



Fine Americas, Inc.

Falgro: Grape Label Review



Gibberellic acid (GA_3)

- Originally discovered as a secretion from rice pathogen *Gibberella fujikori* in 1898
- Naturally occurring
- Produced by fermentation
- Absorbed through leaf, branches & fruit and transported to actively growing plant tissue

Gibberellic acid (GA_3)

- Primary Physiological Effects:
 - Promotes cell growth
 - Promotes cell elongation
 - Accelerates fruit growth
 - Delays maturation i.e. prolongs the time fruit remains on the tree



Falgro

- Made by Fine Agrochemicals, the second largest gibberellin producer in the world.
 - Using *Gibberella moniliforme*
 - Fine Agrochemicals proprietary strain
- 25 years of experience in PGRs
- Quality assured production to ISO 9002 standards
- Available as a 20% Soluble Powder & 4%



Spray Guidelines of Seedless Grapes

Stretch Spray

- For cluster elongation and looser clusters
- Reduce thinning costs
- Allows better air circulation to aid in the control of bunch rot
- Increases light penetration to aid in sugar development



Falgro Rate Converter

Grams ai/ A	PPM (based on a 100 gal/A spray volume*)
8	20
12	30
16	40
24	60
32	80
64	160
128	320



Spray Guidelines of Thompson Seedless Grapes

Stretch Spray Guidelines

Rate 8-24 g ai/Acre

Timing Make first application before
bloom when clusters are 2-7
inches long

Applications 1-3 sprays as needed

Spray Guidelines of Thompson Seedless Grapes

Stretch Spray Timing



Spray Guidelines of Seedless Grapes

Thinning Spray

Decreases berry set, reduces thinning costs and hastened maturity.

Reduces berry set to thin bunches thus allowing for more room on the rachis for berries to reach their maximum size.

NOTE: Higher amounts or multiple applications may cause an excess of shot berries or over thinning, especially in young vines or vines with high vigor.

Thompson Seedless Grapes

Thinning Spray Guidelines

Rate 8-20

Timing During bloom

Applications 1-4 sprays

Thompson Seedless Grapes

Thinning Spray Timing



Thompson Seedless 'Bump' Spray

Objectives/benefits include to help initiate the beginning of berry growth.



Thompson Seedless 'Bump' Spray

Dosages: Apply 16-24 g ai / Acre in sufficient volume to ensure thorough wetting

Timing: Apply between last Bloom spray and first sizing spray

Spray Guidelines of Seedless Grapes

Sizing Spray



Increases berry size and clusters when used in conjunction with established girdling and thinning practices.

Thompson Seedless Grapes

Sizing Spray Guidelines

Rate	32-128 g ai/Acre
Timing	Make first application when average berry size is 3-5mm in diameter
Applications	1-4 sprays

