

# SPECIMEN LABEL

# NU-COP<sup>®</sup> 30 HB

FUNGICIDE/BACTERICIDE



#### ACTIVE INGREDIENT:

Copper Hydroxide\* ..... 46.1%

OTHER INGREDIENTS: ..... 53.9%

TOTAL: ..... 100.0%

(\*Metallic Copper Equivalent - 30%)

\*CAS No. 20427-59-2

## KEEP OUT OF REACH OF CHILDREN WARNING /AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

#### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate use of gastric lavage.

**SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND COMPLETE DIRECTIONS FOR USE.**

EPA Reg. No. 42750-281

Manufactured for:

**ALBAUGH, LLC**

1525 NE 36th Street • Ankeny, Iowa 50021

AD012215

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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

# WARNING

May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if inhaled. Do not get in eyes or on clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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## PERSONAL PROTECTIVE EQUIPMENT (PPE)

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Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, PVC and viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

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

1. Long-sleeved shirt and long pants
2. Chemical resistant gloves made of any waterproof material
3. Shoes plus socks
4. Protective eyewear

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

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## USER SAFETY RECOMMENDATIONS

**Users should:**

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and change into clean clothing.
3. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

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## ENGINEERING CONTROL STATEMENT

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When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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## ENVIRONMENTAL HAZARDS

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This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

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## PHYSICAL AND CHEMICAL HAZARDS

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Do not use with, or store near any oxidizing or reducing agents. Hazardous chemical reaction may occur.

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## DIRECTIONS FOR USE

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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 requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and 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 this label about personal protective equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

Notify workers of the application by warning them orally in a manner they can understand.

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 plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

For greenhouse use the restricted entry interval (REI) is 24 hours.

For at least seven days following the application of copper-containing products in greenhouses:

- At least one container or station designed specifically for flushing eyes is available in operating conditions with the WPS-required decontamination supplies for workers entering the area treated with copper-containing products,
- Workers are informed orally, in a manner they can understand:
  - That residues in the treated area may be highly irritating to their eyes,
  - That they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes,
  - That if they do get residues in their eyes, they should immediately flush their eyes with the eye flush container that is located with the decontamination supplies and
  - How to operate the eye flush container or eye flush station.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker 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 enter or allow others to enter until sprays have dried.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, secure, dry area in original container.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray 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.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available. Dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## PRODUCT INSTRUCTIONS

NU-COP® 30 HB may be applied by Air, or by Dilute or Concentrated Ground Sprayers, or Chemigation on crops and at rates given on this label unless specifically prohibited for that crop use. When selecting a use rate for NU-COP® 30 HB, do not apply less than the labeled minimum amount. Under heavy disease pressure or when conditions favor such, use the higher rate and shorter spray intervals specified for each crop. Use the higher rates for large mature tree crops. The per acre use rate is applicable for both dilute and concentrate spraying.

Sufficient spray volume and spray pressure are essential to thoroughly penetrate the plant canopy and give thorough spray coverage. On crops sensitive to copper fungicides use the higher volumes of spray water per acre. When making a concentrate or aerial application without specific experience, it is advisable to test for crop tolerance prior to full scale use.

While volume is important in obtaining full spray coverage, other factors such as foliage density, environmental conditions and spray calibrations, have a greater impact. Always be sure that sprayers are calibrated to spray equipment manufacturer's specifications and environmental conditions are within those required by State and local regulatory authorities.

When using adjuvants or other pesticides in combination with this product, always observe the precautionary statements on the product's label and required days before harvest. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. Sprays of NU-COP® 30 HB may be applied up to 24 hours preharvest due to REI for Worker Protection Standard. Before mixing with other products in spray tank, be sure that products are compatible. If compatibility is in question, use the compatibility jar test before mixing a whole tank.

NU-COP® 30 HB should not be applied in spray water having a pH of less than 6.5 as phytotoxicity may result. Use a buffering agent to increase the pH to 6.5–7.0 if your water source is below 6.5. Also avoid using water having a pH of greater than 9.0 as effectiveness may be reduced. 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 NU-COP® 30 HB resulting in possible phytotoxicity or loss of effectiveness.

Agricultural chemicals may perform in an unpredictable manner when tank mixed, especially where several products are involved. Reduced effect on pests or crop injury may occur. Unless recommended on this label or by state/local expert, it is advisable to test for compatibility and tolerance to crop injury prior to full scale commercial utilization of a new tank mix or tank mixing should not be undertaken.

This product may be reactive on metal and masonry surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray cars, houses, lawn furniture, or other metal surfaces.

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## MIXING INSTRUCTIONS FOR SPRAY APPLICATION

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Fill the spray tank three-fourths to four-fifths full with clean water. Start agitation (NOTE: Proper agitation creates a rippling or rolling action on the liquid surface). Add NU-COP® 30 HB at the recommended rate.

Mix thoroughly and then add enough water to fill spray tank. Maintain sufficient agitation during mixing and during application of sprays to ensure a uniform spray mixture. When tank mixing with other products, follow the mixing sequence below: (1) micronutrients and fertilizers, (2) wettable powders, dry flowables, and water dispersible granules, (3) liquid flowables, (4) emulsifiable concentrates, and (5) adjuvants. Before adding the second pesticide, be sure that the prior product is well mixed and suspended before adding the next ingredient.

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## MINIMUM RECOMMENDED SPRAY VOLUME IN GALLONS PER ACRE (GPA)

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A full dilute spray on tree crops means the maximum amount of spray when uniformly applied that an acre of such trees will hold to the point that excess spray begins to drip off. Thus the dilute spray volume per acre will depend on tree size and leaf surface per acre. The following listed dilute spray volumes is the volume that will generally provide such coverage on average size of full leafed trees. A concentrate spray is a spray applied in less volumes than a dilute. The extent of the concentration varies by equipment used. Thus the following spray volumes for a concentrated spray are the minimum volumes recommended per acre.

Use NU-COP® 30 HB as noted below unless indicated otherwise in the specific crop directions. NU-COP® 30 HB is adaptable to spraying from aircraft and ground spraying equipment. Depending on the equipment used and the specific crop, the volume applied per acre will differ. Refer to recommended volumes below:

	Aerial (gallons of water/A)	Ground (gallons of water/A)	
		Dilute	Concentrate
Vegetables and Field Crops	3	20	–
Small Fruits	5	150	50
Vines	5	150	50
Fruit and Nut Trees*	10	400	50
Citrus	10	800	100 (20 in Florida)**

\*On young fruit trees, use a minimum of 1 gallon spray per acre.

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

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## **CHEMIGATION INSTRUCTIONS**

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Do not apply this product through any irrigation system using aluminum parts or components as damage to the system may occur. Such application is prohibited regardless of whether the irrigation system is flushed with water after use of this product.

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system(s) which contain no aluminum parts or components. Do not apply this product through any other type of irrigation system.

Crop injury or lack of effectiveness can result from non-uniform 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 devices 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.

