SNUTHON MARNINGLAND	S. ENVIRONMENTAL PROTE Office of Chemical Safety and Poll Office of Pesticide Prog Registration Division (7	ution Prevention grams 504P)	EPA Reg. Number: 64962-5	Date of Issuance:
THINAL PROTECTION	1200 Pennsylvania Ave. Washington, DC 204		Term of Issuance: Conditional	•
	NOTICE OF PESTICIDE: X_Registration Reregistration (under FIFRA, as amended)		Name of Pesticide P ET-F	rodutt:
Name and Address of Regis Earth Science Labor 113 SE 22 <sup>nd</sup> Street, S Bentonville, AR 727	atories, Inc Suite 1	Mailed to: Ms Crystal L Agent for ES C/O Landis I 3185 Madiso PO Box 5126 Valdosta, GA	SL nternational n Highway	•
be submitted to and ac	ing:differing:insubstance from cepted/by.the:Registration-Di sproductalwaysrefer to the	vision prior to use of	the labels in comme	
	rmation furnished by the	e registrant, the a	bove named pes	
hereby registered u Registration is in n product by the Age on his motion, may accordance with th of a product under exclusive use of the The basic and alter above, submitted in	ormation furnished by the inder the Federal Insecti o way to be construed as ncy. In order to protect b at any time suspend or o e Act. The acceptance of this Act is not to be cons e name or to its use if it h nate formulation CSFs da n connection with registr ct is acceptable. The basi	e registrant, the a cide, Fungicide an an endorsement health and the en cancel the registra any name in com trued as giving th as been covered b ated August 14, 20 ration under the F	bove named pes nd Rodenticide A or recommenda vironment, the A ation of a pestici- nection with the le registrant a rig by others. 013 of the produce rederal Insecticio	Act. tion of this Administrator de in registration ght to Ict referred to le, Fungicide,
hereby registered u Registration is in n product by the Age on his motion, may accordance with th of a product under exclusive use of the The basic and alter above, submitted in and Rodenticide Ac	ander the Federal Insecti o way to be construed as ncy. In order to protect l at any time suspend or o e Act. The acceptance of this Act is not to be cons e name or to its use if it h nate formulation CSFs da n connection with registr	e registrant, the a cide, Fungicide an an endorsement health and the en cancel the registra any name in com trued as giving th as been covered b ated August 14, 20 vation under the F c and alternate C	bove named pes nd Rodenticide A or recommenda vironment, the A ation of a pesticion nection with the registrant a rigo oy others. 013 of the produce Gederal Insecticion SFs will be addeo	Act. tion of this Administrator de in registration ght to Ict referred to le, Fungicide, d to your file.
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Notice of Pesticide Registration ET-5 EPA Reg. No. 64962-5 Page 2 of 2

- 2. Make the following change to the label:
  - a. Change the product registration number to "EPA Reg. No. 64962-5"
- 3. Submit one copy of the revised final printed label for the record before the product is released for shipment.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action, including, among other things, cancellation under FIFRA section 6(e). Be aware that you must satisfy the data requirements identified in a Generic Data Call In (GDCI-024401-12268). For more information on these proposed data requirements, see <u>http://www.regulations.gov/#!docketDetail;D=EPA-HQ-OPP-2010-0212</u>. A copy of your label stamped "Accepted" is enclosed for your records.

'Cr Tony Kish

Product Manager (22) Fungicide Branch Registration Division (7504P)

		ACCEPT FEB 24 AND	TED
	MASTER LABEI	LFOR FOR BAD	icide, de Act, cide
· · · · · · · · · · · · · · · · · ·	ET-F	EPA Reg. No. 64969	5
	EPA REG. NO. 64	962-XX	2
for Use	Algicide/Bactericide* on Raw, Citrus and Growing * Non-public health b	Agricultural Commodities	
CTIVE INGREDIE		, , ,	
	ydrate <sup>*</sup> (CAS No. 7758-99-8)	•	19.8%
	ITS		80.2%
*Metallic Copper =	5.0%	•••••	100.0%
	.9 lb. per gallon - 1.188 kg/l.	· ·	
	0.5 lbs/gal metallic copper.		
ET CONTENTS:	ONE (1) U.S. GALLON		
	TWO AND ONE-HALF (2.5)	•	Use Only)
	THIRTY (30) U.S. GALLONS FIFTY-FIVE (55) U.S. GALLO		
	TWO HUNDRED SEVENTY-		
	KEEP OUT OF REACH WARNING - A		
	ot understand this label, find son le la etiqueta, busque a alguien p FIRST AI	para que se la explique a usted	
IF IN EYES:	Remove contact lenses, if pr	wly and gently with water for resent, after first 5 minutes, the ntrol center or doctor for advice	nen continue
		water if able to swallow. Do by a poison control center o	not induce
IF ON SKIN OR CLOTHING:		ng. Rinse skin immediately w minutes. Call a poison contr	
NOTE TO			
NOTE TO PHYSICIAN:	Probable mucosal damage ma	ay contraindicate the use of ga	stric lavage.
PHYSICIAN: Have the product c	Probable mucosal damage ma ontainer or label with you wher nent. You may also contact IN	n calling a poison control cent	er or doctor,

MFG. BY:

Earth Science Laboratories, Inc. 113 SE 22<sup>nd</sup> Street, Suite 1 Bentonville, AR 72712 Phone: 800-257-9283

EPA REGISTRATION NO.: EPA ESTABLISHMENT NO.: BATCH NO.: 64962-X 64962-NE-001

#### PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals WARNING

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield or safety glasses), long sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of any waterproof material. Some materials that are chemical-resistant to this product are polyvinyl chloride, polyethylene and viton. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than ½ of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. Consult with the state or local agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is required.

