



RAYNOX®

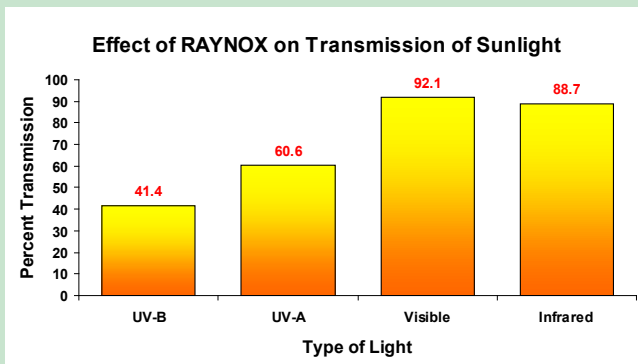
Improved Sunburn Protection

**A more effective and convenient product
to reduce sunburn in your orchard**

Sunburn in Apples

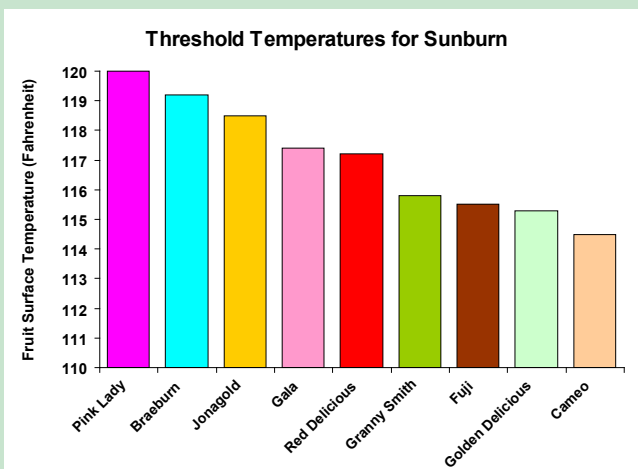
- Is usually the major source of cullage in packhouses (8-12% on average).
- Every year, million of dollars worth of fruit are lost due to sunburn damage.
- Sunburn browning is the most common type of sunburn in apples.
- Is caused by high fruit surface temperature and exposure to solar radiation.

How does Raynox effectively prevent sunburn?



- RAYNOX is a clear film that filters part of UV, visible and infrared light.
- RAYNOX reduces fruit surface temperature and the amount of UV and visible light reaching the fruit surface.
- RAYNOX lowers the “stress load” in the fruit, reducing the generation of oxidative molecules resulting in fewer sunburn symptoms.

Be Aware of Fruit Surface Temperature



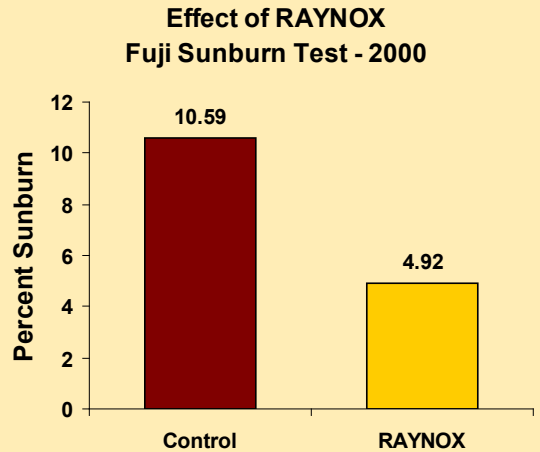
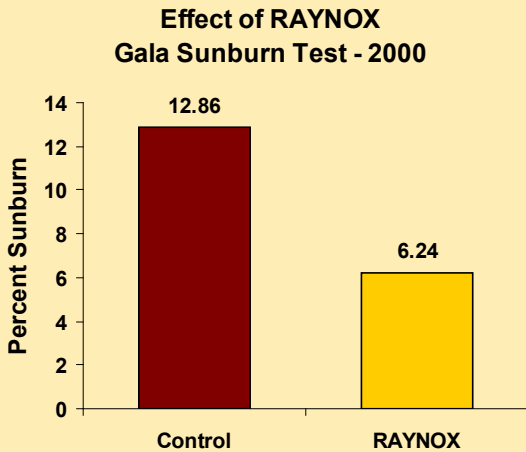
- Temperature thresholds to induce sunburn browning varies between 114°F and 120°F (Fruit Surface Temperature) for an hour for most apple varieties.
- Fruit surface temperature can be up to 30°F higher than air temperature.

Source: WSU Tree Fruit Research & Extension Center in Wenatchee

RAYNOX Development and Testing

RAYNOX was developed at Washington State University and extensively tested in collaboration with Washington Tree Fruit Research Commission and other research institutions worldwide.

