



# LongReach Scout <sup>TBR</sup> wheat

## WHEAT

## VICTORIA AND SOUTH AUSTRALIA

### KEY FEATURES

- ▶ A high yielding variety suited to Victoria and South Australia
- ▶ Bred for adaption to Alkaline soils with a Yitpi background
- ▶ Excellent CCN resistance
- ▶ Good resistance to all current pathotypes of Stem and Leaf Rusts and effective Adult Plant Resistance for Stripe Rust
- ▶ Very good grain quality, APW Classification in South Australia
- ▶ Medium season maturity
- ▶ Contains the CSIRO Transpiration Efficiency gene, which confers improved water use efficiency



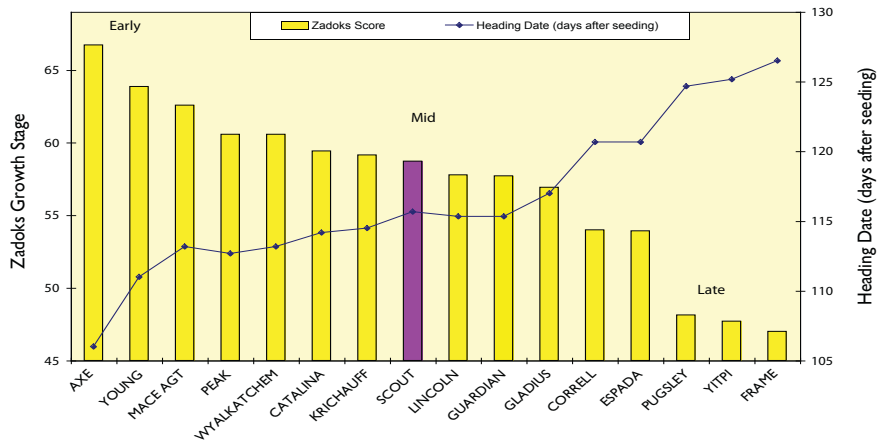
### BREEDING - Pedigree: Sunstate/QH71-6//YITPI

Scout (LPB05-1164) was a cross made by David Bonnett in the GrainGene joint venture. Since 2004, the variety has been developed and extensively evaluated by the LongReach Plant Breeders technical team led by Dr Bertus Jacobs. The line was entered into National Variety Trials for the first time in 2008.

### MATURITY

Scout is a high yielding mid season line. Maturity is similar to Gladius and Catalina which offers security in tough seasons while maintaining high yield potential in good seasons.

#### AVERAGE MATURITY FROM 7 LONGREACH SITES – SA & VIC – 2009



### GRAIN QUALITY

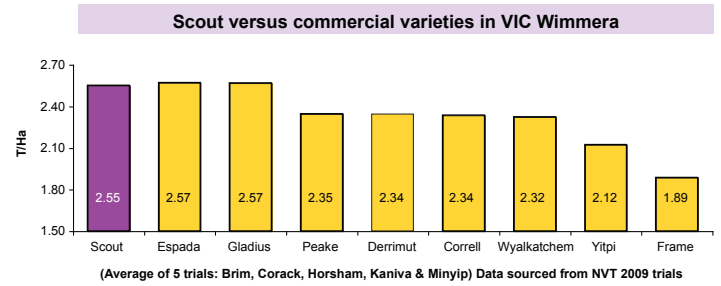
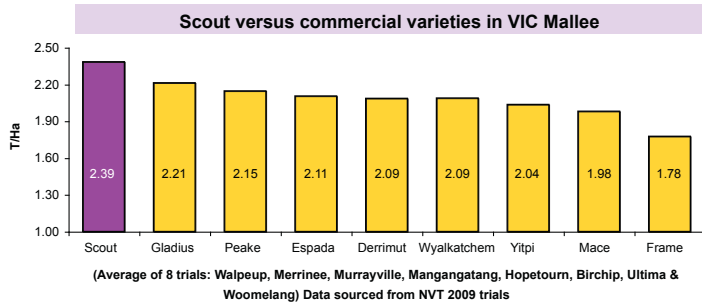
Scout has a final classification of APW in South Australia with a preliminary classification of ASW in Victoria (upgrade pending 2010). Scout has shown sound test weights and low screenings.

