

Faba bean plant density

Ganmain and Caragabal 2021

Key findings

- Increasing plant density from 10 to 40 plants/m² increased the lower pod height from 30 to 41 cm and the upper pod height from 70 to 85 cm (measured only at Ganmain).
- There was close to a 1 t/ha yield increase at Ganmain where plant density increased from 10 to 20 plants/m² (65 to 130 kg/ha seeding rate), with no further yield response to higher plant densities.
- There was no difference in grain yield with plant density ranging from 20 to 40 plants/m² at Caragabal.
- Grain size increased as plant population increased at Ganmain but there was no difference in grain size across the plant populations at Caragabal.

Trial Details

Table 14: Trial management and treatments applied at Ganmain and Caragabal in 2021.

Management		Ganmain	Caragabal
Sowing Date		28 April	29 April
Variety		PBA Samira [Ⓛ]	
Starter Fertiliser		170 kg/ha single super (0% N, 8.8% P, 11% S)	
Treatment	Sowing rate (kg/ha)	Established plant density (plants/m ²)	
10 plants/m ²	65	13	11
20 plants/m ²	130	21	21
30 plants/m ²	195	29	27
40 plants/m ²	260	35	34

Results

Pod Depth

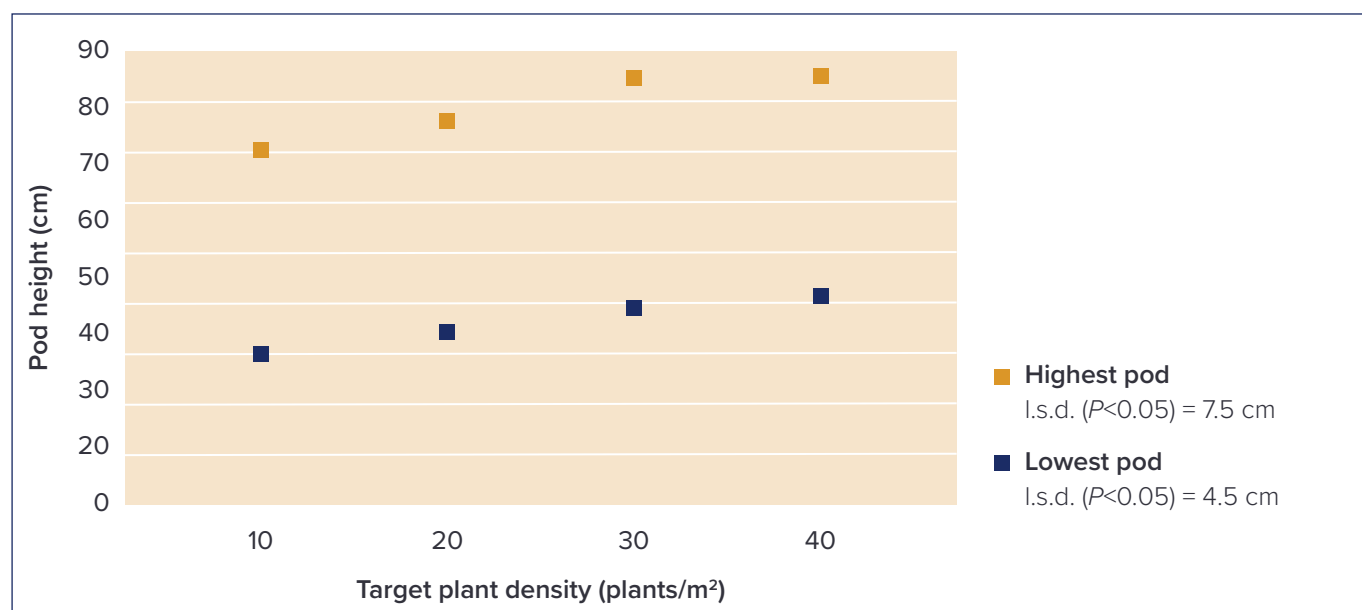


Figure 10: Effect of seeding rate on faba bean (PBA Samira[®]) pod depth at Ganmain in 2021.

