5 tsp	2.25 tsp	3 tsp

Liquid or Flowable

	4 oz	8 oz	1.0 pt	1.5 pt	2.0 pt
Bravo 720 54% F	0.25 tsp	0.5 tsp	1 tsp	1.5 tsp	2 tsp

Liquid or Flowable

	4 oz	8 oz	1.0 pt	1.5 pt	2.0 pt
Champion 37.5% F	0.25 tsp	0.5 tsp	1 tsp	1.5 tsp	2 tsp
Daconil 2787F 40.4% F	0.25 tsp	0.5 tsp	1 tsp	1.5 tsp	2 tsp
Kocide 606 37.5% F	0.25 tsp	0.5 tsp	1 tsp	1.5 tsp	2 tsp

PRODUCTS USED IN CHEMICAL CONTROL OF PLANT DISEASES  
AND THEIR MANUFACTURERS

TRADE NAME	CHEMICAL NAME	REENTRY TIME	PRECAUTIONS	COMPANY
Agri-Strep	streptomycin sulfate	24 hrs.	Caution	MSD Ag Vet
Alamo	propiconazole	N/A	Warning	Ciba-Geigy Corp.
Alfa	sulfur	24 hrs.	Caution	ICI Americas
Aliette	fosetyl Al	24 hrs.	Caution	Rhone-Poulenc Inc.
Apron 25 W	metalaxyl	N/A	Caution	Ciba Geigy Corp.
		N/A	Caution	Gustafson
Apron Dry	metalaxyl	N/A <sup>1/</sup>	Caution	Gustafson
Apron + Captan	metalaxyl + captan	N/A <sup>1/</sup>	Danger	Gustafson
Apron-FL	metalaxyl	N/A	Caution	Gustafson
Apron-Terraclor	metalaxyl + PCNB	N/A <sup>1/</sup>	Caution	Gustafson
Arbotect 20-S	thiabendazole	N/A	Caution	MSD Ag Vet
Banner	propiconazole	24 hrs.	Warning	Ciba Geigy Corp.
Banol	carbanolate	24 hrs.	Caution	Nor-Am Chem. Co.
Banrot	etr Diazole + thiophanate-methyl			
Banrot 8G	terrazole + thiophanate-methyl	24 hrs.	Danger	Grace-Sierra
		24 hrs.	Caution	Grace-Sierra
Basicop	copper sulfate	24 hrs.	Warning	Griffin Corp.
Bayleton WP	triadimefon	24 hours	Caution	Mobay Chem. Co.
Bayleton DF	triadimefon	24 hrs.	Caution	Mobay Chem. Co.
Baytan 30	triadimenol	24 hrs.	Caution	Gustafson
Benlate 50 DF	benomyl	24 hrs.	Caution	E. I. Du Pont De Nemours & Co.
Botec	DCNA + captan	N/A	Danger	Nor-Am Chem. Co.
Botran 75W	DCNA	24 hrs.	Caution	Nor-Am Chem. Co.
Botran-30C	DCNA	24 hrs.	Caution	Gustafson
Bravo 720	chlorothalonil	24 hrs.	Warning	ISK Biotech Corp.
Bravo S	chlorothalonil + sulfur	24 hrs.	Caution	Helena Chemical Company
Bravo W-75	chlorothalonil	24 hrs.	Danger	ISK Biotech Corp.
Bravo 90 DG	chlorothalonil	24 hrs.	Danger	ISK Biotech Corp.
Brom-O-Gas	methyl bromide + chloropicrin	<sup>1/</sup>	Danger-Poison	Great Lakes Chem. Corp.
Captan 50	captan	4 days	Danger	Helena Chem. Co.
Captan 50-W	captan	4 days	Danger	Platte Chem. Co., Inc.
Captan 50-W	captan	4 days	Danger	Wilbur-Ellis Co.
Captan 50-WP	captan	4 days	Danger	ICI Americas
Captan 75%	captan	N/A	Danger	Gustafson
Captan 30-DD	captan	N/A	Danger	Gustafson
Captan 80 W	captan	4 days	Danger	Helena Chem. Co.
Captan 300	captan	N/A	Danger	Gustafson
Captan 400	captan	N/A	Danger	Gustafson
Captan 400-D	captan	N/A	Danger	Gustafson
Captan 400S	captan	N/A	Danger	Gustafson
Captan-DCNA 60-20	captan + DCNA	N/A	Danger	Gustafson
Captan T	captan + thiabendazole	N/A	Danger	Gustafson