SA NVT average 2009	Site No.	Grain protein %			Screenings (2.0mm sieve)			Test Weight (kg/Hectolitre)			1000 grain weight (g)		
		Average	Max	Min	Average	Max	Min	Average	Max	Min	Average	Max	Min
Correll	22	12.0	15.8	9.2	3.8	14.1	0.4	76.4	82.2	60.7	39.9	47.7	21.6
Espada	22	12.6	16.8	9.8	3.1	15.1	0.2	77.1	83.0	61.7	39.7	46.2	23.0
Frame	22	12.5	15.9	9.8	3.5	28.6	0.2	79.0	83.9	65.7	40.0	46.9	18.6
Gladius	22	12.3	17.1	9.5	3.1	16.2	0.2	77.5	84.5	60.6	41.1	50.5	20.8
Janz	22	12.0	15.6	9.3	3.7	27.4	0.2	78.6	85.3	65.6	35.2	40.8	18.5
Mace	22	12.1	15.8	9.3	2.3	8.9	0.2	77.9	84.9	62.4	39.8	47.3	24.5
<b>Scout</b>	<b>22</b>	<b>11.4</b>	<b>14.3</b>	<b>8.7</b>	<b>3.3</b>	<b>12.1</b>	<b>0.2</b>	<b>81.3</b>	<b>86.6</b>	<b>70.6</b>	<b>39.9</b>	<b>46.6</b>	<b>22.5</b>
Wyalkatchem	22	12.4	16.3	9.3	1.9	10.2	0.1	78.0	85.1	62.5	42.1	49.2	29.3
Yitpi	22	12.1	16.0	9.0	4.0	15.6	0.2	78.8	83.2	69.2	39.1	46.7	21.2
<b>Average for 22 sites</b>		<b>11.9</b>	<b>17.7</b>	<b>8.7</b>	<b>3.7</b>	<b>54.0</b>	<b>0.1</b>	<b>76.1</b>	<b>86.7</b>	<b>52.5</b>	<b>36.3</b>	<b>50.5</b>	<b>13.5</b>

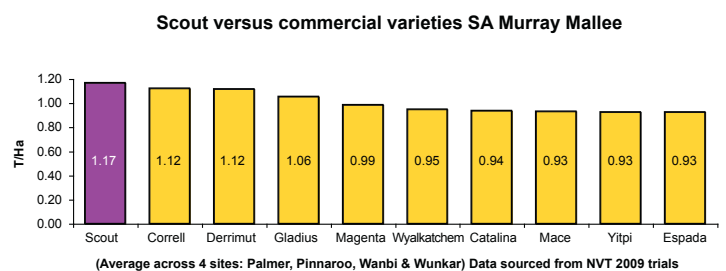
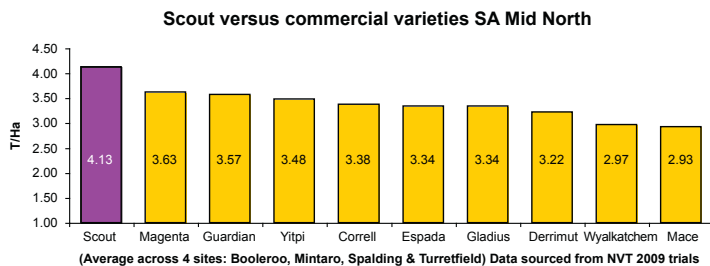
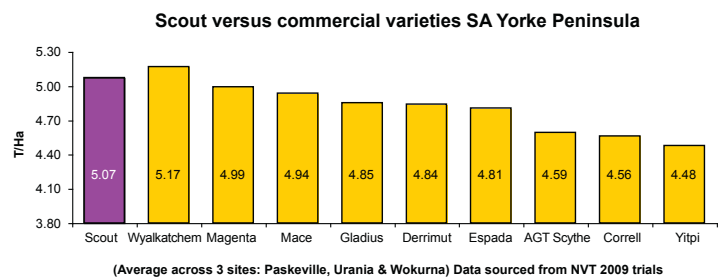
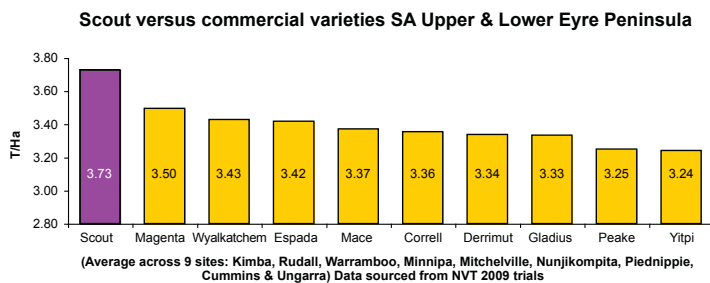




