

Reduce Fire
Blight Incidence
by 40%

OxiDate® 2.0

Control Fire Blight in Apples

Efficacy of OxiDate 2.0 for Fire Blight Control in Apples, 2014

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Crop: Apple (*Malus domestica*; Variety 'Gala')

Organism: Fire Blight (*Erwinia amylovora*)

Fire blight, caused by the bacterial pathogen *Erwinia*, is the most significant pathogen challenge for apple and pear producers nationally. Fire Blight causes a range of various infections including canker, blossom, shoot, trauma and rootstock blight. With growers seeing a dramatic increase in resistance to traditional treatments, we need to find new, effective tools to combat Fire Blight.

We have been working with researchers to investigate the effectiveness of using OxiDate 2.0 bactericide/fungicide to treat and prevent Fire Blight on apples and pears. In 2014, OxiDate 2.0 was evaluated against FireLine, a traditional antibiotic treatment, and applied at pre-bloom, 80% bloom, full bloom and petal fall. Given that this was an inoculated trial and fire blight pressures were high, the results achieved were astounding and prove OxiDate 2.0 is a critical tool in a Fire Blight program.

Summary and Results

Following treatments, trees were evaluated for Fire Blight strikes and treatments of water (control), OxiDate 2.0 and FireLine were compared. Control plots showed an average of 389 strikes per tree. The OxiDate 2.0 treatment plots showed dramatic reduction in Fire Blight incidence, showing only 227 strikes per tree, a 40% reduction. When OxiDate 2.0 was evaluated against FireLine, OxiDate 2.0 showed a reduced incidence of 7%, or 18 fewer strikes per tree.



Features & Benefits

- Unique mode of action
- No mutational resistance
- Safe to spray during blooms
- Can integrate biologicals
- Active ingredients: hydrogen dioxide and peroxyacetic acid
- Available in 2.5, 5, 30, 55 & 275 gallon containers

Figure 1. OxiDate 2.0 and Blighted Clusters per Tree

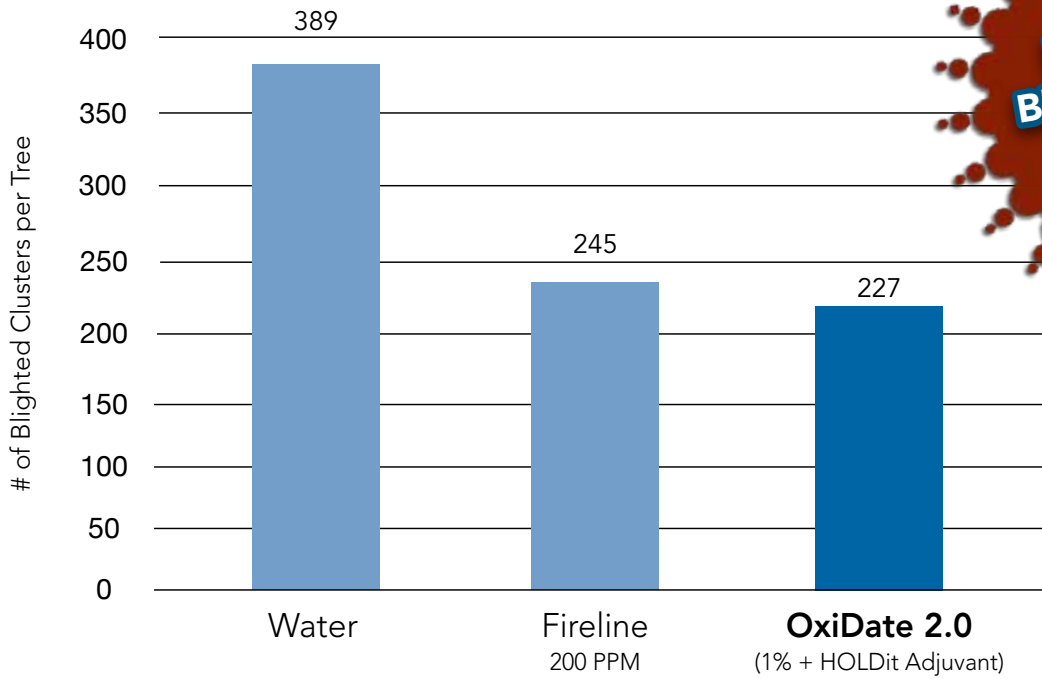


Figure 2. OxiDate 2.0 and Infected Floral Clusters

