

Pea Fungicide Trial

Trial ID: 2020-PF01 – R.M. of Woodlands

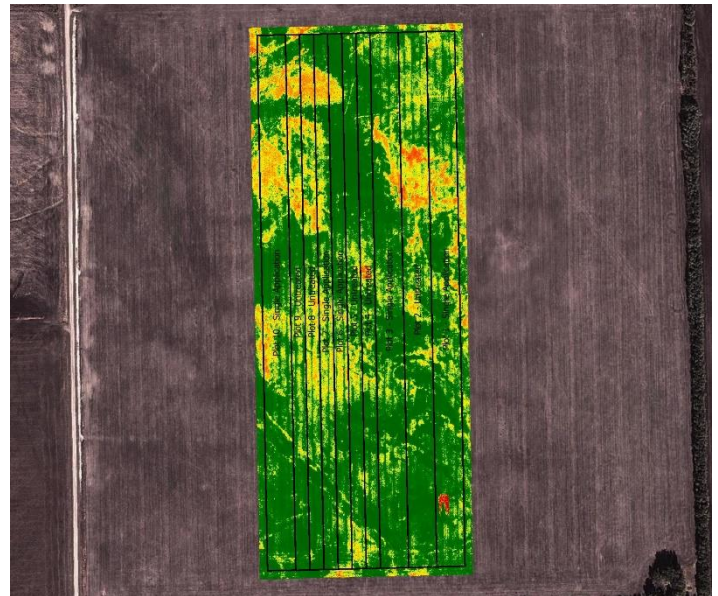
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas

Summary: Foliar and stem ascochyta were prevalent throughout the trial at low levels. There was no significant yield difference between peas with and without a single application of Dyax. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide application.

Trial Information

| | |
|---------------------------|-------------------|
| Treatment | Dyax |
| Application Timing | R1 |
| Application Date | June 24 |
| Application Rate | 160 ml/ac |
| Application Method | Broadcast |
| Soil Texture | Clay Loam |
| Previous Crop | Wheat |
| Tillage | Zero Till |
| Seeding Date | May 7 |
| Variety | AAC Carver |
| Seeding Rate | 204 lbs/ac |
| Row Spacing | 10" |
| Plant Stand @ R3 | 288 000 plants/ac |
| Harvest Date | Aug 7 |

NDVI Field Image July 29



Precipitation (mm)

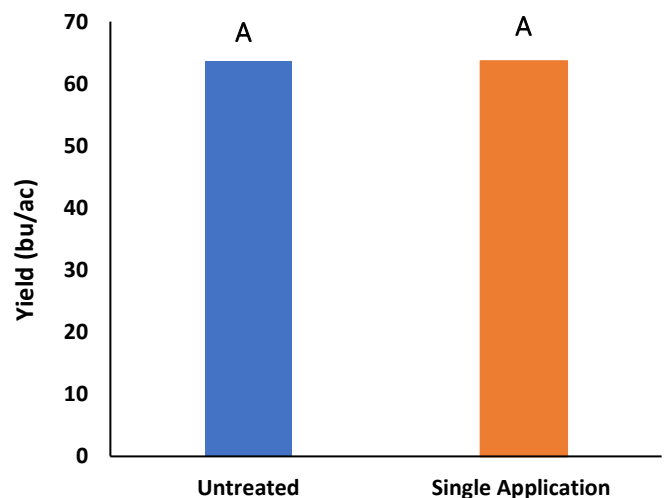
| | May | June | July | August |
|-----------------|------|------|------|--------|
| Normal | 53.8 | 92 | 66.4 | 63.3 |
| Rainfall | 36.2 | 51 | 47.1 | 91.5 |

Summary of Disease Rating (R3) †

| | Foliar Ascochyta | | Stem Ascochyta | |
|------------------|------------------|------|----------------|-----|
| | UN | SGL | UN | SGL |
| Incidence | 100% | 100% | 100% | 98% |
| Severity | 2.8 | 2.7 | 2.4 | 2.2 |

† SGL=Single application; Foliar ascochyta 1 – 7 rating scale, stem ascochyta 1-7 rating scale

Yield by Treatment





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Pea Fungicide Trial

Overall Yield & Economics

| | Mean (bu/ac) | Cost † | Change in Profit/ac †† |
|---------------------------|--------------|-----------------|------------------------|
| Single Application | 63.6 | \$20/ac | -\$20/ac |
| Untreated | 63.6 | | |
| Yield Difference | 0.0 | | |
| P-Value | 0.9529 | | |
| CV | 4.3% | | |
| Significance | No | Economic | No |

† Based on MB Agriculture 2020 Cost of Production Guidelines; product cost only, does not include application cost

† † Because yields were not significantly different, there is no increased income to offset the cost of the fungicide. Profit/ac declined by the cost of the fungicide application.