Grain yield

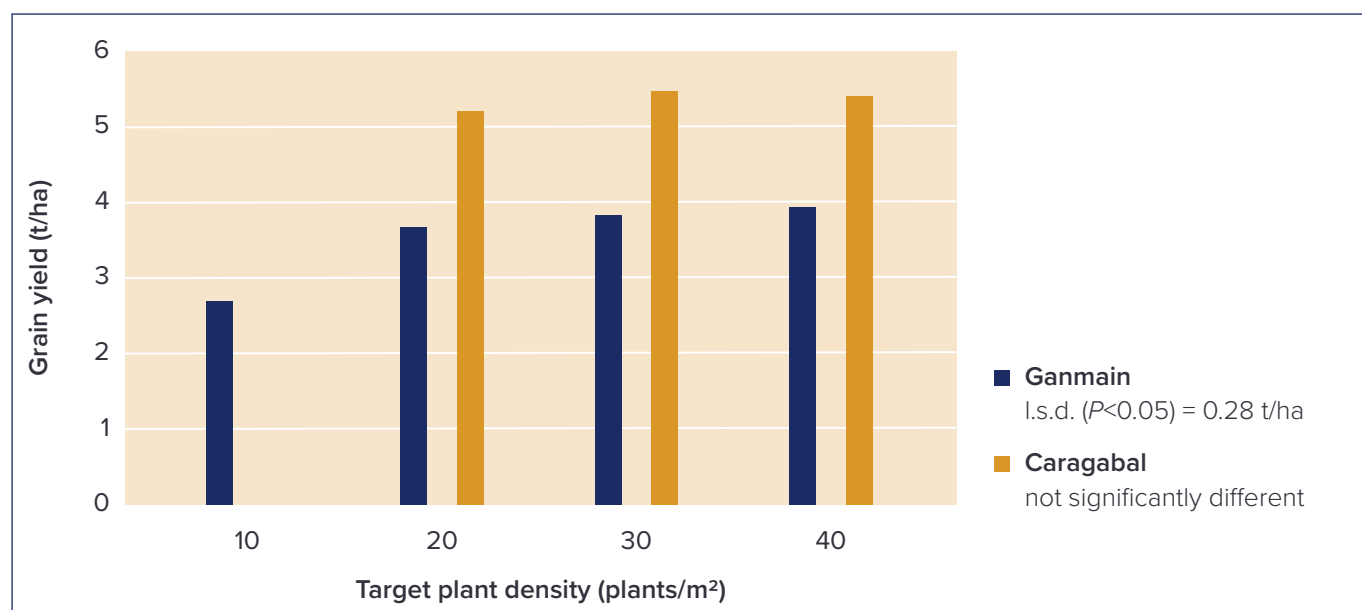


Figure 11: Effect of plant population on grain yield of faba bean (PBA Samira[®]) at Ganmain and Caragabal in 2021.

Seed weight

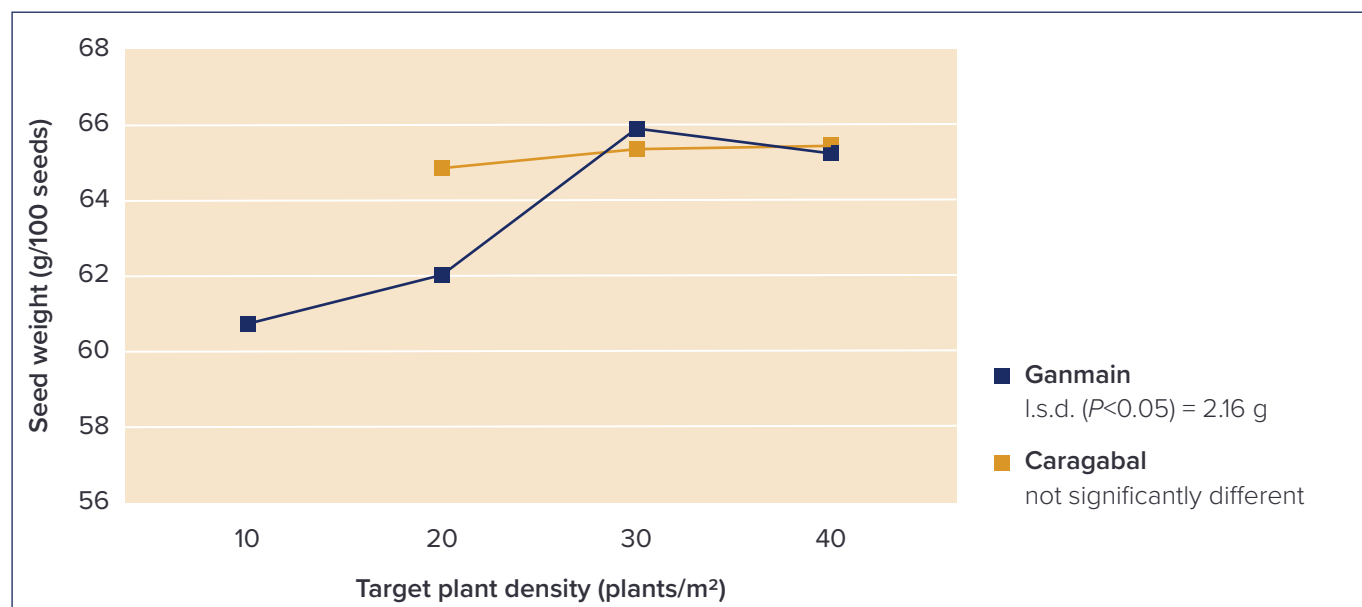


Figure 12: Effect of plant population on harvested seed weight of faba bean (PBA Samira[®]) at Ganmain and Caragabal in 2021.