

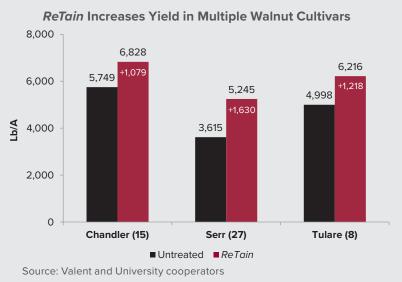


|Walnuts—California|

# **ReTain® Plant Growth Regulator Enhances Nut Set in Walnuts**

ReTain<sup>®</sup> Plant Growth Regulator for California consistently increases nut set in walnut orchards that suffer from low nut set due to Pistillate Flower Abscission (PFA).

Trials conducted since 2003 have demonstrated that *ReTain* consistently increases nut set in orchards with PFA. Applied at 5–30% bloom, a single application of *ReTain* reduces ethylene production in pistillate flowers, the main cause of PFA. This results in increased nut retention and higher yields.

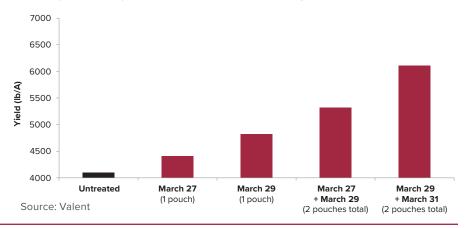


# A Second ReTain Application Further Protects Orchards from Severe PFA

Recent research shows that making a second application at 40–60% bloom (typically 2–4 days after the first application) can significantly increase yields beyond the benefits of a single application.

The following conditions most favor using a second application:

- Orchards with historically high levels of PFA
- Periods of extended bloom in high PFA orchards
- Locations within orchards with historically high incidence of PFA, such as near pollenizers



#### How To Use

Rate	1–2 pouches per acre (11.7–23.4 oz/A)
Timing	First application at 5–30% pistillate (female flower) bloom. If a second application is required, apply at 40–60% bloom.
Method	Ground or aerial application
Spray Volume	Ground: 100–200 GPA; aerial: 15 GPA minimum
Adjuvant	None
REI	12 hours





## Other Important Information

- For best results, apply when conditions favor slow drying—early morning or late afternoon
- Flower coverage is critical. To ensure thorough spray coverage of flower buds, use properly calibrated spray equipment and adjust water volume to minimize excessive runoff.
- Use of adjuvants with *ReTain* has not been fully researched. Some adjuvants will cause a bloom thinning effect and will reduce the benefits of *ReTain*.
- For best results, apply *ReTain* at least 48 hours before or after applying copper-based products
- Maintain spray solution pH between 6 and 8
- Signal word: Caution

## Before Using ReTain for Walnuts

- Be sure your problem is PFA. Signs that point to PFA include:
  - High year-to-year yield variability, yields below county average for your variety, PFA sensitive cultivar (such as Serr, Tulare and Tehama), heavily planted walnut growing region that results in high pollen loads
- Be sure female flowers are at the correct stage of bloom



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