<sup>1/</sup> Farmer Applied

TRADE NAME	CHEMICAL NAME	REENTRY TIME	PRECAUTIONS	COMPANY
Captec 4L	captan	4 days	Danger	Griffin Corp.
Capt'n Moly	captan	N/A <sup>1/</sup>	Danger	Gustafson
Champion	cupric hydroxide	24 hrs.	Danger	Agtrol Chemical Co.
Champion Flowable	cupric hydroxide	24 hrs.	Caution	Agtrol Chemical Co.
Chipco 26019	iprodione	24 hrs.	Caution	Rhone-Poulenc Inc.
Chloroneb 65W	chloroneb	N/A	Caution	Kincaid Enterprises Inc.
Counter	terbufos	24 hrs.	Danger-Poison	Cyanamid Co.
Daconil 2787	chlorothalonil	24 hrs.	Warning	Fermenta Plant Pro. Co.
DB-Green	maneb + lindane	24 hrs.	Warning	Agasco, Inc.
DB-Green + Vitavax	maneb + carboxin + lindane	24 hrs. <sup>1/</sup>	Warning	Agasco, Inc.
Dikar	mancozeb + dinocap	24 hrs.	Caution	Rohm and Haas Co.
Dithane M-45	mancozeb	24 hrs.	Caution	Rohm and Haas Co.
Dithane F-45	mancozeb	24 hrs.	Caution	Rohm and Haas Co.
Dithane DF	mancozeb	24 hrs.	Caution	Rohm and Haas Co.
Double R	imazalil	24 hrs.	Danger	Agasco, Inc.
Duosan	thiophanate-methyl + mancozeb	24 hrs.	Warning	Grace-Sierra
Du-ter 30F	triphenyltin hydroxide	24 hrs.	Danger-Poison	Griffin Corp.
Dyrene 4	anilazine	24 hrs.	Warning	Mobay Chem. Corp.
Dyrene	anilazine	24 hrs.	Danger	Mobay Chem. Corp.
EM-53	sulfur	24 hrs.	Caution	International Chem., Inc.
Enhance	captan + carboxin	N/A <sup>1/</sup>	Danger	Gustafson
Enhance Plus	carboxin + maneb + lindane	N/A <sup>1/</sup>	Warning	Gustafson
Epic 30	iprodione	N/A	Caution	Gustafson
Flo-Pro D	chloroneb	24 hrs.	Caution	Gustafson
Flo-Pro-IMZ	imazalil	N/A	Danger	Gustafson
Fore	mancozeb	24 hrs.	Caution	Rohm and Haas Co.
Funginex 1.6 EC	triforine	24 hrs.	Danger	FMC Corp.
Funginex	triforine	24 hrs.	Danger	Ortho Chem. Co.
Funginex	triforine	24 hrs.	Danger	Ciba-Geigy Corp.
Fungo 50	thiophanate-methyl	24 hrs.	Caution	Grace-Sierra
Fungo Flo	thiophanate-methyl	24 hrs.	Caution	Grace-Sierra
Furadan 4F	carbofuran	24 hrs. <sup>2/</sup>	Danger-Poison	FMC Corp.
Furadan 3G	carbofuran	24 hrs. <sup>2/</sup>	Warning	Mobay Chem. Corp.
Furadan 15G	carbofuran	24 hrs.	Warning	Mobay Chem. Corp.
Gallex	xilenol + meta-cresol	N/A	Warning	FMC Corp.
Germate Plus	carboxin + diazinon + lindane	N/A <sup>1/</sup>	Caution	AgBioChem., Inc.
Golden-Dew	sulfur	24 hrs.	Caution	Gustafson
Koban 30	etridiazole	24 hrs.	Warning	Wilbur-Ellis Co.
Koban 1.3G	etridiazole	24 hrs.	Caution	Grace-Sierra
Kocide 101	cupric hydroxide	24 hrs.	Danger	Grace-Sierra
Kocide 404S	cupric hydroxide	24 hrs.	Danger	Griffin Corp.
Kocide 606	cupric hydroxide	24 hrs.	Danger	Griffin Corp.
Liquid Sulfur Six	sulfur	24 hrs	Caution	Griffin Corp.
				Helena Chemical Co.
				Terra International, Inc.

