

Bannister

Milling Potential Oat

VARIETY SUMMARY

- High yielding, mid season maturing variety
- Milling potential grain with hectolitre weight, grain size and groat percentage equivalent to current milling varieties
- Improved disease resistance package over old varieties
- Tall-dwarf height and moderate stem diameter suitable for hay production

BREEDING

Bannister (tested as WAOAT2354) was bred by the National Oat Breeding Program with researchers from the Department of Agriculture and Food, Western Australia (DAFWA) and the South Australian Research and Development Institute (SARDI).

Pedigree: Bannister was crossed as 00Q164-21.

Short Pedigree: Dumont/Echidna Mortlock //75Q:198 Swan Fulmark/Newton.

HERBICIDE TOLERANCE

Bannister exhibited yield loss in trials with Tigrex® 1 L/ha and Diuron 0.5 L + MCPA 0.5 L/ha applied at label recommended timing (Z13-Z14) in 2011. For further test results, refer to the NVT website.

PLANT CHARACTERISTICS

Bannister is a tall dwarf oat variety. As a comparison to WA varieties it is taller than Kojonup but shorter than Carrolup and in the eastern states it is taller than Mitika. Bannister is considered to be a mid season variety in WA with a maturity 4 days earlier than Kojonup but 3 days later than Carrolup. In the eastern states Bannister is an early to mid season variety with a maturity 3-4 days later than Mitika. Bannister is more susceptible to lodging than Kojonup and similar to Carrolup. Shattering resistance is similar to other dwarf varieties and is a marked improvement on Carrolup. Bannister has slower early vigour than Carrolup and Kojonup.

DISEASE RESISTANCE

Bannister has better disease resistance than old oat varieties with improved stem rust leaf rust and septoria resistance. It is similar to Carrolup and Kojonup for Barley yellow dwarf virus resistance and its Bacterial blight resistance is better than Kojonup and similar to Carrolup. Red leather leaf resistance is better than Carrolup and similar to Kojonup. Bannister is susceptible and intolerant to Cereal cyst nematode.

Foliar disease resistance ratings for oat varieties from field trials in various states

Variety	WA				SA & Vic			NSW	
	Stem rust	Leaf rust	BYDV	Septoria	Stem rust	Leaf rust	Bacterial blight	Stem rust	Leaf rust
Bannister	R-MR	R	MS	S	MR-S	R	MR-S	MS-S	MR-S
Carrolup	MS	S	MS	S-VS	S	VS	MR-S	S	S-VS
Echidna	S	S	MS	S-VS	S	S	MR-S	S	S
Kojonup	R-MS	S	MS	S-VS	S	VS	MS-S	S	MS-VS
Mitika	MR-S	R	S	S-VS	MR-S	R	MR	MR-S	MS-S
Possum	MR-S	MR	S	S-VS	MS-S	MS	MS-S	S	MS-S
Williams	MR	R	MR-MS	MS	MR-S	R	R	MR-S	MR
Yallara	MR-MS	R	MS	S	MR-S	R	MR-MS	MR-S	MS-S

Note: Rust reactions may vary in different regions and years depending on the prevalent pathotypes.

 **GRAIN YIELD**

Bannister has excellent grain yield across a range of rainfall zones in each state of Australia (average t/ha grain yield from 2007-13)

Variety	WA	SA		VIC		NSW	
	Agzone 3	Mid Nth	Sth East	Nth East	Sth West	Sth West	Sth East
Bannister	3.9	3.5	4.3	3.3	4.8	3.8	3.8
Carrolup	3.3	2.9	3.6	2.7	-	3.2	3.4
Kojonup	3.5	3.2	3.9	3.0	4.4	3.5	3.5
Mitika	3.5	3.3	4	2.7	4.3	3.5	3.7
Possum	3.5	3.2	3.9	2.8	4.3	3.5	3.7
Williams	4.1	3.5	4.4	3.4	5.1	3.7	3.8
Wombat	3.6	3.2	4	3.0	4.5	3.5	3.6
Yallara	3.4	3.0	3.6	2.7	4.3	3.2	3.5

 **GRAIN QUALITY**

Bannister is a high quality oat with potential as a milling variety. Hectolitre weight, grain size and screenings are similar to Kojonup and groat percentage is similar to Carrolup.

Average physical and chemical quality characters for oat varieties.

Variety	Hectolitre weight kg/hl	100 grain weight (g)	Screenings % <2 mm	NIR Protein	NIR Oil	NIR Groat
Bannister	48.8	31.6	12.0	10.8	7.3	72.8
Carrolup	50.8	31.8	16.7	12.7	5.8	73.4
Echidna	47.2	29.9	14.6	10.9	6.1	71.6
Kojonup	48.2	31.8	11.8	12.7	5.8	75.9
Mitika	49.9	33.8	8.7	12.4	6.6	73.8
Possum	48.5	31.9	9.1	12.0	5.9	73.8
Williams	48.1	30.4	16.1	11.1	6.8	71.1
Yallara	50.7	32.2	9.8	11.2	4.9	76.9

(combined WA, SA, VIC and NSW data, 2005-11)

 **PLANT BREEDER RIGHTS AND ROYALTIES**

Bannister 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.

Bannister has a grain End Point Royalty of \$2.53 per tonne (including GST) that is payable on all grain production (including feeding own stock). And Bannister also has a hay End Point Royalty of \$2.20 per tonne (including GST) that is payable on all hay sales to exporters and selected domestic distributors.

 **HAY YIELD AND QUALITY**

Bannister is a tall-dwarf variety with moderate stem diameter suitable for hay production.

Average hay yield (t/ha) from 2005-12

Variety	WA	SA	VIC
Bannister	8.4	9.5	9.2
Carrolup	8.2	9.4	9.3
Eurabbie	8.6	9.1	9.2
Mulgara	9.1	9.8	9.3
Swan	9.0	10.0	9.3
Walleroo	8.3	9.6	9.4
Williams	8.5	9.5	9.2
Winteroo	9.8	10.2	9.4
Yallara	8.4	9.9	9.3

Average hay quality characteristics for oat varieties

Variety	Digestibility (%dm)	Neutral detergent fibre (%dm)	Crude Protein (%dm)
Bannister	65.1	49.8	8.8
Carrolup	62.6	50.2	8.6
Eurabbie	66.9	46.9	8.8
Mulgara	63.0	50.4	8.6
Swan	62.9	50.4	8.2
Walleroo	62.8	50.8	8.4
Williams	63.5	51.3	9.0
Winteroo	62.7	51.1	8.4
Yallara	62.8	48.9	8.4

(combined WA, SA and VIC data 2005-12)

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Department of Agriculture and Food



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