Certain water conditions including low pH ( $\leq 6.5$ ), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower) and "soft" waters (i.e. alkalinity less than 50 mg/L) increases the potential acute toxicity to non-target aquatic organisms. The application rates on this label are appropriate for water with alkalinity greater than 50 mg/L. Do not use these application rates for water with less than 50 ppm alkalinity (e.g., soft or acid waters) because trout and other species of fish may be killed under such conditions.

Consult your local state fish and game agency before applying this product to public waters. Permits may be required before treating such waters.

#### PERSONAL PROTECTIVE EQUIPMENT USER SAFETY REQUIREMENTS

Mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeved shirt
- Long pants

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- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material (Chemical Resistance Category A)
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

#### **USER SAFETY RECOMMENDATIONS**

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.
- Wash the outside of gloves before removing.

#### **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your state and tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, and nurseries, and mixers, loaders, applicators, and other handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted re-entry interval, and notification to workers. Do not enter or allow worker entry into treated areas during the restricted entry interval of 48 hours. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as soil or water. Wear coveralls, protective eyewear, chemical resistant gloves (i.e. gloves made of any waterproof material) and shoes plus socks.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Workers Protection Standard for agricultural pesticides. 40 CFR part 170. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Do not allow re-entry into treated areas until sprays have dried.

#### **USE INFORMATION**

ET-F is a highly soluble formulation. ET-F is an algicide, bactericide\* and fungicide for use on raw, citrus and growing agricultural commodities.

\* Non-public health bacteria

#### SPECIFIC DIRECTIONS FOR USE

For use as a systemic fungicide/bactericide\* on growing agricultural commodities, the following directions apply.

\* Non-public health bacteria

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#### GENERAL INSTRUCTIONS

ET-F may be applied with any type of application equipment that gives uniform coverage of all foliage, including ground, aerial and low volume sprayers as specified on this label. Equipment used for application should be PVC or 316L stainless steel. ET-F is compatible with most fungal and insecticidal biopesticides when applied at least two (2) days before or after application of the biopesticide.

Phytotoxicity – Although ET-F has been tested on a wide variety of fruits, vegetables and nuts without phytotoxicity, there could be some varieties and cultivars that because of environmental factors-and-stages of-growth-could possibly foster-systems. The-per-acre-use-rate-of ET-F-is-applicable for dilute spraying. Depending on the equipment used and the specific crop, the spray volume applied per acre will differ. Refer to the Minimum Recommended Spray Volume Table. Complete spray coverage is essential to assure optimum performance from ET-F. When treating by aerial application or with low volume 'application equipment, unless you have had specific previous experience, it is advisable to test for compatibility and tolerance to crop injury prior to full scale commercial utilization.

Consult ET-F label for specific rates and timing of application by crop. Where application rates and intervals are provided in a range (e.g., 2-4 fluid ounces and 7 to 10 days) the higher rates and shorter spray time intervals are recommended when rainfall is heavy and/or disease pressure is high. Use the higher rates for large mature tree crops. The use of a surfactant, such as Cell-U-Wett<sup>TM</sup> is acceptable for plants having waxy or hairy surfaces. ET-F works via surface contact with the plants and materials being treated. It is important to ensure that all surfaces are thoroughly wetted. ET-F does not produce any visible residue or have a distinct odor. It does have a residual, especially if applied with a surfactant.

#### **SPECIAL PRECAUTIONS**

- Do not mix with acidic compounds such as Alliette<sup>™</sup> within 14 days before or after application of same.
- This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.
- Environmental conditions such as extended periods of wet weather, acid rain, etc., which alter the pH of the leaf surface may affect the performance of ET-F resulting in possible phytotoxicity or loss of effectiveness.
- Do not mix with pot ash.

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• It must be determined in the selection process if proper application equipment is available and if the waste associated with its use can be properly handled. Materials used on the construction of application equipment is also an important factor as agricultural chemicals are often reactive with soft metals such as aluminum and even some synthetic materials such as plastics, rubbers, etc. Therefore it is necessary when working with equipment containing these materials, that they are thoroughly flushed with clean water after each days use.

#### **GENERAL CHEMIGATION INSTRUCTIONS**

Apply this product only through one or more of the following types of systems: Sprinkler including center pivot, lateral move, end row, side (wheel) roll, traveler, big gun, solid set or hand move: flood (basin); furrow; border or drip (trickle) irrigation and system(s). Do not apply this product through any other type of irrigation systems.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety device for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Posting areas to be chemigated is required when:

- a) Any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds or other public facilities not including public roads, or
- b) Chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive area. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters of at least 2 ½ inches tall, and all letters and the symbol shall be in a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

This sign is in addition to any sign posted to comply with the Workers Protection Standard.

#### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete break (air gap) between the flow outlet end of the fill pipe and the top of the overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of liquid back toward the injection. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when

injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (i.e. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

When mixing, agitation is not necessary. Adjust the pH of the water to 7 or below. If using stickers, spreaders, insecticides, nutrients, etc., add ET-F last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of a wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in the mixtures.