## VICTORIA – YIELD PERFORMANCE



## SOUTH AUSTRALIA – YIELD PERFORMANCE



## AGRONOMIC FEATURES

Scout has a medium season maturity, similar to Gladius and Catalina

Is well suited to alkaline and acid soils, with good yield performance across a wide range of environments

Medium to long coleoptiles allowing deeper planting with good seedling vigour and medium plant height

Fully awned, white chaffed and white grained

Moderately Resistant (MR) to lodging, adequate shattering resistance with good harvestability

Scout has the carbon isotope discrimination (CID) gene. Developed by CSIRO, the CID gene confers water use efficiency

Mid/Dark green foliage with erect leaf and plant type, large ear and short flag leaf.

Very good early vigour

## YITPI REPLACEMENT WITH HIGH YIELD AND BETTER RUST

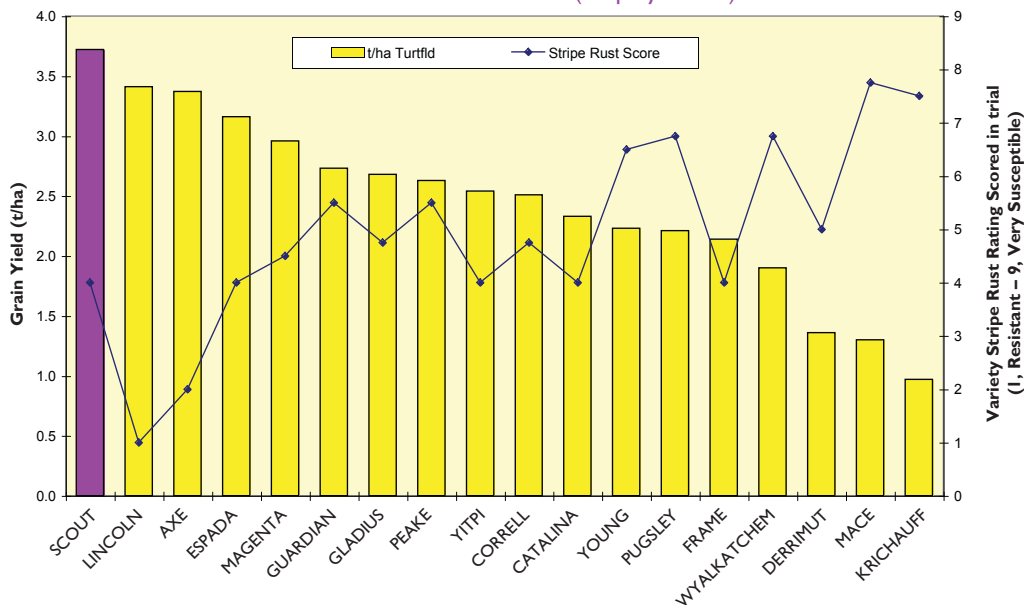




## DISEASE RESISTANCE

- Effective Adult Plant Resistance (APR) to all current stripe rust pathotypes (MS-S) which ensures rust progression is slowed and growers can assess the seasonal risk prior to applying fungicides
- The APR in Scout has been demonstrated to protect yield under severe Stripe Rust pressure without the use of fungicides when compared to Wyalkatchem and Mace
- The APR alone will not stop stripe rust development and fungicides may also need to be applied
- Good resistances to Leaf (R) and Stem Rust (R-MR), improvement over Yitpi and Wyalkatchem
- In addition it carries the VPM complex of resistance genes for the 3 major rusts which means its R-MR to the WA and Jackie Stripe rust pathotypes
- Excellent resistance to CCN (R)

**YIELD PERFORMANCE UNDER SEVERE STRIPE RUST PRESSURE**  
Turretfield NVT SA 2009 (unsprayed trial)



**TABLE 2. DISEASE AND PEST RATINGS: SCOUT AND COMMERCIAL VARIETIES**

Variety	Rust				Septoria tritici	Yellow Spot (Seedling)	Crown Rot	Common Root Rot	Cereal Cyst Nematodes	RLN (P.thornei)
