FIFRA 2(ee) Recommendation

EBDC fungicides (FRAC Group M3) containing mancozeb for Phytophthora blight in cucurbit crops.

Researcher and Title:
Margaret Tuttle McGrath, Associate Professor, Section of Plant Pathology, Cornell University

Pesticide Name and EPA Registration No.:
Dithane DF Rainshield, EPA Reg. No. 62719-402

Target Crop:
Cucumber, melons (cantaloupes, casaba, crenshaw, honeydew), summer squash, watermelon.

Target Pest:
Phytophthora capsici which causes Phytophthora blight in cucurbit crops.

Proposed Application Rate:
2-3 lb/A of Dithane DF Rainshield

Nature of 2(ee) Variation from Product Label:
The label for Tanos (EPA Reg. No. 352-604), a targeted fungicide labeled for Phytophthora blight, specifies that for suppressing this disease “TANOS® must be tank-mixed with a contact fungicide (mancozeb, chlorothalonil; copper, e.g. KOCIDE®, etc.) appropriate for the targeted disease(s).” “For best results suppressing Phytophthora Blight, tank-mix TANOS® with a copper containing fungicide (e.g. KOCIDE®, etc) and maneb or mancozeb containing fungicide.” None of the EBDC fungicides include Phytophthora blight on the label because they do not provide sufficient control of this disease when used alone. Most evaluation studies conducted at University facilities of Tanos have tested it as a tank mix with both copper and EBDC fungicides.

Complete Recommendation as it will appear in Cornell Guidelines:
For suppression of Phytophthora blight in cucurbit crops, Tanos must be tank-mixed with a copper-containing fungicide or mancozeb-containing fungicide. Use both for best results.