



## CEASE® & MilStop® Protocol for Low Volume Sprayers

CEASE® Microbial Fungicide/Bactericide, and MilStop® Broad Spectrum Foliar Fungicide have worked well together as a combination application giving an added boost in controlling pathogens that cause *Erwinia*, *Xanthomonas*, *Pseudomonas*, as well as fungal pathogens that cause *Botrytis*, powdery mildew and other foliar diseases on greenhouse crops and vegetables grown under cover. CEASE/MilStop applications should begin prior to expected disease incidence. Use a spray volume adequate to assure wetting the surfaces of the leaves and stems of the plants. Spray applications should be continued every 1-2 weeks during periods of disease pressure.

### When using low volume mist sprayers, use the following guidelines:

- When using these alternative methods of application, the recommended CEASE concentration is 45 oz./5.5 gal on 10,000 sq.ft. For MilStop, **DO NOT** exceed a concentration of 14 ounces per 5.5 gallon of water. (The maximum solubility of MilStop is 12 ounces per gallon of water – exceeding this amount may result in plugged nozzles.)
- Low volume sprayers have a high degree of efficiency in coverage of leaf and stem surfaces. **DO NOT** apply to the point of runoff to avoid waste of material dripping off the plant.
- When using a low volume sprayer, first determine the proper application volume by spraying the material in a small area. Test the application on a few plants to assure proper coverage.

### When using ultra low volume applicators, use the following guidelines:

- Properly calibrate fogger regularly.
- Ensure that nozzles are clean and not worn so that correct droplet size is applied. Smaller droplets are more desirable in a fogging situation.
- Ensure that all the material is well mixed so application will be uniform throughout.
- Use the maximum amount of water that a given machine allows to help ensure material is completely mixed with water.
- Consider using a carrier solution appropriate to the type of fogger equipment. This will improve atomization and cause less large droplets to fall out in front of the fogger providing more uniform coverage.
- Keep nozzle output from directly contacting the plants. Nozzles should not be aimed directly at crop.

(See rates on next page.)



## **LOW VOLUME SPRAYERS:**

### **Cold-Fogger**

*(Use at least 5.5 gals of spray per 10,000 sq ft)*

**Rate = CEASE 45 ozs plus MilStop 14 ozs in 5.5 gals/ 10,000 sq ft**

## **ULTRA LOW VOLUME SPRAYERS:**

### **Auto-Fogger, Pulse-Fogger & ESS**

*(Use at least 5 gals of spray per 10,000 sq ft)*

**Rate = CEASE 45 ozs plus MilStop 14 ozs in 5.5 gals/ 10,000 sq ft**

NOTE: Mix the solution well to ensure solubility of the active ingredient. A carrier solution may be used if desired.

## **RECOMMENDATIONS:**

The Dramm owner's manual states that you should never use less than 0.5 gallons of water in their foggers no matter how small an area is being fogged to ensure optimum performance of their machines. To help insure plant safety, do not use less than 5.0 gallons of water for fogger applications.

*NOTE: Use caution when making MilStop applications to open blooms, especially on varieties known to be sensitive. It is recommended that a small group of plants be tested for effects on open blooms before making applications to the whole crop.*