






### Key Features

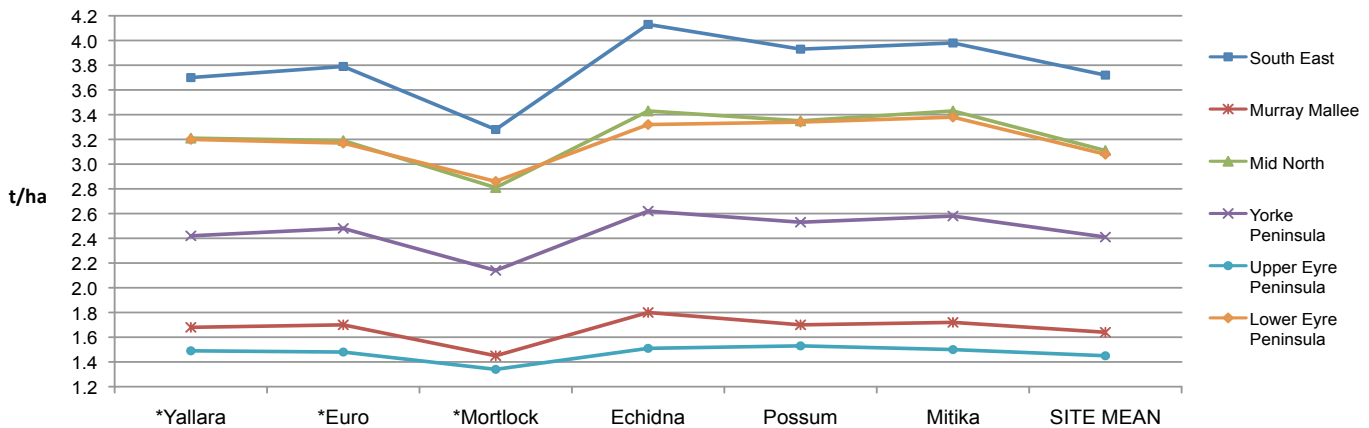
- ✓ Yallara is a dual purpose medium-tall premium milling and domestic hay oat
- ✓ Premium milling grain quality - Uncle Tobys Tick of approval
- ✓ Yallara has early-mid maturity and is suited to growing in low - medium/high rainfall zones
- ✓ Yallara is resistant to Stem and Leaf Rust
- ✓ Yallara has shown to have a strong grain yield performance in medium-low rainfall areas
- ✓ Yallara has good early vigour that could provide an opportunity for grazing
- ✓ Yallara produces high quality domestic Hay (WSC/Digestibility)
- ✓ Yallara is marginally taller than Euro, has slightly earlier maturity and similar resistance to lodging
- ✓ Yallara has good physical grain quality - low screenings, a high groat percentage and good hectolitre weight
- ✓ Yallara has bright grain (high Minolta L) and high grain digestibility for the livestock and horse feed industry
- ✓ Yallara has a low grain oil content and moderate-high hull lignin
- ✓ Yallara has a moderate level of shatter resistance - timely harvest is important with any tall variety
- ✓ Yallara is resistant to CCN, has intermediate resistance to bacterial blight, is moderately susceptible to BYDV & Septoria, and intolerant to stem nematode.

### Yearly Rainfall:

	 Low <380	 Med 380-480	 High >480
	Yallara	Yallara	Yallara
Time of sowing	early May	early-mid May	mid-late May

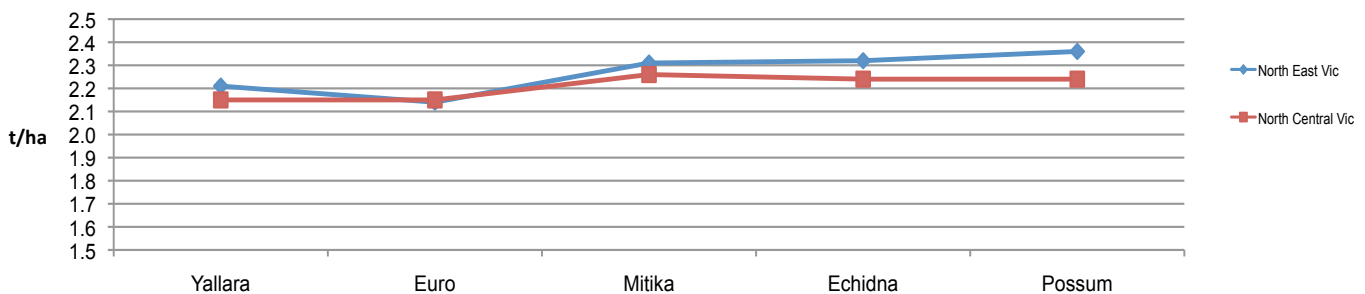
# Variety Specific Agronomic Information

