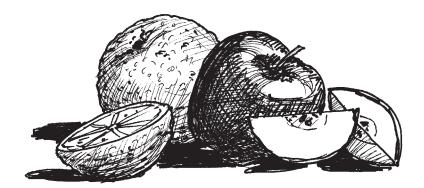
Fruit & Disease Control Products For Use in Texas



E-17 2/03



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Fruit and Nut Disease Control

PRODUCTS FOR USE IN TEXAS

By George L. Philley*

his listing of chemicals to control fruit diseases is a reference for county Extension agents and fruit producers in Texas. It is not an exhaustive list of every cleared product and formulation, but does contain the most readily available and representative products for each chemical. Just as in human medicine, there are generic products containing the same active ingredient; for plants there are disease control products that contain the same active chemical. Also, the same chemical may be formulated several ways (liquid or powder) and at different concentrations.

Therefore, while many trade name products contain the same active ingredient, especially from the same company, some were omitted from this listing to save space. Sulfur is a good example. Sulfur is marketed at different concentrations of dusts, liquids and wettable powders.

For specific spray schedules for pecans, contact your county Extension agent. Also, see Bulletin 1171, "2002 Southern Peach, Nectarine and Plum Pest Management and Culture Guide," which is available at the county Extension office.

Explanation of the listings

The diseases listed in the first column come from product labels. They are not arranged in order of importance. Likewise, the active ingredients (common chemical names) in the second column and the products in the formulation column are in no particular order. The formulation names are trade names; below each is stated the percentage of active ingredient and the type of product. At the end of the publication is a listing of all trade name products and the companies selling those products. In the remarks section, the number followed by an asterisk is the preharvest interval in days. Example: 7* indicates a 7-day interval from last application to harvest.

Information on specific crops

Blackberries

Ziram Granuflo[®] is cleared on blackberry for one application to control evergreen canker. Because the disease is not known in Texas, the product is not listed.

Blueberries

Some copper fungicides are cleared for use on blueberries to control bacterial canker. Because bacterial canker is not a problem in Texas, copper is not listed under blueberry.

Peaches

Several copper products are cleared for use on peaches as cover sprays for bacterial spot but are not recommended in Texas because of the potential phytotoxicity to foliage. Growers are strongly cautioned to gain experience on a small area before treating an entire crop.

Pecans

Certain copper fungicides are cleared on pecan for Phytophthora kernel rot and zonate leaf spot. These two diseases are not serious enough in Texas to require special treatment; therefore, a copper fungicide is not included. Coppers could be used for eliminating nonpathogenic plants such as algae, mosses and lichens. Sulfur is also cleared for use on pecan for powdery mildew and spider mite control but is not listed under the pecan section for the same reason as stated for the copper products.

Persimmons

No disease control chemical has been cleared for use on persimmon.

Figs

No disease control chemical has been cleared for use on fig. Many sulfur formulations are cleared for mite control.

Terms and abbreviations

- * pre harvest interval in days
- DF dry flowable
 - F flowable
- L liquid
- WDG wettable dispersable granule
 - WG wettable granule
 - WP wettable powder
- WSP water soluble powder

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		APPLE		
Disease	Chemical	Formulation	Rate	Remarks
Scab, powdery mildew, fly speck, sooty blotch, black rot, fruit rots	Thiophanate methyl	Topsin M 70 WP 70% WP	1-1.5 lb/A	0.* See resistance management section on label.
		T-Methyl 70 W WSB 70% WP	1-1.5 lb/A	0.* See resistance management section on label.
	Trifloxystrobin	Flint 50% WDG	2-3 oz/A	14.* Limit 11 oz/A/season and 3 consecutive applications
Scab, black rot, sooty blotch, fly speck, bot rot, bitter rot	Captan	Captan 50 Wettable Powder 50% WP	4-8 lb/A	0.* Limit 64 lb/A/season. Some varieties are sensitive.
		Captan 80 WP 80% WP	2.5-5 lb/A	0.* Limit 40 lb/A/season
		Captec 4L 38.2% F	2-4 qt/A	0.* Limit 32 qt/A/season
		Captan 50 W 50% WP	4-8 lb/A	0.* Limit 64 lb/A/season. Some varieties are sensitive
		Captan 4L 37.6%L	2-4 qt/A	0*
Fire blight, crown rot, collar rot, anthracnose	Copper hydroxide	Kocide 101 77% WP	8-16 lb/A	Early-season application only for fire blight
		Kocide DF 61.4% DF	8-16 lb/A	Early-season application only for fire blight
		Kocide 4.5 LF 37.5% L	5.3-10.6 pt/A	Early-season application only for fire blight
		3 lb Copper 37.5% L	0.66-1.33 gal/A	Early-season application only for fire blight
		Nu-Cop 3 L 37.5% L	0.6-1.3 gal/A	Early-season application only for fire blight
		KOP-Hydroxide 37.5% L	2.66-5.33 pt/ 100 gal	Early-season application only for fire blight
		Champ Formula 2 37.5% L	0.66-1.5 gal/A	Early-season application only for fire blight
		Nu-Cop 50 DF 77% DF	8-16 lbs/A	Early-season application only for fire blight
		KOP-Hydroxide 50 77% WP	8-16 lb/A	Early-season application only for fire blight
		Champion WP 77% WP	8-16 lb/A	Early-season application only for fire blight
Scab, rust, leafspot, black rot, powdery nildew, flyspeck, sooty blotch, fruit rots	Kresoxim- methyl	Sovran 50% WDG	4-6.4 oz/A	30.* Limit 25.6 oz/A/season
Powdery mildew, rust, scab	Myclobutanil	Nova 40 W 40% WSP	1.25-2.5oz/ 100 gal	14.* Limit 5 lb/A/season
	Fenarimol	Rubigan EC 12% L	8-12 oz/A	30.* Limit 84 oz/A/season
	Triflumazole	Procure 50 WS 50% WS	8-16 oz/A	14.* Limit 64 oz/A/season
Scab, rust, sooty blotch, flyspeck, bitter rot	Ziram	Ziram 76 DF 76% DF	6-8 lb/A	14.* Limit 56 lb/A/season

		APPLE (con		
Disease	Chemical	Formulation	Rate	Remarks
Scab, rust, sooty blotch, flyspeck, bitter rot (continued)	Ziram (continued)	Ziram Granuflo 76% WDG	6-8 lb/A	14.* Limit 56 lb/A/season
Rust, powdery mildew	Triadimefon	Bayleton 50% 50% DF	2-8 oz/A	45.* Limit 24 oz/A/season
Rust, Fabrea leaf spot, flyspeck, scab, sooty blotch	Maneb + zinc	Manex 37% L	2-4.8 qt/A	77.* Limit 16.8 qt/A/season
	Maneb	Maneb 75 DF 75% DF	3 lb/A	77.* Limit 22.4 lb/A/season
		Maneb 80 WP 80% WP	3 lb/A	77.* Limit 21 lb/A/season
Fabrea leafspot, rusts, scab	Mancozeb	Penncozeb 75 DF 75% DF	3 lb/A	77.* Limit 22.4 lb/A/season
		Penncozeb 80 WP 80% WP	3 lb/A	77.* Limit 21 lb/A/season
		Dithane DF 75% DF	3.2 lb/A	77.* Limit 22 lb/A/season
		Dithane F-45 37% F	2.4 qt/A	77.* Limit 16.8 qt/A/season
		Dithane M-45 80% WP	3 lb/A	77.* Limit 21 lb/A/season
		Manex II 37% L	2.4 pt/A	77.* Limit 16.8 qt/A/season
		Manzate 75 DF 75% DF	3 lb/A	77.* Limit 21 lb/A/season
Scab, rust	Metiram	Polyram 80 DF 80% DF	3-6 lb/A	77.* Limit 24 lb/A/season
Scab	Dodine	Syllit 65 W 65% WP	1-3 lb/A	7.* Can cause injury under certain conditions
	Cyprodinil	Vangard WG 75% WDG	3-5 oz/A	72.* Tank mix with a protectant or systemic fungicide is suggested.
Scab, powdery mildew	Sulfur	Liquid Sulfur Six 52% L	0.75-3.5 pt/ 100 gal	0*
		Sulfur 6 L 52% L	1.5-5 gal/A	0*
		That Flowable Sulfur 52% L	1-12 pt/ 100 gal	0*
		Sulfur Flowable 6 52% L	2.5-5 gal/A	0*
		EM-53 Red Ball 53% L	1.5-3.5 pt/ 100 gal	0*
		Sulfur 90 W 90% WP	8-26 lb/A	0*
		Microsperse Wettable Sulfur 90% WP	15-30 lb/A	0*