- A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.
- B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

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## **SAFETY DEVICES**

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- (1) The systems designated above 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 backflow.
- (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- (3) 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.
- (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- (5) 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.
- (6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

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## **SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS**

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Public water systems means a system for the provision to the public of piped water for human consumption if such a 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 physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. 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 the water pressure decreases to the point where pesticide distribution is adversely affected.

For additional instructions on safety precautions refer to statements (2), (3), (4), (6), and (7) in the section on **SAFETY DEVICES**.

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## SPRAY DRIFT MANAGEMENT

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A variety of factors including weather conditions (e.g, wind direction, wind speed, temperature, relative humidity) and the method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticidal drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

### **Droplet Size**

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

### **Wind Speed**

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3–10 mph), and there are no sensitive areas within 250 feet downwind.

### **Temperature Inversion**

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversion or stable atmospheric conditions.

### **Other State and Local Requirements**

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

### **Equipment**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

#### For Aerial Application:

- The boom height must not exceed 75% of the wingspan or 90% of the rotor blade diameter
- Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
- When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for the displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

#### For Groundboom Application:

- Do not apply with a nozzle height greater than 4 feet above the crop canopy.

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## CROPS

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

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## FROST INJURY PROTECTION

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Bacterial Ice nucleation inhibitor – Application of NU-COP® 30 HB 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 fluorescens*) and may thereby provide some protection against light frost. The degree of frost protection will vary with weather conditions and other factors. Not recommended for those geographical areas where weather conditions favor severe frost.

## ALFALFA

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM RETREATMENT INTERVAL	COMMENTS
<p><b>COMMENT</b> Cercospora &amp; Leptosphaerulina Leaf Spots</p>	<p>0.75–1.5</p> <p>(0.23–0.45 lbs of metallic equivalent)</p> <p>(In California not to exceed .75 lbs of product/Acre)</p>	30 Days	<p>Apply 10 to 14 days before each harvest or earlier if disease threatens.</p> <p>Apply with ground or aerial equipment.</p> <p>Spray injury may occur with sensitive varieties such as Lahontan.</p>

**RESTRICTIONS:**

- Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).
- Maximum annual application rate is 3.7 lbs/A (1.11 lbs metallic copper equivalent).

## ALMONDS

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
<p>Dormant and Late Dormant to Pink Bud Season:</p> <p>Bacterial Blast (<i>Pseudomonas</i>)</p> <p>Coryneum Blight (Shot hole)</p> <p>Bacterial Canker</p>	<p>3.5–12.0</p> <p>(1.05–3.6 lbs of metallic equivalent)</p> <p>(In California not to exceed 7 lbs of product/Acre)</p>	7	<p>Make first application before fall rains and a second at late dormant. Use the higher rates when conditions favor disease.</p> <p>If needed, agricultural-type spray oil may be added.</p> <p>Slight leaf injury may occur from post-bloom spray, especially on NePlus varieties.</p>
<p>Bloom/Growing Season:</p> <p>Coryneum Blight (Shothole)</p> <p>Blossom Brown Rot</p>	<p>2.5–3.5</p> <p>(0.75–1.05 lbs of metallic equivalent)</p>	5	<p>Use during the early bloom stage (popcorn).</p> <p>To avoid plant injury, do not use after full bloom.</p> <p>Use the higher rates when rainfall is heavy and disease pressure is high.</p>
<p>Bacterial Blast</p>	<p>0.5</p> <p>(0.15 lbs of metallic equivalent)</p>	14	<p>For bacterial blast control in sprinkler irrigated orchards or where disease is severe, apply post-bloom at 2 week intervals if needed or just before sprinkling.</p>

**RESTRICTIONS:**

- Maximum single dormant application rate is 12.0 lbs/A (3.6 lbs. metallic copper equivalent).
- Maximum single bloom/growing application rate is 3.5 lbs/A (1.05 lbs. metallic copper equivalent).
- Maximum annual application rate is 60.0 lbs/A (18.0 lbs metallic copper equivalent).

## APPLE

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Fall & Late Dormant:  Anthracnose Blossom Blast <i>(Pseudomonas)</i> European Canker Shoot Blast	5.25–8.0  (1.575–2.4 lbs of metallic equivalent)  (In California not to exceed 7 lbs of product/Acre)	Only one dormant application allowed per season	Apply before fall rains. Use on yellow varieties may cause discol- oration. To avoid, pick before spraying.
Between silver-tip and green-tip:  Apple Scab Fireblight	3.5–8.0  (1.05–2.4 lbs of metallic equivalent)  (In California not to exceed 7 lbs of product/Acre)	Only one application allowed per season	<b>ATTENTION:</b> Phytotoxicity may occur from late application. (Discontinue use when green-tip is 1/2 inch.)
Bloom & Growing Season:  Fireblight	0.5–1.0  (0.15–0.3 lbs of metallic equivalent)  (In California not to exceed .75 lbs of product/Acre)	5	Extended spray schedule where fruit fin- ish is not a concern. Continued applications may be made at 5–7 day intervals.  <b>NOTE:</b> Crop injury may occur from extended spray schedule. Not intended for fresh market apples due to possible russetting. The addition of 1–3 lbs of lime per pound of NU-COP® 30 HB may reduce injury.
Crown or Collar Rot <i>(Phytophthora cactorum)</i>	1.75  (0.525 lbs of metallic equivalent)  (See comment)	5	Apply either in early spring or in fall after harvest each year.  Do not use if soil pH is below 5.5 or cop- per toxicity may result.  Mix in 100 gallons of water. Apply 1–4 gallons of suspension as a drench on the lower trunk area of each tree.  Do not exceed the maximum single appli- cation rate of 1.75 pounds of product per acre for growing season use.

**RESTRICTIONS:**

- Maximum single dormant season application rate is 8.0 lbs/A (2.4 lbs. metallic copper equivalent).
- Maximum single silver-tip to green-tip season application rate is 8.0 lbs/A (2.4 lbs. metallic copper equivalent).
- Maximum single growing season application rate is 1.75 lbs/A (0.525 lbs. metallic copper equivalent).
- Maximum annual application rate is 53.3 lbs/A (16 lbs. metallic copper equivalent).

## APRICOTS

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Dormant, Late Dormant, Up to Pink Bud:  Anthracnose  Dead Bud ( <i>Pseudomonas syringae</i> )  Coryneum Blight  European Canker	3.5–7.0  (1.05–2.1 lbs of metallic equivalent)	Only one dormant application allowed per season	Apply before fall rains. Use the higher rates when conditions favor disease. Use on yellow varieties may cause discol- oration. To avoid, pick before spraying.
Bloom, Growing Season:  Coryneum Blight (Shot Hole)  Blossom Brown Rot	3.5–5.0  (1.05–1.5 lbs of metallic equivalent)	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.