ET-F may be added through a traveling system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. ET-F readily disperses and needs no agitation.

#### **SPRINKLER CHEMIGATION**

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement pump (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

When mixing, agitation is not necessary. Adjust the pH of the carrier water to 7 or below. If using stickers, spreaders, insecticides, nutrients, etc., add the ET-F last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of a wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in the mixtures.

May be added through a traveling irrigation system or at the last 30 minutes of solid set or hand moved irrigation systems. ET-F readily disperses and needs no agitation.

#### FLOOR (BASIN), FURROW AND BORDER CHEMIGATION

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- a) The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination back flow.
- b) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of liquid back toward the injection pump.
- c) The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- d) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement pump (i.e. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. When mixing, agitation is not necessary. Adjust the pH of the carrier water to 7 or below. If using stickers, spreaders, insecticides, nutrients, etc., add the ET-F last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of a wide variety of possible combinations which can be encountered, observe all cautions and limitations on the labels of all products used on the mixtures. ET-F may be added through a

traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. ET-F readily disperses and needs no agitation.

#### DRIP (TRICKLE) CHEMIGATION

The system 'must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of liquid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor pump stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (i.e. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

When mixing, agitation is not necessary. Adjust the pH of the carrier water to 7 or below. If using stickers, spreaders, insecticides, nutrients, etc, add the ET-F last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of a wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in the mixtures. ET-F may be added through a traveling irrigation system continuously or at the last 30 of solid set or hand moved irrigation systems. ET-F readily disperses and needs no agitation.

#### FOR SPRAY AND SOIL DRENCH APPLICATIONS

Always spray for total foliage coverage. When re-spraying the rates and severity of the disease vary with unforeseen conditions. However, in the event of severe disease, spraying intervals can be shortened see 'Minimum Retreatment Interval' column for the shortest interval between applications. At times, lower rates can be as effective as higher rates and should be tried first. Usually, preventive programs may be maintained at lower rates. Use of low volume spraying is effective against Botrytis and not effective against established powdery mildew and Xanthomonas infections. Also, applications on actively growing tissue may be more effective than applications on dormant tissue.

#### GROUND DILUTE **CONCENTRATE\* CROP** AERIAL 125 Citrus 10 30 **Field Crops** 3 20 30 . **Small Fruits** 5 150 30 **Tree Crops** 10 400 50 Vegetables 3 20 30 Vines 5 150 30

#### MINIMUM RECOMMENDED SPRAY VOLUME (GALLONS) PER ACRE WHEN APPLYING ET-F

\*Pesticide application equipment such as Curtec® or other similar sprayers which are capable of obtaining coverage at low volumes may be used at as low as 20 gpa of spray volume.

The following specific instructions are based on general application procedures. The recommendations of the State Extension Service should be closely followed as to timing, frequency and numbers of sprays per season.

#### FROST INJURY PROTECTION BACTERIAL ICE NUCLEATION INHIBITOR

Application of ET-F made to all crops listed on this label at rates and stages of growth indicated on this label, at least 24 hours prior to anticipated frost conditions, will afford control of ice nucleating bacteria (Pseudomonas syringae, Erwinia herbicola and Pseudomonas flourescens) and may therefore provide some protection against light frost. Not recommended for those geographical areas where weather conditions favor severe frost.

The chart below is used to calculate correct ppm\* of active ingredient (A.I.) per volume of carrier water. These volumes can be used for either conventional or concentrated sprays.

PPMs* of	30 Gallons	50 Gallons	100 Gallons	125 Gallons	250 Gallons	500 Gallons
A.I.	per Acre	per Acre	per Acre	per Acre	per Acre	per Acre
50			12.8 fl. oz.	16 fl. oz.	32 fl. oz.	64 fl. oz.
75			19.2 fl. oz.	24 fl. oz.	48 fl. oz.	96 fl. oz.
100		_	25.6 fl. oz.	32 fl. oz.	64 fl. oz.	1 gal.
125		16.0 fl. oz.	32.0 fl. oz.	40 fl. oz.	80 fl. oz.	1.25 gal.
150		19.2 fl. oz.	38.4 fl. oz.	48 fl. oz.	96 fl. oz.	1.5 gal.
200	16.0 fl. oz.	25.6 fl. oz.	51.2 fl. oz.	64 fl. oz.	1 gal.	2 gal.
250	19.2 fl. oz.	32.0 fl. oz.	64.0 fl. oz.	80 fl. oz.	1.25 gal.	2.5 gal.

### AMOUNT OF ET-F PER VOLUME OF WATER FOR PROPER PPM\* OF APPLIED ACTIVE INGREDIENT (as Copper)

\* ppm = parts per million (of copper)

Low volume sprayers should use a minimum of 16 ounces for complete coverage.

