

Nura

Faba Bean

VARIETY SUMMARY

- Improved resistance to ascochyta, chocolate spot and rust.
- Shorter than Fiesta and Farah. Has improved stem strength and is less inclined to lodge.
- Suitable for all existing human consumption and livestock feed markets.
- For a detailed management guide, refer to the Variety Management Package (VMP) on the Seednet website: www.seednet.com.au



BREEDING

Nura (formerly Ic*As7/3) was bred by Dr Jeff Paull, University of Adelaide as part of the National Faba Bean Breeding Program. It was produced from a cross between Icarus and Ascot and selected for its buff seed and disease resistance to both chocolate spot and ascochyta.



AREA OF ADAPTATION

Nura can be grown in similar areas to Farah and Fiesta, but the risk of ascochyta is lower than that of Fiesta.

- Suited to medium and high rainfall areas of SA, VIC and southern NSW.
- Suitable for all areas where there is a high risk of Ascochyta and Chocolate spot.



GRAIN QUALITY CHARACTERISTICS

Seed size of Nura is 5 – 10% smaller than Fiesta and Farah, but 30 – 40% larger than Fiord. The grain is light buff in colour and considered ideal for the Egyptian market.



PLANT CHARACTERISTICS AND MATURITY

Nura is shorter than Fiesta and Farah, more similar to Fiord, and is less likely to lodge, but its bottom pods are closer to the ground. It flowers about 7 days later than Fiesta, but matures at about the same time.



SOIL TYPE

It is the most tolerant of Australian faba bean varieties to high concentrations of soil boron.



YIELD

Table 1. Long term yield performance (2000-09) in NSW (I&I NSW 2010 Sowing Guide) and VIC (2010 NVT)

Variety	NSW		VIC	
	Sth East	Sth West irrig	Wimmera	Nth East
	% Fiesta			
Nura	96	96	96	97
Farah	101	101	101	101
Fiesta	100	100	100	100
Fiord	97	95	96	98

Table 2. Long term yield performance (2000-09) in SA (SARDI 2010 Harvest Report)

Variety	Mid Nth	Yorke Pen	Sth East	Mallee	Upper EP	Lower EP
		% Site mean				
Nura	100	99	98	100	101	102
Farah	104	103	101	104	101	100
Fiesta	103	101	100	104	101	100
Fiord	98	98	93	100	98	100



DISEASE RESISTANCE AND MANAGEMENT

Nura is resistant (MR - R) to ascochyta, similar to Ascot and Farah. It is moderately susceptible to moderately resistant (MS - MR) to chocolate spot, moderately resistant (MR) to rust and susceptible (S) to cercospora.

Table 3. Agronomic and Disease features of Faba Bean varieties.

Variety	Plant Height	Flowering Time	Lodging	Seed Colour	Seed Size	Ascochyta	Chocolate Spot	Rust	Cercospora
Nura	Short	Medium	R	Light Buff	Medium Small	MR-R	MS-MR	MR	S
Farah	Medium	Early	MS	Light Buff	Medium	MR-R	S	S	S
Fiesta	Medium	Early	MS	Buff	Medium	MS-MR	S	S	S
Fiord	Short	Very Early	MR	Buff	Small	MS	VS	S	S
Ascot	Very Short	Very Early	MR	Buff	Small	R	VS	S	S

Key: R = Resistant, S = Susceptible, MR = Moderately Resistant, MS = Moderately Susceptible, VS = Very Susceptible



AGRONOMIC GUIDELINES

Isolation of Seed Crops:

Do not let Nura seed crops out-cross with other varieties. A minimum 200-400m isolation from other bean varieties is needed. Ensure that there are no self-sown beans in the Nura seed crop. Avoid physical contamination with other beans.

Sowing Date:

Target at least the same sowing date as Fiesta and Farah, but preferably earlier.

- Nura achieves maximum yield potential when sown early.
- Yield decline with delays in sowing time may be greater in Nura than other bean varieties.

Herbicide Sensitivity:

Over two years of SARDI herbicide testing on alkaline soils, Nura has performed similar to Fiesta and Farah at label recommended rates of most PSPE herbicides recommended in beans. Testing is on-going, however preliminary results at twice label rates indicate that compared with Fiesta and Farah:

- Nura may be less tolerant to Spinnaker® particularly in low biomass situations.
- Nura may show fewer visual damage symptoms and less yield loss to Simazine.

Crop Rotation:

Ascochyta is a major limitation in beans when grown in close rotation. Due to an increase in resistance, the interval between bean crops could be reduced using either Nura or Farah. However, be aware that the risk of cercospora may increase in beans grown in paddocks with a frequent history of beans grown in the rotation, and so early fungicide treatments may still be required.



PLANT BREEDER RIGHTS AND ROYALTIES

Nura is protected by Plant Breeder 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.

Growers are allowed to retain seed from production of this variety for their own use as seed only.

An End Point Royalty of \$3.30 per tonne (GST inclusive), which includes breeder royalties, applies to this variety.

ACKNOWLEDGEMENTS

The University of Adelaide and SARDI selected Nura for release with support from growers through the GRDC.



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