**RESTRICTIONS:**

- Maximum single dormant application rate is 7.0 lbs/A (2.1 lbs. metallic copper equivalent).
- Maximum single bloom/growing application rate is 5.0 lbs/A (1.50 lbs. metallic copper equivalent).
- Maximum annual application rate is 60.0 lbs/A (18.0 lbs metallic copper equivalent).

## AVOCADOS

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose Blotch Scab	3.5–5.25  (1.05–1.575 lbs of metallic equivalent)	14	Apply when bloom buds begin to swell. Continue application at 14–28 day inter- vals for 5 to 6 applications. Use higher rate when conditions favor disease.

**RESTRICTIONS:**

- Maximum single application rate is 5.25 lbs/A (1.575 lbs metallic copper equivalent).
- Maximum annual application rate is 63.0 lbs/A (18.9 lbs metallic copper equivalent).

### BANANAS, PLANTAIN

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Sigatoka (black and yellow)	0.75–1.75  (0.225–0.525 lbs of metallic equivalent)  (In California not to exceed .75 lbs of product/Acre)	7	Apply on a 7–14 day schedule throughout the wet season. Apply at 14–21 day intervals during dry periods. Use higher rates and shorter spray intervals when disease pressure higher.
Black Pitting	1.75  (0.525 lbs of metallic equivalent)	7	Dilute in 50–100 gallons of water and apply directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after emergence.

**RESTRICTIONS:**

- Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).
- Maximum annual application rate is 63.0 lbs/A (18.9 lbs metallic copper equivalent).

### BEANS (Dry, Green)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Bacterial Blight (Halo & Common)	0.5–1.5  (0.15–0.45 lbs of metallic equivalent)	7	For protective sprays apply first application when plants are five to six inches high. Apply on 7–14 day schedule depending on local conditions. Use higher rate for more severe disease pressure.
Brown Spot			
Downy Mildew (Not For Use in California)	(In California not to exceed 1.25 lbs of product/Acre)		

**RESTRICTIONS:**

- Maximum single application rate is 1.5 lbs/A (0.45 lbs. metallic copper equivalent).
- Maximum annual application rate is 15.8 lbs/A (4.74 lbs metallic copper equivalent).

### BRAMBLES

**(Aurora, Blackberry, Boysen, Cascades, Chehalems, Dewberry,  
Logan, Marion, Raspberry, Santiam, & Thornless Evergreens)**

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose	1.75	7	Make fall spray application after harvest.
Leaf & Cane Spot	(0.525 lbs of metallic equivalent)		Apply delayed dormant spray after pruning/train- ing in spring.
Purple Blotch			
Yellow Rust	0.75  (0.225 lbs of metallic equivalent)	7	Apply when leaf buds begin to open and repeat when flower buds show white. <b>NOTE:</b> Crop injury may occur if applied to foliage under hot or moist environmental conditions. Discontinue applications if injury noted.

**RESTRICTIONS:**

- Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).
- Maximum annual application rate is 33.3 lbs/A (10.0 lbs metallic copper equivalent).

### BLUEBERRIES

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Bacterial Canker	1.75–3.5  (0.525–1.05 lbs of metallic equivalent)	7	Make first application before the fall rains, preferably the first week in October and a second application 4 weeks later.  Use higher rate when conditions favor disease.
Fruit Rot Phomopsis Twig Blight	1.0–2.25  (0.30–0.675 lbs of metallic equivalent)	7	Dormant application: Begin applications when bloom buds begin to swell. Make additional applications at 7 to 14 day intervals if needed before blooms open.

**RESTRICTIONS:**

- Maximum single application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).
- Maximum annual application rate is 28.0 lbs/A (8.4 lbs metallic copper equivalent).

### CACAO

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Black Pod	0.75–3.75  (0.225–1.125 lbs of metallic equivalent)	14	Begin applications at the start of the rainy season and continue while infection conditions persist.  Sprays should be made as often as 14–21 days in high rainfall areas at varying rates per acre depending on disease severity.  For drier areas where 2 to 4 applications are recommended during critical infection periods and at long intervals, use 2.5–3.75 lbs per acre, according to disease incidence and planting density.

**RESTRICTIONS:**

- Maximum single application rate is 3.75 lbs/A (1.125 lbs metallic copper equivalent).
- Maximum annual application rate is 52.5 lbs/A (15.75 lbs metallic copper equivalent).

### CARAMBOLA

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthraco nose	2.5–3.5  (0.75–1.05 lbs of metallic equivalent)	7	Make initial application just before flowering and repeat on a weekly schedule until just before harvest.  Apply in sufficient water for thorough coverage.

**RESTRICTIONS:**

- Maximum single application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).
- Maximum annual application rate is 35.0 lbs/A (10.5 lbs metallic copper equivalent).

### CARROTS

(In California not to exceed 7 lbs of product/Acre)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Alternaria Leaf Spot	0.75–1.5	7	Begin application when disease first threatens and repeat at 7 to 14 day intervals as needed depending on disease severity.
Carrot Blight (Cercospora leaf spot)	(0.225–0.45 lbs of metallic equivalent)		
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 16.7 lbs/A (5.0 lbs metallic copper equivalent).</li> </ul>			

### CELERY & CELERIAC

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Bacterial Blight	0.75–1.5	7	Apply as soon as plants are first established in the field, then every 7 days or longer depending on severity and weather.
Cercospora Early Blight	(0.225–0.45 lbs of metallic equivalent)		
Septoria Late Blight			
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 17.7 lbs/A (5.3 lbs metallic copper equivalent).</li> </ul>			

### CEREAL GRAINS

(Barley, Millet, Oat, Rye, Sorghum, Wheat)\*

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Septoria Leaf Blotch	0.5–0.75	10	Make first application at early heading and follow with second application 10 days later.  Additions of adjuvants is recommended.
Helminthosporium Spot Blotch	(0.15–0.225 lbs of metallic equivalent)		
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 0.75 lb/A (0.225 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).</li> </ul>			

\*Not For Use in California.

<b>CHERRY</b> (Not For Use in California)			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Dormant, Late Dormant, Up to Pink Bud:  Anthracnose Dead Bud ( <i>Pseudomonas syringae</i> ) Coryneum Blight (Shot Hole) European Canker	3.5–7.0  (1.05–2.1 lbs of metallic equivalent)	7	Make first application before Fall rains and a second at late dormant. Use the higher rates when conditions favor dis- ease. If needed, agricultural type spray oil may be used.  In orchards where the disease is severe a spray should also be applied shortly after harvest.
Bloom & Growing Season:  Brown Rot Blossom, Coryneum Blight (Shot Hole)  Sour Cherries only: Cherry Leaf Spot	2.5–3.5  (0.75–1.05 lbs of metallic equivalent)	5	Apply at during early bloom. Do not apply after full bloom or injury may occur. Use higher rates when rainfall is heavy and disease pressure high.  Sour Cherries only: At petal fall as well as 1 to 2 times after petal fall.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single dormant season application rate is 7.0 lbs/A (2.1 lbs metallic copper equivalent).</li> <li>• Maximum single growing season application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 60.0 lbs/A (18.0 lbs metallic copper equivalent).</li> </ul>			

