

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 current varieties
- Tall-dwarf height and moderate stem diameter 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 similar in height to Wandering. It averages 11cm taller than Kojonup and 5cm shorter than Carrolup. Bannister is a mid season maturing variety similar in heading time to Wandering, three days later than Carrolup and four days earlier than Kojonup. Bannister is more lodging susceptible than Wandering and Kojonup and similar to Carrolup. Shattering susceptibility is similar to other dwarf varieties and a marked improvement on the tall variety Carrolup. Bannister has slower early vigour than Carrolup, Kojonup and Wandering.

DISEASE RESISTANCE

Bannister has an improved disease resistance profile compared to the other main oat varieties in Western Australia. It has improved resistance to stem rust, leaf rust and septoria. It is similar to Carrolup and Kojonup for barley yellow dwarf virus (BYDV) resistance and inferior to Wandering. Its bacterial blight resistance is an improvement over Kojonup (similar to Carrolup and Wandering). Red leather leaf resistance is similar to Kojonup and Wandering and an improvement compared to Carrolup. 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
Wandering	MS	VS	MR-MS	S-VS	S	VS	MR-S	S	VS
Yallara	MR-MS	R	MS	S	MR-S	R	MR-MS	MR-MS	MS-S

 **GRAIN YIELD**

Bannister has excellent grain yield across a range of rainfall zones in each state of Australia (average t/ha grain yield from 2005-11, with no. trials in brackets)

Variety	WA		SA		VIC		NSW	
Bannister	3.6	(83)	2.9	(28)	3.3	(9)	3.6	(19)
Carrolup	3.0	(150)	2.6	((28)	-		3.0	(26)
Kojonup	3.3	(150)	3.0	(51)	2.9	(16)	3.0	(32)
Mitika	3.2	(138)	3.0	(78)	3.0	(32)	3.1	(60)
Possum	3.2	(61)	3.0	(78)	2.9	(32)	3.0	(60)
Wandering	3.4	(151)	3.0	(32)	-		3.3	(17)
Yallara	3.0	(122)	2.8	(78)	2.7	(32)	2.9	(58)

 **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
Wandering	47.8	30.9	14.6	12.0	6.3	71.9
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.

An End Point Royalty of \$2.53 per tonne (GST inclusive), which includes breeder royalties, applies to this variety.

 **HAY YIELD AND QUALITY**

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

Average hay yield (t/ha) from 2005-11

Variety	WA	SA	VIC
Bannister	8.6	7.7	8.2
Carrolup	8.3	7.6	8.6
Eurabbie	9.0	7.7	7.9
Mulgara	9.2	8.1	8.4
Swan	9.0	8.1	8.0
Wallaroo	8.3	7.7	8.4
Wandering	8.1	7.6	8.5
Winteroo	10.0	8.5	8.7
Yallara	8.3	7.8	8.2

Average hay quality characteristics for oat varieties

Variety	Digestibility (%dm)	Metabolisable energy (MJ/kg dm)	Crude Protein (%dm)
Bannister	65.2	9.4	8.7
Carrolup	63.1	9.1	8.5
Eurabbie	67.4	9.8	8.9
Mulgara	64.0	9.3	8.7
Swan	63.6	9.1	8.0
Wallaroo	63.5	9.1	8.5
Wandering	65.4	9.5	9.1
Winteroo	63.0	9.0	8.2
Yallara	63.8	9.2	8.4

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

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Department of Agriculture and Food



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