Young fruit may require additional applications. Nur and timing of applications will be dependent on disea pressure. Under heavy pressure, each new flush of	•	Grapefruit,	Kumquat, Lemoi	n, Lime, Orange, Tangelo, Tangerine
Greasy Spot, Pink Pitting25.6-64Apply during mid-summer.Scab25.6-64Apply shortly before trees begin to flush. Re-apply at 2/3 petal fall. Re-apply 4 weeks later, if necessary.Melanose12.8-647Canker (Suppression)12.8-647Spray flushes 7 to 14 days after shoots begin to grow Young fruit may require additional applications. Nur and timing of applications will be dependent on disea 	Disease		retreatment	Instructions
Pink Pitting7Scab25.6-64Apply shortly before trees begin to flush. Re-apply at 2/3 petal fall. Re-apply 4 weeks later, if necessary.Melanose12.8-64Apply 2 times per year (applications must be 7 days apart) before onset of spring and autumn rains.Canker (Suppression)12.8-647Pink Pitting7Spray flushes 7 to 14 days after shoots begin to grow Young fruit may require additional applications. Nur and timing of applications will be dependent on disea pressure. Under heavy pressure, each new flush of	Brown Rot	30-70	7	
Scab25.6-64Apply shortly before trees begin to flush. Re-apply at 2/3 petal fall. Re-apply 4 weeks later, if necessary.Melanose12.8-647Canker (Suppression)12.8-6477Spray flushes 7 to 14 days after shoots begin to grow Young fruit may require additional applications. Nur and timing of applications will be dependent on disea pressure. Under heavy pressure, each new flush of	-	25.6-64	7	Apply during mid-summer.
Melanose12.8-64Apply 2 times per year (applications must be 7 days apart) before onset of spring and autumn rains.Canker (Suppression)757Spray flushes 7 to 14 days after shoots begin to grow Young fruit may require additional applications. Nur and timing of applications will be dependent on disea pressure. Under heavy pressure, each new flush of		25.6-64	7	at 2/3 petal fall. Re-apply 4 weeks later, if
(Suppression)7Spray flushes 7 to 14 days after shoots begin to grow Young fruit may require additional applications. Nur and timing of applications will be dependent on disea pressure. Under heavy pressure, each new flush of	Melanose	12.8-64	7	Apply 2 times per year (applications must be 7 days
be sprayed with a minimum dosage of 250 ppm with follow up spray after 7 to 14 days.		12.8-64	7	growth should be sprayed. Heavily infected trees should be sprayed with a minimum dosage of 250 ppm with a

\*\* Maximum Annual Load of metallic copper applied per growing season per acre

Crop	Disease	Rate/Acre	Minimum	Instructions
		fl. oz.	retreatment	
			interval (days)	
Alfalfa	Cercospora Leaf Spot,	19.2-32		Apply 30 days before each harvest or
	Leptosphaerulina Leaf Spot		30	earlier if disease threatens. NOTE:
		+		Spray injury may occur with sensitive
		**1.12 lbs.		varieties such as Lahontan.
Corn	Bacterial Stalk Rot	19.2-32		Begin treatment when disease first
(Field Corn,			7	appears and repeat every 7 to 10
Popcorn,		•		days. Use the higher
Sweet corn)		•		rates and shorter spray intervals when
		**4.2 lbs.		conditions favor disease.
Peanut	Cercospora Leaf Spot	19.2-25.6		Begin spraying at 35 to 40 days after
	L L		7	planting or when disease symptoms
				first appear and repeat at 7 to 14 day
				intervals. Reduce sprays to 7 day
				intervals during humid weather. Use
		**4 74 11		the higher rates when conditions favor disease.
	Deula Dilaté Late Dilaté	**4.74 lbs. 19.2-32	ļ	Apply at 5 to 10 day intervals starting
Potato	Early Blight, Late Blight	19.2-32	5	when plants are 2 to 6 inches high in
				locations where disease is light. Add
				up to 32 fl. oz. per acre when disease
				is more severe.
		**25.0 lbs.		
Sugar Beets	Cercospora Leaf Spot	19.2-38.4	<u> </u>	Begin applications when conditions
	· · · · · · · · · ·		10	first favor disease development and
				repeat at 10 to 14 day intervals Use
				higher rates when conditions favor
				disease. Addition of a sticker/spreader
		**7.86 lbs.		is recommended.
Wheat,	Helminthosporium Spot	19.2-25.6		Make First application at early
:			10	
Barley, Oats	Blotch, Septoria Leaf Blotch			heading and follow with second spray
		**1.06 11-	1.	10 days later. Use the higher rates
		**1.06 lbs.		when conditions favor disease.

FIELD CROPS

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\*\* Maximum Annual Load of metallic copper applied per growing season per acre

# SMALL FRUITS

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Crop	Disease	Rate/Acre		Instructions
		fl. oz.	Minimum retreatment interval (days)	
Blackberry (Aurora, Boysen, Cascade, Chehalem,	Anthracnose, Cane Spot, Leaf Spot, Pseudomonas Blight, Purple Blotch, Yellow Rust	High 32	7	Make fall application after harvest. Apply delayed dormant spray after pruning/training in the spring. If needed, agricultural-type spray oil may be added.
Logan, Marion, Santiam, Thornless Evergreen)	Anthracnose, Cane Spot, Leaf Spot, Purple Blotch, Yellow Rust	Low 19.2	7	Apply when leaf buds begin to open and repeat when flower buds show white. If needed, agricultural-type spray oil may be added. NOTE: Crop injury may occur if applied to foliage under certain environmental conditions such as hot or prolonged moist periods. Discontinue applications if signs of crop injury appear.
Blueberry	Bacterial Canker	33-51.2	7	Make application before fall rains and a second application 4 weeks later. Use the higher rates when conditions favor disease.
	Fruit Rot, Phomopsis Twig Blight	25.6-51.2	7	Dormant Application: Begin applications when bloom buds begin to swell. Make additional applications at 7 to 14 day intervals before blooms
Cranberry	Fruit Rot	**8.4 lbs. 51.2	7	Make application in late bloom. Apply one or two additional applications at 7 to 14 day intervals depending on disease severity.
	Rose Bloom	51.2	7	Apply three sprays on 7to 14 day schedule as soon as symptoms are observed.
	Bacterial Stem Canker	51.2	7	Apply post harvest and again in spring at bud swell. Apply one or two additional applications at 7 to 14 intervals depending on disease severity.
	Leaf Blight, Red Leaf Spot, Stem Blight, Tip Blight ( <i>Monilinia</i> )	51.2 **6.3 lbs.	7	Apply delayed dormant spray in the spring. Repeat at 7 to 14 day intervals through pre-bloom.
Currant, Gooseberry	Anthracnose, Leaf Spot	64 **16 lbs.	10	Make initial application after first leaves have expanded. Continue on a 10 to14 day schedule during wet conditions in the spring. Make an additional application after harvest.

