

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

Powdery mildew
(*Sphaerotheca fuliginea*)

Control of powdery mildew on Honeydew melons at Danna & Danna, Inc., Marysville, CA: A field approximately halfway to maturity was used in the trial. 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 45° F at night to 100° F during the day.

Applications were made to the point of runoff using a handpowered backpack sprayer (approx. 50 gal/ac.) in the afternoon when air temperatures were around 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.

The infection rate for the GC-3 treatment plots remained essentially unchanged over the course of the four weeks. All other treatment showed slight increases in infection levels. This indicates that GC-3 has good potential to control powdery mildew when environmental conditions favor the disease.

GC 3 on Honeydew Melon 99

