



a two row feed grain barley with excellent acid soil tolerance

- higher yield than all other approved barley varieties on acid soil ($\text{pH}_{\text{CaCl}_2}$ 4.5–5.5)
- suited to main season sowing
- large grain size and good straw strength
- reliable disease resistance

Adaptation

Tulla[Ⓛ] is a semi-dwarf, two row, main season feed barley with excellent tolerance to acid soils ($\text{pH}_{\text{CaCl}_2}$ 4.5–5.5). On acid soils Tulla[Ⓛ] out yields all approved barley varieties and has equivalent yield to Tantangara on non-acid soils. It is an excellent main season feed barley for southern and central NSW.

Tulla[Ⓛ] has excellent plant stature and combines good straw strength and large grain size

Breeding

Tulla[Ⓛ] was bred by NSW DPI, Wagga Wagga and was selected for its acid soil tolerance. It was tested as WB230 and its pedigree is Skiff/FM437.

Disease status

Tulla[Ⓛ] is moderately resistant to the spot form of net blotch, and moderately susceptible to the net form of net blotch.

Tulla[Ⓛ] is moderately resistant to leaf scald, a significant improvement over Tantangara. It is very susceptible to powdery mildew and susceptible to leaf rust.

Disease status					
Disease	Leaf scald	Net blotch		Powdery mildew	Leaf rust
		Net	Spot		
Tulla [Ⓛ]	MR	MS	MR	VS-S	S
Schooner	MS	MS-MR	MS-S	VS	VS-S
Tantangara	S	S	VS	VS	MS
Urambie [Ⓛ]	R	R	VS	MS	S-MS

Disease resistance: VS-very susceptible; S-susceptible; MS-moderately susceptible; MR-moderately resistant; R-resistant

Performance • yield

Tulla[®] is high yielding, particularly on acid soils (pH_{CaCl2} 4.5–5.5). On non-acid soils Tulla[®] yield is equivalent to Tantangara.

Performance • grain quality

Tulla[®] is a high quality feed grain with large grain size, a high proportion of plump grain and low screenings.

Yield on highly acid soil	
Cultivar	Yield (t/ha)
Tulla [®]	1.41
Gairdner [®]	1.05
Skiff	1.03
Schooner	0.89
Sloop	0.81

Low fertility, highly acid site at Big Springs, southern NSW, 1999
 Soil pH_{CaCl2}: 4.21 (0–10 cm); 4.33 (10–20 cm)
 Exchangeable aluminium: 30%

Grain yield (% Tantangara) and number of trials from 1999–2005 across all soil types in central and southern NSW

Cultivar	Southern NSW		Central NSW	
	3.31 t/ha	91 trials	3.08 t/ha	70 trials
Tulla [®]	99	77	100	58
Cowabbie [®]	98	75	99	53
Gairdner [®]	100	91	100	70
Schooner	93	91	94	70
Urambie [®]	100	25	100	18

Physical grain quality

Cultivar	Plump grain	Screenings	Grain weight
	% >2.5 mm	% <2.2 mm	(g/1000)
Tulla [®]	80	1.8	47
Schooner	89	1.4	45
Tantangara	72	5.0	43

Seed and further information available from your local Waratah Seed Company Ltd member:

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