Raspberry	Anthracnose, Cane Spot,	High 32		Make fall application after harvest.
	Leaf Spot, Pseudomonas		7	Apply delayed dormant spray after
	Blight, Purple Blotch,		i .	training in the spring. If needed,
· · · · · · ·	Yellow Rust	·····	· · · · · · · · · · · · · · · · · · ·	agricultural-type spray oil may be added.
· ·	Anthracnose, Cane Spot,	Low 19.2		Apply when leaf buds begin to open
	Leaf Spot, Purple Blotch,		7	and repeat when flower buds show
	Yellow Rust			white. If needed, agricultural-type
				spray oil may be added. NOTE: Crop
				injury may occur if applied to foliage
				under certain environmental
				conditions such as hot or prolonged
	· · ·			moist periods. Discontinue
	•			applications if signs of crop injury
		**10.0 lbs.		appear.
Strawberry	Angular Leaf Spot	19.2-25.6		Begin application when plants are
	(Xanthomonas), Leaf Blight,		7	established and continue on a weekly
	Leaf Scorch, Leaf Spot			schedule throughout the season.
				Apply in at least 20 gallons of water.
,				Use the higher rates when conditions
				favor disease. NOTE: Discontinue
				applications if signs of crop injury
	<u> </u>	**8.19 lbs.		appear.

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\*\* Maximum Annual Load of metallic copper applied per growing season per acre

# TREE CROPS

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Disease	Rate/Acre		Instructions
	fl. oz.	Minimum retreatment interval (days)	
Bacterial Blast ( <i>Pseudomonas</i> ), Bacterial Canker, Coryneum Blight (Shot Hole)	51.2-64	7	Make first application before fall rains and a second at late dormant. Use the higher rates when conditions favor disease. If needed, agricultural- type spray oil may be added. For Cherries: Where disease is severe, an additional application shortly after harvest may be required. NOTE: Foliar injury may occur from post-bloom sprays on almonds, especially on NePlus varieties.
Blossom Brown Rot, Coryneum Blight (Shot Hole)	51.2-64 on almond, All others 60-90	5	Apply during early bloom. Do not apply after full bloom or injury may occur. Use the higher rates when rainfall is heavy and disease pressure is high.
Black Knot* (Plum)	32-64	5	Make application at bud swell up to early bloom for early disease suppression. Apply before full bloom. Use the higher rates when rainfall is heavy and disease pressure is high. NOTE: To avoid plant injury, do not use after full bloom.
Cherry Leaf Spot* (Sour Cherries Only)	38.4-64	7	Apply at petal fall as well as 1 to 2 times after petal fall. Use the lower rates where disease infection is light and use the higher rates for a dormant application or where disease infection is moderate to heavy. Do not apply to sweet cherry or the English Morello variety as severe injury will result. NOTE: Moderate to severe injury such as leaf spotting and defoliation may occur from post bloom
	Bacterial Blast ( <i>Pseudomonas</i> ), Bacterial Canker, Coryneum Blight (Shot Hole) Blossom Brown Rot, Coryneum Blight (Shot Hole) Black Knot* (Plum)	fl. oz.Bacterial Blast (Pseudomonas), Bacterial Canker, Coryneum Blight (Shot Hole)51.2-64Blossom Brown Rot, Coryneum Blight (Shot Hole)51.2-64 on almond, All others 60-90Black Knot* (Plum)32-64Cherry Leaf Spot* (Sour38.4-64	fl. oz.Minimum retreatment interval (days)Bacterial Blast (Pseudomonas), Bacterial Canker, Coryneum Blight (Shot Hole)51.2-647Blossom Brown Rot, Coryneum Blight (Shot Hole)51.2-64 on almond, All others 60-905Black Knot* (Plum)32-645Cherry Leaf Spot* (Sour38.4-645

