

| 7-Day Application for Hard-to-Color Varieties |

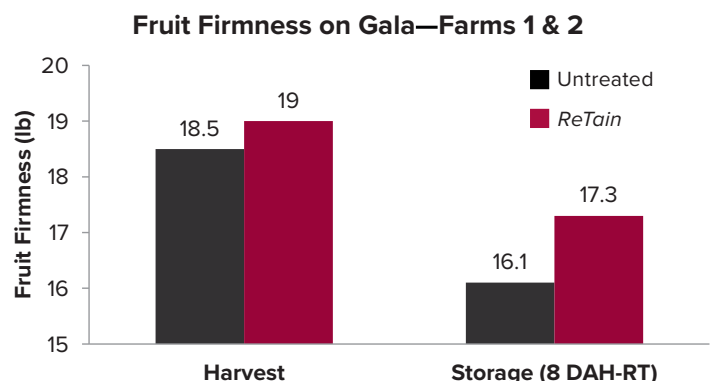
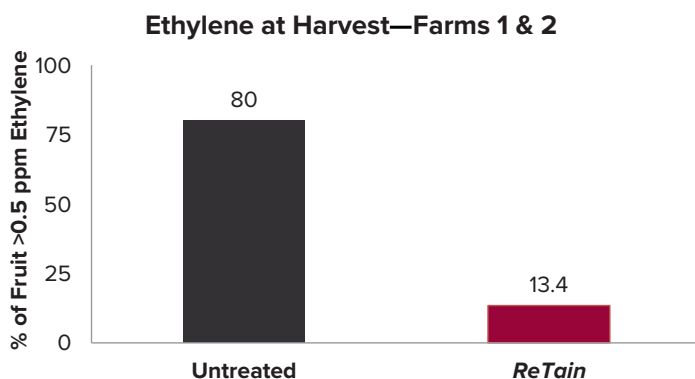
Managing Variable Fruit Maturity and Quality

Variable fruit maturity leads to multiple picks and poor storage quality for many apple varieties. Growers need a product that can be stored in good condition, so they can meet consumer demands months after the harvest comes out of storage. ReTain[®] Plant Growth Regulator Soluble Powder slows the fruit's maturation and ripening processes. *ReTain* offers tremendous flexibility allowing applications up to 28 days before expected harvest. But for some hard-to-color varieties, such as Gala and Honeycrisp, an application 7 days before expected harvest may be the best solution. *ReTain*:

- ▶ Creates more even ripening (starch conversion) by controlling ethylene
- ▶ Delays maturation
- ▶ Offers harvest flexibility
- ▶ Delivers better quality going into storage with Fysium[®] (1-MCP)

Improve Fruit Quality and Full Color Development

ReTain was applied to Honeycrisp apples 7 days before harvest and the result was even color throughout the block. Research has also shown that double applications of *ReTain*, when timed correctly, have been shown to be effective in multiple picks without impacting color. *ReTain* won't make red fruit green. Photo taken on September 14, five days after application. Location: Western, NY.



***ReTain* applied 7 days before a normal harvest stopped ethylene production and held fruit firmness. Providing a powerful harvest management tool and higher returns with better quality fruit out of the orchard.**

- 1st pick of *ReTain*-treated fruit occurred 13-days following 1st harvest of untreated fruit

- *ReTain* rate = 333 grams/A
- DAH-RT = Days After Harvest-Room Temperature

ReTain[®]

PLANT GROWTH REGULATOR

How To Use

| | |
|-------------------|--|
| Rate | 1–2 <i>ReTain</i> pouches/A Packaging: water soluble pouch (50 grams AI/333 grams water soluble bag) |
| Method | <ul style="list-style-type: none">• Water volume: 100 gal/A or enough volume for adequate coverage without excessive runoff• Apply to healthy orchards. Do not apply to trees that may be nutrient, water or pest stressed. |
| Surfactant | <ul style="list-style-type: none">• For optimal response, use of an organosilicone surfactant at a concentration of 0.05–0.1% (v/v) may improve coverage• The use of an organosilicone surfactant is especially critical for drop prone varieties |
| PHI / REI | 7 days / 12 hours |

ReTain Pre-Harvest Flexible Use Timing

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|------------------------------|---|
| Single Pick Harvest | Apply 1–2 <i>ReTain</i> pouches per acre, 21–28 days prior to the anticipated start of normal harvest <ul style="list-style-type: none">• <i>ReTain</i> applied 21–28 days before harvest will delay the harvest period up to 7–10 days |
| Multiple Pick Harvest | To improve the fruit quality and storage potential of later picked apples (2nd, 3rd, 4th picks), apply 1 pouch of <i>ReTain</i> per acre, 7–14 days prior to the anticipated start of normal harvest period <ul style="list-style-type: none">• <i>ReTain</i> applied 7–14 days before harvest typically will not delay the start of the harvest (1st pick) but will help maintain fruit quality in the later picks |

Application Timing