<sup>2/</sup> Restricted use pesticide

TRADE NAME	CHEMICAL NAME	REENTRY TIME	PRECAUTIONS	COMPANY
Maneb 80	maneb	24 hrs.	Caution	Atochem
Maneb Plus Zinc F4	maneb + zinc	24 hrs.	Caution	Atochem
Manex	maneb + zinc	24 hrs.	Caution	Griffin Corp.
Manex II	mancozeb	24 hrs.	Caution	Griffin Corp.
Manzate 200 DF	mancozeb	24 hrs.	Caution	E. I. Du Pont De Nemours & Co.
Mertect 340-F	thiabendazole	24 hrs.	Caution	MSD Ag Vet
Mertect DF	thiabendazole	24 hrs.	Warning	MSD Ag Vet
Mertect LSP	thiabendazole	N/A	Caution	MSD Ag Vet
Microthiol Special	sulfur	24 hrs.	Caution	Atochem
Milban	dodemorph acetate	24 hrs. <sup>1/</sup>	Danger	Grace-Sierra
Mocap 5 G	ethoprop	24 hrs.	Warning	Rhone-Poulenc Inc.
Mocap 10% G	ethoprop	24 hrs.	Warning	Rhone-Poulenc Inc.
Mocap 20% G	ethoprop	48 hrs.	Danger-Poison	Rhone-Poulenc Inc.
Mocap EC	ethoprop	48 hrs.	Danger-Poison	Rhone-Poulenc Inc.
Nemacur 3	fenamiphos	48 hrs.	Danger-Poison	Mobay Chem. Corp.
Nemacur	fenamiphos	48 hrs. <sup>1/</sup>	Danger-Poison	Mobay Chem. Corp.
Nova 40W	myclobutanil	24 hrs.	Warning	Rohm and Haas Co.
Nu-Flow D	chloroneb	N/A	Warning	Wilbur-Ellis Co.
Nusan 30 EC	TCMTB	N/A	Warning	Wilbur-Ellis Co.
Nu-Zone 10 EC	imazalil	N/A	Danger	Wilbur-Ellis Co.
Nu-Zone 10 ME	imazalil	N/A	Caution	Wilbur-Ellis Co.
Orbit	propiconazole	24 hrs.	Warning	Ciba Geigy Corp.
Ornalin	vinclozolin	24 hrs.	Caution	Grace-Sierra
Pace	metalaxyl + mancozeb	24 hrs.	Caution	Ciba-Geigy Corp.
Penncozeb DF	mancozeb	24 hrs.	Caution	Atochem
Penncozeb Turf and Ornamental	mancozeb	24 hrs.	Caution	Atochem
Penncozeb Pro-Tex	mancozeb + triphenyltin hydroxide	24 hrs.	Danger	Griffin Corp.
Ridomil 2E	metalaxyl	24 hrs.	Warning	Ciba Geigy Corp.
Ridomil 5G	metalaxyl	24 hrs.	Caution	Ciba Geigy Corp.
Ridomil PC 11G	PCNB + metalaxyl	24 hrs.	Caution	Ciba Geigy Corp.
Ridomil MZ58	metalaxyl + mancozeb	24 hrs.	Warning	Ciba Geigy Corp.
Ridomil Bravo 81W	metalaxyl + chlorothalonil	24 hrs.	Danger	Ciba Geigy Corp.
Rival	captan + PCNB + thiabendazole	N/A	Danger	Gustafson
Ronilan WP	vinclovolin	24 hrs.	Caution	BASF Corp.
Ronilan FL	vinclovolin	24 hrs.	Caution	BASF Corp.
Rovral	iprodione	24 hrs.	Caution	Rhone-Poulenc Inc.
Rovral 4F	iprodione	24 hrs.	Caution	Rhone-Poulenc Inc.
RTU-PCNB	PCNB	N/A	Caution	Gustafson
RTU-PCNB/Lindane	PCNB + Lindane	24 hrs.	Warning	Gustafson
RTU-Vitavax-Thiram	carboxin + thiram	N/A	Caution	Gustafson
Rubigan	fenarimol	24 hrs.	Warning	Dow Elanco
Signal (dust)	sulfur	24 hrs.	Caution	ICI Americas
Subdue (2E)	metalaxyl	24 hrs.	Warning	Ciba-Geigy Corp.
Subdue (2G)	metalaxyl	24 hrs.	Caution	Ciba-Geigy Corp.

