

LALSTIM OSMO^{SP}

COMPARISON TRIAL SUMMARY

LALSTIM® OSMO SP builds your plant's tolerance to environmental stresses. Protects sweet cherries from cracking during the growing season and post harvest. It also increased post harvest berry firmness along with an increase in brix and greater percentage of green stems in comparison to untreated control and a competitive product.

CONTEXT

Sweet cherries have a propensity for cracking during the growing season. Much of the cracking is due to the internal water relationships, regardless of the water on the fruit surface. Improved water balance also positively affected berry firmness, green stems and increased brix ratio.

LALSTIM OSMO SP contains glycine betaine, an osmolyte naturally enhancing stress tolerance in plants. Unlike protective coatings; LALSTIM OSMO SP is absorbed quickly by the plants, where it maintains the water balance and the normal activity of plant cells during environmental stresses. It also improves the circulatory flow of nutrients in the plant. LALSTIM OSMO SP is also suitable for organic production.

OBJECTIVE

To study the effect of LALSTIM OSMO SP in sweet cherry production to reduce fruit cracking, improve brix ratio and improve green stem retention and fruit firmness compared to Parka.



MATERIALS AND METHODS

LOCATION AND DATE

Commercial sweet cherry production, Lodi, CA
March-June, 2024 by Davis Research Group 2024
for Lallemand Plant Care USA

CULTIVAR

Prunus Avium Cherry, Variety Bing

CULTIVATION AND SUBSTRATE

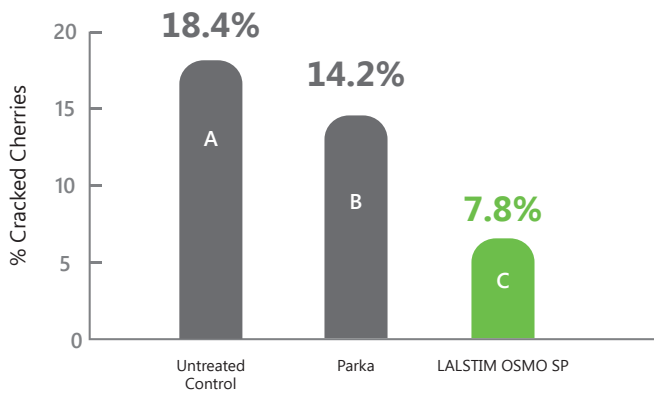
Bing Cherry trees were planted in January 2004, spacing 20 FT. Entry Spray date was May 10th, 2024. Irrigation type: Sprinkler micro-jet. Randomised BLK.

TREATMENTS

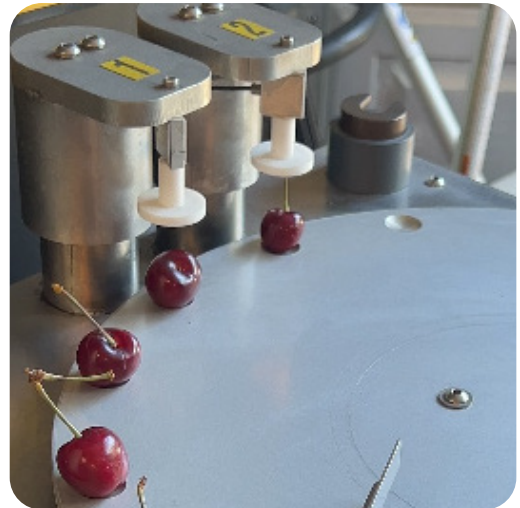
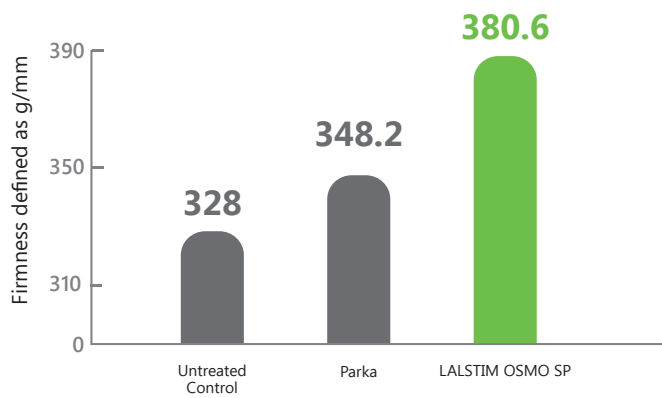
- Untreated control with Surf 90
- PARKA® spraying [1 gal of PARKA per acre] with Surf 90. First spray application at straw on May 6th. Second spray application 10 days on May 16th, third on May 26th.**
- LALSTIM OSMO 5lbs with Surf 90 per acre at straw on May 7th. Second application 10 days on May 16th and third on May 26th. Harvest for all on June 6th.

**Delivered as per grower standard practice for Lallemand's US market.

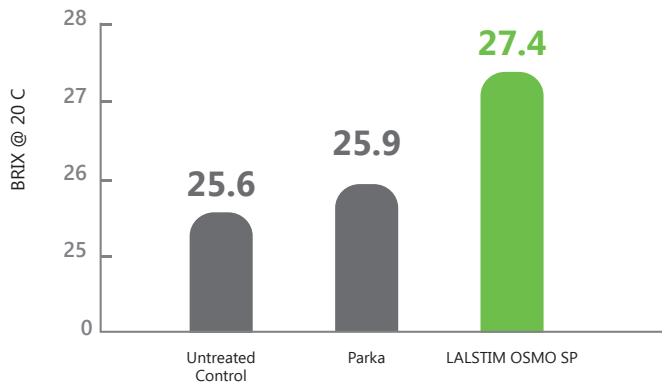
Significantly reduced cherry cracking during the growing season and post harvest



Improved fruit firmness 18 days post harvest measured with Firmtech ft7



Increased the degree brix in Sweet Cherries by 7% over untreated control



Increased green stem retention

