

## **Field Pea, Disease Management, LRZ Northern Mallee (Werrimull), Victoria**

### **Aim**

To evaluate fungicide strategies to manage blackspot in field pea in the low rainfall Mallee environment.

### **Treatments**

Eight fungicide strategies were compared to a nil control and full control (fortnightly Chlorothalonil @ 1.5 L/ha). Treatments combined fungicides applied to either the seed (P Pickel T) or fertiliser (Uniform @ 400 ml/ha) with foliar applied fungicides (Aviator Xpro @ 600 ml/ha or Amistar @ 600 ml/ha) (**Table 1**). All treatments were sown to PBA Twilight field peas at 99 kg/ha.

**Table 1.** Fungicide treatments for the blackspot management in field pea trial at Werrimull in 2018.

<b>Fungicide Strategy</b>	<b>Seed Treatment</b>	<b>Fertiliser Treatment</b>	<b>In-crop Fungicide</b>
1. Nil	Nil	Nil	Nil
2. PPT	PPT	Nil	Nil
3. Uniform	Nil	Uniform	Nil
4. Aviator Xpro	Nil	Nil	Aviator Xpro
5. Amistar	Nil	Nil	Amistar
6. PPT + Aviator Xpro	PPT	Nil	Aviator Xpro
7. PPT + Amistar	PPT	Nil	Amistar
8. Uniform + Aviator Xpro	Nil	Uniform	Aviator Xpro
9. Uniform + Amistar	Nil	Uniform	Amistar
10. Full Control - Clothoronil (Fortnightly)	PPT	Nil	Chlothoronil

**Table 2.** Other Site Details

<b>Sowing Date</b>	15 May 2018
<b>Plant Density (plant/m<sup>2</sup>)</b>	45
<b>Stubble (height cm)</b>	5
<b>Row Spacing (cm)</b>	28
<b>Fertiliser</b>	50 kg/ha Granulock Z

### Results and Interpretation

- Well below average growing season rainfall did not provide favourable conditions for the development of blackspot, therefore there were no significant differences in grain yield between any treatments. The mean yield across all varieties was 0.64 t/ha (**Table** ).

**Table 3.** Field pea grain yield at Werrimull in 2018 for each fungicide strategy.

<b>Treatment</b>	<b>Grain Yield (t/ha)</b>
1. Nil	0.65
2. PPT	0.60
3. Uniform	0.60
4. Aviator Xpro	0.44
5. Amistar	0.74
6. PPT + Aviator Xpro	0.58
7. PPT + Amistar	0.69
8. Uniform + Aviator Xpro	0.65
9. Uniform + Amistar	0.67
10. Full Control – Chlorothalonil (Fortnightly)	0.83
<b>LSD (P&lt;0.05)</b>	<b>NS</b>