

ROSE (*Rosa sp.* ‘Meidomonac Bonica’ PP# 5105)

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**Comparison of products for crop safety on rose, 2013.**

Fungicide treatments were arranged in a randomized complete block design in a block of shrub roses (*Rosa sp.* ‘Meidomonac Bonica’) planted in 2011 on a 5 x 20 foot spacing. Each treatment consisted of 4 single-bush replicates. Fungicides were applied until runoff using a Solo pump-style backpack sprayer. Approximately 0.5 gal of a spray suspension was used per 4 bushes. Fungicides were applied every 7 to 10 days on 22 Mar, 29 Mar, 3 Apr, 11 Apr, 18 Apr, 25 Apr, and 2 May except for the Ortho alternate Ferti-lome treatment which was applied every 2 weeks on 22 Mar, 3 Apr, 18, 2 May. No fertilizer, insecticides or herbicides were applied to these plants. Old canes were pruned and weeds were removed on 4 March. Plants were surveyed for disease and phytotoxicity every week during the trial. The incidence of phytotoxicity was evaluated on 20 May by arbitrarily examining all leaves on 20 floral shoots from each plant.

Spring growing conditions were unusually dry with 3 weeks of warm 80 F weather beginning at the end of April. Black spot, rust or powdery mildew did not develop in the trial. An unusual angular leaf spot consisting of water soaked, collapsed tissue bounded by major leaf veins developed on 22 Apr on widely scattered plants. Spots were most notable on Physan 20 treated plants by 3 May, which looked slightly chlorotic by 13 May. Plants treated with Physan 20 had significantly more leaves with leaf spotting symptom than non-treated plants or plants treated with any other product.

Treatment and Rate/1 gal	Phytotoxicity (% leaves)*
Non-treated.....	28.6 bc
Whole Milk at 0.33 gal.....	32.4 b
M-Pact (5%) at 1.35 fl oz.....	25.4 bc
Physan 20 at 0.35 fl oz.....	62.8 a
Ortho Disease B Gon at 0.2 fl oz alternate every 2 weeks with Ferti-lome Liquid Systemic at 1 fl oz..	15.1 c

\* Means followed by the same letter do not differ significantly based on Fisher’s protected LSD (P=0.05).