Crop	Disease	Rate/Acre	· ·	Instructions
		fl. oz.	Minimum	
			retreatment	
	· · · · · · · · · · · · · · · · · · ·	-	interval (days)	
Apple	Anthracnose,	51.2-64		Apply before fall rains. Use the
	Blossom Blast,		N/A only one	higher rates when conditions favor
	European Canker		application	disease.
	(Necria), Shoot		permitted per	NOTE: Use on yellow varieties may
	Blast		season.	cause discoloration. To avoid
	(Pseudomonas)			discoloration, pick before spraying.
	Apple Scab, Fire	High		Make application between silver-tip
	Blight	51.2-64	N/A only one	and green-tip. Apply as a full cover
	longin ●	01.2 01	application	spray for early season disease
	•		permitted per	suppression.
			season.	NOTE: Moderate to severe crop
			scason.	injury may occur from late
				application; discontinue use when
		ł	l	
	A	Low		green-tip reaches ½ inch.
	Apple Scab	Low 19.2-32	5	Extended spray schedule where fruit
	Fire Blight	Fire Blight		finish is not a concern: Continued
	Fire Biight	Low 19.2 -25.6	5	applications may be made at 5 to 7
·		Low 19.2 -23.6	5	day intervals between 1/2 inch green-
				tip and first cover spray. NOTE:
				Moderate to severe crop injury may
				result from this extended spray
				schedule. It is not intended for fresh
		,		market apples or for apples where
				fruit finish is a concern as it is likely
				to cause fruit russetting.
	Collar Rot, Crown	32		Mix 100 gallons of water. Apply 4
	Rot		5	gallons of solution as a drench on
				the lower trunk area of each tree.
				Apply in early spring or in fall after
		1		harvest for beast results. Do not
	}	**16.0 lbs.		apply to foliage or fruit.
			1	
	+			
Avocado	Anthracnose,	51.2-64		Apply when bloom buds begin to
	Blotch, Scab		14	swell and continue application at
	1			monthly intervals for five to six
				applications. Use the higher rates
		** 18.9 lbs.		when conditions favor disease.

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Crop	Disease	Rate/Acre fl. oz.	Minimum retreatment	Instructions
	· ·	11. 02.	interval (days)	
Banana	Sigatoka (Black and Yellow)	19.2	7.	Apply by air in 3 gallons of water. If
		-		may be added. Apply on a 7-14 day
				schedulethroughout the wet season.
				Apply at 21 day intervals during dry
				periods.
	Black Pitting	32		Mix 100 gallons of water. Apply to
			7 •	the fruit stem and the basal portion of
			•	the leaf crown. Apply during the first
			•	and second weeks after fruit
		**18.9 lb.	•	emergence.
Cacao	Black Pod	19.2-64	•	Begin applications at the start of the
			14	rainy season and continue while
		**15.75 lbs.		infection conditions persist.
Coffee	Coffee Berry Disease	38.4-64		Apply first spray after flowering and
	(Collectotrichum coffeanum)		14	before onset of long rains and then at
				14 - 28 day intervals until picking.
				Use the higher rates when conditions favor disease.
	Bacterial Blight	38.4-64		Begin spray program before the onset
	(Pseudomonas syringae)	50.4-04	14	of long rainy periods and continue
	(1 seudomonus syringue)			throughout the rainy season at 14 to
				21 day intervals. The critical time for
				spraying to control disease is just
				before, during and after flowering(s),
				especially when coinciding with wet
				weather. Use the higher rates when
				rainfall is heavy and disease pressure
			<u> </u>	is high.
	Leaf Rust (Hemileia	19.2-32		Apply before the onset of rain and
	vastatrix)	1	14	then at 14 - 21 day intervals while the
	· ·			rains continue. Use the higher rates
				when rainfall is heavy and disease
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		**12.6 lbs.		pressure is high.
Coffee	Iron Spot (Cercospora	19.2	14	Use concentrate or dilute spray.
	coffeicola), Pink Disease		14	Begin treatment at the start of wet
	(Corticium salmonicolor)	** 17 6 14		season and continue at monthly
Manaa	Anthroppos	** 12.6 lb. 38.4-64		intervals for three applications.
Mango	Anthracnose	30.4-04	7	Apply monthly after fruit set until harvest. Use t higher rates when
			/	rainfall is heavy and disease pressure
		**18.2 lbs.		
		10.2 105.	ــــــــــــــــــــــــــــــــــــــ	is high.

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19/27

Crop	Disease	Rate/Acre fl. oz.	Minimum retreatment interval (days)	Instructions
Peach, Nectarine	Bacterial Spot	19.2 **18.8 lbs.	5	Post-bloom application applied at first and second cover sprays. NOTE: Do not spray 3 weeks prior to harvest. Use only recommended rates. Spotting of leaves and defoliation may occur from use in cover sprays.
Pear	Fire Blight	19.2 **16 lbs.	5.	Apply 5 day intervals throughout the bloom period. NOTE: Russetting may occur in copper sensitive varieties. Excessive dosages may cause fruit russet on any variety.
Pecan	Kernel Rot, Shuck Rot (Phytophthora cactorum), Zonate Leaf Spot (Cristulariella pyramidalis)	19.2-32	14	For suppression, apply in sufficient water to ensure complete spray coverage at 2 to 4 week intervals starting at kernel growth and continue until shucks open. Use the higher rates and shorter spray intervals if frequent rainfall occurs.
	Ball Moss, Spanish Moss	38.4-64	14	Apply in 100 gallons of water in the spring when ball moss is actively growing, using 1 ½ gallons of spray per foot of tree height. Make sure to wet ball moss tufts thoroughly. The addition of a non-ionic surfactant will improve control. A second
		**8.4 lbs.		application may be required after 12 months.
Pistachio	Botryosphaeria Panicle and Shoot Blight, Late Blight(Alternaria alternata), Septoria Leaf Blight	32-64 **8.4 lbs.	14	Make initial application at bud swell and repeat on a 14 to 28 day schedule. If disease conditions are severe, use the higher rates and shorter spray intervals.
Quince	Fire Blight	19.2 **16.0 lbs.	5	Apply at 5 day intervals throughout the bloom period. Apply adequate water for thorough coverage.
Walnut	Walnut Blight	38.4-64	7	Apply at first spray at early pre- bloom prior to or when catkins are partially expanded. Make additional applications during bloom and early nutlet stage or as needed when frequent rainfall or extended periods of moisture occur. Thorough coverage of catkins, leaves and
		**25.2 lbs.		nutlets is essential for effective control. NOTE: Adequate control may not be obtained when copper tolerant species of <i>Xanthomonas</i> bacteria are present.