		APPLE (cont	inued)	
Disease	Chemical	Formulation	Rate	Remarks
Scab, powdery mildew (continued)	Sulfur (continued)	Sulfur DF 80% DF	10-20 lb/A	0.* Some varieties sensitive
		Microthiol Disperss 80% WP	10-20 lb/A	0.* Some varieties sensitive
		Micro Sulf 80% WP	10-20 lb/A	0*
Fire blight, anthracnose	Copper oxychloride	Microsperse COC 53 WP 91.4% WP	8-16 lb/A	Early-season application only for fire blight
Fire blight	Copper oxychloride + basic copper sulfate	C-O-C-S WDG 74.8 + 14.2% WDG	0.25-4 lb/ 100 gal	Early-season application only for fire blight
	Streptomycin sulfate	Agri-mycin 17 22.4% WP	24-48 oz/A	50*
		Streptrol 21.3% WP	24-48 oz/A	50*
		AS-50 65.8% WP	8-16 oz/A	30*
	Basic copper sulfate	Basicop 53% WP	0.5-1.0 lb/100 gal	Apply during bloom.
		Basic Copper '53' 98% WP	2 Ib/A	Apply during bloom.
	Mancozeb + copper hydroxide	ManKocide 15% + 46.1% DF	8-16 lb/A	Apply pre-bloom.
	Fosethyl-Al	Aliette WDG 80% WDG	2.5-5 lb/A	Apply before or during bloom. Limit 20 lb/A/season
Phytophthora crown and root rot	Mefenoxam	Ridomil Gold EC 49% L	0.5 pt/100 gal	Apply in spring and fall after harvest.
	Fosethyl-Al	Aliette WDG 80% WDG	2.5-5 lb/A	14* Limit 20 lb/A/season
Storage rots	Captan	Captan 50 Wettable Powder 50% WP	2.5 lb/100 gal	Post-harvest dip or spray
		Captec 4L 38.2% L	1.25 qt/100 gal	Post-harvest dip or spray
		Captan 50 W 50% WP	2.5 lb/100 gal	Post-harvest dip or spray
		Captan 80 WP 80% WP	1.6 lb/100 gal	Post-harvest dip or spray
		Captan 4 L 37.6% L	1.25 qt/A	Post-harvest dip or spray
	Thiabendazole	Mertect 340 F 42.3% L	16 oz/100 gal	Post-harvest dip or spray
		Decco Salt No. 19 98.5% L	1-2 bags (575 g/bag) /300 gal	Post-harvest dip or spray
Scab, rust, bitter rot, black rot, blotch, plus others	Thiram	Thiram Granuflo 75% WP	5.2-6.8 lb/A	0*

		APRICO	Т	
Disease	Chemical	Formulation	Rate	Remarks
Leaf curl, brown rot, scab	Chlorothalonil	Echo 54% L	3.12-4.12 pt/A	Shuck split *
		Echo 90 DF 90% DF	2.2-3.5 lb/A	Shuck split *
		Bravo Weather Stik 54% L	3.12-4.12 pt/A	Shuck split *
		Bravo Ultrex 82.5% WDG	2.8-3.8 lb/A	Shuck split *
		Equus 720 54% L	3.1-4.1 pt/A	Shuck split *
		Equus DF 90% DF	2.2-3.5 lb/A	Shuck split *
Bacterial canker, coryneum blight,	Copper hydroxide	Champion WP 77% WP	8-16 lb/A	Apply at leaf fall or as a dormant spray.
brown rot		Champ Formula 2 37.5% L	5.3-8 pt/A	Apply at leaf fall or as a dormant spray.
		3 lb Copper 37.5% L	1.33-4 pt/ 100 gal	Do not apply after bloom.
		KOP-Hydroxide 37.5% L	2.66-4 pt/ 100 gal	Do not apply after bloom.
		KOP-Hydroxide 50 77% WP	8-12 lb/A	Do not apply after bloom.
Blossom blight shot hole	Copper hydroxide	Kocide DF 61.4% DF	8-12 lb/A	Do not apply after bloom.
		Kocide 4.5 LF 37.5% L	5.3-8 pt/A	Do not apply after bloom.
		Kocide 101 77% WP	8-12 lb/A	Do not apply after bloom.
		Nu-Cop 50 DF 77% DF	8-12 lb/A	Do not apply after bloom.
		Nu-Cop 3L 37.5%L	1.3-4 pt/A	Do not apply after bloom.
	Basic copper sulfate	Basic Copper "53" 98% WP	14-20 lb/A	Do not apply when trees are in lea
		Basicop 53% WP	4-5 lb/100 gal	Do not apply when trees are in lea
		Cuprofix Disperss 36.9% WP	10-16 lb/A	Apply dormant or at full bloom.
	Basic copper sulfate + sulfur	Top Cop with Sulfur 8.4%+50% L	2-4 qt/100 gal	Do not apply when trees are in lea
	Ziram	Ziram Granuflo 76% WDG	6-8 lb/A	30.* Limit 40 lb/A/season
		Ziram 76 DF 76% DF	6 lb/A	30.* Limit 30 lb/A/season
	Copper oxychloride + basic copper sulfate	C-O-C-S WDG 74.8+14.2% WDG	5-12 lb/A	Do not apply after petal fall.

