

DS FARADAY



DS FARADAY

- High yielding, well adapted variety for northern NSW and Queensland
- APH classification for the northern zone
- Class leading pre-harvesting sprouting tolerance
- Suited to early and main season sowing window
- Excellent triple rust resistance

PRE-HARVEST SPROUTING TOLERANCE

The pre-harvest sprouting (PHS) tolerance of DS Faraday has been tested using both grain dormancy measurement and simulated weather exposure (rain simulator) protocols. Changes in grain quality from the rain simulator were recorded using the falling number test.

After 48 hours of simulated rainfall, DS Faraday showed the highest tolerance and remained above the AUH grade with all other varieties falling below 250 seconds (Figure 1).

BREEDING

DS Faraday was bred by the University of Queensland using a cross of EGA Gregory and a novel PHS donor parent line. DS Faraday then was selected by Dow AgroSciences to provide enhanced yield and superior PHS tolerance in a prime hard variety for the northern zone.

PLANT TYPE

DS Faraday has a wide planting window from early through to main season in the northern zone.

It has similar agronomics and maturity to EGA Gregory, flowering in the same window.

DS Faraday is well suited to dryland growing conditions. It trends towards a taller plant type under very favourable conditions, making it less suited to irrigation.

DS Faraday has an excellent rust package being R-MR for stripe and stem rust, and MR for leaf rust.

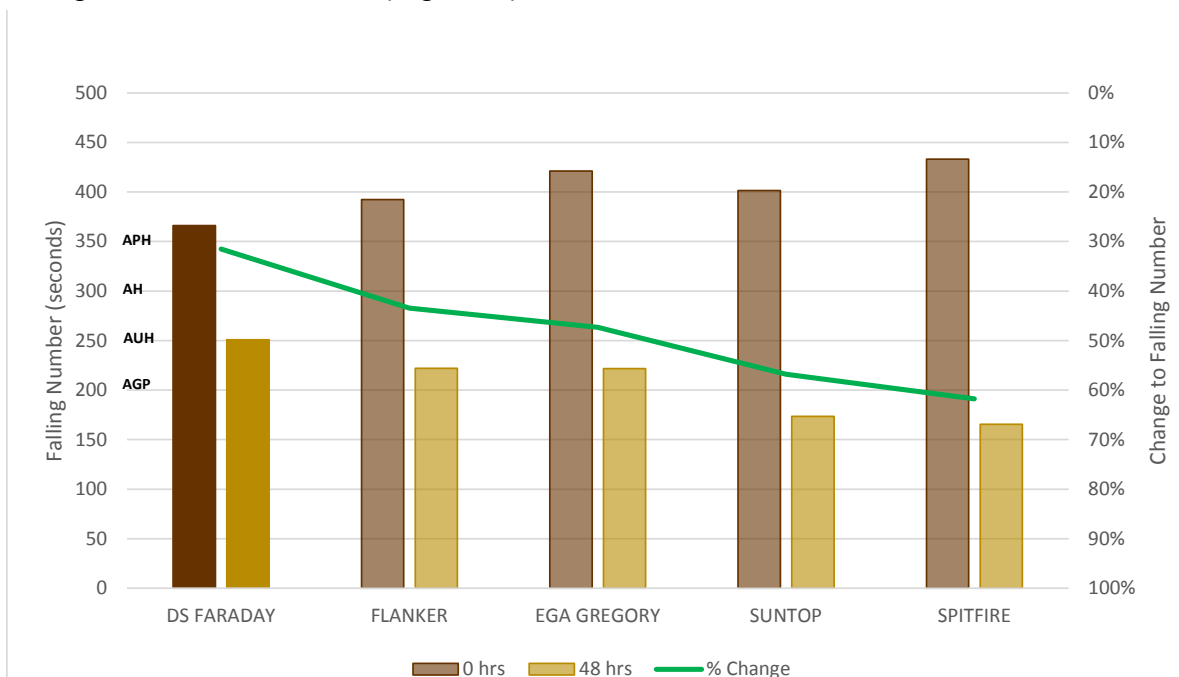


Figure 1. Falling number after simulated rainfall.

APH = Australian Prime Hard; AH = Australian Hard; AUH = Utility grade; AGP = Australian General Purpose



DS FARADAY



Table 1. Disease resistance rating

Varieties	Stripe Rust (WA pathotype) Res.	Stripe Rust res (WA + Yr17+Yr27) Res.	Stem Rust Res.	Leaf Rust Res.	Leaf Rust Res. - new 104 pathotype	RLN Neg. Res.	RLN Thornei Res.	Crown Rot Resis.	Septoria tritici Res.	Yellow Leaf Spot	Black Point Res.
DS Faraday	R-MR	R-MR	R-MR	MR	MR	S	MS-S	S(P)	MS	S	MS-S
Flanker	R-MR	R-MR	R-MR	MR	MR-MS	MS-S	MS	S(P)	S	MS-S	MS
EGA Gregory	MR	MR	MR	MR	MR	MS-S	MS-S	S	MS	S	S
Suntop	MR	MR-MS	MR	MR-MS	MR-MS(P)	MS-S	MR	MS-S	S	MS-S	MS
Spitfire	MR	MR	MR	MS-S	S	MS-S	MS	MS	MS-S	S	S
Lancer	MR	MR	R	R-MR	R-MR	S	MS	MS-S	MS	MS	MS

Resistance Ratings: R = Resistant, R-MR = Resistant–Moderately Resistant, MR–MS = Moderately Resistant–Moderately Susceptible, MS = Moderately Susceptible, MS–S = Moderately Susceptible–Susceptible, S = Susceptible, S–VS = Susceptible–Very Susceptible, VS = Very Susceptible, - = no data available, (P) = provisional rating.

Table 2. Yield data from NVT MET data 2015-16, northern NSW and southern Queensland

Region	Early Series				Main Series					
	NE NSW		NW NSW		NE NSW		NW NSW		SE Qld	
Year	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016
Variety (% of mean yield)										
DS Faraday	107	100	111	100	102	106	102	107	111	109
EGA Gregory	106	101	112	100	100	103	98	104	107	104
Lancer	107	97	114	100	94	96	95	97	101	99
LRPB Flanker	110	106	117	105	104	107	106	107	115	110
Spitfire	-	-	-	-	106	102	98	93	96	93
Suntop	113	101	122	105	101	94	105	102	108	104
Mean yield (T/ha)	3.96	5.19	3.94	4.97	3.85	5.12	3.31	5.03	3.78	5.58

PBR and EPR



DS Faraday is protected by Plant Breeders Rights (PBR). In regard to propagating material (planting seed) of this variety, any unauthorised commercial production or reproduction, conditioning for propagation, offering for sale, sale, import, export or stocking of propagating material is an

infringement under the Plant Breeders Rights Act 1994. Grower to grower trading of seed of DS Faraday is allowed from 2019-20.

DS Faraday growers will be subject to a Licence Agreement at the point of purchase that acknowledges an End Point Royalty (EPR) payment of \$4.25/tonne excluding GST to be paid on all production other than retained planting seed.

SEED AVAILABILITY

Seed is available through your Seednet partner.

CONTACTS

Local Dow AgroSciences representative 1800 700 096

Nick Willey, Wheat Breeder 0457 747 248

Ant Mitchell, Wheat Development 0429 467 884

Jon Thelander, Seednet, 0429 314 909

DISCLAIMER

The information contained in this document is a guide only and is written in good faith on the best knowledge and understanding at the time of writing. Grade eligibility is subject to meeting appropriate receival standards.

