

Chickpea disease management

Ganmain and Caragabal 2021

Key findings

- Ascochyta blight was detected at both Ganmain and Caragabal, with infection observed in the *Complete* fungicide treatment.
- CBA Captain[®] had less Ascochyta infection than PBA Slasher[®] at Ganmain (only CBA Captain[®] sown at Caragabal).
- At both Ganmain and Caragabal, a *Complete* fungicide program and a *Budget* fungicide program reduced Ascochyta blight infection compared to the *untreated* control.
- At Caragabal, grain yield was highest with the *Complete* fungicide program (2.20 t/ha) with no difference between the *Budget* program and the *untreated* control.
- The Ganmain site was not harvested due to a hail storm on 18 December.

Trial details

Table 20: Trial management and fungicide treatments applied at Ganmain and Caragabal in 2021.

Management	Ganmain			Caragabal		
Sowing Date	19 May			19 May		
Starter fertiliser	170 kg/ha single super					
Fungicide strategy	Fungicide applied					
	Date	Rate	Fungicide	Date	Rate	Fungicide
Nil	Nil			Nil		
Budget	30 June	1 kg/ha	Mancozeb	13 July	1 kg/ha	Mancozeb
	17 September	1 L/ha	Chlorothalonil	15 September	1 L/ha	Chlorothalonil
Delayed	28 September	0.6 L/ha	Aviator® Xpro	N/A		
Complete	30 June	1 kg/ha	Mancozeb	13 July	1 kg/ha	Mancozeb
	21 August	1 kg/ha	Mancozeb	22 August	1 kg/ha	Mancozeb
	17 September	0.6 L/ha	Aviator® Xpro	15 September	0.6 L/ha	Aviator® Xpro
	28 September	1 L/ha	Chlorothalonil	27 September	0.5 L/ha 1 L/ha	Carbendazim + Chlorothalonil
	11 October	0.5 L/ha 1 L/ha	Carbendazim + Chlorothalonil	19 October	0.5 L/ha 1 L/ha	Carbendazim + Chlorothalonil

* Mancozeb = 750 g/kg mancozeb; Carbendazim = 500 g/L carbendazim; Aviator[®] Xpro[®] = 75 g/L bixafen and 150 g/L prothioconazole; Chlorothalonil = 720 g/L chlorothalonil.

Results

Ascochyta blight infection

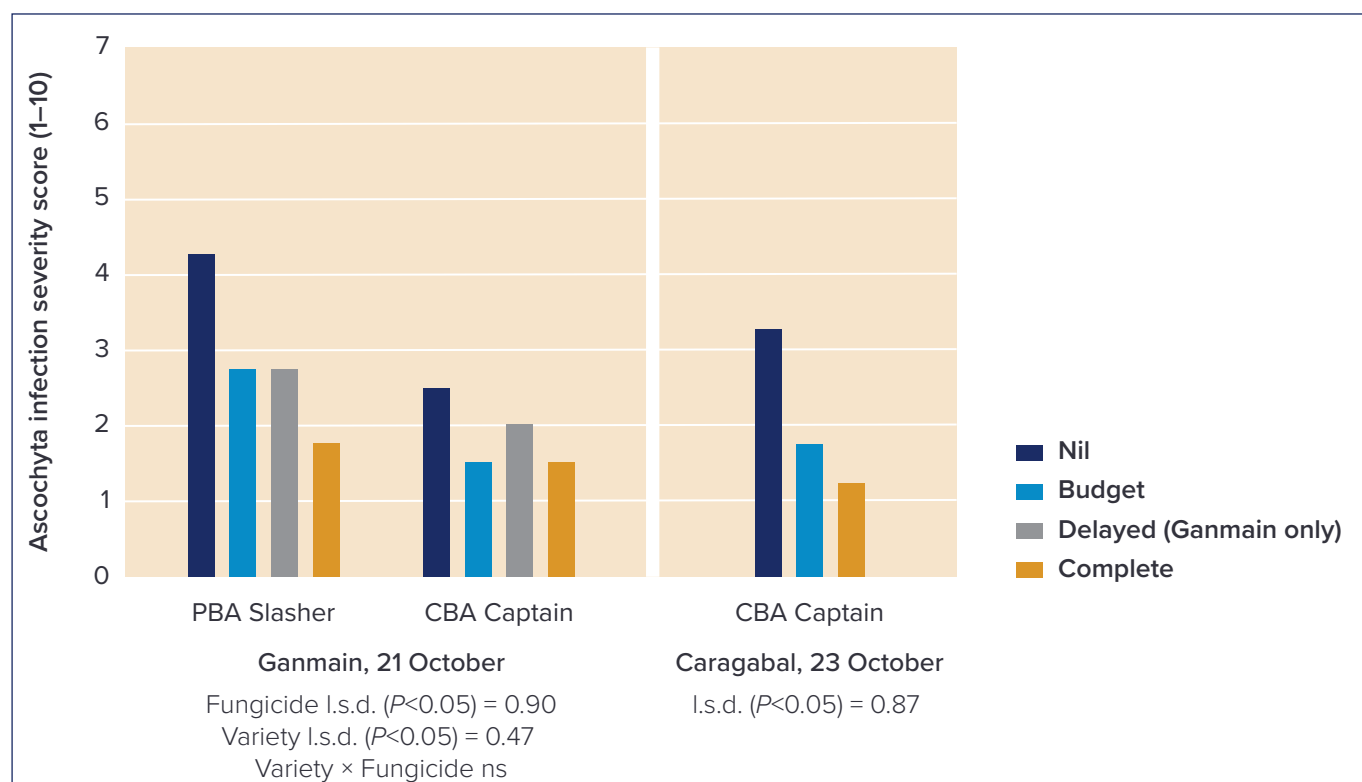


Figure 20: Effect of fungicide management on *Ascochyta* blight infection in late October at Ganmain and Caragabal in 2021.



Figure 21: *Ascochyta* blight infection on chickpea stem (left) and leaf (right).

Grain yield

Only Caragabal harvested due to hail storm causing crop damage at Ganmain on 18 December.

Table 21: Grain yield of CBA Captain with three fungicide strategies at Caragabal in 2021.

Fungicide strategy	Yield (t/ha)
Nil	1.62
Budget	1.77
Complete	2.20
Fungicide l.s.d. ($P<0.05$)	0.37