<b>CHIVES</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Downy Mildew	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)	7	Begin applications when plants are estab- lished in the field. Repeat applications every 7–10 days as dictated by disease conditions.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 8.8 lbs/A (2.64 lbs metallic copper equivalent).</li> </ul>			

<b>CITRUS</b> (Grapefruit, Kumquat, Lemon, Orange, Pummelo, Tangelo, Tangerine & Lime)			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Algal Spot Melanose Scab	1.75–6.3  (0.525–1.89 lbs of metallic equivalent)  (In California not to exceed 5 lbs of product/Acre)	7	Apply as pre-bloom and post-bloom sprays.  Use the higher rates when conditions favor disease.
Greasy Spot Pink Pitting	0.75–2.5  (0.225–0.75 lbs of metallic equivalent)	7	Apply in summer on expanded new flush. Repeat on subsequent flushes where dis- ease pressure is severe. Use the higher rates when conditions favor disease.

**CITRUS (cont.)**

**(Grapefruit, Kumquat, Lemon, Orange, Pummelo, Tangelo, Tangerine & Lime)**

<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Alternaria Brown Spot	1.75–3.5  (0.525–1.05 lbs of metallic equivalent)	7	On susceptible varieties apply when the first spring flush appears and each flush thereafter. Application to fruit should start after two thirds of the petals have fallen and be repeated on a 7 to 21 day schedule if needed. Use the higher rates when conditions favor disease.
Phytophthora Brown Rot Septoria Spot	1.75–6.3  (0.525 – 1.89 lbs of metallic equivalent)  (In California not to exceed 3.5 lbs of product/Acre)	7	Apply beginning in the fall and continuing as needed.  For Brown Rot, apply to skirts of trees to a height of at least 4 feet. Apply also to bare ground one foot beyond skirt.  For control of Septoria Spot or where fruit have already been infected with Brown Rot, apply to entire tree.  Use higher rates when conditions favor disease. <b>NOTE:</b> In California, in areas subject to copper injury, add 1/3 to 1 lb. of high quality lime per lb of NU-COP® 30 HB.
Black Spot (Not For Use in California)	1.0–3.5  (0.3–1.05 lbs of metallic equivalent)	7	Begin treatment prior to or when disease first appears and repeat every 7 to 21 days if needed. Use higher rates and shorter intervals when conditions favor disease.
Citrus Canker (SUPPRESSION ONLY)	1.0–2.5  (0.3–0.75 lbs of metallic equivalent)	7	Spraying flushes 7–14 days after shoots begin to grow.  Young fruit may need additional application. Number and timing of applications will depend on disease pressure.  Under heavy disease pressure, each flush of new growth should be sprayed.
Phytophthora Foot Rot	0.5  (0.15 lbs of metallic equivalent)  (See comment)	(See comment)	Mix with one quart of water, “Tree-Hold” or latex paint. Paint trunks of trees from the soil surface to the lowest scaffold limbs. Apply in May prior to summer rains and/or in the Fall prior to wrapping trees for freeze protection. Treatment serves as protection for up to 1 year but does not cure existing infections.  If maximum single application rate is met before application to all trees within the acre, observe the 7 day interval before treating additional trees. Trunk applications are included in the annual maximum application rate.
Field Nursery Grown  To control melanose, scab, pink pitting, greasy spot, brown rot and for citrus canker (suppression)	1.75–3.5  (0.525–1.05 lbs of metallic equivalent)	7	Apply at 7–28 day intervals if needed depending on disease severity.

**RESTRICTIONS:**

- Maximum single application rate is 6.3 lbs/A (1.89 lbs metallic copper equivalent).
- Maximum annual application rate is 42.0 lbs/A (12.6 lbs metallic copper equivalent).

## COFFEE

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Coffee Berry Disease ( <i>Colletotrichum coffeanum</i> )	2.5–3.5  (0.75–1.05 lbs of metallic equivalent)	14	Apply after flowering and before the start of long rains and then at 14–28 day intervals until picking.  Use the higher rates when rainfall is heavy and disease pressure is high.
Bacterial Blight ( <i>Pseudomonas syringae</i> )		14	Begin spray program before the start of long rains and continue until picking.  The critical time of spraying to control disease is just before, during, and after flowering(s), especially when these times coincide with wet weather.  Use the higher rates when rainfall is heavy and disease pressure is high.
Iron Spot ( <i>Cercospora coffeicola</i> )  Pink Disease ( <i>Corticium salmonicolor</i> )	0.75  (0.25 lbs of metallic equivalent)	14	Use concentrate or dilute spray. Begin treatment at the start of wet season and continue at monthly intervals for three applications.
Leaf Rust	0.75–1.75  (0.25–0.525 lbs of metallic equivalent)	14	Apply before the onset of rain and then at 14–21 day intervals while rains continue.  Use the higher rates when rainfall is heavy and disease pressure is high.

**RESTRICTIONS:**

- Maximum single application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).
- Maximum annual application rate is 42.0 lbs/A (12.6 lbs metallic copper equivalent).

## CORN

(Field, Pop, Seed, Sweet)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Bacterial Stalk Rot  Goss's Wilt (suppression only)*	0.5–2.0  (0.15–0.6 lbs of metallic equivalent)  (In California not to exceed 1.75 lbs of product/Acre)	7	Begin treatment when disease first appears and repeat every 7 to 10 days as needed. Use the higher rates and shorter spray intervals when conditions favor disease.

**RESTRICTIONS:**

- Maximum single application rate is 2.0 lbs/A (0.6 lbs metallic copper equivalent).
- Maximum annual application rate is 14.0 lbs/A (4.2 lb metallic copper equivalent).

\*Not for use in California.

<b>CRANBERRY</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Fruit Rot	3.5  (1.05 lbs of metallic equivalent)	7	Make first application in late bloom. Apply one or two additional applications at 7 to 14 day intervals if needed depending on disease severity.
Rose Bloom			Apply three sprays on 7–14 day schedule as soon as symptoms are observed.
Bacterial Stem Canker			Apply post-harvest and again in spring before bud burst. One or two additional applications at 7 to 14 day intervals may be required depending upon disease severity.
Tip Blight ( <i>Monolinia</i> )  Stem and Leaf Blight  Red Leaf Spot			Apply delayed dormant spray in the Spring. Repeat at 7–14 day intervals as needed through pre-bloom.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 42.0 lbs/A (12.6 lb metallic copper equivalent).</li> </ul>			

