

# FUNGOUT®

*Fungicide & Bactericide*

*Sustainable program for powdery mildew in wine grapes*



Friendly to beneficials  
and pollinators

0 Day PHI

4 Hours REI



## TECHNICAL SPECIFICATIONS

- Active ingredients: Citric acid
- Packaging: Case (2 x 2.5 gallons) or tote (275 gallons)
- Formulation Type: Liquid concentrate
- Chemical Group: N/A Biopesticide

## RECOMMENDATIONS FOR OPTIMAL RESULTS

- Apply at a 2.0 % rate (v/v) when conditions are conducive to disease development, ideally before symptoms appear. Repeat applications at a 5-10-day interval as needed.
- Spray quality should be very fine with sufficient spray volume to obtain coverage of both sides of leaves.
- Use in combination or rotation with different modes of action to manage resistance or as part of an organic program.
- Always read and follow label instructions.

## MODE OF ACTION

FungOUT has a dual mode of action and protection activity at early infection stages. The product forms a protective barrier on the plant surface, inhibiting pathogen development. It also has antifungal activity on various structures (conidia germination, germ tube formation and elongation, appressorium and haustorium formation and hyphae branching) and bactericidal activity.

Manufactured by:

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## RESULTS

Trial conducted by Rohlfs and Adkins Research in a vineyard located in Yakima County, WA

**Experimental design:** Randomized complete block, 4 replications, 16 ft plots

**Spray volume:** 45-80 gallons/acre

**Comparative treatments:** four sprays during critical period for powdery mildew management on fruits (see Table 1)

**Disease incidence:** 30 grape clusters/plot rated for powdery mildew presence/absence

**Table 1. Conventional and sustainable programs for powdery mildew management on wine grapes**

| DATE (CROP STAGE)           | CONVENTIONAL PROGRAM               | SUSTAINABLE PROGRAM           |
|-----------------------------|------------------------------------|-------------------------------|
| May 5 (3-8 in)              | Sulfur 5 lb <sup>1</sup>           | Sulfur 5 lb                   |
| May 19 (19 in)              | Cevya 5 oz+ sulfur 5 lb            | Cevya 5 oz + FungOUT 2% v/v   |
| June 1 (early bloom)        | Quintec 4 oz + NIS <sup>2</sup>    | FungOUT 2% v/v                |
| June 9 (full bloom)         | -                                  | FungOUT 2% v/v                |
| June 16 (post-bloom)        | Proливо 5 oz + mineral oil 2 % v/v | Proливо 5 oz + FungOUT 2% v/v |
| June 30 (fruit development) | Vivando 15.4 oz + NIS              | Vivando 15.4 oz + NIS         |
| July 15 (fruit development) | Torino 6.8 oz + NIS                | Torino 6.8 oz + NIS           |
| July 30 (veraison)          | Cevya 5 oz + NIS                   | Cevya 5 oz + NIS              |

<sup>1</sup> All rates except percentages are on a per acre basis, <sup>2</sup> NIS = non-ionic surfactant.

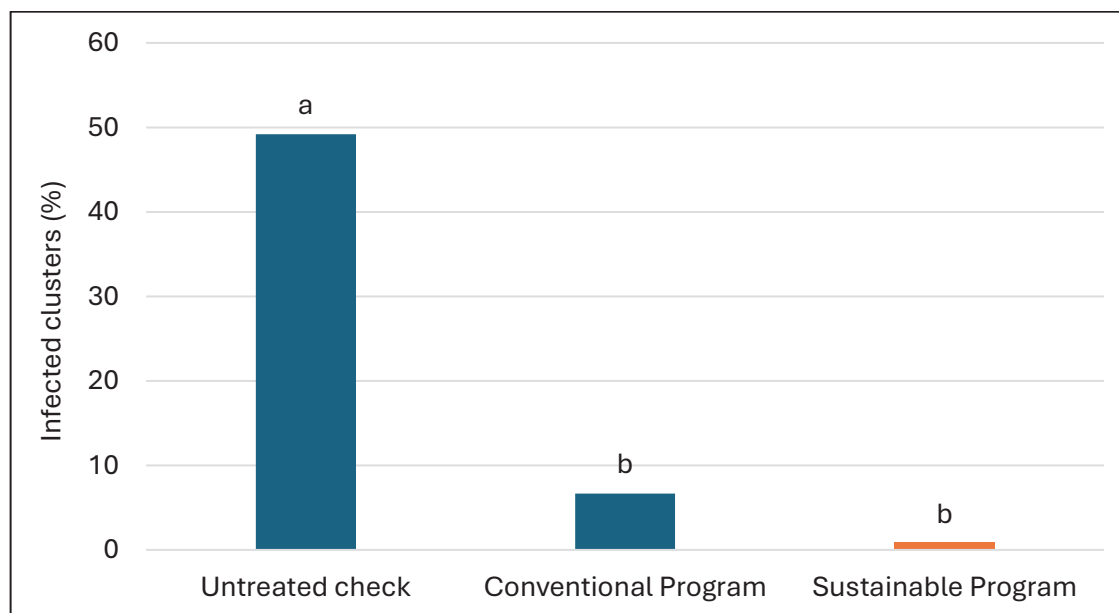


**Figure 1. Powdery mildew incidence on Cabernet Sauvignon clusters at harvest (September 18, 2025) in Yakima County, WA.**

Means followed by the same letter do not significantly differ ( $p=0.05$ , LSD).