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 \*\* Maximum Annual Load of metallic copper applied per growing season per acre

# VEGETABLES

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Crop	Disease	- Rate/Acre- fl. oz.	Minimum retreatment interval (days)	Instructions
Bean (Dry, Green)	Brown Spot, Common Blight, Halo Blight	19.2-25.6	7	For protective sprays, make first application when plants are 6 inches high; repeat on a 7 to 14 day schedule depending on environmental conditions. Use the higher rates for more severe disease.
Beet (Table Beet, Beet Greens)	Cercospora Leaf Spot	**4.74 lbs. 19.2-32	10	Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals. Use the higher
Carrot	Alternaria Leaf Spot,	**7.86 lb. 19.2		rates when conditions favor disease. Begin applications when disease
	Cercospora Leaf Spot	**5.0 lb.	7	first threatens and repeat at 7 to 14 day intervals depending on disease severity.
Celery, Celeriac	Bacterial Blight, Cercospora Early Blight, Septoria Late Blight	19.2 **5.3 lbs.	7	Begin applications as soon as plants are first established in the field, repeating at 7 day intervals depending on disease severity and environmental conditions.

Сгор	Disease	Rate/Acre fl. oz.	Minimum retreatment interval (days)	Instructions
Crucifers (Broccoli, Brussel Sprout, Cabbage, Cauliflower, Collard Greens, Mustard Greens, Turnip Greens)	Black Leaf Spot (Alternia), Black Rot (Xanthomonas), Downy Mildew	19.2-25.6	7	Begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development. Apply at 7 to 10 day intervals. Use the higher rates when conditions favor disease. <b>NOTE:</b> Reddening of older leaves may occur on broccoli and a flecking of wrapper
		**2.65 lbs.		leaves may occur on cabbage.

Cucurbits	Alternia Leaf Spot, Angular	19.2-25.6		Begin applications prior to disease
(Cantaloupe,	Leaf Spot, Anthracnose,		5	development and continue while
Cucumber,	Downy Mildew, Gummy			conditions are favorable for disease
Honeydew,	Stem Blight, Powdery			development. Repeat at 5 to 7 day
Muskmelon,	Mildew, Watermelon			intervals. Use the higher rates when
Pumpkin,	Bacterial Fruit Blotch			conditions favor disease. NOTE:
Squash,	(suppression)			Crop injury may occur from
Watermelon)				application at higher'rates and shorter
,				intervals. Discontinue use if injury
	· ·	**5.25 lbs.		occurs.
Eggplant	Alternaria Blight,	19.2		Begin applications prior to
	Anthracnose, Phomopsis		7	development of disease symptoms.
	1			Repeat sprays at 7 to 10 day intervals
				depending on disease severity.
		**7.9 lbs.		
Okra	Anthracnose, Bacterial Leaf	19.2-32		Begin treatment when disease first
	Spot, Leaf Spots, Pod Spot,		5	threatens and repeat every 5 to 10
	Powdery Mildew			days depending on disease severity.
				Use the higher rates and shorter spray
				intervals when conditions favor
	· · · · · · · · · · · · · · · · · · ·	**5.25 lb.		disease.
Onion, Garlic	Bacterial Blight, Downy	19.2		Begin when plants are 4 to 6 inches
	Mildew, Purple Blotch		7	high and repeat at 7 to 10 day
				intervals depending on disease
				severity. Can cause phytotoxicity to
		**6.0 lbs.		leaves.
Pea	Powdery Mildew	19.2-5.6	_	Begin applications when disease
-			7	symptoms first appear and repeat at
				weekly intervals. Use the higher rates
				when conditions favor disease.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		**3.95 lbs.		
Pepper	Anthracnose, Bacterial Spot,	13-25	2	Begin applications when conditions
	Cercospora Leaf Spot	ļ	3	favor disease development and repeat
				at 3 to 10 day intervals depending on
				disease severity. Use the higher rates
·		**11.05.11		when conditions favor disease.
		**11.85 lbs.		

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Сгор	Disease	Rate/Acre fl. oz.	Minimum retreatment interval (days)	Instructions
Spinach	Anthracnose, Blue Mold, Cercospora Leaf Spot, White Rust	19.2-25.6 **3.95 lbs.	7	Begin application when disease first appears or when conditions favor disease development. Repeat at 7 to 10 day intervals. Use the higher rates when conditions favor disease. <b>NOTE:</b> Flecking may occur on spinach leaves.
Tomato	Anthracnose, Bacterial Speck, Bacterial Spot, Early Blight, Gray Leaf Mold, Late Blight, Septoria Leaf Spot	19.2-32	3	Begin applications when disease first threatens and repeat at 3 to 10 day intervals depending on disease severity. Use the higher rates when conditions favor disease.

		**17.4 lbs.			
	<b>6</b>				
Watercress	Cercospora, Leaf Spot	19.2	7	Begin applications when plants are first established in the field, repeating at 7 to 14 day intervals depending on disease severity. Do not exceed four applications per crop. Apply using ground spray equipment at no less than 50 gallons of spray solution per acre.	
	•	**2.12 lbs.			