<b>CRUCIFERS</b> <b>(Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collard Greens, Kale, Kohlrabi, Mustard Greens, &amp; Turnip Greens)</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Downy Mildew	0.5–0.75  (0.15–0.225 lbs of metallic equivalent)	7	Begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development.
Black Rot ( <i>Xanthomonas</i> )  Black Leaf Spot ( <i>Alternaria</i> )			Apply at 7 to 10 day intervals if needed. Use the higher rates when conditions favor disease.  <b>NOTE:</b> A slight reddening of older leaves may occur on broccoli, and a slight flecking of wrapper leaves may occur on cabbage.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 0.75 lbs/A (0.225 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 8.8 lbs/A (2.64 lbs metallic copper equivalent).</li> </ul>			

## CUCURBITS

(Cantaloupes, Casaba, Chayote, Citron Melon, Cucumber, Gourd, Honeydews, Muskmelons, Pumpkins, Squash, Watermelons & Waxgourd)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Alternaria Leaf Spot Angular Leaf Spot Anthracnose Downy Mildew Powdery Mildew Gummy Stem Blight Watermelon Bacterial Fruit Blotch (suppression)	0.5–1.25  (0.15–0.375 lbs of metallic equivalent)	5	Begin application when conditions are favorable for disease development. Repeat at 5–7 day intervals if needed.  Use higher rates when conditions favor disease.  <b>NOTE:</b> Crop injury may occur from application at higher rates and shorter intervals. Discontinue use if injury occurs.

**RESTRICTIONS:**

- Maximum single application rate is 1.25 lbs/A (0.375 lb metallic copper equivalent).
- Maximum annual application rate is 17.5 lbs/A (5.25 lbs metallic copper equivalent).

## CURRANTS & GOOSEBERRY (Ribes)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose Leaf Spot	4.25  (1.275 lbs of metallic equivalent)	10	Make initial application after first leaves have expanded. Continue on a 10–14 day schedule during wet conditions in the Spring. Make an additional application after harvest.

**RESTRICTIONS:**

- Maximum single application rate is 4.25 lbs/A (1.275 lbs metallic copper equivalent).
- Maximum annual application rate is 53.3 lbs/A (16.0 lbs metallic copper equivalent).

## DILL

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Phoma Leaf Spot Rhizoctonia Foliage Blight	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)  (In California not to exceed 1.25 lbs of product/Acre)	7	Begin applications when plants are first established in the field and repeat at 7–10 day intervals depending upon disease severity and environmental conditions.  Use the higher rates when conditions favor disease.

**RESTRICTIONS:**

- Maximum single application rate is 1.5 lbs/A (0.75 lbs metallic copper equivalent).
- Maximum annual application rate is 13.16 lbs/A (3.95 lbs. metallic copper equivalent).

## CONIFERS

(Douglas Firs, Leyland Cypress, Pine and Spruce, Christmas Tree Plantings and Silviculture Nurseries)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Needlecasts Anthracnose Phomopsis Twig Dieback Needle Blight	0.75–1.75  (0.225–0.525 lbs of metallic equivalent)	7	Begin applications in the spring at the initiation of new growth and repeat at 7–28 day intervals.  Use higher rates when disease pressure is severe or when conditions favor disease.
Lichens	3.5  (1.05 lbs of metallic equivalent)	See comment	Apply once a year as a dormant application before new growth emerges in the spring. The addition of a non-ionic surfactant will improve control. A second application may be required after 12 months.  <b>NOTE:</b> Do not buffer or combine with emulsifiable concentrate insecticides.

**RESTRICTIONS:**

- Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).
- Maximum annual application rate is 66.7 lbs/A (20.0 lbs metallic copper equivalent).

## EGGPLANT

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Alternaria Blight Anthracnose Phomopsis	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)	7	Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals as needed depending on disease severity.

**RESTRICTIONS:**

- Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).
- Maximum annual application rate is 26.3 lbs/A (7.9 lbs metallic copper equivalent).

## FILBERTS (Permitted only in Washington and Oregon)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Bacterial Blight  (Post-Harvest application)	7.0–12.0  (2.1–3.6 lbs of metallic equivalent)  (In California not to exceed 10.5 lbs of product/Acre)	14	Apply as a post-harvest spray. In seasons of heavy rainfall, apply a second spray when three-quarters of leaves have dropped. Add 1 pint of superior-type oil per 100 gallons of water.  Use the higher rates when rainfall is heavy and disease pressure high.
Eastern Filbert Blight			Apply as a dilute spray in adequate water for thorough coverage. Make initial application after harvest in October before heavy winter rains begin. The next application should be made in late February to early March followed by another application 1 month later. If desired, add 1 pint of a sticking agent or superior-type oil per 100 gallons of water.  Use the higher rates when rainfall is heavy and disease pressure high.

**RESTRICTIONS:**

- Maximum single application rate is 12.0 lbs/A (3.6 lbs metallic copper equivalent).
- Maximum annual application rate is 80.0 lbs/A (24.0 lbs metallic copper equivalent).

### GINSENG

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Alternaria Leaf Blight Stem Blight	1.0–1.75  (0.3–0.525 lbs of metallic equivalent)	7	<p>Begin tank mix applications as a tank mix with two pounds of Iprodione 50WP in 100 gallons of water per acre as soon as plants have emerged in spring. Applications should be repeated every seven days until plants become dormant in fall.</p> <p>Apply fungicides at least eight hours before rain, giving the fungicides time to dry on the plants. Use of a spreader-sticker is advised.</p> <p><b>NOTE:</b> Alternaria Leaf and Stem Blight is most severe in humid conditions such as those found in the dense canopies of two to four year old ginseng. Complete and thorough spray coverage is required for control.</p>

**RESTRICTIONS:**

- Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).
- Maximum annual application rate is 17.5 lbs/A (5.25 lbs metallic copper equivalent).

### GRAPES

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Black Rot Powdery Mildew Downy Mildew Phomopsis	0.75–2.0  (0.225–0.6 lbs of metallic equivalent)  (In California not to exceed 1.75 lbs of product/Acre)	3	<p>Begin applications at late dormant up to bud break with subsequent applications throughout the season depending upon disease severity.</p> <p>Use the higher rates when conditions favor disease.</p> <p><b>NOTE:</b> Foliage injury may occur on copper sensitive varieties such as Concord, Delaware, Niagara, and Rosettes. Either test for sensitivity or add 1 to 3 pounds of hydrated lime per pound of NU-COP® 30 HB.</p>

**RESTRICTIONS:**

- Maximum single application rate is 2.0 lbs/A (0.6 lbs metallic copper equivalent).
- Maximum annual application rate is 66.7 lbs/A (20.0 lbs metallic copper equivalent).

### GUAVA

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose Red Algae	1.25–2.0  (0.375–0.6 lbs of metallic equivalent)	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 when conditions favor disease.

**RESTRICTIONS:**

- Maximum single application rate is 2.0 lbs/A (0.6 lbs metallic copper equivalent).
- Maximum annual application rate is 16.4 lbs/A (4.92 lbs metallic copper equivalent).

### HOPS

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Downy Mildew	0.75–1.5  (0.522–0.45 lbs of metallic equivalent)	10	Apply as a crown treatment (after pruning, but before training) as needed. Use the higher rates when conditions favor disease.  After training, additional fungicide treatments are needed at 10 day intervals.  <b>NOTE:</b> Discontinue use 2 weeks before harvest.