	Stripe		Leaf	Stem						
	WA	WA+Yr17								
Resistance	Tolerance									
Axe	R-MR	R-MR	MR	MS	S-VS	S	S	MS-S	S	-
Catalina	MS	MS	R-MR	MR	MS	MS	S	MR-MS	R	-
Correll	MR-MS	MR-MS	MS	MR-MS	MR-MS	S-VS	S	MS	MR	-
Espada	R	MR-MS	R-MR	R-MR	S	MR-MS	S	MS-S	MS	-
Frame	MR-MS	MR-MS	MS	MS	MS	S-VS	S	S	MR	MI
Gladius	R	MR-MS	MS	MR	MS-S	MS	S	MS	MS	-
Guardian	MS	MS	MS	R-MR	MS-S	MS-S	S	MS	R	MT-MI
Lincoln	R-MR	R-MR	R-MR	R-MR	MS-S	MR-MS	S-VS	MS	S	I
Mace	R	S-VS	R	MR	MR	MR-MS	S	MS-S	MR-MS	-
Magenta	MS	MS	MR-MS	R-MR	MS	MR-MS	S	S-VS	MS-S	-
Pugsley	R	S	MR	MS	MS	S	S	MS	MS	-
<b>Scout</b>	<b>R-MR</b>	<b>MS-S</b>	<b>R</b>	<b>R-MR</b>	<b>MS</b>	<b>S</b>	<b>S**</b>	<b>S**</b>	<b>R</b>	<b>MT</b>
Wyalkatchem	S	S	R	MS	MR	MR	S	S	S	-
Yitpi	MR-MS	MR-MS	MS	S	MS	S-VS	S	MS	MR	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 Cereal Rust Report Dec 2009, SARDI 2010 & LongReach Plant Breeders 2010





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## END POINT ROYALTY (EPR)

Each time a grower purchases seed of Scout, the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$3.08 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

Please contact one of the following Pacific Seeds Associates or your local seed supplier to place an order.

### NEW SOUTH WALES AND VICTORIA

**Baker Seed Co**  
Rutherglen, VIC  
Ph: 02 6032 9484

**AGF Seeds**  
Smeaton, VIC  
Ph: 03 5345 6431

**The Wimmera Grain Co**  
Rupanyup, VIC 3388  
Ph: 03 5385 5344

**Gorst Rural Supplies**  
Lake Bolac, VIC  
Ph: 03 5350 2440

**Superior Seed Co**  
Deniliquin, NSW 2170  
Ph: 03 5881 6689

### SOUTH AUSTRALIA

**Manoora Seeds**  
Manoora, SA  
Ph: 08 8848 4335

**Modra Seeds**  
Ungarra, SA 5607  
Ph: 08 8688 8094



## ACKNOWLEDGEMENTS

Scout 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 2004 is also acknowledged.

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

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