



LongReach



Crusader

New South Wales & Queensland

KEY FEATURES

- Consistent high yields in main and later season sowings
- Quick maturity, comparable with H45 and Ventura
- Australian Prime Hard (APH) classification in Northern Zone and South Eastern Zone
- Good resistance to current pathotypes of Stem and Leaf Rust
- Strong Straw, with good lodging resistance

BREEDING Pedigree: Sunbrook/H45

Crusader (LPB03-1073) was bred from a cross made by Dr Lindsay O'Brien in the Solheimar Breeding Program. Since 2002, the variety has been developed and extensively evaluated by the LongReach Plant Breeders technical team led by Dr Bertus Jacobs. The line was first entered into the National Variety Trials in 2006.

AGRONOMIC FEATURES

Crusader is a quick variety with maturity similar to Kennedy and Sunstate in the north and H45 and Ventura in the south. Crusader is extremely well adapted to main and later season sowings in New South Wales and Queensland.

Crusader shows broad adaptation and has performed well in a range of seasons and environments across Northern NSW and Southern Queensland. Crusader has very good straw strength and lodging resistance and is suitable to be grown under irrigation. It produces grain of medium size and low screenings in tight finishing seasons and has excellent milling quality

Table 2. Disease and Pest Resistance Ratings: Crusader and commercial varieties.

Variety	Disease Ratings							Pest Reaction	
	Stem Rust	Leaf Rust	Stripe Rust	Stripe Rust	<i>Septoria tritici</i>	Crown Rot	Yellow Spot	RLN (<i>Pthoraei</i>)	
			WA/Jackie	WA + Yr17 pt				Res	Tol
Crusader	R-MR	R	R-MR	MS	S	S	MS	S-VS	MI-I
Dart	MR	R-MR	MR	MR	MS	MS-S	MS	MS-S*	MI*
Ellison	MR	R	R	MS	MS-S	S-VS	MR-MS	S	I-VI
Lang	R	MR-MS	MS	MS	MS	MS-S	MS-S	S-VS	I
Livingston	MR-MS	R	R	MR-MS	S	S-VS	MS	MR-MS	MT-MI
Merinda	R-MR	R	R-MR	MR-MS	MS	S-VS	MS-S	S	MT-MI
Sunvale	R	MR-MS	R	MR	MR-MS	MS-S	MS-S	MS-S	MT-MI
Ventura	R-MR	R	R	MS	MS	MS-S	S	MS	MT-MI

Resistance rating: VS=Very Susceptible, S=Susceptible, MS=Moderately Susceptible, MR=Moderately Resistant

R=Resistant. Tol Rating - T =Tolerant, MT=Moderately Tolerant, MI =Moderately Intolerant, I = Intolerant, VI =Very Intolerant

Data sourced NSW DPI 2013 LongReachPlant Breeders * Preliminary Data Based on limited data set



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Crusader Yield in NVT LongTerm Queensland Trials 2008 - 2012			
Percentage of Regional Mean Yield	CQ	SEQ	SWQ
Region Mean Yield (t/ha)	3.28	4.08	3.26
BAXTER	96.9	98.3	94.5
CRUSADER	95.1	98.0	94.9
DART	89.8	97.3	99.5
KENNEDY	96.0	98.3	95.7
LANG	98.2	98.6	95.7
LIVINGSTON	94.8	99.9	101.2
SPITFIRE	98.2	99.2	100.4
VENTURA	106.5	102.7	102.7

Crusader Yield in NVT Long Term New South Wales Trials 2008 - 2012				
Percentage of Regional Mean Yield	N/E	N/W	S/E	S/W
Region Mean Yield (t/ha)	3.89	3.30	3.48	2.82
CRUSADER	93.6	94.5	94.2	90.6
DART	102.1	99.5	95.4	100.7
KENNEDY	92.1	92.0	91.8	90.3
LANG	96.8	96.1	96.4	96.2
LIVINGSTON	106.3	103.4	102.3	105.7
SPITFIRE	104.4	103.5	101.9	103.4
VENTURA	98.9	101.3	100.3	98.7

New South Wales

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