

Organic TRIGGRR® and Westbridge® Nutritional Program Rates in Wine Grapes

Foliar Application Rates: 8 ounces/acre Organic TRIGGRR® combined with grower standard nutrition and/or Organic Biolink® nutritional program.

Soil Application Rates: 16-32 ounces/acre Organic TRIGGRR® combined with grower standard nutrition and/or Organic Biolink® nutritional program.



Organic TRIGGRR® and Westbridge® Nutritional Program Rates in Wine Grapes

Westbridge® Nutritional Program Foliar Rates: 1 quart/acre of each of the following

Organic Biolink® products: All Purpose 3-3-3, Cal Plus 7%, and Micronutrient Blend.

Westbridge® Nutritional Program Soil Rates: Increase rate to 2 quarts/acre for each Organic Biolink® nutritional program product.



Key Organic TRIGGRR® and the Westbridge Nutritional Program Application Timings in Wine Grapes

1st Application: Cluster Emergence

- Apply the foliar program when the cluster emerges from the shoot. Shoots will typically have 5 leaves and ~4-6 inches of shoot growth at this time
- Could be the 1st or 2nd foliar fungicide application, depending on spray schedule

Benefits: Improved cluster nutrition which can lead to improved vascular system development, increased rachis length, increased cluster viability, and clusters that are more likely to fully mature



Key Organic TRIGGRR® and the Westbridge Nutritional Program Application Timings in Wine Grapes

Petite Sirah Trial: Lodi County, CA, 2019



1st Application: Cluster Emergence

- 1.5" **increase (31%)** in rachis length with 1 application of Organic TRIGGRR at 4-6" shoot growth
- 20% increase in looseness (cluster length: # berries ratio)

Key Organic TRIGGRR® and the Westbridge Nutritional Program Application Timings in Wine Grapes

Applications 2-4: Pre-Bloom through 50% bloom

- Apply foliar program with the next foliar fungicide application, 2-3 weeks after the 1st application
- Repeat 2 weeks later for best results, and again during extended bloom cycles and/or cooler weather

Benefits: Improved cluster nutrition which can lead to increased berries per cluster, improved berry size uniformity, and improved vascular system development



Optional Organic TRIGGRR® and the Westbridge Nutritional Program Application Timings in Wine Grapes

Phase 1 Fruit Set: Apply the foliar or soil program between cap fall and 10 days post-bloom which can lead to increased berry and cluster size