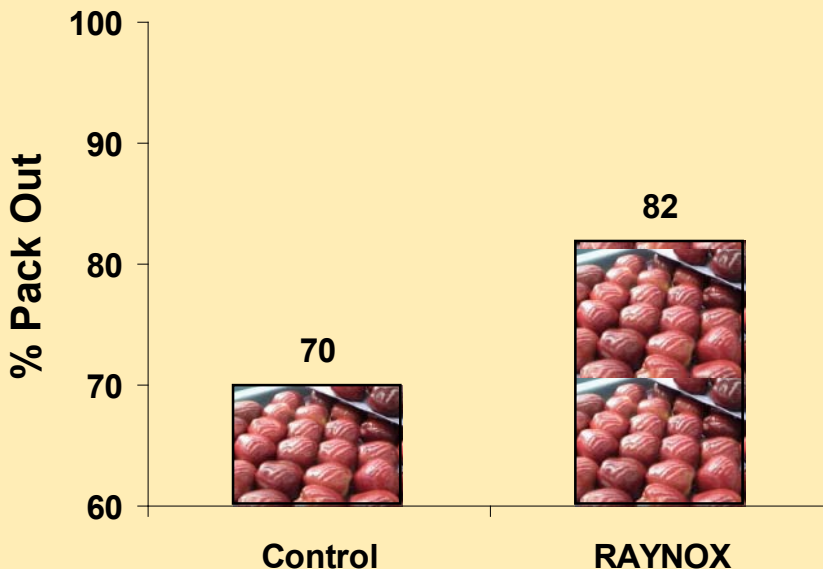
RAYNOX reduces sunburn by 50% on average



Source: Washington Tree Fruit Research Commission.

RAYNOX significantly increases the percentage of premium fruit

Commercial Pack Out Evaluation Granny Smith - 2004

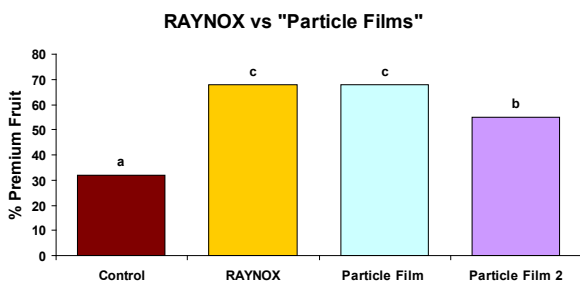


RAYNOX vs “Particle Film” Products

Independent testing conducted by the Washington Tree Fruit Research commission in 2005 shows that even under very extreme sunburn conditions, RAYNOX performs as good as or better than any other particle film available in the market.

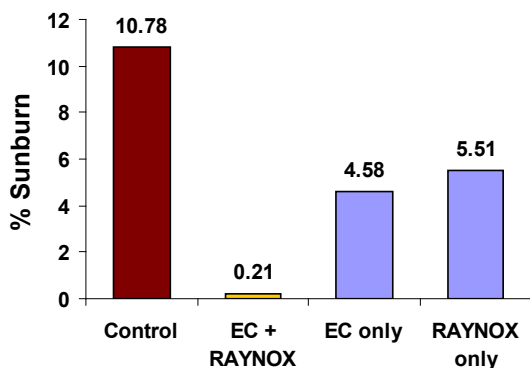


- RAYNOX does not leave a visible residue, allowing growers to color pick.
- RAYNOX does not cause irritation to nasal passages or skin of orchard workers.
- RAYNOX does not have negative effects on beneficial insects.
- RAYNOX does not encourage “mite flare-ups”.
- RAYNOX does not wash off easily and require re-application after an occurrence of rain.
- RAYNOX does not leave residues in dump tanks that call for special disposal.



Optimum Sunburn Protection

Effect of RAYNOX & Evaporative Cooling on Sunburn - 2003



RAYNOX has proven to significantly enhance the efficacy of Evaporative Cooling (EC) systems, providing growers the Optimum Sunburn Protection Program.

Test results show the combined use of EC plus RAYNOX reduced sunburn by 97%, compared to 58% and 47% reductions for each system alone.



**A Clear Solution
to Sunburn**

***Reduce your cullage,
increase your profits***

- Innovative technology developed by industry experts at Washington State University.
- Effective in suppressing sunburn by 50% on average.
- Clear solution does not leave visible residues on trees or fruit.
- Rain-fast: does not wash off with rain.



**Innovative solutions
that enhance, protect,
and preserve fruit and
vegetable quality.**

Raynox® is a registered trademark of FruitGard, LLC.

 **Pace**International™

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