

Fitzroy

Malting Barley

VARIETY SUMMARY

- Superior yielding malt barley variety, compared to Gairdner and Grimmnett.
- Endorsed by the Australian malting and brewing industries as acceptable for domestic brewing.
- Grain plumpness superior to Gairdner, Grimmnett and Tallon.
- Lower protein content compared to Gairdner.
- Semi-dwarf variety, prostrate early growth habit.
- Excellent straw strength and head retention.
- Resistant to leaf rust and net form of net blotch.

BREEDING

Fitzroy VB9926 has been bred by the Department of Primary Industries - Victoria from the cross WI2808/Alexis through the Malting Barley Quality Improvement Program (MBQIP) and evaluated in north-eastern Australia by the Queensland and New South Wales Department of Primary Industries through the Northern Region Barley Improvement Program. Fitzroy was named after the Australian Football League (AFL) club "Fitzroy Lions", which successfully migrated to QLD. This reflects the breeding, evaluation and adaptation of the variety.

GRAIN QUALITY

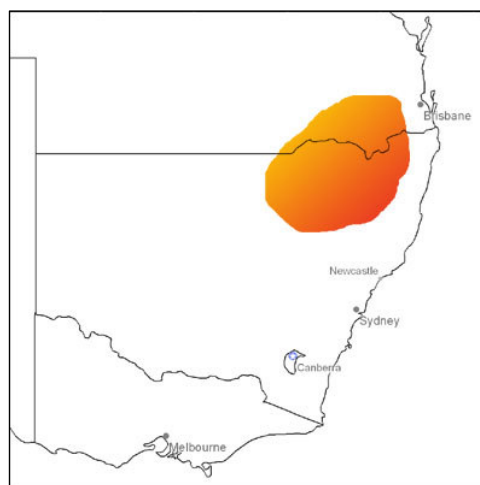
Physical grain quality analysis indicates the average grain plumpness of Fitzroy is superior to Gairdner, Grimmnett and Tallon.

Fitzroy represents an improvement compared to the current malting varieties in northern NSW and southern QLD, in wort viscosity, resulting in improved run-off times in the brewery compared to Gairdner.

AREA OF ADAPTATION

Fitzroy's excellent grain yields in northern Australia, relative to both malting and feed varieties, indicate broad adaptation to extensive areas in northern NSW and southern and central Queensland. Potentially Fitzroy could be successfully grown from Tamworth and Moree in northern NSW to Emerald in central Queensland.

Figure 1. Regions of adaptation for Fitzroy based on yield comparisons with competitor varieties.



(source: Mary Raynes, DPI - Horsham)

PLANT CHARACTERISTICS AND MATURITY

Fitzroy is a medium to late maturing, very high yielding, semi-dwarf variety with excellent straw strength and head retentions. Fitzroy planted before mid May will flower up to ten days earlier than Gairdner. Planted between mid May and end of June Fitzroy will flower 1 - 4 days earlier than Gairdner. Fitzroy will also flower earlier than Gairdner if planted in July.

AGRONOMIC GUIDELINES

A detailed Malt Barley Management guide is available from the Seednet website: www.seednet.com.au

 YIELD**Table 1.** Long term barley yields (t/ha) as a % of Gairdner (2002 - 2004).

Variety	E.QLD (2002 - 2004)	CQ (2002 - 2004)	W.QLD (2002 - 2004)	E.NSW (2002 - 2004)	W.NSW -2004
Gairdner (t/ha)	2.47	2.08	1.80	4.32	4.31
MALTING					
Cowabbie	112	122	112	107	93
Fitzroy	116	114	114	115	100
Gairdner	100	100	100	100	100
Grimmett	99	121	102	102	86
Tallon	103	109	98	102	90

Results obtained from the Stage 3 and 4 trials conducted by Queensland Department of Primary Industries and Fisheries.

 DISEASE RESISTANCE**Table 2.** Resistance of Fitzroy to commonly occurring diseases in the proposed growing regions compared to competitor varieties.

Variety	Leaf Rust	Stem Rust	Net Blotch		Spot Blotch	Powdery Mildew	Crown Rot	Common Root Rot	Covered Smut
			Net Form	Spot Form					
MALTING									
Fitzroy	S	MS	R	S	MS-S	S	S	MR	VS
Gairdner	S	MS-S	R	VS	S	S	VS	MR	S
Grimmett	S	MS-S	S	S	S	S	MS	MR	VS
Schooner	S	MS-S	R	MS	S	S	S	VS	R
Tallon	S	MS-S	S	S	S	R	S	MR	S

Disease terms: R – Resistant, MR – Moderately Resistant, MS – Moderately Susceptible, S – Susceptible, VS – Very Susceptible, VT – Very Tolerant, T – Tolerant, MT – Moderately Tolerant, MI – Moderately Intolerant, I – Intolerant, VI – Very Intolerant

 PLANT BREEDER RIGHTS AND ROYALTIES

Fitzroy 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 \$2.20 per tonne (GST inclusive), which includes breeder royalties, applies to this variety.

ACKNOWLEDGEMENTS

Fitzroy was bred by the Victorian Department of Primary Industries - Horsham, evaluated by the Queensland Department of Primary Industries and Fisheries - Warick and NSW Department of Primary Industries with support from Malting Barley Quality Improvement Program (MBQIP).

Information sourced from David Moody and Mary Raynes Victorian DPI - Horsham and Kym McIntyre Queensland DPI - Warick.



For more information call **Seednet** on **1300 799 246** or visit
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