**RESTRICTIONS:**

- Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).
- Maximum annual application rate is 8.8 lbs/A (2.65 lbs metallic copper equivalent).

### KIWI

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
<i>Pseudomonas syringae</i> <i>Erwinia herbicola</i> <i>Pseudomonas fluorescens</i>	2.0–4.0  (0.6–1.2 lbs of metallic equivalent)  (In California not to exceed 3.5 lbs of product/Acre)	30	Apply in 200 gallons of water per acre. Make applications on a monthly basis. A maximum of 3 applications may be made. Use the higher rates when conditions favor disease.

**RESTRICTIONS:**

- Maximum single application rate is 4.0 lbs/A (1.2 lbs metallic copper equivalent).
- Maximum annual application rate is 21.0 lbs/A (6.3 lbs metallic copper equivalent).

**LETTUCE, ENDIVE & ESCAROLE**  
(Not For Use in California)

<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Downy Mildew	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)	5	Begin treatment when disease first appears and repeat every 5–10 days as needed to suppress disease.  <b>NOTE:</b> Determine if there is varietal sensitivity prior to use. Injury may occur to sensitive lettuce varieties and under adverse weather conditions. Discontinue use if injury occurs.  <b>NOTE:</b> Flecking and/or yellowing of leaves will occur under certain environmental conditions such as extended periods of moist weather, acid rains, or other conditions favoring reduced pH on leaf surfaces. Injury may be severe enough to reduce crop value. Increasing the volume of spray water may decrease phytotoxicity potential.

**RESTRICTIONS:**

- Maximum single application rate is 1.5 lbs/A (0.45 lb metallic copper equivalent).
- Maximum annual application rate is 26.6 lbs/A (8.0 lbs metallic copper equivalent).

**LITCHI**

<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Anthracnose	1.25–2.0  (0.375–0.6 lbs of metallic equivalent)	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.

**RESTRICTIONS:**

- Maximum single application rate is 2.0 lbs/A (0.6 lbs metallic copper equivalent).
- Maximum annual application rate is 16.4 lbs/A (4.92 lbs metallic copper equivalent).

**LIVE OAK**

(Not For Use in California)

<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Ball Moss	2.5–3.5  (0.75–1.05 lbs of metallic equivalent)	A second application may be required after 12 months	Apply in 100 gallons of water in the spring when ball moss is actively growing, using 1-1/2 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.

**RESTRICTIONS:**

- Maximum single application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).
- Maximum annual application rate is 66.7 lbs/A (20.0 lbs metallic copper equivalent).

### MACADAMIA NUTS

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose	2.5–4.0  (0.75–1.2 lbs of metallic equivalent)	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 higher rates when conditions favor disease.
Phytophthora blight ( <i>P. capsici</i> ) Raceme blight	1.25–2.4  (0.375–0.72 lbs of metallic equivalent)	7	Apply during peak raceme development and bloom period.  Use higher rates when conditions favor disease.

**RESTRICTIONS:**

- Maximum single application rate is 4.0 lbs/A (1.2 lbs metallic copper equivalent).
- Maximum annual application rate is 31.5 lbs/A (9.45 lbs metallic copper equivalent).

### MAMEY SAPOTE

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose Algal Leaf Spot	2.5–3.5  (0.75–1.05 lbs of metallic equivalent)	14	Apply when conditions favor disease development.  Repeat on 14–30 day schedule as disease severity and environmental conditions dictate.  Use higher rates when conditions favor disease.

**RESTRICTIONS:**

- Maximum single application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).
- Maximum annual application rate is 28.0 lbs/A (8.4 lbs metallic copper equivalent).

### MANGO

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose	2.0–6.0  (0.6–1.8 lbs of metallic equivalent)	7	Apply at 7 day intervals after fruit set until harvest. Use the higher rates when rainfall is heavy and disease pressure is high.

**RESTRICTIONS:**

- Maximum single application rate is 6.0 lbs/A (1.8 lbs metallic copper equivalent).
- Maximum annual application rate is 160.0 lbs/A (48.0 lbs metallic copper equivalent).

### OKRA

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose Bacterial Leaf Spot Leaf Spots Pod Spots Powdery Mildew	0.75–1.75  (0.225–0.525 lbs of metallic equivalent)	5	Begin treatment when disease first threatens and repeat every 5 to 10 days or as needed depending on disease severity.  Use the higher rates and shorter spray intervals when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 17.5 lbs/A (5.25 lbs metallic copper equivalent).</li> </ul>			

### OLIVES

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Peacock Spot Olive Knot	3.5–8.0  (1.05–2.4 lbs of metallic equivalent)  (In California not to exceed 5.7 lbs of product/Acre)	30	Apply before winter rains fall.  A second application in early spring should be made if disease is severe.  Use higher rates when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 8.0 lbs/A (2.4 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 60.0 lbs/A (18.0 lbs metallic copper equivalent).</li> </ul>			

### ONION, GARLIC & LEEK

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Purple Blotch Downy Mildew Bacterial Blight	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)	7	Begin when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals as needed depending upon disease pressure.  Can cause phytotoxicity to leaves.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.5 lbs/A (0.45 lb metallic copper equivalent).</li> <li>• Maximum annual application rate is 20.0 lbs/A (6.0 lbs metallic copper equivalent).</li> </ul>			

### PAPAYA

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthracnose	1.75–4.25  (0.525–1.275 lbs of metallic equivalent)	7	Apply before disease appears. Apply at 7 day intervals if needed. The addition of an approved spreader is desirable. Use the higher rates when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 4.25 lbs/A (1.275 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 70.7 lbs/A (21.2 lbs metallic copper equivalent).</li> </ul>			

### PARSLEY

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Bacterial Blight ( <i>Pseudomonas</i> sp.)	1.25–2.00  (0.375–0.6 lbs of metallic equivalent)	10	Begin applications when plants are first established in the field and repeat at 10 day intervals depending upon disease severity and environmental conditions.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 2.0 lbs/A (0.6 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 6.66 lbs/A (2.0 lbs metallic copper equivalent).</li> </ul>			

### PASSION FRUIT

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Anthraxnose	2.5–4.0  (0.75–1.2 lbs of metallic equivalent)	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 when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 4.0 lbs/A (1.2 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 31.46 lbs/A (9.44 lbs metallic copper equivalent).</li> </ul>			

