

LETTUCE (*Lactuca sativa*, cultivar "Sniper")
Downy mildew: *Bremica lactucae*

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FIELD EVALUATION OF COMPOUNDS FOR CONTROL OF *BREMIA LACTUCAE* ON HEAD LETTUCE, SANTA MARIA, CA 2003: The trial was conducted at Teixeira Farms – Oso Flaco area. Treatments were applied on Aug 19, 29, Sept 8, 16, 2003. Each treatment was applied to four replications of a two-row 40" bed, 15' long. Compounds were applied at 50 psi using a CO₂-powered spray system (R+D, Opelousas, LA) with a spray volume of 80 gals of water per acre. All plots were treated with 7.2 oz/A of Asana on each treatment date. Plots were rated on Sept 24, 2003, for downy mildew incidence by counting downy mildew lesions per 10 heads.

The Aug 19 application was made after thinning and cultivation, 31 days after planting. Downy mildew was present in the trial area, but lesions were sparse. All treatments, except Cuprofix Disperss (21b), suppressed downy mildew when compared to the untreated control. No treatment had a significant (+) effect on head weight. The Cuprofix Disperss treatment caused a marginal leaf burn on the bract leaves and slight midrib russeting on the wrapper leaves of the head.

Treatment	Rate/Ac	Total DM lesions/ 10 head	Ave. Wgt/head/ 10 heads
1. Reason + Bond Alt. Maneb 75	8.2 oz + 1 pt 2 lb	1 a ^{1/}	1044.0 a ^{1/}
2. Reason + Previcur + Bond	4 oz + 12 oz + 1 pt	1 a	1089.6 a
3. Reason + Bond Alt. Maneb 75	5.5 oz + 1 pt 2 lb	1 a	1011.1 a
4. Maneb 75 + B 1956	2 lb + 1 pt	1 a	1115.8 a
5. Verita	809.72 gm	1 a	969.9 a
6. Zoxium + Maneb 75	0.3 lb ai + 2 lb	2 a	1089.6 a
7. TD-2398 + B 1956	3 pt + 1 pt	5 a	1036.9 a
8. Nutriphite	4 pt	9 a	1004.8 a
9. Fosphite	6 pt	11 a	1023.1 a
10. Zoxium	0.3 lb ai	30 ab	984.1 a
11. Cuprofix disperses + B 1956	2 lb + 1 pt	76 bc	1001.5 a
12. Control (Water)	80 gal	101 c	1153.7 a

LSD 24.7

LSD 129.99

^{1/} P = .05