Disease	Chemical	Formulation	Rate	Remarks
Blossom blight (continued)	Copper oxychloride	Microsperse COC 53 WP 91.4% WP	8-12 lb/A	Do not apply after full bloom.
Brown rot	Captan	Captan Wettable Powder 50% WP	3-5 lb/A	0.* Limit 25 lb/A/season
		Captan 4 L 37.6% L	1.2-2.5 qt/A	0.* Limit 12.5 qt/A
		Captan 50 W 50% WP	3-5 lb/A	0.* Limit 25 lb/A/season
		Captan 80 W 80% WP	1.9-3.12 lb/A	0.* Limit 15.6 lb/A/season
		Captec 4 L 38.2% L	2-2.5 qt/A	0.* Limit 12.5 qt/A/season
	Propiconazole	Orbit 41.8% L	4 oz/A	0.* Limit 2 preharvest sprays. Limit 12 oz from early bloom through petal fall.
		Propi Max EC 41.8% EC	4 oz/A	0.* Limit 2 preharvest sprays. Limit 12 oz from early bloom through petal fall.
	Fenbuconazole	Indar 75 WSP 75% WSP	2 oz/A	0.* Limit 1 lb/A/season
	Thiophanate methyl	Topsin M 70 W 70% WP	1.5 lb/A	1.* See resistance management section.
		T-Methyl 70 W WSB 70% WP	1.5 lb/A	1.* See resistance management section.
Phytophthora crown and root rot	Mefenoxam	Ridomil Gold EC 49% L	2 qt/treated A	Limit 3 applications/year
Blossom blight, shot hole, scab	Iprodione	Rovral Brand 4 41.6% L	1-2 pt/A	Do not apply after petal fall. Limit 2 applications/season.
scab		lprodione 4 L 41.6% L	1-2 pt/A	Do not apply after petal fall. Limit 2 applications/season.
Brown rot, powdery mildew, shot hole	Myclobutanil	Nova 40 W 40% WSP	2.5-6 oz/A	0.* Limit 2.75 lb/A/season
Brown rot, powdery mildew, shot hole, scab, leaf rust, anthracnose	Azoxystrobin	Abound 22.9% L	11-15.4 oz/A	0.* Limit 4 applications/season at high rate
Brown rot, blossom blight	Cyprodinil	Vanguard WG 75% W SG	5 oz/A	Limit 2 applications/A/season
Brown rot, Rhizopus rot	Dicloran	Botran 75 W 75% WP	1.3-5.3 lb/A	10.* Apply 18 and 10 days before harvest.
		Allisan 75% WP	1 lb/100 gal	Post-harvest spray
Brown rot, Botryis, Rhizopus, Gilbertella rot	Fludioxonil	Scholar 50% WP	8-16 oz/100 gal	Post-harvest treatment. Treats 200,000 lb.

		BLACKBERRY, R	ASPBERRY	
Disease	Chemical	Formulation	Rate	Remarks
Leafspot, cane spot	Copper hydroxide	Kocide 101 77% WP	2-4 lb/A	Apply delayed dormant or after harvest
		Kocide DF 61.4% DF	2-4 lb/A	Apply delayed dormant or after harvest
		Kocide 4.5 LF 37.5% L	1.3-2.6 pt/A	Apply delayed dormant or after harvest
		3 lb Copper 37.5% L	2.66-5.33 pt + 1 qt superior- type oil/100 gal	Apply delayed dormant or after harvest. Could apply late spring at 2.66 pt rate.
		Nu-Cop 50 DF 77% DF	2-4 lb/A + 1 qt superior- type oil	Apply delayed dormant or after harvest.
		Nu-Cop 3 L 37.5% L	2.6-5.3 pt + 1 qt superior- type oil/100 gal	Apply delayed dormant or after harvest. Could apply late spring at 2.66 pt rate on blackberry.
		KOP-Hydroxide 37.5% L	2.6-5.3 pt + 1qt superior- type oil/100 gal	Apply delayed dormant and/or afte harvest. Not cleared on raspberry
		KOP-Hydroxide 50 77% WP	4 lb/A	Add 1 qt crop oil/A. Apply delayed dormant and in fall.
		Champion WP 77% WP	4 lb/A	Add 1 qt crop oil/A. Apply delayed dormant and in fall.
		Champ Formula 2 37.5% L	2.66 pt/A + 1 qt crop oil/A	Apply delayed dormant and/or afte harvest.
Botrytis fruit rot	Vinclozolin	Ronilan DF 50% DF	1-2 lb/A	9.* Limit 8 lb/A/season. Not cleared on blackberry.
	lprodione	Rovral Brand 4 41.6% L.	1-2 pt/A	0.* Limit 4 applications/season
		lprodione 4 L 41.6% L	1-2 pt/A	0.* Limit 4 applications/season
	Fenhexamid	Elevate 50% WDG	1.5 lb/A	0.* Limit 6 lb/A product/season
Phytophthora root rot	Fosethyl-Al	Aliette WDG 80% WDG	5 lb/A	60.* Limit 4 applications/season
	Mefenoxam	Ridomil Gold EC 49%L	0.25 pt/1000 linear ft on a 3-ft band	45.* Not cleared on blackberry
Anthracnose, leaf spot, yellow rust	Basic copper sulfate	Basicop 53% WP	2 lb/100 gal	0*
		Basic Copper "53" 98% WP	4-5 lb/A	0*
		Cuprofix Disperss 36.9% WP	2.5-6 lb/A	0*
	Basic copper sulfate + sulfur	Top Cop with Sulfur 8.4 + 50% L	2 qt/A	0.* Not cleared on blackberry
	Copper salts of fatty and rosin acids	Tenn-Cop 5 E 58% L	4-6 pt/A	0*

Disease	Chemical	Formulation	Rate	Remarks
Anthracnose, leaf and cane spot, yellow rust	Copper oxychloride	Microsperse COC 53 WP 91.4% WP	4.5 lb/A	0.*
Leaf and cane spot, yellow rust	Copper oxychloride + basic copper sulfate	C-O-C-S WDG 74.8% + 14.2% WDG	4-6 lb/100 gal	Apply early-season and post- harvest
Leaf spot, powdery mildew, rust, Anthracnose, Botrytis suppression	Pyraclostrobin	Cabrio EG 20% WDG	14 oz/A	0.* Limit 4 applications/season
Yellow rust	Calcium polysulfide	Lime Sulfur Solution 29% L	5-8 gal/100 gal	Apply as dormant spray
Powdery mildew	Sulfur	Sulfur 6 L 52% L	2.5 gal/A	0*
		Microsperse Wettable Sulfur 90% WP	15 lb/A	0*
		Sulfur DF 80% DF	6-12 lb/A	0*
		Microthiol Disperss 80% WP	6-15 lb/A	0*
		Sulfur Flowable 6 52% L	2.5 gal/A	0*
		Micro Sulf 80% WP	6-15 lb/A	0*
		Sulfur 90 W 90% WP	6-15 lb/A	0*
Rust, powdery mildew	Myclobutanil	Nova 40 W 40% WSP	1.25-2.5 oz/A	0.* Do not apply more than 10 oz/A/season.

		BLUEBEF	RY	
Disease	Chemical	Formulation	Rate	Remarks
Mummyberry, Botrytis blossomblight	Captan	Captan 50 Wettable Powder 50% WP	5 lb/A	0.* Limit 70 lb/A/season
		Captan 50 W 50% WP	5 lb/A	0.* Limit 70 lb/A/season
		Captan 80 WP 80% WP	3.12 lb/A	0.* Limit 43.75 lb/A/season
		Captec 4 L 38.2% F	2.5 qt/A	0.* Limit 35 qt/A/season
		Captan 4 L 37.6% L	2.5 qt/A	0.* Limit 35 qt/A/season
Botrytis	Iprodione	Rovral Brand 4 41.6% L	1-2 pt/A	0.* Limit 4 applications/season
		lprodione 4 L 41.6% L	1-2 pt/A	0.* Limit 4 applications/season
	Fenhexamid	Elevate 50% WDG	1.5 lb/A	0.* Limit 6 lb/A product/season
Mummyberry, Phomopsis, Botrytis, anthracnose fruit rot	Ziram	Ziram 76 DF 76% DF	3 lb/A	Do not apply after 3 weeks past full bloom.
		Ziram Granuflo 76% WDG	3 lb/A	Do not apply after 3 weeks past full bloom.

