

Yallara

Dual Purpose Oat




VARIETY SUMMARY

- Dual purpose medium-tall premium milling and domestic hay oat
- Premium milling grain quality - Uncle Tobys tick of approval
- Early-mid maturity and suited to growing in low - medium/high rainfall zones
- Resistant to Stem and Leaf rust
- Strong grain yield performance in medium-low rainfall areas
- Good early vigour that could provide an opportunity for grazing
- Yallara produces high quality domestic hay (WSC/ Digestibility)
- Marginally taller than Euro, has slightly earlier maturity and similar resistance to lodging
- Good physical grain quality—low screenings, a high goot percentage and good hectolitre weight
- Bright grain (high Minolta L) and high grain digestibility for the livestock and horse feed industry
- Yallara has low grain oil content and moderate-high hull lignin
- Resistant to CCN and intermediate resistance to bacterial blight

BREEDING

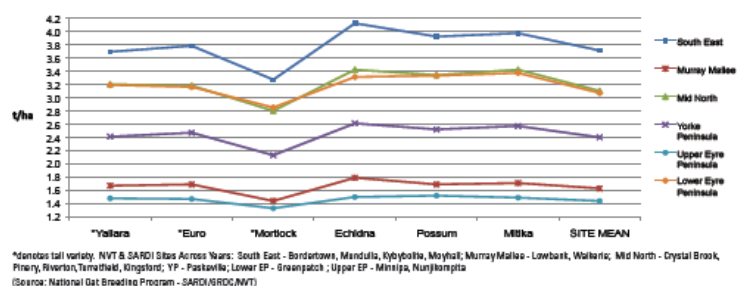
Yallara was developed by the National Oat Breeding program and collaborators. Yallara was bred from the cross Euro*2/ND931075 and was evaluated as SV97001-13-4. The name Yallara was selected from Australian marsupials native to southern Australia.

Yearly Rainfall

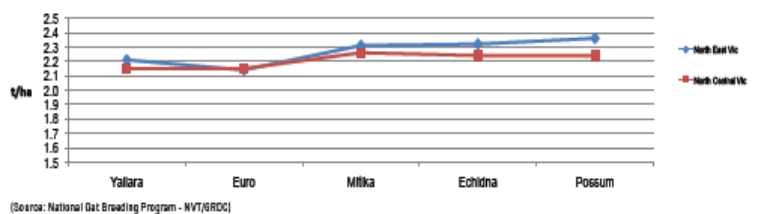
	 Low <380	 Med 380-480	 High >480
	Yallara	Yallara	Yallara
Time of sowing	early May	early-mid May	mid-late May

YIELD

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



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



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

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.

DOMESTIC HAY QUALITY

Trait	Variety	% 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)

 **PLANT PROFILE**

Variety	Early Vigour	Height (cm)	Heading days from Mitika	Maturity	Lodging (%)	Standing Ability	Strawangle ³	Shattering (grains per m ²)	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. of Trials	11	13	6		3	R	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. Shatter & Standing Ability: 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) ¹	B-glucan (dry basis) ²
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 composite mean data 2005-2009)

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)

 **DISEASE PROFILE**

Variety	Stem Rust	Leaf Rust	BYDV	Septoria	Bacterial blight	CCN R	CCN T	Stem Nematode	Red leather leaf
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

R - Resistant; MR - Moderately Resistant; MS - Moderately Susceptible; S - Susceptible; VS - Very Susceptible, T - Tolerant, MT - Moderately Tolerant, MI - Moderately Intolerant, I - Intolerant
(Rust reactions may vary in different regions depending on the prevalent pathotype) (Source: National Oat Breeding Program SA/VIC)

 **PLANT BREEDER RIGHTS AND ROYALTIES**

Yallara 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 \$2.00 per tonne (plus GST), which includes breeder royalties, applies to this variety.

ACKNOWLEDGMENTS

Yallara was developed by the National Oat Breeding Program and collaborators with support from GRDC.



For more information call **Seednet** on **1300 799 246** or visit **www.seednet.com.au**

DISCLAIMER: The material contained in this Fact Sheet is from official sources and is considered reliable. It is provided in good faith and every care has been taken to ensure its accuracy. Seednet does not accept any responsibility for the consequences, which may arise from the acceptance of recommendations or suggestions made.