## SA Long Term (2000-2009) Mean Regional Grain Yield - t/ha



\*denotes tall variety. NVT & SARDI Sites Across Years: South East - Bordertown, Mundulla, Kybybolite, Moyhall; Murray Mallee - Lowbank, Waikerie; Mid North - Crystal Brook, Pinery, Riverton, Turretfield, Kingsford; YP - Paskeville; Lower EP - Greenpatch; Upper EP - Minnipa, Nunjikipita  
(Source: National Oat Breeding Program - SARDI/GRDC/NVT)

## Victoria Long Term (2000-2009) Mean Regional Grain Yield - t/ha



(Source: National Oat Breeding Program - NVT/GRDC)

## Disease Profile

Variety	Stem rust <sup>1</sup>	Leaf rust <sup>1</sup>	BYDV <sup>1</sup>	Septoria <sup>1</sup>	Bacterial blight <sup>1</sup>	CCN R <sup>1</sup>	CCN T <sup>2</sup>	Stem Nematode <sup>2</sup>	Red leather leaf <sup>1</sup>
Yallara	MR	R	MS	MS	MR-MS	R	I	I	MS
Euro	VS	S	MR-MS	MS	MS	R	I	I	MS
Mortlock	MS	S	MS	MS	MR	MS	I	I	MS
Mitika	MR	R	S	S	MR	VS	I	I	S
Possum	MS	MS	S	MS	S	VS	I	I	MS-S
Echidna	S	S	MS	S	S	S	I	MT	MS

<sup>1</sup> Disease reactions where R= resistant, MR=moderately resistant, MS=moderately susceptible, S= susceptible, VS=very susceptible

<sup>2</sup> T=tolerant, MT= moderately tolerant, MI=moderately intolerant, I=intolerant

(Source - National Oat Breeding Program SA/VIC) (Rust reactions may vary in different regions depending on the prevalent pathotype)

In seasons where Stem Rust is present, yield increases of 40-100% have been recorded for varieties with resistance similar to Yallara.

## Plant Profile

Variety	Early Vigour <sup>1</sup>	Height (cm)	Heading days from Mitika	Maturity	Lodging (%)	Standing Ability	Strawangle <sup>3</sup>	Shattering (grains per m <sup>2</sup> )	Shatter Resistance
Yallara	3.4	81	+1	EM	3.3	R	6.3	36	MR
Euro	3.7	79	+3	EM	1.7	R	7.3	28	R
Mortlock	4.6	84	-1	EM	0.0	R	6.8	40	MR
Mitika	3.8	56	0	E	1.7	R	8.5	23	R
Possum	3.0	63	+3	EM	1.7	R	8.0	17	R
Echidna	3.8	63	+6	EM	0.0	R	8.5	4	R
No. trials	11	13	6		3		4	6	

(1)= 1-9 scale where 1=fast & 9=slow (2)= Zadoks decimal growth stage for plant growth (3)= 3-8 scale where 3=flat & 8=erect  
 Maturity: E=early; EM=early-mid; M=mid season; ML=mid-late; L=late. Shatter & Standability: R=resistant; S=susceptible; MR=moderately resistant; MS=moderately susceptible.  
 (Source - National Oat Breeding Program combined SA/VIC mean data 2003-2006)