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\*\* Maximum Annual Load of metallic copper applied per growing season per acre

# VINES

Crop	Disease	Rate/Acre fl. oz.	Minimum retreatment	Instructions
			interval (days)	
Grape	Black Rot, Downy Mildew, Phomopsis, Powdery Mildew	19.2-32 **20.0 lbs.	3	Begin applications at bud break with subsequent applications throughout the season depending on disease severity. Use the higher rates when conditions favor disease. <b>NOTE:</b> Foliage injury may occur on copper sensitive varieties such as Concord, Delaware, Niagara and Rosette.
Hops	Downy Mildew	19.2 **2.65 lbs.	10	Make crown treatments after pruning, but before training. Additional treatments are needed on 10 day intervals. <b>NOTE:</b> Discontinue use two weeks before harvest.
Kiwi	Erwinia herbicola, Pseudomonas flourescens, Pseudomonas, syrinsae	38.3 **6.3 lbs.	30	Apply with 200 gallons of water per acre. Make applications on a monthly basis. A maximum of three applications may be made.

\*\* Maximum Annual Load of metallic copper applied per growing season per acre

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# MISCELLANEOUS

Сгор	Disease	Rate/Acre fl. oz.	Minimum	Instructions
			retreatment interval (days)	
Atemoya	Anthracnose	25.6-38.4 **12.6 lbs.	7	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease.
Carambola	Anthracnose	**10.5 lbs.	7	Make initial application before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease.
Chives	Downy Mildew	19.2 **2.65 lbs.	7	Begin application when plants are established in the field. Repeat every 7 to 10 days depending on disease conditions.
Dill	Phoma Leaf Spot, Rhizoctonia Foliage Blight	19.2-25.6 **3.95 lbs.	7	Begin applications when plants are first established in the field and repeat at 7-10 day intervals depending on disease severity and environmental conditions. Use the higher rates for severe disease.
Guava	Anthracnose, Red Algae	25.6-38.4 **4.92 lbs.	7	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease.
Litchi	Anthracnose	**4.92lbs.	7	Initial application just before flowering and repeat on a weekly schedule until just before harvest. Use the higher rates for severe disease.
Macadamia	Anthracnose	38.4-64	7	Initiate sprays at first sign of flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease.
	Phytophthora Blight (P. capsici), Raceme Blight (Botrytis cinerea)	38.4-64 **9.44 lbs.	7	Apply dug raceme development and bloom periods. Apply in sufficient water for thorough coverage. Use the higher rates when conditions favor disease.
Mamey Sapote	Algal Leaf Spot	38.4-64 **8.4 lbs.	14	Apply when conditions favor disease development. Repeat on a 14 to 30 day schedule as disease severity and environmental conditions dictate. Use the higher rates when conditions favor disease.

\*\* Maximum Annual Load of metallic copper applied per growing season per acre

#### **APPLICATION RATE FOR GREENHOUSE INJECTION SYSTEMS**

To-control bacteria and fungi in-greenhouse injection systems, use a 0.94 ppm application rate. Mix 0.2 ounces of the concentrated ET-F in one gallon of water and then use this mixture at a ratio of 1 gallon of diluted concentrate to 100 gallons of water.

#### APPLICATION AND HANDLING EQUIPMENT

Application, handling or storage equipment MUST consist of fiberglass, PVC, polypropylene, viton, corrosion resistant plastics or stainless steel. Never use mild steel, nylon, brass or copper around ET-F. Always rinse and clean equipment thoroughly each night with plenty of fresh, clean water.

#### PESTICIDE STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a safe place away from pets and keep out of the reach of children. Store away from excessive heat. ET-F will freeze. Always store ET-F above 32 degrees F (Do Not Freeze). Freezing may cause product separation.



Always keep container closed. Store ET-F in its original container only. Keep away from galvanized pipe, and any nylon storage or handling equipment.

#### DISPOSAL

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess ET-F mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance. In the event of spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

#### **CONTAINER HANDLING**

#### Containers with capacities less than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into

application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure 2 more times. Offer for recycling if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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#### Containers with capacities greater than 5 gallons: '

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container <sup>1</sup>/<sub>4</sub> full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least 1 complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure 2 more times. Offer for recycling if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### Refillable container too large to shake:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure 2 more times. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



#### IMPORTANT READ BEFORE USING LIMITED WARRANTY AND LIMITATION OF REMEDIES

Read the entire Directions for Use, Limited Warranty and Limitation of Remedies (including limitations on liability) before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

The Directions for Use of this product are believed to be adequate and must be followed carefully. <u>However, it is impossible to eliminate all risks associated with the use of this product.</u> Crop injury, \_ ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Earth Science Laboratories, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

To the extent consistent with applicable law, seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under conditions not foreseeable to the seller. To the extent consistent with applicable law, the seller shall not be liable for more than the cost of this product to the buyer and will in no event be liable for any consequential, special or indirect damages connected with the use or handling of this product. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied. Seller makes no warranty for product which has been frozen.

Manufactured by:

Earth Science Laboratories, Inc. 113 SE 22<sup>nd</sup> Street, Suite 1 Bentonville, AR 72712 Phone: 800-257-9283

CLL Changes per EPA request 20140210, 20140220, 20140224