

KEY FEATURES

- A high yielding early mid maturing variety similar to Baxter
- Australian Prime Hard (APH) in Queensland and Northern NSW
- Excellent Yield potential under extreme Root Lesion Nematode pressure (MT)
- ▶ Good level of resistance to Stripe Rust (MR) resistance based on Adult Plant Resistance
- Crown Rot Resistance (MS)
- Market leading grain package with large grain size, low screenings and high protein accumulation
- Long Coleoptiles with strong early seedling vigour



BREEDING

Pedigree: Drysdale/Kukri

Spitfire (LPB05-2148) was bred by LongReach Plant Breeders, and has been extensively evaluated by the LongReach Plant Breeders technical team led by Dr Bertus Jacobs. The line was first entered into National Variety Trials in 2008.

OPTIMUM PLANTING TIMES AND REGIONS - TABLE I

Spitfire is suited to a main season planting window with an early to mid season maturity.

TABLE 1. SPITFIRE OPTIMUM PLANTING TIMES																
	Planting Times by Weeks															
Region		April			May			June			July					
	_	2	3	4	_	2	3	4	-	2	3	4	I	2	3	4
Central Highlands Dawson-Callide - low frost risk (higher slopes)	Е	Е	Е	0	0	0	0	0	L	L						
Central Highlands Dawson-Callide - high frost risk (river flats)					Е	0	0	0	0	0	L					
Maranoa, Balonne Western Downs South West				Е	ш	0	0	0	0	0	0	L				
Darling Downs (Northern uplands)						Е	Е	0	0	0	0	0	L			
Darling Downs - high frost risk (Central, Southern)									Е	0	0	0	0	L		
South Burnett							Е	Е	0	0	0	0	L	L		
NSW North-West Slopes						Е	0	0	0	0	L	L				
NSW North-West Plains						Е	0	0	0	0	L	L				

NOTES: E= Earlier than ideal but acceptable, depending on frost risk/probability O = Optimum planting time L= Later than ideal, but acceptable.





GRAIN QUALITY

Spitfire has a final APH classification in Queensland and Northern NSW

Spitfire has large grain size, similar to Ellison, larger than Ventura and Livingston

Spitfire has consistent high grain protein

Spitfire Grain Receival Quality (Qld-NVT, 2009)

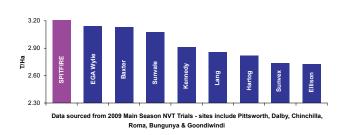
Qld NVT	2009		Weigh: ectolitr		Grai	n Prot	ein %	Screenings (2.0mm sie		
Variety	Trial No.	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
Baxter	8	81.6	80.0	85.0	13.1	8.4	15.9	1.8	0.4	5.2
Ellison	8	82.1	78.0	86.0	13.8	10.8	16.6	1.7	0.5	4.9
Kennedy	8	80.6	78.0	84.0	13.3	8.3	15.9	1.1	0.0	4.5
Lang	8	82.6	81.0	86.0	13.2	8.3	16.6	1.8	0.3	5.9
Spitfire	8	84.4	82.0	88.0	13.9	8.7	17.4	1.8	0.0	5.0
Sunvale	8	83.4	81.0	87.0	13.1	8.2	15.9	1.7	0.3	6.9
Sunvex	8	82.8	81.0	86.0	12.7	8.8	16.4	2.5	0.0	6.5
Ventura	8	82.4	78.0	86.0	12.6	8.2	14.9	2.3	0.0	6.7
Average		82.4	80.7	85.2	12.8	8.4	15.6	2.1	0.8	5.2

Spitfire Grain Receival Quality (NSW North East-NVT, 2009)

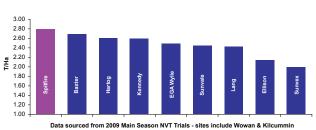
NSW NVT 2			Weigh: ectolitr		Grai	n Prot	ein %		gs % eve)	
Variety	Trial No.	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
Baxter	8	81.6	79.6	84.4	14.1	12.6	18.8	5.2	1.9	10.5
Ellison	8	82.0	80.8	84.1	13.8	12.3	18.3	7.4	3.4	19.0
Kennedy	8	80.8	79.0	82.8	13.8	12.0	18.3	6.0	2.7	12.0
Lang	8	81.7	80.8	84.4	13.7	11.8	17.6	5.4	2.0	13.0
Spitfire	8	83.4	80.9	84.7	14.6	12.5	20.0	6.1	2.3	10.4
Sunco	8	82.9	81.1	84.6	14.1	12.2	17.2	3.9	1.5	9.9
Sunvale	8	83.4	81.4	86.5	14.1	12.4	16.8	4.6	2.3	10.3
Ventura	8	82.0	80.2	84.0	13.2	11.7	18.2	7.5	2.1	17.3
Average	8	81.9	80.5	83.6	13.4	12.1	17.4	5.9	3.0	11.4