Disease	Chemical	Formulation	Rate	Remarks
Phytophthora root rot	Mefenoxam	Ridomil Gold EC 49% L	3.6 pt/A	Limit 2 applications/season
	Fosethyl-Al	Aliette WDG 80% WDG	5 lb/A	0*. Limit 4 applications/season
Mummyberry, Alternaria, Phomopsis, Anthracnose	Azoxystrobin	Abound 22.9% L	15.4-16.2 oz/A	0.* Limit 3 applications/season
Mummyberry, Anthrachose	Chlorothalonil	Equus 720 54% L	3-4 pt/A	42.* Do not apply after early bloom
		Equus DF 82.5 % DF	2.7-3.6 lb/A	42.* Do not apply after early bloom
		Bravo Weather Stik 54% F	3-4 pt/A	42.* Do not apply after early bloom
		Bravo Ultrex 82.5% WDG	2.7-3.6 lb/A	42.* Do not apply after full bloom.
		Echo 720 54% L	3-4 pt/A	42.* Do not apply after early bloom
		Echo 90 DF 90% DF	2.5-3.2 lb/A	42.* Do not apply after early bloom
Fruit rot, Phomopsis twig blight	Copper hydroxide	Kocide DF 61.4% DF	3-5 lb/A	Late dormant application and before blooms open
		Kocide 101 77% WP	3.5 lb/A	Late dormant application and before blooms open
		Kocide 4.5 LF 37.5% L	4 pt/A	Late dormant application and before blooms open
Phomopsis, powdery mildew, rust, leaf spot Anthracnose, Botrytis and mummyberry suppression only	Pyraclostrobin	Cabrio EG 20% WDG	14 oz/A	0.* Limit 4 applications/season
Powdery mildew	Sulfur	Sulfur 6 L 52% L	2.5 gal/A	0*
		Sulfur Flowable 6 52% F	2.5 gal/A	0*
		Microsperse Wettable Sulfur 90% WP	15 lb/A	0*
		Sulfur DF 80% DF	6-15 lb/A	0*
		Microthiol Disperss 80% WP	6-15 lb/A	0*
		Micro Sulf 80% WP	6-15 lb/A	0*
		Sulfur 90 W 90% WP	6-15 lb/A	0*

		GRAPE		
Disease	Chemical	Formulation	Rate	Remarks
Phomopsis, downy mildew, suppress black rot	Captan	Captan 50 Wettable Powder 50% WP	2-4 lb/A	0.* Limit 24 lb/A/season
		Captan 80 WP 80% WP	1.25-2.5 lb/A	0.* Limit 15 lb/A/season
		Captec 4 L 38.2% L	1-2 qt/A	0.* Limit 12 qt/A/season
		Captan 50 W 50% WP	2-4 lb/A	0.* Limit 24 lb/A/season
Black rot, downy mildew		Captan 4 L 37.6% L	2-4 pt/A	0*
Black rot, powdery mildew, downy mildew	Copper hydroxide	Kocide 101 77% WP	2-4 lb/A	0.* Some varieties are copper sensitive.
		Kocide DF 61.4% DF	2-4 lb/A	0.* Some varieties are copper sensitive.
		Kocide 4.5 LF 37.5% L	1.3-2.6 pt/A	0.* Some varieties are copper sensitive.
		3 lb Copper 37.5% L	1.33-2.66 pt/A	0.* Some varieties are copper sensitive.
		Nu-Cop 50 DF 77% DF	2 lb+1-3 lb hydrated lime/A	0.* Some varieties are copper sensitive.
		Nu-Cop 3 L 37.5% L	1.3-2.6 pt/A	0.* Some varieties are copper sensitive.
		KOP-Hydroxide 37.5% L	2.66 pt + 2.6 lb hydrated lime/A	0.* Some varieties are copper sensitive.
		KOP-Hydroxide 50 77% WP	2 Ib/A	0.* Some varieties are copper sensitive.
		Champ Formula 2 37.5% L	1.33-2.66 pt/A	0.* Some varieties are copper sensitive.
	Copper oxychloride + basic copper sulfate	C-O-C-S WDG 74.8% + 14.2% WDG	2 lb/A	Some varieties are copper sensitive.
Black rot, powdery mildew, anthracnose	Myclobutanil	Nova 40 W 40% WSP	3-5 oz/A	14.* Limit 1.5 lb/A/season
Botrytis bunch rot	Iprodione	Rovral Brand 4 41.6% L	1-2 pt/A	7.* Limit 4 applications/season for wine grapes and 1 application for table grapes
		lprodione 4 L 41.6% L	1-2 pt/A	7.* Limit 4 applications/season for wine grapes and 1 application for table grapes
	Cyprodinil	Vangard WG 75% WG	5-10 oz/A	7.* Limit 20 oz/A/season
	Fenhexamid	Elevate 50% WDG	1 lb/A	0.* Limit 3 lb/A/season
Powdery mildew	Fenarimol	Rubigan EC 12% L	2-6 oz/A	30.* Limit 19 oz/A/season
	Triflumizole	Procure 50 WS 50% WS	4-8 oz/A	7.* Limit 32 oz/A/season
	Sulfur	Liquid Sulfur Six 52% L	1-2 pt/100 gal	0*
		Sulfur 6L 52% L	7 pt-1 gal/A	0.* Some varieties are sensitive.
		Microsperse Wettable Sulfur 90% WP	5-6 lb/A	0.* Some varieties are sensitive.

		GRAPE (con	(Inued)	
Disease	Chemical	Formulation	Rate	Remarks
Powdery mildew (continued)		Sulfur 90 W 90% WP	2-8 lb/A	0.* Some varieties are sensitive.
		Sulfur DF 80% DF	2-5 lb/A	0*
		That Flowable Sulfur 52% L	1-2 pt/100 gal	0.* Limit 5 applications
		Microthiol Disperss 80% WP	3-10 lb/A	v Some varieties are sensitive.
		EM-53 Red Ball 53% L	1-2 pt/100 gal	0*
Powdery mildew, Phomopsis	Sulfur	Sulfur Flowable 6 52% L	7 pt-1 gal/A	0.* Some varieties are sensitive.
		Micro Sulf 80% WP	3-10 lb/A	0.* Some varieties are sensitive.
Powdery mildew, black rot	Triadimefon	Bayleton 50% 50% DF	2-6 oz/A	14.* Limit 18 oz/A/season
	Tebuconazole	Elite 45 DF 45% DF	4 oz/A	14.* Limit 2 lb/A/season
Downy mildew	Mefenoxam + mancozeb	Ridomil Gold MZ 4% + 64% WP	2.5 lb/A	66.* Limit 4 applications/season
	Mefenoxam + copper hydroxide	Ridomil Gold Copper 5%+60% WP	2 lb/A	66.* Limit 4 applications/season
	Fosethyl-Al	Aliette WDG 80% WDG	3-5 lb/A	15.* Supplemental label
Black rot, powdery mildew, downy mildew	Trifloxystrobin	Flint 50% WDG	1.5-4 oz/A	14.* Limit 8 oz/A/season and 3 consecutive applications. Do not apply to Concord.
	Kresoxim- methyl	Sovran 50 % WDG	3.2-6.4 oz/A	14.* Limit 25.6 oz/A/season
Powdery mildew, downy mildew, black rot, Phomopsis cane and eaf spot	Azoxystrobin	Abound 22.9% L	11-15.4 oz/A	14.* Limit 6 applications/A/seaso
Anthracnose, black rot, downy mildew	Basic copper sulfate	Basicop 53% WP	2 lb/100 gal	14*
		Basic Copper "53" 98% WP	4-5 lb/A	0.* Some varieties are sensitive.
		Cuprofix Disperss 36.9% WP	2.5-6 lb/A	0.* Some varieties are sensitive.
Downy mildew, bowdery mildew, bunch rot	Basic copper sulfate + sulfur	Top Cop with Sulfur 8.4 + 50% L	2 qt/A	0*
Black rot, bunch rot, deadarm, downy	Maneb + zinc	Manex 37% L	1.2-3.2 qt/A	66.* Limit 19.2 qt/A/season
nildew	Maneb	Maneb 75 DF 75% DF	1.5-4 lb/A	66.* Limit 25.6 lb/A/season
		Maneb 80 WP 80% WP	1.5-4 lb/A	66.* Limit 24 Ib/A/season
	Mancozeb	Dithane DF 75% DF	1.5-4 lb/A	66.* Limit 25.6 lb/A/season
		Dithane F 45 37% L	1.2-3.2 qt/A	66.* Limit 19.2 qt/A/season
		Dithane M-45 80% WP	1.5-4 lb/A	66.* Limit 24 Ib/A/season
		Manex II 37% L	1.2-3.2 qt/A	66.* Limit 19.2 qt/A/season

