






# KOWARI

## OAT

-  400mm+
-  5.0 – 8.0
-  Most soil types
-  PBR
-  \$2.50/t +gst (TBC)

Potential Milling

### DESCRIPTION

Kowari is another highly promising oat variety from the National Oat Breeding Program.

Kowari sets a new benchmark for  $\beta$ -glucan combined with low screenings in the Australian Milling oat industry.

It is dwarf in stature slightly taller than Mitika with excellent grain quality and will suit most traditional oat growing areas of Australia. It was derived from a cross between Mitika and a WA breeder's line.

### KEY FEATURES

- Improved  $\beta$ -glucan content - 5.2% (dm basis) compared to 4.4% for Mitika
- Excellent grain quality
- Lowest screenings percent of all major varieties
- Good 1000 grain weight
- High protein and groat percentage
- Mid maturity similar to Mitika
- Competitive grain yield.

Kowari can deliver growers a competitive yielding oat variety with excellent grain quality highly desired by marketers. The lowest screenings of any variety in the market means growers get more saleable grain from every paddock.

Kowari will undergo milling evaluation trials in Western Australia and New South Wales in 2017.

### SOWING RATE

60-70 kg per hectare.

### TIMING

Early to mid May.



2016 production crop – Ash Pilkington, Naracoorte SA

# PERFORMANCE

## Average Grain Yield t/ha (2010 -2015)

		NSW	SA	VIC	WA	All Zones
VARIETY	Kowari	3.8	3.2	3.3	3.6	3.4
	Durack (tall)	3.6	2.9	3.0	3.3	3.2
	Mitika	3.7	3.1	3.3	3.5	3.4
	Williams (tall)	3.8	3.2	3.9	4.0	3.7
	Bannister	3.9	3.3	3.8	3.9	3.7
	Carrolup (tall)	3.6	2.7	3.2	3.2	3.1
	Yallara (tall)	3.6	2.8	3.2	3.3	3.2

Data courtesy of National Oat Breeding Program, NVT programs in SA, VIC, NSW and CVT program in WA – Analysis by Chris Lisle, SAGI.

## 2015 NVT Data t/ha

		SA	SA	SA	SA	NSW	NSW	NSW	VIC	VIC	VIC
		Yorke P	South East	Mid North	Mallee	South West	South East	North East	North Central	North East	South West
VARIETY	Kowari	4.0	3.5	3.5	1.4	3.9	3.9	3.3	3.1	3.0	4.3
	Durack (tall)	3.3	3.3	3.2	1.2	3.6	3.7	3.2	2.8	2.8	3.7
	Mitika	3.9	3.4	3.4	1.3	3.8	3.9	3.3	3.0	3.1	4.2
	Williams (tall)	3.6	3.7	3.6	1.4	3.8	3.9	3.6	3.5	3.8	4.6
	Bannister	3.9	3.7	3.6	1.4	3.9	4.1	3.6	3.5	3.6	4.7
	Carrolup (tall)	3.1	3.2	2.9	0.9	3.4	3.7	3.4	2.9	3.0	3.9
	Yallara (tall)	2.9	3.4	3.0	1.2	3.6	3.7	3.4	3.0	3.0	3.7

## Quality Specifications (combined SA, VIC, NSW & WA Data 2011 - 2015)

		Hectolitre Weight kg/hl	1000g Grain Weight	Screenings % < 2mm	NIR Protein %	NIR Oil %	NIR Grout %	Hull Lignin
VARIETY	Kowari	48.6	35.4	7.7	12.5	6.9	73.8	Low
	Durack (tall)	51.5	34.5	8.5	12.6	6.8	72.9	High
	Mitika	49.4	35.5	8.4	12.3	6.9	73.1	Low
	Williams (tall)	47.8	31.1	13.4	11.1	7.2	69.6	High
	Bannister	49.1	32.8	10.8	10.9	7.5	71.3	High
	Carrolup (tall)	50.4	33.2	14.7	12.2	6.1	72.8	High
	Yallara (tall)	50.0	33.7	8.7	10.9	5.2	75.3	Mod high



# DISEASE & PEST RESISTANCE

		SA & VIC		New South Wales		Western Australia			
		Stem Rust Field	Leaf Rust Field	Stem Rust Field	Leaf Rust Field	Stem Rust Field	Leaf Rust Field	BYDV Field	Septoria Field
VARIETY	Kowari	S	R	MRS	MR	S	R	MS	S
	Durack (tall)	S/VS	R-S	R-S	MR-MS	MR-MS	R	MS-S	S-VS
	Mitika	MRS	R	MRS	MSS	MR-S	R	S	S-VS
	Williams (tall)	MRS	R	MR	MR	MR	R	MR-MS	MS
	Bannister	MRS	R	MSS	MRS	R-MR	R	MS	S
	Carrolup (tall)	S	VS	S	S-VS	MS	S	MS	S-VS
	Yallara (tall)	MRS	R	MR-MS	MSS	MR-MS	R	MR-MS	MSS

Disease reactions from field trials conducted in WA where, R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible. Rust reactions may vary in different regions depending on the prevailing pathotypes.

		Bacterial Blight	Red Leather Leaf	CCN R	CCN T	Stem Nematode
VARIETY	Kowari	MR	MS	VS	-	I
	Durack (tall)	MRS	MS	R	M/MT	I
	Mitika	MR	S	VS	I	I
	Williams (tall)	R	MS	S	I	I
	Bannister	MRS	MS	VS	I	MI
	Carrolup (tall)	MRS	S	S	I	VI
	Yallara (tall)	MR-MS	MS	R	I	I

Disease reactions where, R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, I = intolerant



## CONTACTS

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