



Faba bean varieties 2005

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Selecting a variety

Faba bean growers have access to several faba bean varieties with various resistances to the diseases that occur across southern Australia. Identifying the variety that is best adapted to your growing area and will give the opportunity for greatest return requires consideration of a number of factors.

Ⓢ Denotes that Plant Breeder Rights apply to this variety.

Latest Release

Farah Ⓢ is a direct Arabic translation of Fiesta and will be a replacement for this popular variety. Farah has greater ascochyta blight resistance to both leaf and pod infection than Fiesta VF, and similar to the variety Ascot. Greater ascochyta resistance will reduce the grain staining from ascochyta at harvest. Farah yield is similar to Fiesta VF across southern Australia and performs best in mid rainfall environments. Farah's seed size is medium, similar to FiestaVF and a medium maturing variety.

Released 2004, tested as ACC483/3 and marketed by PlantTech Pty Ltd.

Cairo Ⓢ is the first faba bean to be selected for northern NSW and southern Queensland. Cairo is a mid season flowering variety, similar to Fiord, Barkool and FiestaVF, and flowers earlier than Icarus. Cairo yields 8-10% more to Fiord, Barkool and Fiesta VF in northern NSW growing areas. Cairo was selected for its improved rust resistance compared to Fiord, Barkool and FiestaVF. Cairo is extremely susceptible to ascochyta blight and therefore is not recommended to be grown in southern NSW, VIC and South Australia. The grain size is similar to Fiesta VF.

Released 2002, tested as SP95054 and marketed by PlantTech Pty Ltd

Broad Beans

Variety Description

Aquadulce is a large seeded (100-150 g/100 seeds) faba bean which is commonly referred to as a broad bean. It is later flowering than Fiord and is therefore more suited to medium to high rainfall areas. Aquadulce is more resistant to chocolate spot than Fiord but less resistant than Icarus. Sowing and harvesting of this variety can be difficult because of its large seeds. Premiums are paid for the large seed, which is graded for human consumption markets.

Released 1982, tested as ACC617.

Faba bean

Variety Description

Ascot is ascochyta blight resistant variety selected from Fiord that was released in 1996. Ascochyta blight resistance reduces the need for fungicide application, reduces lodging and improves seed quality. However, Ascot is susceptible to chocolate spot and has yielded similar to or less than Fiord in Victoria. Ascot matures at a similar time to Fiord. The seed of Ascot is similar in size to Fiord and suitable for human consumption where it is mainly used for canning.

Released 1996, tested as ACC621 and ACC 622.

Ascot is no longer protected by Plant Breeders Rights

Barkool Ⓢ was selected from Fiord in NSW. Barkool was selected for the adaptation to low rainfall environments and short growing seasons. Barkool has similar seed characteristics to Fiord and is very susceptible to chocolate spot, moderately susceptible to ascochyta blight and susceptible to rust.

Released 1995, tested as ACC1001 and marketed by PlantTech Pty Ltd.

Fiesta VF was introduced from the International Centre for Agricultural Research in Dry Areas (ICARDA) in Syria and released by the National Faba Bean Improvement Program in 1998. Fiesta VF is moderately resistant to moderately susceptible to ascochyta blight and susceptible to chocolate spot and rust. Fiesta VF is widely adapted throughout southern Australia. The seed colour of Fiesta VF is similar to Fiord, but the seed size is 50% larger and more suited to the export market. Fiesta VF flowers at approximately the same time as Fiord but matures slightly later.

Released 1998, tested as ACC483 and marketed by PlantTech Pty Ltd.

Fiord is a small seeded faba bean variety that was released in South Australia for commercial planting in 1981. Fiord is very susceptible to chocolate spot, moderately susceptible to ascochyta blight and rust. Fiord was the most widely grown faba bean variety in Australia until the release and adoption of FiestaVF.

Released 1980, tested as ACC59.

Icarus was selected from BPL710, an Ecuadorean line obtained from ICARDA. Icarus has a medium sized seed with a light green seed coat. It is moderately resistant to chocolate spot and has some rust resistance, but it is very susceptible to ascochyta blight. Icarus begins flowering two weeks later than

Fiord and is best suited to medium and high rainfall and irrigation regions.

Released 1992, tested as ACC969.

Manafest was selected from ILB3026, an Ecuadorean landrace obtained from ICARDA. The name Manafest is in recognition of its improved efficiency in taking up manganese (Mn) and iron (Fe) and it is tolerant to iron and manganese deficiency occurring on heavy black clay and peat soils in the southeast of SA. Manafest is moderately resistant to moderately susceptible to chocolate spot and rust, but is susceptible to ascochyta blight. Manafest is suited to medium to high rainfall areas. The seed of Manafest is medium to large (approximately 85-100g/100 seeds) and a slightly lighter shade buff than Fiord and Fiesta VF.

Released 2000, tested as ACC974 and marketed by AWB Seeds.

YIELD

Table 1. Long-term yield of faba bean varieties in Victoria (1999-2004) (yield as % FiestaVF).

Variety	Mallee	Wimmera	North Central (Irrigation)	North East
	FiestaVF	FiestaVF	FiestaVF	FiestaVF
t/ha	1.63	3.42	3.37	3.55
Ascot	78	84	84	83
Barkool	99	83	97	97
Farah	105	95	86	92
FiestaVF	100	100	100	100
Fiord	104	95	94	97
Icarus	69	66	88	74
Manafest	83	86	88	96
Aquadulce	84	89	-	64

* Note: No S4 advanced faba bean trials in 2003 were harvested in the South West due to waterlogging

* Note: No faba bean trials were harvested in the Wimmera, Mallee and North Central Regions in 2002 due to drought

DISEASE**Table 2.** Characteristics of commercial faba bean varieties.

Variety	Seed Coat Colour	Seed Size	Flowering Time	Maturity	Ascochyta Blight	Chocolate Spot	PBR	Marketing Company
Aquadulce	Buff	Large	Mid	Late	MS	MS	No	-
Ascot	Buff	Small	Early	Early	R	VS	No	-
Barkool	Buff	Small	Early	Early	MS	VS	Yes	Plant Tech
Cairo	Buff	Medium	Early	Early	VS	VS	Yes	Plant Tech
Farah	Buff	Medium	Early-Mid	Mid	MR-R	S	Yes	Plant Tech
Fiesta VF	Buff	Medium	Early-Mid	Mid	MR-MS	S	Yes	Plant Tech
Fiord	Buff	Small	Early	Early	MS	VS	No	-
Icarus	Green	Medium	Late	Late	VS	MR	No	Seed Co
Manafest	Buff	Medium	Mid	Mid	VS	MS	No	AWB Seeds

VS – very susceptible, MS – moderately susceptible, S – susceptible, MR – moderately resistant, R - resistant

Variety may no longer be resistant due to the occurrence of new races (making variety susceptible)

* These ratings are less reliable and should be treated with caution

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