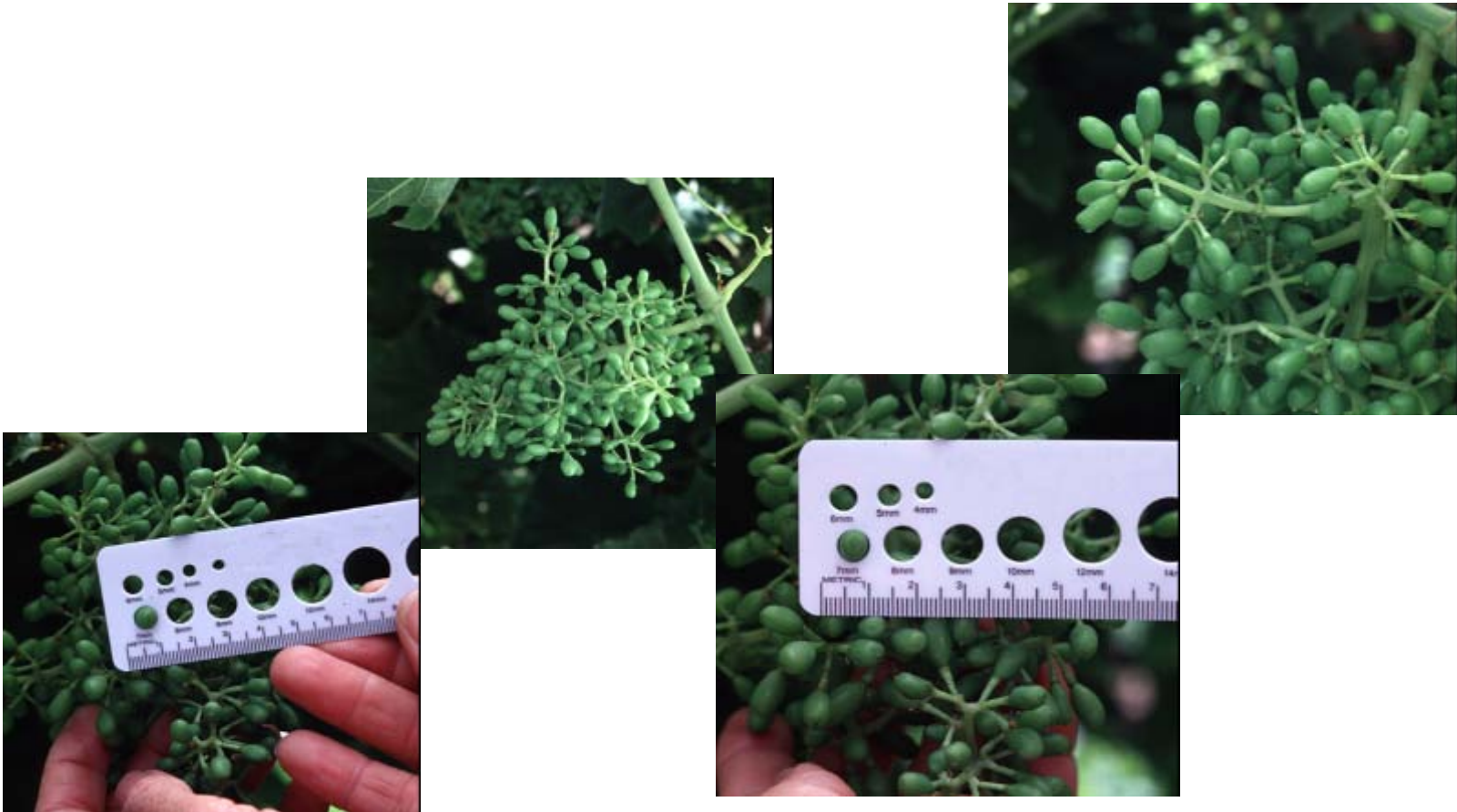
Thompson Seedless Grapes

Sizing Spray Guidelines



Thompson Seedless Grapes

Sizing Spray Guidelines



Thompson Seedless Table Grapes

Falgro Spray Summary

1-3 stretch sprays @ 8-24 g ai/Acre

1-4 thinning sprays @ 8-20 g ai/Acre per application

1 Bump spray @ 16-24 g ai/Acre

1-4 sizing sprays @ 32-128 g ai/Acre per application

Spray Guidelines for Flame Seedless Grapes



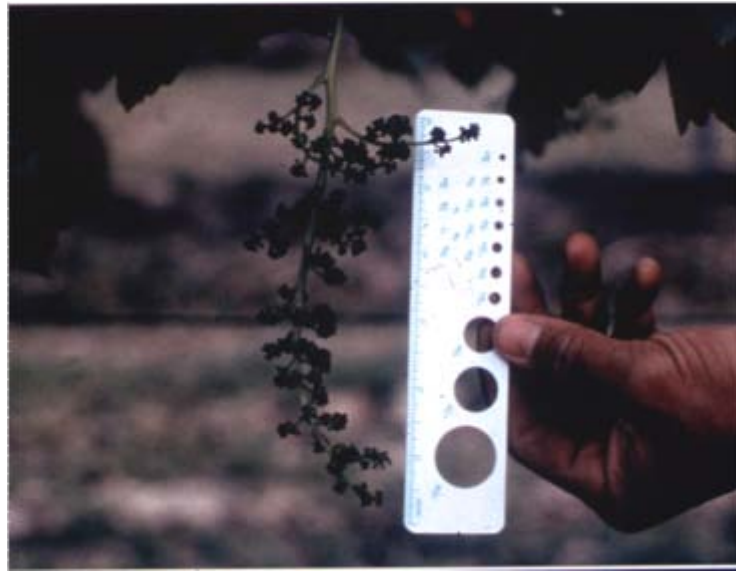
Flame Seedless Grapes

Stretch Spray Guidelines

Rate	8-24 g ai/Acre
Timing	Before bloom when clusters are 2-7 inches long
Applications	1-3 sprays

Flame Seedless Grapes

Stretch Spray Timing



Flame Seedless Grapes

Thinning Spray Guidelines

Rate 3-16 g ai/Acre

Timing During bloom

Applications 1-4 sprays

Flame Seedless Grapes

Thinning Spray Timing



Flame Seedless Grapes

Sizing Spray Guidelines

Rate	20-128 g ai/Acre
Timing	Make first application when average berry size is 6-9mm in diameter
Applications	1-4 sprays

Flame Seedless Grapes

Sizing Spray Timing



Flame Seedless Grapes

Falgro Spray Summary

1-3 stretch spray @ 8-24 g ai/Acre

1-4 thinning sprays @ 3-16 g ai/Acre
per application

1-4 sizing sprays @ 20-128 g ai/Acre
per application

Perlette Grapes

Stretch & Sizing Spray Guidelines

Rate	Stretch @ 8-24 g ai/Acre Sizing @ 32-128 g ai/Acre
Timing	Stretch when clusters are 2-7" Sizing @ 4-5 mm berry size
Applications	Stretch @ 1-3 sprays as needed Sizing @ 1-4 sprays as needed