## Grain Quality

Variety	Hectolitre weight (kg/hl)	1000 Grain Weight (g)	Screenings (%<2mm)	Protein (%)	Oil (%)	Groat (%)	Minolta-L	Digestibility (%DDM) <sup>1</sup>	B-glucan (dry basis) <sup>2</sup>
Yallara	51.1	33.1	10.2	11.7	4.9	79.8	62.7	73.3	4.3
Euro	50.0	35.4	10.3	12.1	5.1	76.2	60.7	72.8	4.2
Mortlock	49.1	33.4	13.5	13.8	5.9	74.8	60.1	72.4	4.9
Mitika	49.8	32.8	12.1	12.8	6.6	76.0	59.7	73.1	5.0
Possum	48.9	30.5	11.0	13.0	5.7	76.2	60.0	72.0	4.7
Echidna	47.5	30.7	19.4	11.9	5.8	74.4	62.3	72.2	4.7

1-Digestibility based on data from 2003-2006; 2-Beta-glucan based on data from 2004-2007  
 (Source: National Oat Breeding Program combined SA/VIC/NSW composite mean data 2005-2009)

## Domestic Hay Quality

Trait	Variety	Overall Mean (32 trials)	
		% DMD	% Wintaroo
Digestibility (%DM)	Yallara	65.1	102
	Wintaroo	63.9	100
WSC (%DM)	Yallara	28.5	112
	Wintaroo	25.4	100
Metabolisable Energy MJ/kg DM	Yallara	9.4	102
	Wintaroo	9.2	100
NDF (%DM)	Yallara	47.4	93
	Wintaroo	50.8	100

DMD = Dry Matter Digestibility ; WSC = Water Soluble Carbohydrate ; NDF = Neutral Detergent Fibre  
 (Note: Yallara has a lower dry matter yield compared to wintaroo)  
 (Source: National Oat Breeding Program CVT & NVT 2005-2008)

## Grain Quality

Variety	Hectolitre weight (kg/hl)	1000 Grain Weight (g)	Screenings %<2mm	NIR Protein % dry basis	NIR Oil % dry basis	NIR Groat%	no. trials
Yallara	50.6	32.3	4.7	12.7	4.7	78.3	30.0
Wintaroo	47.0	32.2	19.7	13.2	6.7	73.4	30.0

(Source: National Oat Breeding Program CVT & NVT 2005-2008)

## Variety Specific Agronomic Information

### Grain Harvesting

As with any tall milling variety, harvest should occur in a timely manner to limit losses from lodging and shattering due to adverse weather conditions.

Care is needed when harvesting premium milling varieties which can dehull during the harvest process.

### Contact & Seed Purchasing

Yallara is sold through your local rural seed retail agent. Check with your local store for seed availability and seek advice from your agronomist on optimum sowing time and crop management. Wholesale distribution by Viterra Seeds.

CONTACT - Viterra Seeds on Toll Free Number 1800 018 205 Website Seeds section - [www.viterra.com.au/agriproducts/seed](http://www.viterra.com.au/agriproducts/seed)

Craig John - Seeds Manager for SA & WA mobile 0437 011 907 [craig.john@viterra.com](mailto:craig.john@viterra.com)

Jason Scott - Seeds Manager for VIC/Sth NSW mobile 0458 009 804 [jason.scott@viterra.com](mailto:jason.scott@viterra.com)

Chris Farlow - Seeds Manager for Nth NSW/Sth QLD mobile 0439 277 122 [chris.farlow@viterra.com](mailto:chris.farlow@viterra.com)

### Plant Breeding Rights & Royalties

Yallara is protected by Plant Breeder's Rights (PBR). 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. (Grower to Grower seed sales are NOT permitted). Yallara is subject to an EPR of \$2.00 per metric tonne (GST excl.), payable on all production excluding farm saved seed.

Viterra manages the collection of End Point Royalties (EPR) as part of the Plant Breeders Rights variety licencing agreement. The royalties are collected for investing back to the plant breeder for research and development of improved varieties for Australian farmers.

### Breeding

Yallara was developed by the National Oat Breeding Program and collaborators. Yallara was bred from the cross Euro\*2/ND931075 and was evaluated as SV97001-13-4. The name, Yallara, was selected from Australian marsupials native to southern Australia.

