



POWDERY MILDEW CONTROL ON GRAPES WITH PREV-AM® ULTRA

TARGET	Powdery mildew (<i>Uncinula necator</i>)	CROP	Wine grape cv. Aurore
TRIAL DATE	April 2010	LOCATION	Lawton, MI, USA
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APPLICATION

The experiment was conducted in a mature commercial vineyard in Lawton, MI. Vines were spaced at 7 x 9 ft. and treatments were applied to 3-vine plots and were replicated 4 times in a randomized complete block design. Sprays were applied with a R&D Research CO₂ cart-styled sprayer with a pressure regulator set at 55 psi, and a single XR TeeJet 8002VS nozzle on a 5-ft. spray boom. Spray volume was 50 gal./a.

Spray dates and approximate phenological stages were as follows: June 16 (full bloom), July 15 (bunch closure), August 10 (veraison: 9.5° Brix), and August 23 (pre-harvest). All plots, including the untreated control, received a cover spray of Sulfur 6L at 7 pt./a on June 30 (BB sized fruit).

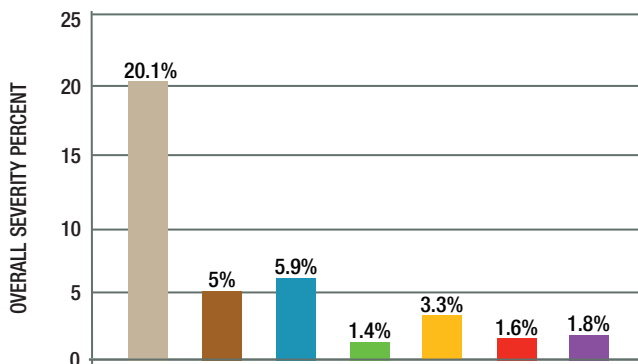
Disease was assessed on the center vine of each plot on Sept 6. Powdery mildew incidence (% leaves exhibiting disease) and severity (% leaf area infected on diseased leaves only) were visually estimated on 20 randomly selected leaves per plot. Overall severity was calculated as (incidence x severity)/100.

RESULTS

PREV-AM ULTRA was equally as effective as all the other products. All treatments resulted in a statistically significant reduction in powdery mildew.

- UNTREATED
- Citrex 100 (*mineral oil*) (2.4 fl. oz./a) — Spray# 1 - 4
- Citrex 100 (*mineral oil*) (2.4 fl. oz./a) — Spray# 1 & 3
- Vanguard 75WG (*cyprodinil*) (10 oz./a) — Spray# 2 & 4
- Pristine 38 WG (*pyraclostrobin & boscalid*) (10.5 fl. oz./a) — Spray# 1 & 3
- Vanguard 75WG (*cyprodinil*) (10 fl. oz./a) — Spray# 2 & 4
- Elevate 50 WDG (*fenhexamid*) (1 lb./a) — Spray# 1 & 3
- Vanguard 75WG (*cyprodinil*) (10 fl. oz./a) — Spray# 2 & 4
- PREV-AM ULTRA (50 fl. oz./a) — Spray# 1 - 4
- Endura (*boscalid*) (8 oz./a) — Spray# 1 - 4

OVERALL SEVERITY OF POWDERY MILDEW AFTER INDICATED SPRAY PROGRAMS WITH FOUR SPRAY DATES ON AURORE GRAPES



PERCENT CONTROL VS. UNTREATED CONTROL OF POWDERY MILDEW AFTER INDICATED SPRAY PROGRAMS WITH FOUR SPRAY DATES ON AURORE GRAPES

