

**Total Yield  
10%–11%  
Increase**

# **OxiDate® 2.0**

## Control White Mold in Beans

### Efficacy of OxiDate 2.0 on Bean White Mold, 2012

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**Crop:** Pinto Bean (*Phaseolus vulgaris* "Montrose")

**Organism:** White Mold (*Sclerotinia sclerotiorum*)

White Mold in Bean caused by fungus *Sclerotinia sclerotiorum* is a challenging pathogen affecting dry beans. The fungus infects stems, branches, leaves and pods resulting in characteristic white mold growth. As disease progresses, white bleached stems, wilted leaves and soft lesions/rotting can be observed on pods. If untreated, disease can cause significant yield reductions.

### Materials and Methods:

Pinto bean (Var. Montrose) was planted on 5' x 25' test plots. Treatment sprays were applied at 10% and 50% bloom using 45 GPA. Disease intensity and phytotoxicity was measured on 50 plants per plot. Total yield and seed size were taken at harvest.

#### Features & Benefits

- Zero-Days to Harvest and Zero-Hour REI
- Exempt from Pesticide Residue
- No Mutational Resistance
- Powerful Tank Mix Partner
- Broad Spectrum Chemistry with Efficacy Against Bacterial and Fungal Pathogens

**Table 1. Treatments and Rates**

Treatment	Rate/Acre
1. Untreated Control	N/A
2. OxiDate 2.0 + Induce (Surfactant)	1.0% v/v + 0.125% v/v
3. OxiDate 2.0 + Endura + Induce	0.5% v/v + 11.0 oz./A + 0.125% v/v

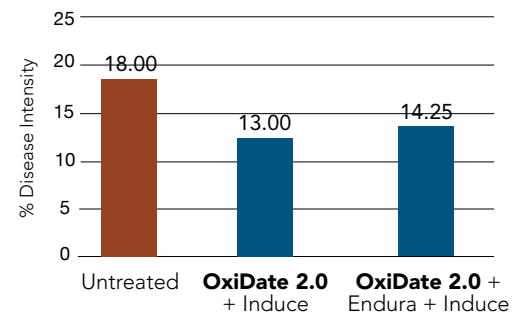
## Summary & Results:

Although the trial was pre-inoculated with conditioned sclerotia, the white mold incidence and severity was moderate with only 18% intensity in the untreated control, which was attributed to the hot, dry conditions that persisted throughout the growing season. Two applications of OxiDate 2.0 + Induce applied at a 1.0% v/v rate during bloom period provided the best overall intensity reductions, but most importantly both treatments provided between a 10-11% total yield increase.

Economically, a 10% yield increase for this pinto bean variety could gross an additional \$90-120/acre. Fields under high disease pressure or fields with a history of high pressure should apply OxiDate 2.0 at a 1.0% v/v rate in combination with a residual, such as Endura that was included in one of the above treatments.

*For full results, please contact BioSafe Systems.*

**Figure 1. OxiDate 2.0 and White Mold Disease Intensity in Bean**



**Figure 2. OxiDate 2.0 and Total Yield of Pinto Beans**

