



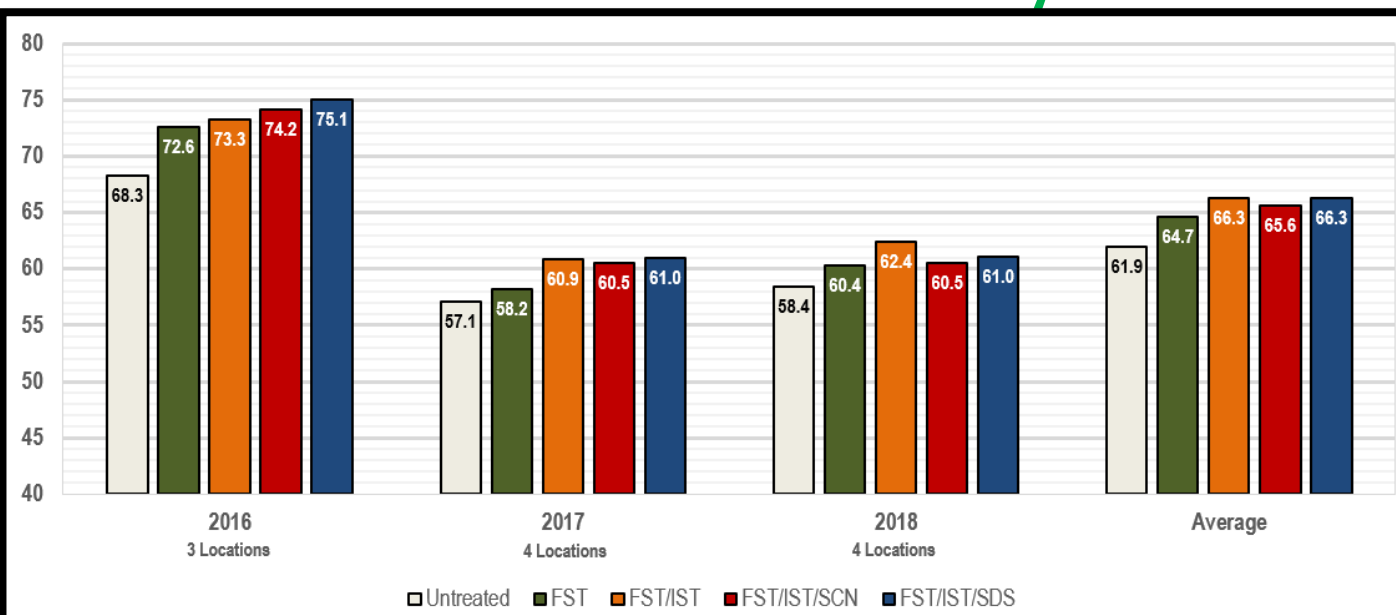
# SW MN Soybean Seed Treatment Study

**Trial Objective:** To compare the Pioneer Premium Seed Treatment product options to show the value when compared to untreated seed and our other seed treatment offerings. Trials were conducted near Worthington MN. Trials were conducted in 2016, 2017 and 2018 to compare untreated seed to FST, FST/IST, FST/IST/ILeVo SCN Rate and FST/IST/ILeVo SDS Rate. Varieties used 2016 P22T73R, 2017 P25T51R, 2018 P22T73R.

**Conclusion:** When FST was added an average of 2.8 bu./ac were gained over untreated seed on average over the 3 years. When FST/IST was added 4.4 bu./ac was gained over the untreated check. When ILeVo was added there was no consistent increase in yield however SCN samples were taken and SCN levels were reduced consistently over the 3 year trial. No significant SDS pressure was observed at these locations over the 3 years.

Data and Trials provided by 266 Ag Service in Reading MN

## 3 Year Seed Treatment Study Data



Treatment	Treatment Advantage	ROI Advantage for Treatment
FST vs. Untreated	+2.8 bu./ac	+\$18.70
FST/IST vs. Untreated	+4.4bu./ac	+\$28.60

Prices assumed: \$9.00 Soybeans - \$6.50/Unit FST - \$11.00/Unit FST/IST



## Soybean Seed Treatment Offerings

**PREMIUM FUNGICIDE OFFERING:** FUNGICIDE SEED TREATMENT WITH LUMISENA AND PPST 2030 BIOLOGICAL  
**ENHANCED OFFERING:** PREMIUM FUNGICIDE PLUS INSECTICIDE INCLUDING GAUCHO® AND/OR ILeVO® SCN RATE/SDS RATE  
**ADDITIONAL OFFERING:** ILeVO® SCN RATE/SDS RATE AND INOCULANT 120+ MAY BE ADDED TO ANY OF THE ABOVE OFFERINGS

### FUNGICIDE SEED TREATMENT

#### Ingredients

##### DuPont™ Lumisena™

- Phytophthora

##### EverGol® Energy

- Pythium
- Rhizoctonia
- Fusarium

#### Product features and attributes

- Protect your plant roots from Phytophthora, the No. 1 yield robbing disease in soybeans



#### Differential yield advantages

**Lumisena™**  
**+1.0 bu/A**  
 broad acre  
**+4.0 bu/A**  
 susceptible fields

\*Data is based on 638 head-to-head comparisons between DuPont™ Lumisena™ fungicide seed treatment (0.568 fl oz/cwt) and metaxyl (0.75 fl oz/cwt) in the top 10 soybean-producing states through Dec. 12, 2017. Comparisons were made utilizing the same soybean variety. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION.

### BIOLOGICAL

#### Ingredient

##### PPST 2030

Exclusive to Corteva Agriscience™, Agriculture Division of DowDuPont seed brands

#### Product features and attributes

- Two biological microorganisms – a high-performance polymer and colorant
- Colonizing microorganisms provide an enhanced environment that promotes root growth
- Stimulates rhizobia, leading to better nodulation

#### Differential yield advantage

**PPST 2030**  
**+0.6 bu/A**

77 research locations comparing standard FST/IST with PPST 2030 vs. without PPST 2030.

### INSECTICIDE SEED TREATMENT

#### Ingredient

##### Gauche®

- Bean leaf beetle
- Soybean aphid
- Seed corn maggot
- Others

### NEMATICIDE & SDS SEED TREATMENT

#### Ingredients

##### ILeVO® – SCN Rate

- Soybean cyst nematode

##### ILeVO® – SDS Rate

- Soybean cyst nematode
- Sudden death syndrome

### INOCULANT

#### Ingredient

##### 120+ inoculant plus extender

- Helps improve nitrogen fixation
- Helps prolong rhizobia up to 120 days after application