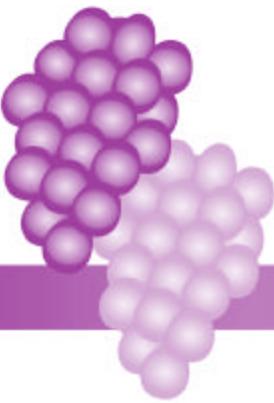


1st ISSUE



Acadian™ on GRAPES

A Practical Guide For Quality Grape Production

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Tom Branson has been a part of the Acadian Seaplants Technical Team since November 1999 and demonstrates the company's commitment to assisting growers in the California Grape market. As a PCA in the Fresno area, Tom's expertise is in creating innovative ways to assist growers in maximizing their profit earning potential.

Tom's role with Acadian Seaplants enables him to focus on the issues and concerns of local Grape growers throughout California. He demonstrates how using ACADIAN™ Nutritional Products provide tangible and measurable benefits in commercial Grape production.

Rachis Stretch With ACADIAN™

It is that time of year again as grape growers across California are preparing for the start of the growing season. For top quality, high profit yields, grape vineyards have to be carefully managed and cared for throughout the entire season.

Commercial grape growers have always known that it is essential to have superior bud break, shoot development and an elongated bunch-rachis to support plant growth and superior yields and quality. What may be news is that ACADIAN™ Nutritional Products can help you realize your objectives.

As buds break and shoots develop and the cluster rachis of new bunches emerge, it is important to manage your vines to maximize the stretching of the bunch-rachis. The rachis acts as the structural framework allowing a healthy high quality bunch to form. The rachis will allow for maximized bunch growth and allow the vine to handle the increased growth and fruit set.

For most grape growers achieving a healthy elongated rachis is one of the major limiting factors in having a successful start and eventual finish to the year. Elongating the rachis is essential for creating a large elongated cluster allowing berries to grow to their full potential while deterring disease.

As with most grape varieties, growers make great efforts to ensure adequate shatter. Shattering reduces berry pressure on the vine and bunches. Elongating the rachis acts similarly to give developing berries more space to grow. The longer the stem, the more room

afforded to each berry and the healthier the bunch.

For Improved Bunch Rachis Stretch

ACADIAN™ Nutritional Products have been shown to enhance various essential cellular processes which contribute to rachis elongation. To help commercial grape growers elongate the bunch-rachis during peak growth periods we recommend you apply 1 quart of ACADIAN™ per acre in your pre-bloom sprays after the rachis has grown to at least two inches in length.



Research shows ACADIAN™ will not only help elongate your rachis it will also lead to increased berry set. Californian grape growers make great efforts to ensure an adequate shatter and help form bunches with selectively large, healthier grapes. Therefore, it is important that the pre-bloom application be made at least two weeks prior to the bloom period.

Help Is A Call Away

ACADIAN™ Nutritional Products are compatible with most crop management inputs including wettable sulfurs and fungicides used to combat powdery mildew. When using ACADIAN™ Nutritional Products in your crop management program we recommend a jar test to ensure compatibility of the products. If you have specific questions on how ACADIAN™ Nutritional Products can work in your vineyard, please contact me, Tom Branson, at any time. **T.B.**

ACADIAN™ Nutritional Products Enhance Quality

Recent field trial work conducted throughout California has shown that ACADIAN™ Nutritional Products improve both table and wine grape quality characteristics. Higher quality grapes translate into higher profits for you - the commercial grape grower.



Applications

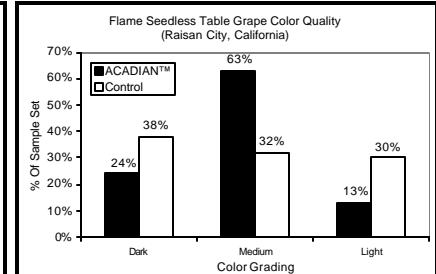
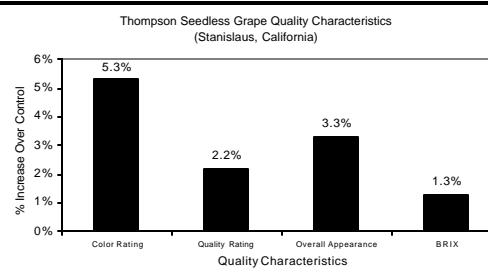
- 1st:** **Pre-bloom Stage
(1 quart per acre)**
- 2nd:** **1st Sizing Stage
(1½ quarts per acre)**
- 3rd:** **2nd & 3rd Sizing Stage
(1½ quarts per acre)**
- 4th:** **Pre-harvest Stage
(1½ quarts per acre)**

Visit us on the Web:
www.acadianseaplants.com

Extensive California field trial work has shown that the addition of ACADIAN™ to a standard crop management program leads to enhanced sizing, firmness, color uniformity and yields. All of which translates into additional profit for the grower.

ACADIAN™ Nutritional Products contain a complex matrix of plant nutrients, amino acids, carbohydrates and vitamins required for proper plant health, growth and optimal cell function. ACADIAN™ enhances cellular osmotic potential and improves the cell's ability to retain water.

The addition of ACADIAN™ stimulates the production of protective plant enzymes, sugars, osmotic regulators as well as structural proteins, lipids and sterols, leading to improved overall plant health, nutrition and quality.



Additional Field Trial Data Available Upon Request

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