

Surround®

Crop Protectant



Five-Year UC Study Demonstrates Surround® Crop

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A multi-faceted, multi-year study of the use of Surround Crop protectant on almonds in California may offer in the area of overall plant health, moderating the impact of bud failure and improving water utilization.

Researchers found that return bloom, nut set and yields the of Carmel, Nonpareil and Sonora trees. The Nonpareil and Sonora varieties did not appear affected by Surround; however, researchers found that return bloom, nut set and yields the of Carmel, Nonpareil and Sonora trees. The Nonpareil and Sonora varieties did not appear affected by Surround; however, researchers found that return bloom, nut set and yields the of Carmel, Nonpareil and Sonora trees. The Nonpareil and Sonora varieties did not appear affected by Surround; however, researchers found that return bloom, nut set and yields the of Carmel, Nonpareil and Sonora trees.

Could Surround have moderated the effects of bud failure? The objective of this study was to determine if, in fact, this was the case.

Study Design

- The study was conducted on 4229 almond trees in California.
- Treatments included Surround and non-treated controls.
- Measurements included shoot growth, tree circumference, water stress, bud failure, and yield.

Shoot Growth

Surround-treated trees had more current season shoot growth when compared to non-treated trees.

Tree Circumference – Surround-treated trees had more current season shoot growth when compared to non-treated trees.

Water Stress – For the high heat stress months of June through September, Surround-treated trees had less water stress when compared to non-treated trees.

Bud Failure – Surround-treated trees had less bud failure when compared to non-treated trees.

Yield – Surround-treated trees had more current season shoot growth when compared to non-treated trees.

Summary Statement Surround Crop protectant may provide yield improvements to almond trees affected with bud failure.

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Problem	Lbs/Acre	Application Instruction
Sunburn and heat stress	50-75	Apply to sunburn-prone trees before conditions leading to sunburn occur. Provide thorough coverage with one to two full rate applications 7 days apart. Depending upon the length of the high heat period, three to four applications in total often are needed. Good coverage on small to medium size trees is best achieved at rates of 75 lbs in 100 to 200 gallons per acre to achieve near-drip coverage. Make subsequent applications at half to full rates to maintain even coverage throughout the high heat period.

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É Avoid foliage run-off. Apply the spray volume that will achieve near-drip coverage.

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É Surfactants may improve spreading.

É"Eqpuwnv"v j g"urgek o gp"ncdgn"hqt"kpvtwevkqpu"qp"cgtkcn"cr rnkcevkqp0

É See Surround spray guide for more information on effective application techniques.

Important: Always read the label before buying and follow label instructions when using this product.

The use of Surround® WP in agricultural crop protection applications is covered by US Patents 6,027,740; 6,069,112; 6,110,867 and 6,156,327.

CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Failure to strictly follow label directions may cause injury to crops, animals, man or the environment. Tessenderlo Kerley, Inc. (TKI) warrants use when properly applied in normal weather conditions. TKI makes no other warranty or representation of any kind, express or implied, TKI for any cause of action relating to the handling or use of the product is a claim for actual out-of-pocket damages, and in no event shall LCAZ or income, whether or not based on the negligence of TKI, breach of warranty, strict liability in tort, or any other cause of action. TKI and the seller offer the product, and the buyer and users accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies.

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