TRADE NAME	CHEMICAL NAME	REENTRY TIME	PRECAUTIONS	COMPANY
Sulfur	sulfur	24 hrs.	Caution	FMC Corp.
Sulfur DF	sulfur	24 hrs.	Caution	Wilbur-Ellis Co.
Super Six	sulfur	24 hrs.	Caution	Griffin Corp.
Super Tin 4L	triphenyltin hydroxide	24 hrs.	Danger	Griffin Corp.
Telone II	dichloropropene	72 hrs.	Warning	Dow Elanco
Telone C-17	dichloropropene + chloropicrin	72 hrs.	Danger	Dow Elanco
Temik 15G	aldicarb	24 hrs. <sup>1/</sup>	Danger-Poison	Rhone-Poulenc Inc.
Temik TSX	aldicarb + PCNB + etridiazole	24 hrs. <sup>1/</sup>	Danger-Poison	Rhone-Poulenc Inc.
Terraclor (2E)	PCNB	24 hrs.	Caution	Uniroyal Chemical
Terraclor 10G	PCNB	24 hrs.	Caution	Uniroyal Chemical
Terraclor 75% WP	PCNB	24 hrs.	Caution	Uniroyal Chemical
Terraclor Super X	PCNB + terrazole	24 hrs.	Warning	Uniroyal Chemical
Terraclor Super X 20-5D	PCNB + terrazole	N/A	Warning	Gustafson
Terra-Coat L-205N	PCNB + terrazole	N/A	Warning	Gustafson
Terra-Coat LT-2N	PCNB	N/A	Caution	Gustafson
Terraneb SP	chloroneb	24 hrs.	Caution	Kincaid Enterprises Inc.
Terrazole 5G	etridiazole	24 hrs.	Caution	Uniroyal Chemical
Terrazole	etridiazole	24 hrs.	Warning	Uniroyal Chemical
Terr-O-Gas 67	methyl bromide + chloropicrin	<sup>1/</sup>	Danger-Poison	Great Lakes Chem. Corp.
Terr-O-Gas 98	methyl bromide + chloropicrin	<sup>1/</sup>	Danger	Great Lakes Chem. Corp.
Tersan 1991 DF	benomyl	24 hrs.	Caution	E. I. Du Pont De Nemours & Co.
That	sulfur	24 hrs.	Caution	Stoller Chem. Co.
Thiram-30	thiram	N/A	Caution	Gustafson
Thiram 50 WP Dyed	thiram	N/A	Caution	Gustafson
Thiramad	thiram	24 hrs.	Caution	Grace-Sierra
Tilt	propiconazole	24 hrs.	Warning	Ciba Geigy Corp.
Top Cop	tribasic copper sulfate + sulfur	24 hrs.	Caution	Stoller Chem. Co.
Tops - 2.5D	thiophanate-methyl	N/A	Caution	Gustafson
Topsin M	thiophanate-methyl	24 hrs.	Caution	Atochem
Topsin M Turf and Ornamental	thiophanate-methyl	24 hrs.	Caution	Atochem
Topsin M 4.5F	thiophanate-methyl	24 hrs.	Caution	Atochem
Topsin M 85 WDG	thiophanate-methyl	24 hrs.	Caution	Atochem
Truban (30% WP)	etridiazole	24 hrs.	Warning	Grace-Sierra
Truban 5 G	etridiazole	24 hrs.	Caution	Grace-Sierra
Truban (25% EC)	etridiazole	24 hrs.	Danger	Grace-Sierra
Turcide (10G)	PCNB	24 hrs.	Caution	Uniroyal Chemical
Turcide (24% E)	PCNB	24 hrs.	Caution	Uniroyal Chemical
Uniflow Sulfur	sulfur	24 hrs.	Caution	Uniroyal Chemical
Vapam	metam-sodium	N/A	Warning	ICI Americas Inc. Wilbur-Ellis Co.
Vitavax-3F	carboxin	24 hrs.	Caution	Uniroyal Chemical
Vitavax 4-G	carboxin	24 hrs.	Caution	Uniroyal Chemical