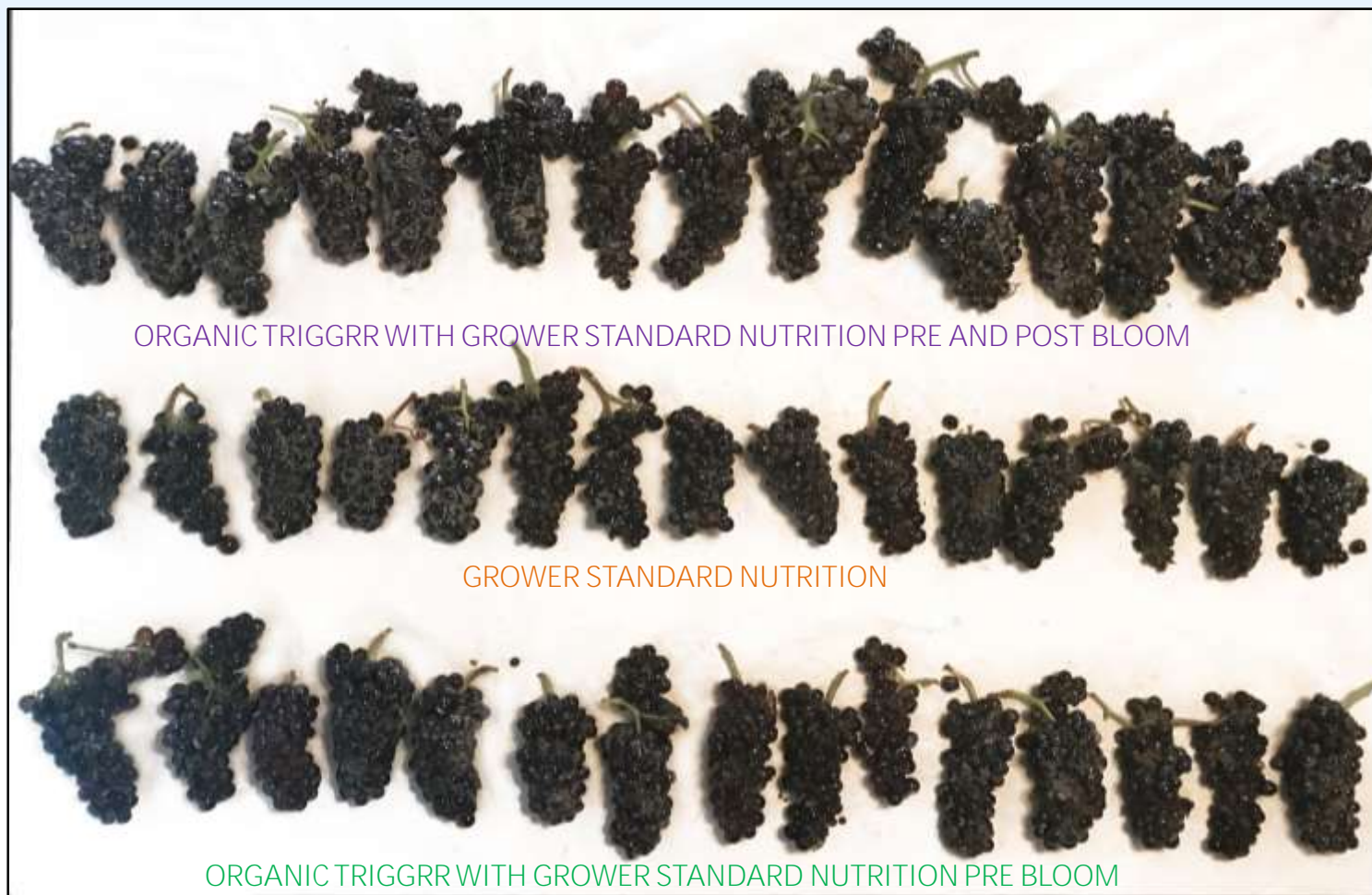


Veraison: Perform a foliar application of 2 ounces/acre of Organic TRIGGRR® at the onset of veraison to 50% color for improved color uniformity



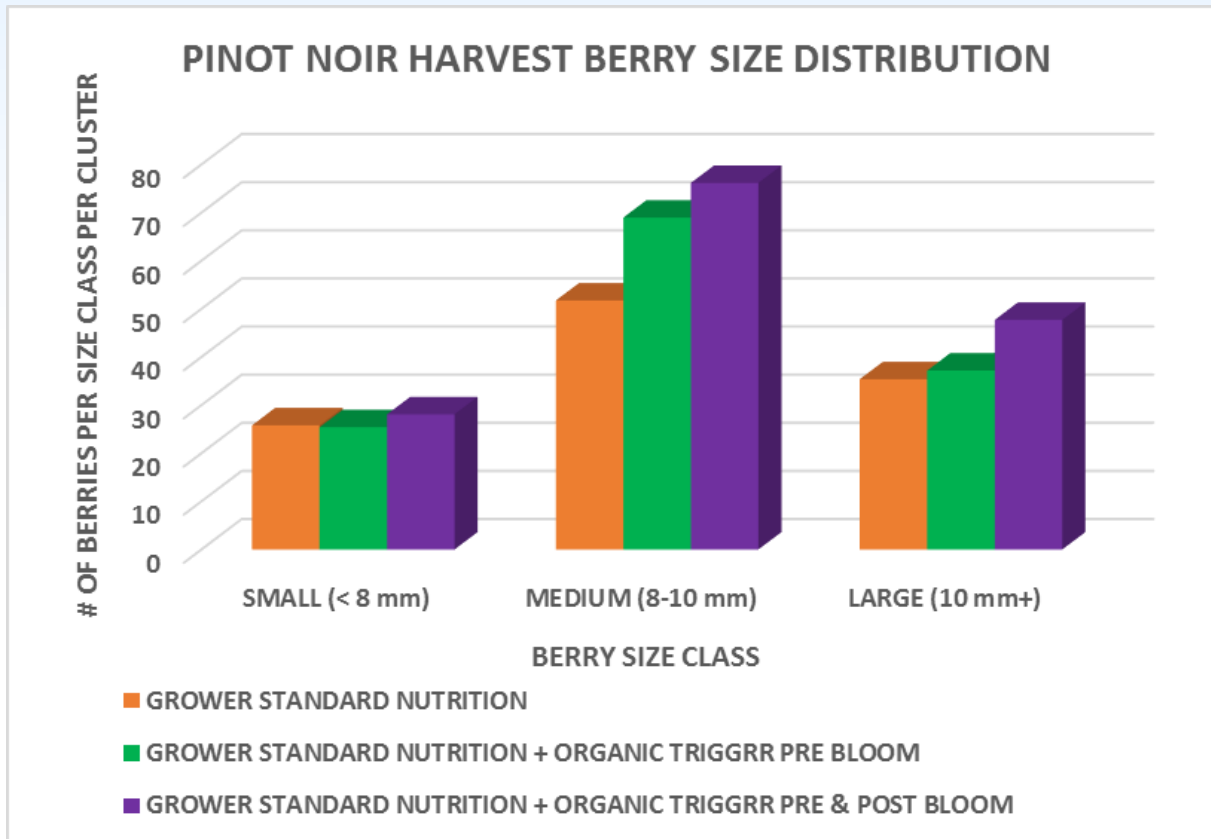
The Effect of Pre-Bloom & Post-Bloom Organic TRIGGRR® and Westbridge Nutritional Program Foliar Applications on Wine Grapes

