

## LongReach Catalina wheat

### VARIETY SUMMARY

- Reliable main season AH\* variety 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 useful levels of field resistance to Yellow Leaf Spot suit Catalina to use in wheat on wheat rotations
- \* VIC & SA



### 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 has been further selected and evaluated by the LongReach Plant Breeders technical team, led by Dr Bertus Jacobs, in national trials network. The line was entered in independent agronomy and NVT trials in NSW, SA, Victoria and WA in 2005. It is entered in a wider range of commercial trials and all relevant NVT regions 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 medium to long coleoptiles and exhibits good emergence, seedling vigour and tillering.

Catalina has strong straw, excellent lodging and shattering resistance. Excellent CCN resistance and improved Yellow Leaf Spot resistance makes it a suitable choice for Mallee wheat-on-wheat rotations. 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 Stem, Leaf & Stripe Rust. Growers should note that the Stem rust race prevalent in WA and SA in autumn of 2006 was the VPM attacking strain.

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. 2010 Disease ratings**

State	Stripe rust	Leaf rust	Stem rust	Septoria tritici	CCN	Prat neglectus	Prat thornei	Crown rot	Common root rot
VIC	MS	R-MR	MR-MS	MR-MS	R	MS	MS-S	S	MR-MS
SA	MS	R-MR	MR-MS	MS	R	MS	MS-S	S	MR-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 out-yielded Yitpi and Frame in LongReach trials in South Australia and the Victorian Mallee.

**Table 1:** Long term yield performance (2000-09) in SA, (SARDI 2010 Harvest Report)

Variety	Lower EP	Upper EP	Mallee	Yorke Pen	Mid Nth	South East
	% Site mean					
<b>Catalina</b>	<b>102</b>	<b>104</b>	<b>106</b>	<b>101</b>	<b>102</b>	<b>101</b>
Yitpi	102	106	108	103	103	103
Correll	106	109	113	106	105	105
Frame	96	99	101	97	97	98
Wyalkatchem	109	110	107	106	106	105

**Table 2:** Long term yield performance (2000-09) in VIC, (NVT 2010)

Variety	Mallee	Wimmera	Nth Central	Nth East
	% Yitpi			% Janz
<b>Catalina</b>	<b>97</b>	<b>97</b>	<b>99</b>	<b>102</b>
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.

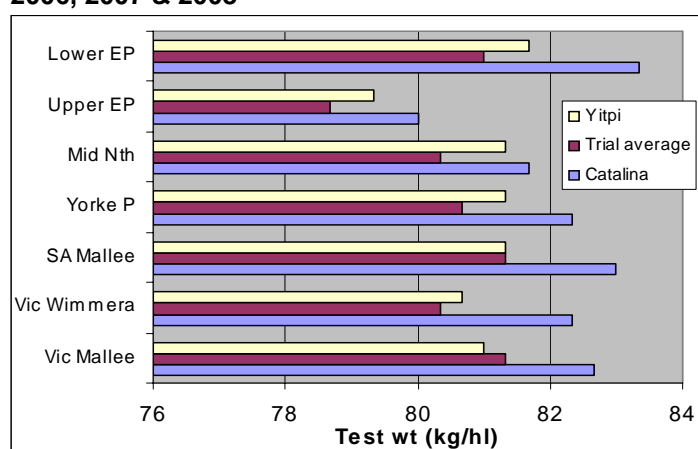


### GRAIN QUALITY

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 weights and grain weight over a range of seasons and environments in WA, SA and Victoria have been equivalent to Frame and Yitpi.

**Figure 1.** Combined average NVT grain size data from 2006, 2007 & 2008



Catalina has equivalent pre-harvest sprouting resistance to Janz and is moderately resistant to Black Point.



### 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.



For more information call **AWB Growers Service Centre** on **1800 054 433** or visit **www.awbseeds.com.au**

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