

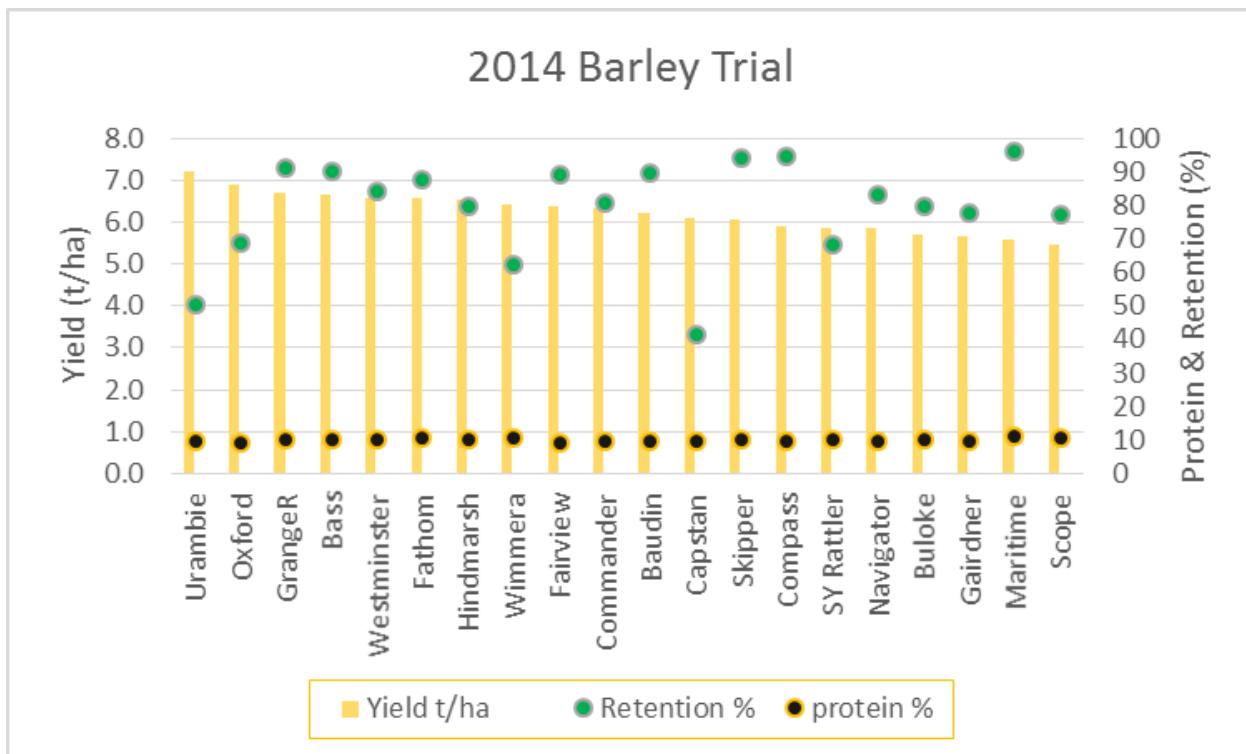
## Barley Variety Trial 2014

Sown on May 1<sup>st</sup> into quite moist soil following pre-irrigation in April, the trial got away to a good start. Sowing rates varied from 76 to 110 kg/ha depending on seed size, targeting an establishment of 175 plants/m<sup>2</sup>. Emergence was consistent across the trial and plant counts indicated establishment was on target.

80 kg N/ha was applied in two topdressings in June and July to bring the total N budget to 210 kg N/ha, enough for a 6.5 t/ha crop. This budget was based on the deep N soil test taken in April prior to pre-irrigation as per our usual practice, as well as an estimate of mineralisation through the season of 60 kg N/ha. As the soil was quite wet through June and July, there was the potential for some N to be lost through denitrification. Protein levels were a little below the target, so N losses were not as bad as expected, especially compared to the wheat trial. Protein was generally in the 9.5 – 10.5 % range.

The trial received a fungicide (tebuconazole at 145 ml/ha) in late July as there was quite a lot of spot form of net blotch present as a result of the wet winter. Little disease was detected later in the season.

First spring irrigation was on August 25<sup>th</sup>, and the second on September 19<sup>th</sup>. The trial did receive a third irrigation on October 15<sup>th</sup>, which was probably unnecessary, but as the trial was in the same bay as the wheat trial it was unavoidable. The trial was harvested on November 14<sup>th</sup> and averaged 6.23 t/ha.



The Least Significant Difference (LSD) for the trial was 0.47 t/ha.

Lodging was more prevalent this season, not helped by windy conditions throughout the later part of the season, particularly around irrigation. The table below shows the

lodging scores, where a “9” means the variety stood straight up with no lodging, and a “0” would represent the variety lying flat on the ground.

Variety	Yield (t/ha)	Lodging	Height (cm)
Urambie	7.20	9	70
Oxford	6.88	8	70
GrangeR	6.69	8	70
Bass	6.65	9	70
Westminster	6.58	8	80
Fathom	6.57	7	75
Hindmarsh	6.52	7	70
Wimmera	6.40	7	75
Fairview	6.38	9	80
Commander	6.35	7	70
Baudin	6.21	9	60
Capstan	6.09	8	60
Skipper	6.07	6	70
Compass	5.91	7	90
SY Rattler	5.86	8	80
Navigator	5.85	9	70
Buloke	5.71	8	85
Gairdner	5.67	8	90
Maritime	5.57	8	70
Scope	5.45	9	75

p	<0.001
lsd	0.47
cv%	4.6

Barley	2008	2009	2010	2011	2012	2013	2014	Ave	ICP
Oxford			120%		123%	114%	108%	116%	108%
Westminster				124%	114%	104%	104%	112%	
Vlamingh	108%	115%	97%					107%	98%
Urambie				99%	109%		113%	107%	
Hindmarsh	96%	89%	100%	115%	115%	96%	103%	102%	96%
GrangeR						105%	98%	102%	
SY Rattler				118%		92%	97%	102%	
Commander	100%	100%	100%	100%	100%	100%	100%	100%	100%
Fleet	92%	87%	105%	114%				100%	93%
Capstan	117%	89%	95%				96%	99%	104%
Bass	89%					100%	105%	98%	96%
Gairdner	94%	98%	78%	117%	111%		89%	98%	87%
Wimmera		90%					101%	96%	96%
Fitzroy	82%	87%	105%	106%				95%	95%
Baudin	83%	89%	95%	106%		99%	98%	95%	94%
Buloke	76%	95%	97%	107%		90%	90%	93%	90%
Flagship	98%	92%	89%					93%	89%
Navigator	84%						92%	88%	92%
Scope							88%	88%	
Schooner	77%	78%	78%					78%	81%
Commander t/ha	6.31	4.79	7.34	6.38	7.92	8.23	6.35	6.76	7.17

The above table summarises the performance of the varieties compared to Commander from the trials conducted at Kerang, as well as from the Irrigated Cereals Project (ICP) that was across a number of sites in the Murray and Murrumbidgee Valleys over 4 years.