LETTUCE (*Lactuca sativa,* cultivar 'Tango')
Downy mildew: *Bremia lactucae*

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FIELD EVALUATION OF CHEMICALS FOR CONTROL OF *BREMIA LACTUCAE* ON LEAF LETTUCE, SANTA MARIA, CA, 2002: The trial was conducted at Babé Farms. Treatments were applied on Oct 22, Nov 1, 11 and 20, 2002. Each treatment was applied to four replications of six plant lines on a 76" bed, 8' long. Chemicals were applied at 50 psi, using a CO_2-powered spray system (R+D, Opelousas, LA) with a spray volume of 60 gallons of water per acre. Plots were rated on Nov 25, 2002, for downy mildew incidence on a 1=no disease to 5=severe leaf spotting and yellowing of mature leaves.

The Oct 22 application was made 20 days after planting and before any disease was present in the trial area. Downy mildew was present at Nov 1 application. All treatments, except Zoxium (0.2 lb. ai), suppressed downy mildew when compared to the untreated control. Reason, Phos Gard, Maneb plus Nutriphite, Zoxium plus Maneb and Blockade provided economic control of lettuce downy mildew in this trial. Reason plus Induce provided superior control of lettuce downy mildew compared to other materials in the trial.

Treatment	Rate/Ac	Disease Rating (1-5)
Reason + Induce	8.2 fl oz + 1 pt	1.5 A [1/]
Reason + Induce	5.5 fl oz + 1 pt	1.5 A
Phos Gard	4 pts	1.6 A B
Maneb + Nutriphite	2 lb + 4 pts	1.6 A B
Maneb + Blockade	2 lb + 1 oz	1.6 A B
Nutriphite	4 pts	1.9 A B
Zoxium + Maneb	0.2 lb.ai + 2 lb	2.2 A B
Blockade	1 oz	2.2 A B
Maneb 75 DF	2 lb	2.5 B
Fosphite	4 pts	2.5 B
Zoxium	0.2 lb.ai	3.4 C
Control	0	3.4 C

LSD 0.7614

[1/] Treatments followed by the same letter are not significantly different at 5% according to Duncan's Multiple Range Test.