		GRAPE (con	tinued)	
Disease	Chemical	Formulation	Rate	Remarks
Black rot, bunch rot, deadarm, downy	Mancozeb (continued)	Manzate 75 DF 75% DF	1.5-4 lb/A	66.* Limit 24 lb/A/season
mildew (continued)		Penncozeb 75 DF 75% DF	1.5-4 lb/A	66.* Limit 25.6 lb/A/season
		Penncozeb 80 WP 80% WP	1.5-4 lb/A	66.* Limit 24 lb/A/season
Black rot, downy mildew, powdery mildew, Phomopsis	Mancozeb + copper hydroxide	ManKocide 15%+46.1% DF	2.5 lb/A	66*
Black rot, downy mildew, Phomopsis cane and leafspot,	Ziram	Ziram 76 DF 76% DF	3-4 lb/A	21.* Limit 28 lb/A/season
ripe rot		Ziram Granuflo 76% WDG	3-4 lb/A	21.* Limit 28 lb/A/season
Downy mildew, powdery mildew, black rot suppression	Copper salts of fatty and rosin acids	Tenn-Cop 5 E 58% L	4-6 pt/A	0.* Some varieties are sensitive.

MAYHAW				
Disease	Chemical	Formulation	Rate	Remarks
Scab, sooty blotch, fly speck, powdery mildew, bitter rot	Trifloxystrobin	Flint 50% WDG	2-3 oz/A	14.* Limit 11 oz/A/season and 3 consecutive applications
Scab, powdery mildew, rust suppression	Kresoxim- methyl	Sovran 50% WDG	4-6.4 oz or 1-1.6 oz/100 gal	30.* Limit 25.6 oz/A/season
Rust, scab, powdery mildew	Myclobutanil	Nova 40 W 40% WSP	3-6 oz/A or 2 oz/100 gal`	14.* Do not apply more than 5 lb/A/season.
Fire blight	Fosethyl-Al	Aliette WDG 80% WDG	2.5-5 lb/A	Apply before or during bloom.

PEA	CH, PLUI	M, NECTAR	INE

Disease	Chemical	Formulation	Rate	Remarks
Brown rot, peach scab, plum black knot, powdery mildew	Thiophanate methyl	Topsin M 70 WP 70% WP	1.5-2.25 lb/A	1.* See resistance management section on label.
. ,		T-Methyl 70 W WSB 70% WP	1.5-2.25 lb/A	1.* See resistance management section on label.
Brown rot, Rhizopus rot	Dicloran	Botran 75 W 75% WP	1.3-5.3 lb/A	10.* Make 2 preharvest applica- tions. Not cleared on plums for preharvest.
		Allisan 75% WP	1-2.3 lb/A	Post-harvest treatment
Scab, leaf curl, coryneum blight, blossom blight	Chlorothalonil	Bravo Weather Stik 54% F	3.12-4.12 pt/A	Shuck split*
black knot on plum		Bravo Ultrex 82.5% WDG	2.8-3.8 lb/A	Shuck split*
		Echo 720 54% L	3.12-4.12 pt/A	Shuck split*
		Echo 90 DF 90% DF	2.2-3.5 lb/A	Shuck split*

	PE	ACH, PLUM, NECTA	ARINE (continued)	
Disease	Chemical	Formulation	Rate	Remarks
Scab, leaf curl, coryneum blight, blossom blight, black	Chlorothalonil (continued)	Equus 720 54% L	3.12-4.12 pt/A	Shuck split*
knot on plum (continued)		Equus DF 82.5 % DF	2.8-3.8 lb/A	Shuck split*
Brown rot, scab, coryneum blight	Captan	Captan 50 Wettable Powder 50% WP	4-8 lb/A	0.* Limit 48, 54, 64 lb/A/season for nectarines, plums and peaches, respectively
		Captan 80 WP 80% WP	2.5-5 lb/A	0.* Limit 30, 33, 40 lb/A/season for nectarines, plums and peaches, respectively
		Captec 4 L 38.2 % F	2-4 qt/A	0.* Limit 24, 27, 32 lb/A/season for nectarines, plums and peaches, respectively
		Captan 50 W 50% WP	4-8 lb/A	0.* Limit 48, 54, 64 lb/A/season for nectarines, plums and peaches, respectively
		Captan 4 L 37.6% L	2-4 qt/A	0.* Limit 24, 27, 32 lb/A/season for nectarines, plums and peaches, respectively
Brown rot, leaf spot, powdery mildew, rust	Tebuconazole	Elite 45 DF 45% DF	4-8 oz/A	0.* Limit 3 lb/A/season. Not cleared on plums
Brown rot, scab	Febuconazole	Indar 75 WSP 75% WSP	2 oz/A	0.* Limit 1 lb/A/season. Not cleared on plums
	lprodione	Rovral Brand 4 41.6% L	1-2 pt/A	Limit 2 applications/season. Do not apply after petal fall.
		lprodione 4 L 41.6% L	1-2 pt/A	Limit 2 applications/season. Do not apply after petal fall.
Bacterial spot, peach leaf curl, brown rot blossom blight, black knot on plum	Copper hydroxide (Use primarily as a dormant treat- ment - no active	Kocide 101 77% WP	8-16 lb/A	21.* Apply as a dormant spray. For bacterial spot on peaches and nec- tarines, use 1 lb/A at first and second cover sprays.
	leaves on tree)	Kocide DF 61.4% DF	8-16 lb/A	21.* Apply as a dormant spray. For bacterial spot on peaches and nectarines, use 1 lb/A at first and second cover sprays.
		Kocide 4.5 LF 37.5% L	5.3-10.6 pt/A	21.* Apply as a dormant spray. For bacterial spot on peaches and nectarines, use 0.6 pt/A at first and second cover sprays.
		3 lb Copper 37.5% L	0.66-2.66 gal/A	21.* Apply as a dormant spray. For bacterial spot on peaches and nectarines,use 0.66 pt/A at first and second cover sprays.
		Nu-Cop 50 DF 77% DF	8-16 lb/A	21.* Apply at leaf fall or as a dormant spray. For bacterial spot on peaches and nectarines, use 1 lb/A at first and second cover sprays.
		Nu-Cop 3 L 37.5% L	0.6-2.6 gal/A	21.* Apply at leaf fall or as a dormant spray. For bacterial spot on peaches and nectarines, use 0.6 pt/A at first and second cover sprays.

