

LongReach

Catalina[®]

AH Wheat (VIC & SA)

VARIETY SUMMARY

- Reliable main season AH variety (VIC & SA) with high and stable yield potential
- Excellent grain size and low screenings in tight finishes
- Moderately Resistant to stem rust with an excellent gene combination for durable resistance
- Excellent CCN resistance and a low field reaction to Yellow leaf spot suits planting in wheat on wheat rotations.

BREEDING

Catalina (LPB 0268) was selected in 2001 by Dr Lindsay O'Brien, from early generation materials in the former VIDA - Horsham wheat breeding program. Since 2002, it was further selected and evaluated by the LongReach Plant Breeders technical team, led by Dr Bertus Jacobs. Catalina was first entered in independent agronomy and National Variety Trials in NSW, VIC, SA & WA in 2006.

AREA OF ADAPTATION

Catalina has consistently performed well in trials across the southern Australian wheat belt. It is particularly suited to production in medium rainfall regions of South Australia and Victoria. Broad adaptation is a hallmark of Catalina, which has performed well in a range of regions and seasonal conditions including in Southern NSW and Western Australia.

PLANT CHARACTERISTICS

Catalina is an awned semi-dwarf variety with medium plant height at maturity. It has a medium to long coleoptile and exhibits good emergence, seedling vigour and tillering.

Catalina has strong straw with good lodging and shattering resistance. Its excellent CCN resistance and low field reaction to Yellow Leaf Spot make it a suitable choice for wheat on wheat rotations in the Mallee.

Research shows Yellow Leaf Spot causes yield losses of 5-10%, and is a management issue in stubble retained, continuous wheat rotations.

Catalina has not displayed any sensitivity to any commonly applied pre or post emergent pesticides.

DISEASE RESISTANCE

Catalina's durable Stem rust resistance is delivered from a combination of 3 genes that are being effectively deployed in existing varieties in northern and southern Australia. The Leaf rust resistance is also multi gene and is very effective against the current races. Catalina does not rely on the 'VPM' set of single gene resistances for any of the three wheat rust diseases.

Catalina is moderately susceptible to Stripe rust. Under high Stripe rust pressure Catalina may require foliar fungicide application between stem elongation and flag leaf emergence. This application may not be required in early finishing Mallee districts where the "slow rusting" nature of the variety can provide adequate protection to maximise yield.

Table 1. 2011 Disease ratings

State	Stem rust	Leaf rust	Stripe rust	Yellow leaf spot	Septoria tritici	CCN	Common root rot	RLN <i>neglectus</i>	RLN <i>thornei</i>	Crown rot	Black point
VIC	R-MR	R-MR	MS	MS-S	MS	R	MR-MS	MS	MS-S	S	S
SA	MR-MS	R-MR	MS	MS-S	MS	R	MR-MS	MS	MS-S	S	S
NSW	R-MR	R	MS	MS-S	MS-S	R	MR-MS	S	MS	S	MS
WA	R-MR	R	MS	MS-S	MS	R	-	MS		-	MS

Disease terms: R - Resistant, MR - Moderately Resistant, MS - Moderately Susceptible, S - Susceptible, VS - Very Susceptible

**YIELD**

Catalina has demonstrated a high and stable yield potential in both LongReach trials and the NVT on alkaline soils of SA and Victoria. Catalina has yielded similarly to Yitpi in Longreach Plant Breeders and National Variety Trials over a range of seasons and environments in South Australia and Victoria.

Table 1: Long term yield performance (2000-09) in SA, (SARDI 2011 Sowing Guide)

Variety	Lower EP	Upper EP	Murray Mallee	Yorke Pen	Mid Nth	South East
	Mean yield (% Yitpi)					
Catalina	100	98	98	98	99	98
Yitpi	100	100	100	100	100	100
Correll	104	103	104	103	102	101
Frame	94	93	93	95	95	94
Wyalkatchem	107	103	98	104	104	102

Table 2: Long term yield performance (2000-09) in VIC, (VIC DPI 2011 Crop Summary)

Variety	Mallee	Wimmera	Nth Central	Nth East
	% Yitpi			% Janz
Catalina	97	97	99	102
Yitpi	100	100	100	101
Correll	103	102	102	105
Frame	93	93	95	98
Wyalkatchem	100	100	99	101

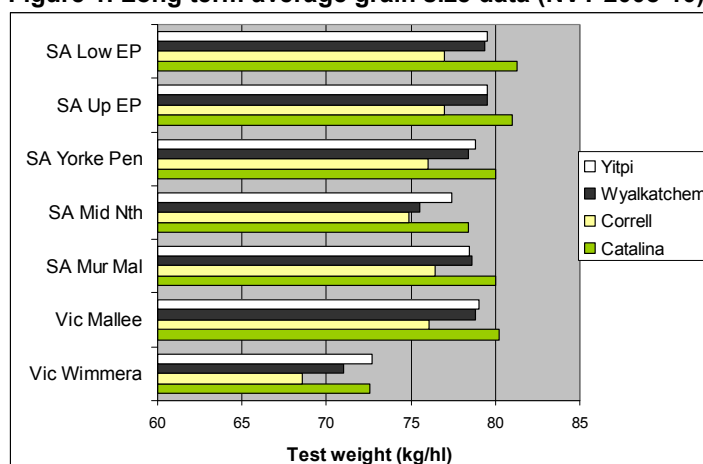
**MATURITY**

Catalina performs best when planted in late May - early June in mid season environments and is mid in maturity. It is a few days later to start heading than Wyalkatchem with slightly later maturity than Kukri.

**GRAIN QUALITY**

Catalina has a classification of Australian Hard (AH) for South Australia and Victoria and APW in Southern NSW. Catalina has large plump grain and performs well in tight finishes. Screenings, test weight and grain weight for Catalina over a range of seasons and environments in VIC, SA and WA has been equal to or better than Yitpi.

Figure 1. Long term average grain size data (NVT 2008-10)

**PLANT BREEDER RIGHTS AND ROYALTIES**

Catalina 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 \$2.75 per tonne (GST inclusive), which includes breeder royalties, applies to this variety. The EPR revenue will be invested directly back into the LongReach Plant Breeders program.

ACKNOWLEDGEMENTS

Catalina was developed with the assistance of numerous independent professional contract service providers and public agency researchers. The support of farmer co-operators in all parts of the Australian wheat belt who have provided trial sites since 2001 is also acknowledged.



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