Thompson Seedless for Raisins Stretch Spray Guidelines

Rate	8-24 g ai/Acre
Timing	Make first application when clusters are 2-7 inches long
Applications	1-3 sprays as needed

Thompson Seedless for Raisins

Thinning Spray Guidelines

Rate	3-12 g ai/Acre
Timing	Make first application when bunches are 60-80% bloom
Applications	1-3 sprays

Thompson Seedless for Raisins Sizing Spray Guidelines

Rate	4-20 g ai/Acre
Timing	Make first application when average berry size is 3-5 mm in diameter
Applications	1-4 sprays

Thompson Seedless for Raisins

Falgro Spray Summary

1-3 stretch application @ 8-24 g ai/Acre

1-4 thinning sprays @ 3-12 g ai/Acre per application

1-4 sizing sprays @ 4-20 g ai/Acre per application

Benefits for Using Falgro for Quality Raisin Production

Reduces bunch rot

Enlarges raisins

Hastens maturity

Falgro for Thinning Other Seedless Table Grapes

For decreased berry set, reduced
hand thinning costs.

Apply 0.5 – 12 g ai/ac.

Falgro for Other Seedless Table Grapes

Crimson

Ruby

Superior

Princess

Beauty

Centennial

Autumn Royal

Black Seedless

Black Maroo

Others

Falgro for Other Seedless Table Grapes

Sizing Spray

Make 1-4 applications depending upon variety.

Apply 8-60 grams active ingredient per acre @ 3-14mm berry size.

Timing of the subsequent sprays will be dictated by experience in the vineyard and temperatures occurring between sprays.

Summary of Falgro Application Rates for Seedless Grapes

	Stretch Grams ai/A	Thinning Grams ai/Acre	Sizing Target	Gram ai/Acre
Perlette	8-24	*	4-5mm	32-128
Flame	8-24	3-16	6-9mm	20-128
Thompson	8-24	8-20	3-5mm	32-128
Raisin	8-24	3-12	3-5mm	4-20
All others	**	0.5-12	3-14mm	8-60

Falgro for Seeded Table Grapes Sizing Spray

Rate

Apply 2-20 grams active ingredient per acre as dilute or concentrate
40-50 ppm direct spray to the clusters or dipped.

Timing

Generally two weeks after shatter or when berry diameter is between 12 and 18 mm depending upon variety.

Timing will differ according to each varieties: Emperor, Red Globe, Calameria, Christmas Rose, Rogue, Queens.

Note: Whole vine sprays may reduce fruitfulness the following year

Falgro for Wine Grapes

Application of Falgro increases cluster length and improves air circulation and light penetration within the cluster, reducing the incidence of bunch rot and sour rot .

Make a single spray application .

Yield reduction may result from an increase in shot berries in the year of application, and/or a reduction in fruitfulness in the first and second year following the application.

Falgro Application Rates and Timing for Wine Grapes

Variety	Rate g ai/A	Timing
Palomino Sauvignon Blanc Tinta Madeira	0.4-1	<p>Spray when average flower cluster length is 3-4 inches. Do not make application less than three weeks before full bloom. Use is based on 100 gallons of water per acre.</p>
Aleatico Carignane Chardonnay Chenin Blanc French Colombard Pinot Noir Valdepenas	1-2	
Barbera Petite Sirah Zinfandel	2-4	
Green Hungarian	4-8	
Grenache Alicante	8	
Salvadore	8-16	

Falgro Application Considerations

Timing

pH 5.5 to 8.0

Adjuvants

Major Benefits from the Use of Falgro

- Reduces thinning costs
- Increases size and quality
- Cost effective
- More economic return per acre
- Compatible with most other products
- Approved organic material
- Environmentally friendly
- More air & light movement
- Aid in the control of bunch rot
- Aid in sugar development

Bloom and Thinning Considerations

Temperature 68°F (20°C)

Center of cluster begins first

Onset at Calyptras cracking

Weather dependent responses:

Cool and wet: 10-14 days +

Hot and dry: 1-5 days

Normal: 5-10 days

General Spray Guidelines for Grapes

For optimum effectiveness, thorough spray coverage must be achieved.

All parts of the plant or crop must receive the spray or desired results will not occur.

Prepare solution concentrations by mixing the required amount of product with water in a clean, empty tank.

General Spray Guidelines for Grapes

- Applications under slow drying conditions will increase absorption by the plant, thus optimizing effectiveness.
- Nighttime applications are encouraged when daytime conditions are not conducive to slow drying conditions.
- Ground sprayer is recommended.
- Apply as a concentrate or dilute in sufficient water volume to insure thorough wetting.
- Wet all flower clusters & berries thoroughly.

Questions?

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Thank You!



 falgro