

pulses

FIELD FACTS

NOTICE
END POINT
ROYALTIES APPLY
TO THIS VARIETY

Cairo

Faba Bean

FEATURES

- The first Faba bean to be selected for northern NSW and southern Queensland
- Mid-flowering, similar to Fiord, Barkool and Fiesta, earlier than Icarus
- Yield is 8-10% superior to Fiord, Barkool and Fiesta
- Medium seed size, similar to Fiesta
- Rust resistance is superior to Fiord, Barkool
- Chocolate spot resistance is superior to Fiord and Barkool but less than Fiesta
- Superior frost tolerance to Fiord

VARIETY OVERVIEW

Cairo is the first Faba bean cultivar to be selected specifically for adaptation to northern NSW and southern Queensland. Cairo's combination of yield, seed size and disease resistance is a significant advantage over varieties currently available in this region. Cairo is seen as a replacement for all the current commercial varieties used in the northern grain belt. Cairo is a significant variety in the northern areas of NSW and southern QLD.

CHARACTERISTICS

Cairo is a white flowering, broad leaf style Faba Bean with medium height (60-100cm). Flowering occurs in 50-75 days depending on planting date and is similar to Fiord and Barkool in NNSW. 2 to 4 medium sized seeds are produced/pod.

BREEDING

Plant breeder Dr Ian Rose selected Cairo in 1995 at the Australian Cotton Research Institute Narrabri, from an outcrossed population of Accession 972 from the University of Adelaide working collection for faba beans. Breeding was supported by grower funding through the GRDC.



Irrigated seed production crop of Cairo grown at Narrabri

Cairo is produced and marketed under an exclusive license to Graintrust Pty Ltd. Seed is available through PlantTech.

PERFORMANCE

Yield data from NSW DPI across 43 sites have demonstrated Cairo out yielding Fiord, Barkool and Fiesta by 8.6%, 10.5% and 8.5% respectively.

AGRONOMY

Cairo is recommended as a replacement for Fiord and Barkool in areas from the Macquarie Valley of NSW north to southern Queensland. A variety specific best management practice has been developed specifically for Cairo and can be obtained on the PlantTech website. Seedbed preparation, herbicide use, planting date, plant population, row spacing, fertiliser requirements, water use and insect management should remain unchanged. The use of best management practices are encouraged.

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DISEASE MANAGEMENT

Rust: Cairo is moderately resistant to rust (*Uromyces viciae-fabae*) and is therefore superior to the susceptible varieties Fiord, Barkool and Fiesta. Resistance will provide adequate control of this disease in most situations. In the most severe epidemics the level of resistance in Cairo will reduce (but not eliminate) the need for fungicide sprays to control this disease.

Chocolate Spot: Cairo has low levels of resistance to chocolate spot. Chocolate spot resistance is superior to Fiord and Barkool but less than Fiesta and Icarus. Cairo resistance is too low to make any significant difference to management of this disease.

Ascochyta Blight: Ascochyta is currently of not significant in the northern region. Cairo has been tested at the Waite Institute in South Australia and displayed a similar level of resistance to Fiord. Cairo poses no greater risk than existing cultivars.

Virus Diseases: Cairo has been tested against *Bean leafroll virus* (BLRV) at Tamworth and Breeza with no useful resistance to this virus. However, disease scores for Cairo have been lower than Fiord and Fiesta allowing the general conclusion that there is no extra risk from BLRV when growing Cairo.

DISEASE RESISTANCE RATINGS

Description	Rating*	Rust	Chocolate Spot
Highly Resistant	1 2		
Moderately resistant	3 4	Cairo	Icarus
Intermediate	5		Cairo, Fiesta
Moderately Susceptible	6 7	Fiord, Fiesta Barkool	Fiord
Highly Susceptible	8 9		

Disease ratings scored by NSW Agriculture at Tamworth and Narrabri *Under heavy disease pressure with no control measures .

1= all plants free of disease 9=all plants dead

PBR - Cairo is protected by Plant Breeders Rights. Any unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement under the Plant Breeder's Rights Act 1994.

EPR - Growers may retain seed from production of Cairo for their own seed use. An end point royalty (EPR) of \$3.00 per tonne (GST exclusive) applies to Cairo. Details of the EPR are on the PlantTech website or by phoning PlantTech toll free on 1800 112 400.

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