		ACH, PLUM, NECT	ARINE (continued)	
Disease	Chemical	Formulation	Rate	Remarks
Bacterial spot, peach leaf curl, brown rot blossom blight, black knot on plum (continued)	Copper hydroxide (continue)	KOP- Hydroxide 37.5% L	10.66-21.3 pt/A	21.* Apply at leaf fall or as a dormant spray. Not cleared on plums. For bacterial spot, use 0.33 pt/100 gal at first and second cover spray.
		KOP-Hydroxide 50 77% WP	8-16 lb/A	21.* Apply at leaf fall or as a dormant spray. For bacterial spot, use 1 lb/A at first and second cover sprays.
		Champion WP 77% WP	8-16 lb/A	Apply at leaf fall or as a dormant spray.
		Champ Formula 2 37.5% L	5.3-10.66 pt/A	Apply at leaf fall or as a dormant . spray
Bacterial spot, leaf curl, brown rot blossom blight	Copper oxychloride	Microsperse COC 53 WP 91.4% WP	8-16 lb/A	21.* Apply as a dormant spray. For bacterial spot on peaches and nectarines, use 1 lb/A at first and second cover sprays.
	Copper oxychloride + basic copper sulfate	C-O-C-S WDG 74.8%+14.2% WDG	12-16 lb/A	Apply at bloom and dormant stages.
	Basic copper sulfate	Cuprofix Disperss 36.9% L	2-15 lb/A	Do not apply after shuck split.
		Basicop 53% WP	4-5 lb/100 gal	Apply as a dormant spray.
		Basic Copper "53" 98% WP	16-25 lb/A	Apply as a dormant spray. For black knot on plum, add hydrated lime. See label.
Brown rot, powdery mildew, rust	Myclobutanil	Nova 40 W 40% WSP	2.5-6.0 oz/A	0.* Limit 2.75 lb/A/season for plum 3.25 for peach and nectarine.
Brown rot	Propiconazole	Orbit 41.8% L	4 oz/A	0.* Limit 2 preharvest sprays. Limit 12 oz/A from early bloom through petal fall.
		PropiMax EC 41.8 % EC	4 oz/A	0.* Limit 2 preharvest sprays. Limit 12 oz/A from early bloom through petal fall.
	Fenhexamid	Elevate 50% WDG	1-1.5 lb/A	0.* Limit 6 lb/A/season
Brown rot, blossom blight	Cyprodinil	Vangard WG 75% WSG	5 oz/A	Limit 2 applications/A/season
Peach scab, brown rot, peach leaf curl	Ziram	Ziram 76 DF 76% DF	4.5-8 lb/A	14.* Limit 72 lb/A/season. Not cleared on plums
		Ziram Granuflo 76% WDG	3.75-8 lb/A	14.* Limit 72 lb/A/season. Not cleared on plums
Bacterial spot	Oxytetracycline	Mycoshield 31.5% WP	12 oz/100 gal	3 weeks.* Do not exceed 500 gal spray solution/A. Not cleared on plums
	Dodine	Syllit 65 W 65% WP	2 lb+4 lb Captan 50 W/A	15.* Do not mix with solvent insecticide formulations. Must be mixed with Captan to prevent injury. Not cleared on nectarines and plums
Scab, powdery mildew, brown rot	Sulfur	Liquid Sulfur Six 52% L	0.66-3.5 pt/ 100 gal	0.* Discoloration may occur on mature nectarines.
		Sulfur 6L 52% L	0.75-5 gal/A	0.* Discoloration may occur on mature nectarines.

PEACH, PLUM, NECTARINE (continued)				
Disease	Chemical	Formulation	Rate	Remarks
Scab, powdery mildew brown rot (continued)	Sulfur (continued)	Sulfur Flowable 6 52% F	0.75-5 gal/A	0*
		That Flowable Sulfur 52% L	0.66-3.75 pt/ 100 gal	0*
		EM-53 Red Ball 53% L	0.66-3.5 pt/ 100 gal	0.* Discoloration may occur on mature nectarines.
		Sulfur 90 W 90% WP	8-26 lb/A	0*
		Sulfur DF 80% DF	10-20 lb/A	0*
		Micro Sulf 80% WP	10-20 lb/A	0.* Do not apply to apricots.
		Microthiol Disperss 80% WP	10-20 lb/A	0.* Do not apply to apricots.
		Microsperse Wettable Sulfur 90% WP	30 lb/A	0*
Brown rot, powdery mildew	Basic copper sulfate + sulfur	Top Cop with Sulfur 8.4+50% L	0.5-1.88 qt/ 100 gal	0*
Peach scab, brown rot, anthracnose, powdery mildew, shot hole, leaf rust	Azoxystrobin	Abound 22.9% L	11-15.4 oz/A	0.* Limit 4 applications/season
Phytophthora crown and root rot	Mefenoxam	Ridomil Gold EC 49% L	2 qt/A	Limit 3 applications/year
Brown rot, leaf curl, scab, rhizopus rot	Thiram	Thiram Granuflo 75% WP	3.9-5.1 lb/A	7*
Scab, powdery mildew	Trifloxystrobin	Flint 50% WDG	2-4 oz/A	1.* Limit 4 applications/season
Brown rot, Botrytis, Rhizopus, Gilbertella rot	Fludioxonil	Scholar 50% WP	8-16 oz/100 gal	Post-harvest treatment. Treats 200,000 lb.

PEAR					
Disease	Chemical	Formulation	Rate	Remarks	
Scab, powdery mildew, fly speck, sooty blotch, fruit rots	Trifloxystrobin	Flint 50% WDG	2-3 oz/A	14.* Limit 11 oz/A/season and 3 consecutive applications	
Fire blight	Copper hydroxide	Kocide 101 77% WP	1 lb/A	Apply through bloom period on 5-day intervals.	
		Kocide DF 61.4% DF	1 lb/A	Apply through bloom period on 5-day intervals.	
		Kocide 4.5 LF 37.5% L	0.6 pt/A	Apply through bloom period on 5-day intervals.	
		3 lb Copper 37.5% L	0.66-1.33 pt/A	Apply during bloom period.	
		Nu-Cop 50 DF 77% DF	1 lb/A	Apply during bloom period.	
		Nu-Cop 3L 37.5% L	0.6-1.3 pt/A	Apply during bloom period.	
		KOP-Hydroxide 37.5% L	0.33 pt/100 gal or 1.33 pt/A	Apply through bloom period.	
		KOP-Hydroxide 50 77% WP	1 lb/A	Apply through bloom period.	

