

NEW

LongReach



Phantom

Victoria and South Australia

KEY FEATURES

- A mid to late maturity, competitive yielding variety that is similar in adaptability to Yitpi
- AH classification in SA provisional APW in Victoria with potential upgrade in late 2012
- High yield potential in medium to higher yielding conditions
- Good rust resistance package which adds significant security given the areas of susceptible varieties that are currently widely grown
- Useful levels of CCN resistance (MR-MS) for growers looking to replace Yitpi (MR)
- Solid grain package with similar performance to Yitpi for sprouting and improved Black Point tolerance over Yitpi

BREEDING Pedigree: Yitpi/W29

Phantom (LPB07-1040) was bred by Longreach Plant Breeders in Australia. This line has been extensively evaluated by the LongReach Plant Breeders technical team since 2007, led by Dr Bertus Jacobs, in more than 110 yield and quality trials over 5 years. The line was first entered into National Variety Trials in 2010.

GRAIN QUALITY AND PLANT CHARACTERISTICS

Phantom has medium to large grain size similar to Yitpi and Scout in SA and Victoria.

Phantom has sound test weight, similar to Magenta and Wyalkatchem.

Phantom has shown no screenings issues in field trials and is performing similarly to many established varieties. It has shown very good tolerance to Black Point in screening trials and also in field trials with a preliminary rating of Resistant to Moderately Resistant (R-MR). Pre Harvest Sprouting performance has been similar to its Yitpi parent which is considered to have useful tolerance and the best currently available tolerance of the southern market varieties.

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

Variety	Disease Ratings								Pest Reaction	
	Stem Rust	Leaf Rust	Stripe Rust	Stripe Rust	Septoria tritici	Crown Rot	Yellow Leaf Spot	CCN	RLN	
			WA pt	WA + Yr17 pt					(Pthornei) Resistance	(Pneglectus) Resistance
Cobra	MR	R-MR	MS-S (S)	MS-S (S)	MS-S	S	MR-MS*	MR-MS	MR-MS	S
Gladius	MR	MS	R	MR-MS	MS-S	S	MS	MS	MS-S	S
Mace	MR-MS	MR	R	S-VS	MR-MS	S	MR-MS	MR-MS	-	MR-MS
Phantom	MR	MR-MS	MR	MR	MS*	S*	S-VS	MR-MS	S*	MS-S
Scout	MR	R	R-MR	MS	MS	S	S-VS	R	MS-S	S
Yitpi	S	MS	MR-MS	MR-MS	MR-MS	S	S-VS	MR	MS-S	MS

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 SARDI 2012, LongReachPlant Breeders 2011. (S) indicates Stripe rust rating under colder conditions where Adult Plant Resistance is not triggered * Preliminary Data Based on limited data set

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**Phantom 2011 NVT main season trials (2011) as % of Yitpi in SA regions**

	Yorke Pen	Lower EP	Murray Mallee	Mid North	South East	Upper EP
Estoc	104	101	104	106	95	108
Gladius	112	111	107	107	103	109
Phantom	116	108	99	106	104	109
Mace	106	117	113	113	102	126
Scout	118	115	101	118	107	119
Wyalkatchem	112	111	108	107	95	115
Yitpi	100	100	100	100	100	100

Phantom 2011 NVT main season trials (2011) as a % of Yitpi in Victorian regions

	Mallee	Wimmera	Nth Central	Nth East
EGA Gregory	*	104	107	94
Derrimut	98	98	94	107
Estoc	104	104	107	102
Gladius	105	99	100	98
Lincoln	103	101	104	101
Phantom	109	102	104	107
Scout	106	100	101	107
Sunguard	*	98	99	98
Wallup	94	102	106	98
Yitpi	100	100	100	100

Seed Availability**Victoria / NSW**

Baker Seed Co
Rutherglen, VIC
Ph: 02 6032 9484

AGF Seeds
Smeaton, VIC
Ph: 03 5345 6262

The Wimmera Grain Co
Rupanyup, VIC
Ph: 03 5385 5344

Superior Seed Co
Deniliquin, NSW
Ph: 03 5881 6689

South Australia

Manoora Seeds
Manoora, SA
Ph: 08 8848 4335

Modra Seeds
Ungarra, SA
Ph: 08 8688 8094

Colrae Seeds
Callington, SA
Ph: 08 8538 5017

RH Verner & Co
Mallala, SA
Ph: 08 8520 2181

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End Point Royalty (EPR)

Each time a grower purchases seed of LongReach Phantom the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$4.18 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.

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