TRADE NAME	CHEMICAL NAME	REENTRY TIME	PRECAUTIONS	COMPANY
Vitavax-30C	carboxin	N/A	Warning	Gustafson
Vitavax-34	carboxin	N/A	Caution	Gustafson
Vitavax-200	carboxin + thiram	N/A	Caution	Gustafson
Vitavax Pour-on	carboxin + thiram	N/A <sup>1/</sup>	Caution	Gustafson
Vitavax-Maneb-Lindane	carboxin + maneb + lindane	N/A <sup>1/</sup>	Caution	Gustafson
Vitavax-PCNB	carboxin + PCNB	N/A	Caution	Gustafson
Vorlan	vinclozolin	24 hrs.	Caution	Grace-Sierra
Vorlon Flow	vinclozolin	24 hrs.	Caution	Grace-Sierra
Vydate L	oxamyl	48 hrs.	Danger-Poison	E. I. Du Pont De Nemours & Co.
Wettable Sulfur	sulfur	24 hrs.	Caution	FMC Corp.
Yield Shield	thiram + moly	N/A <sup>1/</sup>	Caution	Gustafson
Zyban	thiophanate-methyl + mancozeb	24 hrs.	Warning	Grace Sierra
Ziram F-4	ziram	24 hrs.	Warning	Atochem
Ziram 76 WDG	ziram	24 hrs.	Caution	FMC Corporation
Ziram W-76	ziram	24 hrs.	Danger	Atochem Helena Chemical Co.
4 Way	captan + maneb + PCNB + tetridiazole	N/A	Danger	Gustafson
42-S	thiram	N/A	Caution	Gustafson

Chemical Companies Which Manufacture or Distribute  
Fungicides, Bactericides, Nematicides and Fumigants

AGBIOCHEM INC.  
3 Fleetwood Court  
Orinda, CA 94563  
Emergency No. (415) 254-0789  
**Products:**  
Gallex  
Gallrol-A

AGSCO  
P.O. Box 458  
Grand Forks, ND 58201  
**Products:**  
DB Green  
DB Green L  
Double-R

AGTROL CHEMICAL PRODUCTS  
7324 Southwest Freeway  
Suite 1800  
Houston, Tx 77074  
Telephone No. (713) 995-0111  
**Products:**  
Champion WP  
Champion F  
Champ F

ATOCHEM NORTH AMERICA/  
AGRICHEMICALS DIV.  
Three Parkway, Rm 619  
Philadelphia, Pa. 19102  
Emergency No. (409) 779-0060  
**Products:**  
Maneb 80  
Maneb Plus Zinc F4  
Microthiol Special  
Penncozeb 80WP  
Penncozeb DF  
Penncozeb DF Turf and  
Ornamental  
Topsin M 70W  
Topsin M Turf and  
Ornamental  
Topsin M 85WDG  
Ziram F-4  
Ziram 76

BASF CORP.  
AGRICULTURAL CHEMICALS  
P.O. Box 13528  
Research Triangle Park, NC 27709  
Emergency No. (800)-832-HELP  
**Products:**

Ronilan FL  
Ronilan WP

CHEVRON CHEMICAL COMPANY  
6001 Bollinger Canyon Rd.  
Building T  
San Ramon, CA 94583  
Emergency No. (415) 233-3737  
**Products:**  
Flotox Garden Sulfur  
Funginex  
Home Orchard Spray  
Orthocide Garden Fungicide  
Orthorix Lime-Sulfur Spray  
Multi-Purpose Fungicide  
Rose & Floral Dust

CIBA-GEIGY CORPORATION  
P.O. Box 18300  
Greensboro, NC 27419  
Emergency No. (919) 632-6000  
**Products:**  
Alamo  
Apron 25W  
Banner  
Funginex  
Orbit  
Pace  
Ridomil 2E  
Ridomil MZ 58  
Ridomil 5G  
Ridomil PC 11G  
Ridomil Bravo 81W  
Subdue 2E  
Subdue 2G  
Tilt

CUPROQUIM CORP.  
9601 Katy Freeway, Suite 350  
Houston, Tx 77024  
Telephone No. (713) 827-1134  
**Products:**  
Blue Shield DF

DOWELANCO  
U.S. Crop Production  
Quad IV  
9002 Purdue Rd.  
Indianapolis, IN 46268-1189  
Emergency No. (517) 636-4400  
**Products:**  
Rubigan E.C.

