

Faba bean disease management

Parkes 2021

Key findings

- Grain yield of the two faba bean varieties PBA Nasma[Ⓛ] and PBA Samira[Ⓛ] was very high, with an average yield of 6.2 t/ha.
- Chocolate spot disease severity was low across the trial.
- Fungicide application reduced chocolate spot severity in both varieties.
- The low level of chocolate spot infection did not reduce yield.
- PBA Nasma[Ⓛ] had slightly more chocolate spot infection than PBA Samira[Ⓛ].
- PBA Samira[Ⓛ] (6.4 t/ha) yielded slightly more than PBA Nasma[Ⓛ] (6.1 t/ha).

Trial Details

Table 6: Trial management and fungicide treatments applied to faba beans at Parkes in 2021.

Management			
Sowing Date	13 May		
Harvest Date	14 December		
Starter Fertiliser	30 kg/ha MAP		
Varieties	PBA Nasma [Ⓛ] and PBA Samira [Ⓛ]		
Treatment	Date applied	Fungicide product*	Fungicide rate (per ha)
Nil		Nil	
Budget	23 August	Mancozeb 750	1.7 kg
Delayed	16 September	Aviator® Xpro®	0.6 L
Complete	16 June	Mancozeb 750	1.7 kg
	23 August	Aviator® Xpro®	0.6 L
	16 September	Chlorothalonil + Carbendazim	2.3 L + 0.5 L
	27 September	Veritas®	1.0 L
	6 October	Chlorothalonil	2.3 L

* Mancozeb 750 = 750 g/kg mancozeb; Aviator® Xpro® = 75 g/L bixafen and 150 g/L prothioconazole; Carbendazim = 500 g/L carbendazim; Chlorothalonil = 720 g/L chlorothalonil; Veritas® = . 120 g/L azoxystrobin + 200 g/L tebuconazole

Results

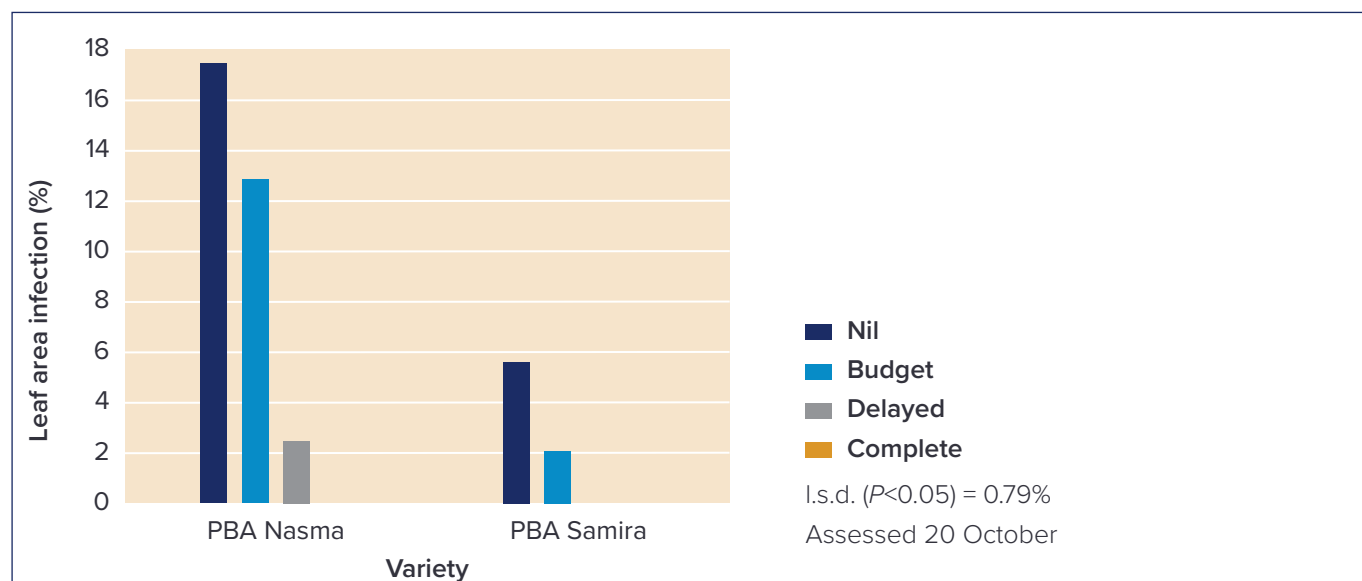


Figure 6: Effect of four fungicide strategies on chocolate spot leaf area infection at Parkes in 2021.

Table 7: Grain yield of faba beans under four fungicide strategies at Parkes in 2021.

Fungicide strategy	Yield (t/ha)		
	PBA Nasma	PBA Samira	Mean (Fungicide)
Nil	6.0	6.6	6.3
Budget	6.2	6.5	6.3
Delayed	6.2	6.3	6.3
Complete	5.9	6.3	6.1
Mean (Variety)	6.1	6.4	
I.s.d. ($P < 0.05$) Variety	0.19		
I.s.d. ($P < 0.05$) Fungicide	n.s.		
I.s.d. ($P < 0.05$) Variety × Fungicide	n.s.		