Pinot Noir Trial: Monterey County, CA, 2018



The Effect of Pre-Bloom & Post-Bloom Organic TRIGGRR® and Westbridge Nutritional Program Foliar Applications on Wine Grape Berry Size Distribution

Pinot Noir Trial: Monterey County, CA, 2018



Use pre-bloom foliar applications of Organic TRIGGRR® and the Westbridge Nutrition Program to increase berries per cluster and berry size uniformity.

Use post-bloom applications if increased berry and cluster size is desired.

The Effect of Pre-Bloom & Post-Bloom Organic TRIGGRR® and Westbridge Nutritional Program Foliar Applications on Grape Phenolics

Pinot Noir Trial: San Luis Obispo County, CA, 2020



- 10% increase in tannins and 7% increase in pigmented tannins in Pinot Noir with pre bloom foliar applications
- 52% increase in tannins in Pinot Noir with pre and post bloom applications
- 19% increase in tannins, 17% increase in anthocyanins, and 32% increase in pigmented tannins in Cabernet Sauvignon with pre bloom foliar applications

Grape juice from Organic TRIGGRR and Organic Biolink 333+ treated grapes

Soil Applications of Organic TRIGGRR® and the Westbridge Nutritional Program on Young Grape Vines

Paso Robles, CA, 2013

Young Vines/New Plantings:
Fertigate 16 ounces/acre of
Organic TRIGGRR® with nutrition
after transplant, repeat 2-3
times throughout the season



Check

Westbridge Nutritional Program



The Effect of Pre- and Post-Bloom Organic TRIGGRR® and the Organic Wine Grapes: Trial Summary

- 73 split block trials from 2011-2020 spanning 9 counties in California plus 4 trials in Oregon, on 13 varieties: Cabernet Sauvignon, Pinot Noir, Chardonnay, Sauvignon Blanc, Syrah, Merlot, Zinfandel, Primitivo, Pinot Gris, Roussanne, Sangiovese, Teroldego, and Petite Sirah
- Average increase in cluster weight of 16% across all trials
- Average of 17% more berries per cluster with Pre Bloom applications of Organic TRIGGRR with nutrition across 56 trials
- Average of 21% more medium sized berries across 22 trials where berry size was evaluated, indicating improved berry size uniformity



Questions?



Jon Martin

jmartin@Westbridge.com

(707) 321-4988

Coastal California



Kristina Madden

kshort@Westbridge.com

(530) 520-8377

North Inland California & Oregon