

I. Melons (Honeydew)
(*Cucumis melo*, Incorus group)
JH Biotech, Inc., Agronomy Department

Powdery mildew
(*Sphaerotheca fuliginea*)

Control of powdery mildew on Honeydew melons at Beylik Ranch, Fillmore, CA: A field approximately halfway to maturity was used in the trial. Plots were marked out in two rows approximately 100 feet long. Individual treatment plots were 10 feet long by 5 feet across for a total area of 50 square feet per plot. Complete randomized design was used with four treatments at seven day intervals for four weeks and five replications. Temperatures in the field ranged from 50° F at night to 90° F during the day. No rain occurred, but unusually high humidity did occur for this time of year for a period of two weeks during the trial.

Applications were made to the point of runoff using a handpowered backpack sprayer (approx. 50 gal/ac.) in the morning when air temperatures were below 90° F. Data was gathered and recorded weekly using the University of California Pathogenicity rating scale (0-5). Statistical analysis was performed and means separated using the ANOVA and Duncan's Multiple Range Test.

Both GC-3 at 2% and 1% performed very well in this trial. CG-3 at 2% showed a higher degree of control compared to the 1% solution. Note: It was noticed that adequate coverage of the foliage and other infected tissues was essential for good control with GC-3. No phytotoxicity was observed in any of the treatment plots throughout the trial.

GC3 99 - HONEY DEW