Streptomycin sulfate31.5% WP(200 ppm spray solution)Streptomycin sulfateAgri-mycin 17 22.4% WP24-48 oz/A30*Streptrol 21.3% WP24-48 oz/A30*As-50 65.8% WP8-16 oz/A30*Basic copper sulfateBasic Copper *53" 98% WP2 lb/AApply during b varieties are se Cuprofix Disperss 36.9% WPMancozeb + oxychloride + basic copper sulfateMankocide 15%+46.1% DF1.5 lb/AApply during b varieties are se Cuprofix Disperss 36.9% WPMancozeb + rotoxychloride + basic copper sulfateCo-C-C-S WDG 74.8%+14.2% WDG1-2 lb/AApply during b varieties are se cuprofix Disperss 36.9% WPFire blight, Bulls eye Basic copper sulfateAliette WDG 75% WG2.5-5 lb/AApply before o with another fu harvest.ScabCyprodinil 75% WGVangard WG 75% WG3-5 oz/A72.* Do not ap with another fu mowith another fu f5% DFRusts, scab, Fabrea leafspotMancozeb 75% DF3 lb/A77.* Limit 21 lt 75% DFDithane F-45 37% L2-4 qt/A77.* Limit 21 lt 75% DFDithane F-45 37% L3 lb/A77.* Limit 21 lt 75% DFPenncozeb 80 WP 80% WP3 lb/A77.* Limit 21 lt 75% DF	
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75% DF Penncozeb 80 WP 3 lb/A v Limit 21 lb/A 80% WP	n/A/season
80% WP	lb/A/season
	season
Manex II 37% L 2.4 qt/A 77.* Limit 16.8	qt/A/season
Powdery mildew, scab Sulfur Sulfur DF 80% DF 10-20 lb/A 0.* Some varie	ties are sensitive.
Microthiol Disperss 10-20 lb/A 0.* Some varie 80% WP	ties are sensitive.
Sulfur 6L 52% L 1.5-5 gal/A 0*	
80% WP	ties are sensitive.
Liquid Sulfur Six 0.75-3.5 pt/ 0* 52% L 100 gal	

PEAR (continued)				
Disease	Chemical	Formulation	Rate	Remarks
Powdery mildew scab (continued)	Sulfur (continued)	Sulfur 90W 90% WP	8-26 lb/A	0.* Some varieties are sensitive.
		Sulfur Flowable 6 52% L	0.75-5 gal/A	0*
		Microsperse Wettable Sulfur 90% WP	15-30 lb/A	0*
		That Flowable Sulfur 52% L	1-12 pt/100 gal	0*
Scab, powdery mildew, rust	Triflumizole	Procure 50 WS 50% WS	8-16 oz/A	14.* Limit 64 oz/A/season
	Fenarimol	Rubigan EC 12% L	8-12 oz/A	30.* Limit 84 oz/A/season. Do not apply until after petal fall.
	Ziram	Ziram 76 DF 76% DF	6-8 lb/A	14.* Limit 56 lb/A/season
		Ziram Granuflo 76% WDG	6-8 lb/A	14.* Limit 56 lb/A/season
Scab, powdery mildew, rust suppression	Kresoxim- methyl	Sovran 50% WDG	4-6.4 oz/A	30*
Powdery mildew	Triadimefon	Bayleton 50% 50% DF	2-8 oz/A	45.* Limit 24 oz/A/season
Storage rots	Captan	Captan 50 Wettable Powder 50% WP	2.5 lb/100 gal	Post-harvest dip or spray
		Captec 4 L 38.2% L	1.25 qt/100 gal	Post-harvest dip or spray
		Captan 50 W 50% WP	2.5 lb/100 gal	Post-harvest dip or spray
		Captan 80 WP 80% WP	1.6 lb/100 gal	Post-harvest dip or spray
		Captan 4L 37.6% L	1.25 qt/100 gal	Post-harvest dip or spray
	Thiabendazole	Mertect 340-F 42.3% L	16 oz/100 gal	Post-harvest dip or spray
		Decco Salt No. 19 98.5% L	1-2 bags (575 g/bag)300 gal	Post-harvest dip or spray

PECAN

		PEGAN		
Disease	Chemical	Form	ulation	Rate Remarks
Scab, downy spot, powdery mildew, liver spot plus others	Thiophanate methyl	Topsin M 70 W 70% WP	0.5-1 lb/A	Do not apply after shuck split.
		T-Methyl 70 W WSB 70% WP	0.5-1 lb/A	Do not apply after shuck split.
Scab, anthracnose	Ziram	Ziram 76 DF 76% DF	6-8 lb/A	55.* Limit 64 lb/A/season. Do not graze livestock.
		Ziram Granuflo 76% WDG	6-8 lb/A	55.* Limit 64 lb/A/season. Do not graze livestock.
Scab, brown leafspot, downy spot, powdery mildew, liver spot,	Triphenyltin hydroxide	Super Tin 80 WP 80% WP	5-7.5 oz/A	Do not apply after shuck split. Limit 10 applications/season. Closed cab only
leaf blotch, sooty mold		Agri Tin 80% WP	5-7.5 oz/A	30.* Do not graze livestock. Limit 9 applications/season. Closed cab only

PECAN (continued)				
Disease	Chemical	Formulation	Rate	Remarks
Scab, vein spot, powdery mildew, leaf scorch, leaf blotch, downy spot, Gnomonia	Fenbuconazole	Enable 2 F 23.5% L	8 oz/A	28.* Do not apply after shuck split. Limit 1.5 qt/A/season. Do not graze livestock.
leafspot	Fenbuconazole + triphenyltin hydroxide	Enable/Agri Tin 75% WSP	1 co-pack/5A	30.* Do not apply after shucks have opened. Do not graze livestock.
Scab	Basic copper sulfate	Basicop 53% WP	2 lb/100 gal	Cleared on pecan, but not recom- mended in Texas
	Kreoxim-methyl	Sovran 50% WDG	2.4-4.8 oz/A	45.* Limit 6 applications/A/season
Scab, brown leaf spot, downy spot, powdery mildew, liver spot, sooty mold, leaf blotch, vein spot, zonate leaf spot, fungal leaf spot	Propiconazole + triphenyltin hydroxide	Orbit 45 WP/Super Tin 80 WP 45% WP+80% WP	20 oz/5A Orbit + 25 oz/5 A Super Tin	30.* Closed cab only. Do not graze livestock.
Scab, anthracnose	Azoxystrobin	Abound 22.9% L	9.2-12.3 oz/A	45.* Limit 6 applications/A/season
Scab, liverspot, brown leaf spot, downy spot, leaf blotch	Dodine	Dodine 65 W 65% WP	2-4 lb/A	Do not apply after shuck split. Some varieties are sensitive to injury. Do not graze livestock.
Scab, foliar diseases	Propiconazole	PropiMax 41.8% EC	4-6 oz/A	Do not apply after shuck split. Limit 4 applications/season. Closed cab only. Do not graze livestock.

	STRAWBERRY				
Disease	Chemical	Formulation	Rate	Remarks	
Botrytis, leafspot	Captan	Captan 50 Wettable Powder 50% WP	3-6 lb/A	0.* Limit 48 lb/A/season	
		Captan 80 WP 80% WP	1.9-3.75 lb/A	0.* Limit 30 lb/A/season	
		Captec 4 L 38.2% F	2-3 qt/A	0.* Limit 24 qt/A/season	
		Captan 50 W 50% WP	3-6 lb/A	0.* Limit 48 lb/A/season	
		Captan 4 L 37.6% L	1.5-2 qt/A	0.* Limit 6 gal/A/season	
Leafspot, leaf blight	Copper hydroxide	Kocide 101 77% WP	2-3 lb/A	0*	
		Kocide DF 61.4% DF	2-3 lb/A	0*	
		Kocide 4.5 LF 37.5% L	1.3-2 pt/A	0*	
		KOP-Hydroxide 37.5% L	2.66-4 pt/A	0*	
		KOP-Hydroxide 50 77% WP	2-3 lb/A	0*	
		Nu-Cop 50 DF 77% DF	2-3 lb/A	0*	
		Champion WP 77% WP	2-3 lb/A	0*	
		Champ Formula 2 37.5% L	1.3-2 pt/A	0*	