YIELD PERFORMANCE - QUEENSLAND

Spitfire versus commercial varieties Southern QLD

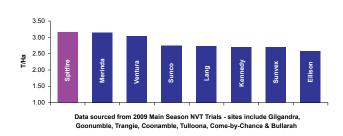


Spitfire versus commercial varieties in Central QLD

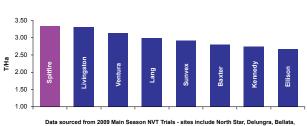


YIELD PERFORMANCE - NORTHERN NSW

Spitfire versus commercial varieties North West NSW



Spitfire versus commercial varieties in North East NSW



Data sourced from 2009 Main Season NV I Trials - sites include North Star, Delungra, Bellata,
Wongarbon, Merriwa, Coolah & Spring Ridge



AGRONOMIC FEATURES

Spitfire is suited to main season planting with early to mid season maturity similar to Baxter

Long Coleoptiles with excellent seedling vigour

Medium plant height at maturity, fully awned, white chaffed and has white grain

Spitfire is rated (MS) for lodging

Appears well suited to Acid Soils, with good yield performance in low pH soils

DISEASE PROFILE - TABLE 2

Disease Ratings									
	Stem Rust	Leaf Rust	Stripe	Rust	Crown Rot	Common Root Rot	Yellow Spot	Root Lesion Nematodes	
Variety			Jackie pt	WA + Yrl7 pt				Pratylenchus thornei (P.thornei)	
	Res	Res	Res	Res	Res	Res	Res	Tolerance	
Baxter	R-MR	R-MR	MS	MS	MR-MS	MR-MS	MS-S	MT-MI	
Crusader	R-MR	R	R	MR-MS	MS*	MS	MR	MT-MI	
Ellison	R-MR	R	R	MR-MS	S	MS-S	R-MR	MI-I	
EGA Wylie	R	R	MR-MS	MR-MS	MR	MR-MS	MS-S	MT	
Kennedy	MR	MR-MS	MS	MS	MS	MR-MS	MR	MT-MI	
Lang	R	MS	MS	MS	MS	MR	MS	MI-I	
Livingston	MR	R-MR	R	R-MR	S	MS-S	MS	MT-MI	
Spitfire	R-MR	MS	MR	MR	MS	MS	MS-S*	MT	
Sunco	R	MS	MR-MS	MR-MS	MR-MS	MR	MS-S	MI-I	
Sunstate	MR	R-MR	R	MS	MS-S	MR	MS-S	MT-MI	
Sunvale	R	MR-MS	R	MR	MS	MR-MS	MS-S	MT-MI	
Ventura	R-MR	R-MR	R	MS	MS	MR	MS-S	MT-MI	

Notes: Resistance: R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible Tolerance: T = Tolerant, MT = Moderately Tolerant, MI = Moderately Intolerant, I = Intolerant, VI = Very Intolerant * = Preliminary Data. Data Provided by QLD DEEDI 2010, NSW DPI 2010, LongReach Plant Breeders 2009







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Each time a grower purchases seed of Spitfire, the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$3.85 per tonne (GST inclusive). EPR is payable on all grain production, except on seed retained by the grower for replanting by the grower. The majority of the EPR will be paid by Pacific Seeds to the Breeder (LongReach Plant Breeders) for investment in future wheat breeding programs.

SEED AVAILABILITY

Good stocks of Spitfire are available. Please contact one of the following Pacific Seeds Associates or your local seed supplier to place an order.

QUEENSLAND

Galleon Grains
Springsure, QLD
Ph: 07 49846141
Ph: 07 46906400
Phi Drains
Toowoomba, QLD
Ph: 07 46906400

Woods Seeds Goondiwindi, QLD Ph: 07 46700400

NEW SOUTH WALES

Agrigrain Auswest Seeds
Narromine, NSW Forbes, NSW
Ph: 02 6889 2200 Ph: 02 6852 1500

Hart Bros. Seeds Junee, NSW Ph: 02 6924 7206 Grainland Moree, NSW Ph: 02 67521511





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For other sales enquiries, please contact Pacific Seeds Distribution centre on 07 4690 2701.

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