### PEACHES & NECTARINES

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Dormant, Late Dormant, Up to Pink Bud:  Bacterial Blast ( <i>Pseudomonas</i> ) Bacterial Canker Bacterial Spot ( <i>Xanthomonas</i> ) Leaf Curl Coryneum Blight (Shot Hole)	3.5–8.0  (1.05–2.4 lbs of metallic equivalent)  (In California not to exceed 7 lbs of product/Acre)	1	Make first application before Fall rains and second at late dormant. For peach leaf curl, late dormant application must be made before leaf bud swell.  Use the higher rates when rainfall is heavy and conditions favor disease.  If needed, agricultural type spray oil may be added.
Blossom Brown Rot Coryneum Blight (Shot Hole) Leaf Curl	3.5–6.0  (1.05–1.8 lbs of metallic equivalent)  (In California not to exceed 5 lbs of product/Acre)	5	Apply as a full cover spray at pink bud.  Use the higher rates when conditions favor disease.
Bloom & Growing Season:  Bacterial Spot	0.25–0.5  (0.075–0.15 lbs of metallic equivalent)	5	Apply as a post-bloom cover spray. Repeat at 5 day intervals if needed. Do not make more than 6 applications. <b>Note:</b> Spotting of leaves and defoliation may occur from use in cover sprays. Discontinue use if injury occurs.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single dormant season application rate is 8.0 lbs/A (2.4 lbs metallic copper equivalent).</li> <li>• Maximum single growing season application rate is 0.5 lbs/A (0.075 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 60.0 lbs/A (18.0 metallic copper equivalent).</li> </ul>			

PEANUTS			
DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Cercospora Leaf Spot	0.75–1.25  (0.225–0.375 lbs of metallic equivalent)	7	Begin spraying at 35 to 40 days after planting or when disease symptoms first appear an repeat at 7 to 14 day intervals if needed. Reduce sprays to 7 day intervals during humid weather.  Use the higher rates when conditions favor disease. Flowable sulfur may be added.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.25 lbs/A (0.375 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 15.8 lbs/A (4.74 metallic copper equivalent).</li> </ul>			

PEARS			
DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Fall & Late Dormant:  Blossom Blast ( <i>Pseudomonas</i> )	5.25–8.0  (1.575–2.4 lbs of metallic equivalent)  (In California not to exceed 7 lbs of product/Acre)	N/A	Apply before fall rains and again during dormancy before spring growth starts.  Use the higher rates when disease pressure is high or conditions favor disease development.
Bloom & Growing Season:  Fireblight	0.5  (0.15 lbs of metallic equivalent)	5	Extended spray schedule throughout the bloom period where fruit finish is not a concern. Continued applications may be made at 5–7 day intervals.  <b>NOTE:</b> Crop injury may occur from extended spray schedule. Not intended for fresh market apples due to possible russetting. The addition of 1–3 lbs of lime per pound of NU-COP® 30 HB may reduce injury.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single dormant season application rate is 8.0 lbs/A (2.4 lbs. metallic copper equivalent).</li> <li>• Maximum single growing season application rate is 0.5 lbs/A (0.15 lbs. metallic copper equivalent).</li> <li>• Maximum annual application rate is 53.3 lbs/A (16 lbs. metallic copper equivalent).</li> </ul>			

PEAS			
DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Powdery Mildew	0.5–1.25  (0.15–0.375 lbs of metallic equivalent)	7	Begin spray treatment when disease symptoms first appear.  Repeat applications at weekly intervals.  Use the higher rates when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.25 lbs/A (0.375 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 13.16 lbs/A (3.95 lbs metallic copper equivalent).</li> </ul>			

<b>PECANS</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Shuck and Kernel Rot ( <i>Phytophthora cactorum</i> )  Zonate Leaf Spot ( <i>Cristulariella pyramidalis</i> )	0.75–1.75  (0.225–0.525 lbs of metallic equivalent)	14	For suppression, apply in sufficient water for good coverage at 2–4 week intervals starting at kernel growth and continuing until shucks open.  Use the higher rate and shorter intervals if frequent rainfall occurs.
Mosses (Ball & Spanish) Algae* Lichen*  *Not For Use in California	See Comment  (In California: 2.5–3.5 lbs/acre)	Make only one application per year	Mix 1–2 lbs per 100 gallons spray plus spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 28.0 lbs/A (8.4 lbs metallic copper equivalent).</li> </ul>			

<b>PEPPERS</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Bacterial Spot	0.75–1.25  (0.225–0.375 lbs of metallic equivalent)	3	Apply, when disease threatens, in sufficient water to provide adequate coverage.  Use at 3 to 10 day intervals depending on disease severity.  Use the higher rates when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.25 lbs/A (0.375 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 39.5 lbs/A (11.85 lbs metallic copper equivalent).</li> </ul>			

<b>PISTACHIOS</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Botrytis Blight Botryosphaeria Panicle Shoot Blight Septoria Leaf Blight Late Blight (Alternaria)	1.75–4.0  (0.525–1.2 lbs of metallic equivalent)  (In California not to exceed 3.5 lbs of product/Acre)	14	Make initial application at bud swell and repeat on a 14–28 day schedule.  Use higher rates when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 4.0 lbs/A (1.2 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 28.0 lbs/A (8.4 lbs metallic copper equivalent).</li> </ul>			

PLUMS & PRUNES			
DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Dormant, Late Dormant, Up to Pink Bud:  Coryneum blight (Shot hole) Bacterial Canker Bacterial Blast ( <i>Pseudomonas</i> )	3.5–7.0  (1.05–2.1 lbs of metallic equivalent)	7	Apply as a dormant spray. Use the higher rate when rainfall is heavy and/or disease pressure is high.
Bloom & Growing Season:  Blossom Brown Rot Black Knot	1.75–3.5  (0.525–1.05 lbs of metallic equivalent)	5	Make an application at bud swell up to early bloom for early season disease suppression. Apply before full bloom. Use the higher rates when rainfall is heavy and disease pressure is high. <b>NOTE:</b> To avoid plant injury, do not use after full bloom.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single dormant season application rate is 7.0 lbs/A (2.1 lbs metallic copper equivalent).</li> <li>• Maximum single growing season application rate is 3.5 lbs/A (1.05 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 60.0 lbs/A (18.0 lbs metallic copper equivalent).</li> </ul>			

POTATOES			
DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Early & Late Blight	0.5–2.5  (0.15–0.75 lbs of metallic equivalent)  (In California not to exceed 1.75 lbs of product/Acre)	5	Apply at 5 to 10 day intervals if needed starting when plants are 2 to 6 inches high in locations where disease is light. Apply up to 1.75 pounds per acre when disease is more severe. Under conditions of severe disease, control with NU-COP® 30 HB will be improved by tank mixing with other com- patible fungicides registered for use on potatoes. Read and follow all label instructions of tank mix partners.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 2.5 lbs/A (0.75 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 83.3 lbs/A (25.0 lbs metallic copper equivalent).</li> </ul>			

<b>STRAWBERRIES</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Angular Leaf Spot Leaf Blight Leaf Scorch Leaf Spot	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)  (In California not to exceed 1.25 lbs of product/Acre)	7	Begin application when plants are established and continue on a weekly schedule throughout season. Apply in at least 20 gallons of water.  Use the higher rates when conditions favor disease. <b>NOTE:</b> Discontinue applications if signs of phytotoxicity appear.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 27.3 lbs/A (8.19 lbs metallic copper equivalent).</li> </ul>			