Telone II  
Telone C-17

E. I. DU PONT  
DE NEMOURS & CO., (INC.)  
Agricultural Products Dept.  
Walker's Mill, Barley Mill Plaza  
Wilmington, DE 19898  
Emergency No. (800) 441-3637  
**Products:**  
Benlate 50 DF  
Manzate 200 DF  
Tersan 1991 DF  
Vydate L

FMC CORP.  
2000 Market St.  
Philadelphia, PA 19103  
Emergency No. (716) 735-3765  
**Products:**  
Furadan 4F  
Furadan 15G

GRACE/SIERRA CROP  
PROTECTION COMPANY  
1001 Yosemite Dr.  
Milpitas, Ca 95035  
Telephone No. (800) 492-8255  
**Products:**

Banrot 40% WP  
Banrot 8G  
Cal-Clor  
Cal-Gran  
Duosan  
Fungo 50WP  
Fungo Flo  
Koban 30  
Koban 1.3G  
Ornalin 50% WP  
Ornalin FL  
Thiramad  
Turban 30% WP  
Turban 25% EC  
Vorlan  
Vorlan Flo  
Zyban

GRIFFIN CORP.  
P.O. Box 1847  
Valdosta, GA 31603-1847  
Telephone No. (912) 242-8635  
**Products:**



Basicop  
Captec 4L  
Du-Ter  
Flowable Sulfur Six  
Kocide 101  
Kocide 606  
Kocide 404S  
Kocide 20/20  
K-Cop  
Kocide SD  
Manex  
Manex II  
Pro-TEX  
Super Six  
Super Tin 4L

GUSTAFSON, INC.  
P.O.Box 660065  
Dallas, Tx. 75266-0065  
Emergency No. (214) 985-8877

**Products:**

Apron-FL  
Apron 25W  
Apron Dry  
Apron + Captan  
Apron-Terraclor  
Baytan 30 F  
Botran-30C  
Captan 300  
Captan 30-DD  
Captan 400  
Captan 400-D  
Captan 400-S  
Captan 75%  
Captan-DCNA 60-20  
Captan T  
Chloroneb 65W  
Enhance  
Enhance Plus  
Epic 30  
FOUR WAY  
Flo-Pro IMZ  
Germate Plus  
Mertect LSP  
Rival  
RTU-PCNB  
RTU-VITAVAX-THIRAM  
Terraclor Super X  
Terra-Coat LT-2N  
Terra-Coat L-205N  
Thiram 30  
42-S  
Thiram 50WP Dyed  
Tops-2.5D  
Vitavax

Vitavax-PCNB  
Vitavax-200  
Vitavax-30C  
Vitavax-34  
Vitavax Pour On  
YIELD SHIELD

**HELENA CHEMICAL COMPANY**

5100 Poplar Ave.  
Suite 3200  
Memphis, Tn 38137  
Emergency No. (901) 761-0050

**Products:**

Bravo S  
Captan 50  
Captan 80W  
Liquid Sulfur Six  
Ziram Spray

**ICI AMERICAS INC.**

Agricultural Products  
Wilmington, DE 19897  
Emergency No. (800) 327-8633

**Products:**

Captan 50  
Captan 80  
Sulfur Alfa  
Sulfur Special Electric  
Sulfur Signal  
Vapam

**ISK Biotech Corp.**

5966 Heisley Rd.  
P. O. Box 8000  
Mentor, OH 44061-8000  
Emergency No. (216) 357-4145

**Products:**

Bravo 500  
Bravo W-75  
Bravo 720  
Bravo 90DG

**KINCAID ENTERPRISES, INC.**

Box 549  
Nitro, WV 25143  
Emergency No. (304) 755-3377

**Products:**

Chloroneb 65W  
Terraneb SP

**MOBAY CORPORATION**

8400 Hawthorn Rd.  
Kansas City, MO 64120  
Emergency No. (816) 242-2000

**Products:**

Bayleton 50% WP  
Bayleton 50% DF  
Dyrene  
Dyrene 4F  
Furadan 4F  
Morestan 25% WP  
Morestan 25% WP  
Nemacur 15%G  
Soluble Packets  
Nemacur 3

**MSD AGVET**

Div. Merck & Co., Inc.  
P.O. Box 2000  
Rahway New Jersey 07065  
Emergency No. (215) 661-7300  
(day), (215) 661-5000 (night)