D'annar	Chamalast	Easterna and a start of the second	Data	Demonstra
Disease	Chemical	Formulation	Rate	Remarks
Leafspot, leaf blight, downy mildew		3 lb Copper 37.5% L	1.33-4 pt/A	0*
		Nu-Cop 3 L 37.5% L	1.3-4 pt/A	0*
Botrytis, leaf spot, Phomopsis, anthracnose (suppression)	lprodione	Rovral Brand 4 41.6% L	1.5-2 pt/A	Limit 1 application/season. Do not apply after first fruiting flower.
		lprodione 4 L 41.6% L	1.5-2 pt/A	Limit 1 application/season. Do not apply after first fruiting flower.
Botrytis, leaf blight, leaf scorch	Thiophanate methyl	Topsin M 70 WP 70% WP	0.75-1 lb/A	1.* See resistance management section on label.
		T-Methyl 70 W WSB 70% WP	0.75-1 lb/A	1.* See resistance management section on label.
Red stele, leather rot (Phytophthora diseases)	Fosethyl-Al	Aliette WDG 80% WDG	2.5-5 lb/A (foliar) 2.5 lb/100 gal (dip)	0.* Limit 30 lb/A/season
	Mefenoxam	Ridomil Gold EC 49% L	1 pt/A	Limit 1.5 qt/A/season
Leafspot	Basic copper sulfate	Basicop 53% WP	2-3 lb/A	Apply pre-bloom and post-harvest
		Cuprofix Disperss 36.9% WP	2.5-5 lb/A	0*
		Basic copper "53" 98% WP	2-3 lb/100 gal	0*
	Copper salts of fatty and rosin acids	Tenn-Cop 5 E 58% L	4-6 pt/A	0*
Leafspot, downy mildew	Copper oxychloride	Microsperse COC 53 WP 91.4% WP	2-3 lb/A	0*
Leafspot, bacterial blight	Copper oxychloride + basic copper sulfate	C-O-C-S WDG 74.8+14.2% WDG	2-4 lb/A	0*
Downy mildew	Basic copper sulfate + sulfur	Top Cop with Sulfur 8.4+50% L	2 qt/A	0*
Leafspot, scorch and blight	Dodine	Syllit 65 W 65% WP	1.5-2 lb/A	14*
Powdery mildew	Sulfur	Liquid Sulfur Six 52%	2 pt/100 gal	0*
		Sulfur 6 L 52% L	5.3-13 pt/A	0*
		Microsperse Wettable Sulfur 90% WP	10 lb/A	0*
		Sulfur DF 80% DF	5-10 lb/A	0*
		Microthiol Disperss 80% WP	5-10 lb/A	0.* Some varieties are sensitive.
		EM-53 Red Ball 53% L	2 pt/A	0*
		Sulfur Flowable 6 52% F	5.33-13 pt/A	0*
		Micro Sulf 80% WP	5-10 lb/A	0.* Some varieties are sensitive.

STRAWBERRY (continued)				
Disease	Chemical	Formulation	Rate	Remarks
Powdery mildew (continued)	Sulfur (continued)	Sulfur 90W 90% WP	5-10 lb/A	0.* Some varieties are sensitive.
		That Flowable Sulfur 52% L	1 pt/A	0*
	Triflumazole	Procure WS 50% WS	4-8 oz/A	1.* See plant back restrictions.
Botrytis	Thiram	Thiram 65 65% WP	4-5 lb/A	3.* Limit 5 applications/season
	Fenhexamid	Elevate 50% WDG	1.5 lb/A	0.* Limit 6 lb/A/season
	Cyprodinil + fludioxonil	Switch 62.5 WG 62.5% WG	11-14 oz/A	0.* Limit 56 oz/A/yr. Do not plant back to other crops for 12 months.
Powdery mildew, leaf spot, leaf blight	Myclobutanil	Nova 40 W 40% WSP	2.5-5 oz/A	0*. Do not apply more than 36 oz/A/season. 30-day plant back restriction.
Anthracnose, leaf spot, powdery mildew, Botrytis suppression only	Pyraclostrobin	Cabrio EG 20% WDG	12-14 oz/A	0.* Limit 5 applications/season.

		WALNU	ЛТ	
Disease	Chemical	Formulation	Rate	Remarks
Walnut blight (bacterial blight)	Copper hydroxide	Nu Cop 50 DF 77% DF	8-12.5 lb/A	0*
		Champion WP 77% WP	8-12.5 lb/A	0*
		Champ Formula 2 37.5% L	5.33-8 pt/A	0*
		3 lb Copper 37.5% L	5.33-17 pt/A	0*
		KOP Hydroxide 37.5% L	10.66-16.66 pt/A	0*
		KOP Hydroxide 50 77% WP	8-12.5 lb/A	0*
		Kocide DF 61.4% DF	8-12.5 lb/A	0*
		Kocide 4.5 LF 37.5% L	5.3-8.3 pt/A	0*
		Kocide 101 77% WP	8-12 lb/A	0*
		Nu-Cop 3 L 37.5% L	5.3-17 pt/A	0*
	Copper oxychloride	Microsperse COC 53 WP 91.4% WP	8-14 lb/A	Apply during bloom and nutlet development.
	Copper oxychloride + basic copper sulfate	C-O-C-S WDG 74.8%+14.2% WDG	12-16 lb/A	0*
	Basic copper sulfate	Basic Copper "53" 98% WP	12-25 lb/A	0*
		Cuprofix Disperss 36.9% WP	10-20 lb/A	0*

WALNUT				
Disease	Chemical	Formulation	Rate	Remarks
Walnut blight (bacterial blight) (continued)	Copper copper sulfate (continued)	Basicop 53% WP	4-5 lb/100 gal	0*
	Basic copper sulfate + sulfur	Top Cop with Sulfur 8.4-50% L	1-3 qt/100 gal	0.* Apply until fruit set.
	Copper salts of fatty and rosin acids	Tenn-Cop 5 E 58% L	4 pt/100 gal	0*
Anthracnose, scab	Dodine	Syllit 65W 65% WP	4 lb/A	0.* Do not graze livestock.
	Azoxystrobin	Abound 22.9% L	11-12.3 oz/A	45*
	Trifloxystrobin	Flint 50% WDG	3-4 oz/A	60*

TRADE NAMES AND COMPANIES

Product

Product

3 lb Copper Abound Agri-mycin 17 Agri Tin Alliette WDG Allisan AS-50 Basicop Basic Copper "53" Bayleton 50% Botran 75 W Bravo Ultrex Bravo Weather Stik C-O-C-S WDG (clean crop) Cabrio Captan 50 W Captan 4 L Captan 50 Wettable Powder Captan 80 WP Captec 4 L Champion WP Champ Formula 2 **Cuprofix Disperss** Decco Salt No. 19 Dithane DF Dithane F-45 Dithane M-45 Dodine 65 W Echo 90 DF Echo 720 Elite 45 DF EM-53 Red Ball Enable 2 F Enable/AgriTin Elevate Equus 720 Equus DF Flint Indar 75 WSP Iprodione 4 L Kocide 101 Kocide DF Kocide 4.5 LF **KOP-Hydroxide** KOP-Hydroxide 50 Lime Sulfur Solution Liquid Sulfur Six Maneb 75 DF

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Issued in furtherance of Cooperative Extension Work in Agriculture and Home Economics, Acts of Congress of May 8, 1914, as amended, and June 30, 1914, in cooperation with the United States Department of Agriculture. Chester P. Fehlis, Director, Texas Cooperative Extension, The Texas A&M University System. Revision