

Increase Pear Fruit Set at Bloom and Run Harvest On Your Schedule

To achieve higher yields in your pear orchard, ReTain[®] Plant Growth Regulator Soluble Powder can be used at bloom time for increased fruit set and reduced June drop. By reducing ethylene levels of flowers, *ReTain* can extend the life of the ovules, thereby increasing the chance for fertilization. *ReTain* also gives you more flexibility and control of your pear orchard by extending your harvest window up to 7 to 10 days. *ReTain* can now be applied at higher rates or up to two applications per acre per season to extend the harvest management period even further.

Fruit Set Benefits:

- ▶ Extends flower viability by reducing early senescence
- ▶ Increases potential for fruit set under low bee activity
- ▶ Proven technology for fruit set in other crops, such as cherries

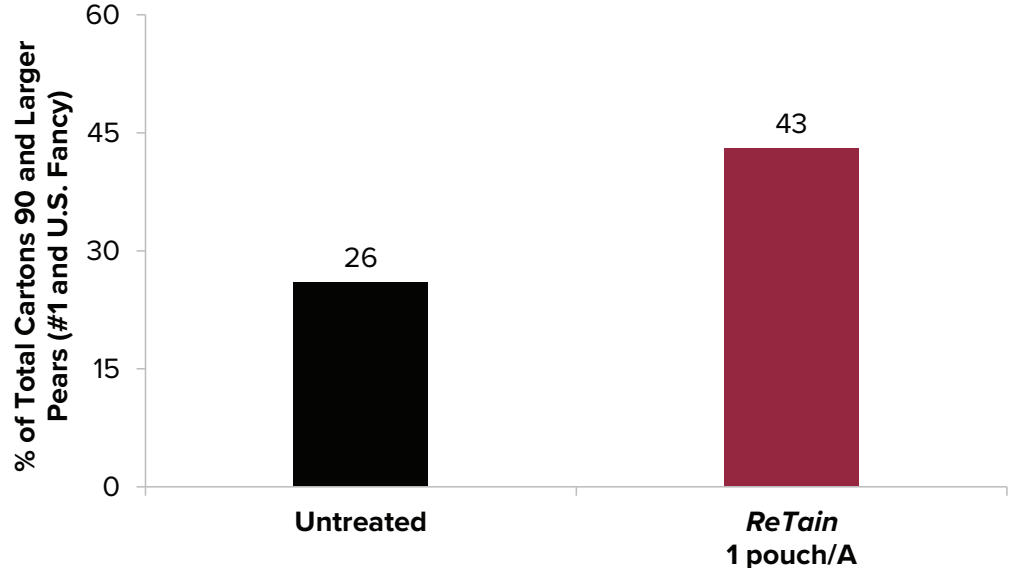
Harvest Management Benefits:

- ▶ Extends the harvest window
- ▶ Provides more flexibility with labor management
- ▶ Extends drop control
- ▶ Maintains late-season fruit quality

ReTain Delays Pear Harvest to Allow for an Increase in Fruit Size

The *ReTain*-treated pears were harvested later and showed an increase in fruit size. The untreated pears were harvested August 18. The *ReTain*-treated pears were harvested August 21.

Pear variety = Bartlett
Source: Valent U.S.A.



How To Use

Rate—Increase Fruit Set & Reduce June Drop

FOR INCREASING FRUIT SET/REDUCE JUNE DROP

- To increase fruit set: 1 pouch/A as a single application from white bud stage to full bloom. Applications made prior to white bud stage or after full bloom will significantly reduce efficacy of treatment. Do not apply after Petal Fall.
- To reduce June drop: 1 pouch/A at 10 mm fruit size
- Do not apply more than 1 pouch/A

How To Use continued

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| Rate—Harvest Management/ Fruit Quality | <p>FOR HARVEST MANAGEMENT/FRUIT QUALITY</p> <p>Single Application</p> <ul style="list-style-type: none"> • 1 pouch/A 7–16 days prior to the anticipated beginning of the normal harvest period of untreated fruit <p>Double Application</p> <ul style="list-style-type: none"> • First application: 1 pouch/A 21–28 days prior to the anticipated beginning of the normal harvest period of untreated fruit • Second application: 1 pouch/A 14–21 days after the first application, but not less than 7 days prior to harvest • Do not use more than 2 pouches/A |
| Method | <p>Water volume: 100–150 gal/A or enough volume for adequate coverage without excessive runoff.</p> <p>Apply to healthy orchards. Do not apply to trees that may be nutrient, water or pest stressed.</p> |
| Adjuvants | <p>Bloom time application: Do not use any surfactant because surfactants can cause premature flower senescence and drop by covering the stigmatic surface.</p> <p>10 mm application: Use organosilicone surfactant at a concentration of 0.05–0.1%.</p> <p>Harvest management: Use horticultural mineral oil as adjuvant for optimum product efficacy. Application rate: 0.25–0.5%.</p> |
| REI / PHI | 12 hours / 7 days |

Additional *ReTain* Use Considerations and Best Practices

- ▶ Do not apply more than 2 pouches of *ReTain* per acre per year (fruit set improvement and harvest management uses combined)
- ▶ For increased pre-harvest drop control, *ReTain* can be tank mixed with auxin-based products such as PoMaxa[®] Plant Growth Regulator
- ▶ Adjust spray tank pH to neutral to slightly acidic
- ▶ To avoid phytotoxicity, make sure no Captan has been applied in the preceding 4 weeks or will be applied in the following 2 weeks of the *ReTain* application
- ▶ Avoid tank mixes with zinc, iron or copper, as well as any +2 cations
- ▶ Do not tank mix *ReTain* with sunburn products, such as Raynox[®] Protectant products. If sunburn products are used, apply at least 3 days before or after *ReTain* application.