**Products:**

Agri-Strep  
Arbotect 20-S  
Mertect 340-F  
Mertect DF

**NOR-AM CHEMICAL CO.**

P.O. Box 7495  
3509 Silverside Rd.  
Wilmington, DE 19803  
Emergency No. (800) 424-9300

**Products:**

Botec  
Botran 75WDG  
Vorlex

**OLYMPIC CHEMICAL CO.**

P.O. Box K  
Mainland, PA 19451  
Emergency No. (800) 441-3637

**Products:**

Benomyl 50DF  
Strike

**PLATTE CHEMICAL CO.**

150 So. Main Street  
Fremont, NE 68025  
Emergency No. (800) 424-9300

**Products:**

Bravo 90 DG  
Captan 5% Potato Seed  
Treater  
Captan 50-W  
Captan 80 WDG  
PCNB 10 G Soil  
Polyram 80 DF  
Fungicide  
Sulfur DF

Sulfur Flowable 6  
Thiabendazole 0.5% Potato Seed  
Treater  
Thiolux DF  
Tops 2.5 Dust  
Ziram 76 WDG  
Ziram WP  
Numerous seed treatments

RHONE-POULENC AG COMPANY  
2 T. W. Alexander DR.  
Research Triangle Park, NC 27709  
Emergency No. (800) 334-7577

**Products:**

Aliette  
Chipco Aliette  
Chipco 26019  
Chipco 26019-FLO  
Chipco Mocap 5G  
Mocap 10%  
Mocap 20%  
Mocap EC  
Mocap Plus  
Rovral  
Rovral 4F  
Temik 15G  
Temik TSK

ROHM AND HAAS COMPANY  
Independence Hall West  
Philadelphia, PA 19105  
Emergency No. (215) 592-3000

**Products:**

Dithane DF  
Dithane F 45  
Dithane M45  
Fore  
Nova 40W

SANDOZ CROP PROTECTION  
CORP.  
1300 E. Touhy Ave.  
Des Plaines, IL 60018  
Emergency No. (708) 699-1616

**Products:**

Thiolux DF

STOLLER CHEMICAL CO., INC.  
8582 Katy Freeway  
Suite 200  
Houston, Tx. 77024  
Telephone No. (800) 255-9548

**Products:**

Top Cop with sulfur  
That

TERRA INTERNATIONAL, INC.

600 Fourth Street  
Terra Centre  
Sioux City, IA 51101  
Emergency No. (501) 763-8968

**Products:**

Bravo 90 DF  
Mancozeb Fungicide  
Maneb 80  
MF-4  
Superbark  
Tri Basic Copper

UNIROYAL CHEMICAL COMPANY  
INC.

Middlebury, CT 06749  
Emergency No. (203) 723-3670

**Products:**

Apron Dry Seed  
Apron FL  
Protectant  
Apron-Terraclor  
Captan 400-S  
Captan-DCNA 60-20  
Germate Plus  
Plantvax 75W  
RTU-PCNB  
RTU-Vitavax-Thiram  
Terraclor  
Terraclor 6.5% Plus Di-Syston  
6.5%G  
Terraclor 10%G  
Terraclor 75%WP  
Terraclor with Mocap  
Terraclor Super-X  
10 plus 3  
Terraclor Super-X/Di-Syston  
Terra-Coat LT-2N  
Terrazole 25% Ornamental  
Terrazole 35% Turf  
Turfcide 2lb Turf and  
Ornamental  
Vitavax Captan  
Vitavax-34  
Vitavax 200 FL  
Vitavaxz PCNB  
Vitavax Pour On

WILBUR-ELLIS COMPANY

P. O. Box 1020  
Edinburg, Tx 78540  
Emergency No. (800) 424-9300

**Products:**

Captan 50 Wettable  
PCNB 10G

Terraclor 2 Spray  
Apron FI  
Apron TL  
Captan 10 Potato Seed  
Protectant  
Captan 20 Carboxin 20  
Captan 65 Sprills  
Captan 75  
Captan 4000  
Captan Potato Seed  
Chloroneb 65W  
Protectant 5  
Golden-Dew  
Green-Top  
Nu-Flow AD  
Nu-Flow D  
Nu-San 30EC  
Nu-Zone 10EC  
Nu-Zone 10ME  
PCNB Seed-Coat  
Potato Seed Dust T  
Potato Seed-Piece  
Sulfur DF  
Fungicide Dust

This list is based on  
product manuals which  
were available to the  
authors on February 20,  
1991.

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