<b>SUGAR APPLE (Annona) &amp; ATEMOYA</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Anthraco nose	1.25–2.0  (0.375–0.6 lbs of metallic equivalent)	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.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 2.0 lbs/A (0.6 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 42.0 lbs/A (12.6 lbs metallic copper equivalent).</li> </ul>			

<b>SOYBEAN (Not For Use in California)</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Bacterial Blight Downy Mildew	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)	7	For protective sprays, make first application when plants are 6 inches high, repeat on a 7 to 14 day schedule if needed depending on environmental conditions.  Use the higher rates when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 15.8 lbs/A (4.74 lbs metallic copper equivalent).</li> </ul>			

<b>SUGAR BEETS &amp; TABLE BEETS*</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Cercospora Leaf Spot	0.75–2.0  (0.225–0.6 lbs of metallic equivalent)	10	Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals as needed.  Use the higher rates when conditions favor disease.  Addition of adjuvants are recommended.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 2.0 lbs/A (0.6 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 26.2 lbs/A (7.86 lbs metallic copper equivalent).</li> </ul>			

\*Not For Use in California.

<b>SYCAMORE</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Anthrachnose	0.75–1.25  (0.225–0.375 lbs of metallic equivalent)	7	Apply as a full cover spray in 100 gallons of water or sufficient volume for thorough coverage. Make first application at bud crack and second application 7 to 10 days later at 10% leaf expansion. Use the higher rates when conditions favor disease.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.25 lbs/A (0.375 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 66.7 lbs/A (20.0 lbs metallic copper equivalent).</li> </ul>			

<b>TOMATOES (Processing Market)</b>			
<b>DISEASE</b>	<b>APPLICATION RATE (lbs of product/Acre)</b>	<b>MINIMUM DAYS RETREATMENT INTERVAL</b>	<b>COMMENTS</b>
Early Blight Bacterial Speck Bacterial Spot Anthrachnose Gray Leaf Mold Gray Leaf Spot Septoria Leaf Spot Late Blight	0.75–1.75  (0.225–0.525 lbs of metallic equivalent)	3	When disease threatens, apply at 3–10 day intervals, more frequently when disease is severe.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).</li> <li>• Maximum annual application rate is 58.0 lbs/A (17.4 lbs metallic copper equivalent).</li> </ul>			

### TOMATOES (Fresh Market)

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Early Blight Bacterial Speck Bacterial Spot Anthracnose Gray Leaf Mold Gray Leaf Spot Septoria Leaf Spot Late Blight	0.75–1.75  (0.225–0.525 lbs of metallic equivalent)	3	When disease threatens, apply at 3–10 day intervals, more frequently when disease is severe.

**RESTRICTIONS:**

- Maximum single application rate is 1.75 lbs/A (0.525 lbs metallic copper equivalent).
- Maximum annual application rate is 26.7 lbs/A (8.0 lbs metallic copper equivalent).

### WALNUTS

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Walnut Blight	3.5–8.0  (1.05–2.4 lbs of metallic equivalent)  (In California not to exceed 7 lbs of product/Acre)	7	Apply first spray at early pre-bloom when catkins are partially expanded.  Make three additional applications during bloom and early nutlet stages at 7 to 10 day intervals. Additional applications may be necessary when frequent rainfall occurs.  Thorough coverage of catkins, leaves and nutlets is essential for effective control.  When applied as a dilute spray, 1 pint of summer oil emulsion may be added per 100 gallons of spray.  <b>NOTE:</b> Adequate control may not be obtained when copper tolerant species of <i>Xanthomonas</i> bacteria are present.

**RESTRICTIONS:**

- Maximum single application rate is 8.0 lbs/A (2.4 lbs metallic copper equivalent).
- Maximum annual application rate is 106.6 lbs/A (32.0 lbs metallic copper equivalent).

### WATERCRESS

DISEASE	APPLICATION RATE (lbs of product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENTS
Cercospora Leaf Spot	0.75–1.5  (0.225–0.45 lbs of metallic equivalent)	7	Begin application when plants are first established in the field, repeating at 7–14 day intervals depending on disease severity and environmental conditions.  Do not exceed 4 applications per year.  Apply using ground spray equipment at no less than 50 gallons of spray solution per acre.

**RESTRICTIONS:**

- Maximum single application rate is 1.5 lbs/A (0.45 lbs metallic copper equivalent).
- Maximum annual application rate is 7.0 lbs/A (2.12 lbs metallic copper equivalent).

## GREENHOUSE AND SHADEHOUSE CROPS

**NOTICE TO USER:** NU-COP® 30 HB may be used in greenhouses and shadehouses to control diseases on some crops which appear on this label. The grower should bear in mind that the sensitivity of crops grown in greenhouses and shadehouses differ greatly from crops grown under field conditions. Neither the manufacturer nor seller has determined whether or not NU-COP® 30 HB can be used safely prior to commercial use. In a small area, apply the labelled rates to the plant in question, i.e. foliage, fruit, etc. and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use.

Apply NU-COP® 30 HB according to specific rates given for these crops in pounds per acre or pounds per 100 gallons.

NU-COP® 30 HB should be applied in adequate water for thorough coverage of plant parts. Begin application at first sign of disease and repeat at 7 to 14 day intervals as needed; use shorter interval during periods when severe disease conditions persist.

The Re-entry Interval (REI) for Greenhouse use is 24 hours. Refer to the Agricultural Use Requirements section for notification and PPE requirements for greenhouse use.

CROP	DISEASE	RATE PER 1,000 SQ. FT.	COMMENTS
Eggplant	Alternaria Blight Anthracnose Phomopsis	1/2 TBSP	Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals as needed depending on disease pressure.
Pepper	Bacterial Spot	1/2 to 1-1/2 TBSP	Begin applications when conditions first favor disease development and repeat at 5 to 10 day intervals as needed depending on disease severity. Use higher rates for severe disease.
Cucumber	Angular Leaf Spot Downy Mildew	1/2 to 1-1/2 TBSP	Apply weekly when plants begin to vine.
Tomato	Early Blight Late Blight	1/2 to 1-1/2 TBSP	Begin when disease first threatens and repeat at 3 to 10 day intervals or as needed depending on disease severity. Use higher rate for severe disease.
	Bacterial Speck	1/2 to 1-1/2 TBSP	Begin applications when disease first threatens and repeat at 3 to 10 day intervals or as needed depending on disease severity.
	Bacterial Spot Anthracnose Gray Leaf Mold Septoria Leaf Spot	1/2 to 1-1/2 TBSP	Begin when disease first threatens and repeat at 3 to 10 day intervals or as needed depending on disease severity. Use higher rate for severe disease.

**NOTICE:** To the extent consistent with applicable law, Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on this label when used in accordance with directions under normal conditions of use; but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions not reasonably foreseeable to seller; the buyer assumes the risk of any such use.