

## Barley

Sown on May 5<sup>th</sup> into pre-irrigated, moist conditions, the trial got away to an excellent start with follow-up rain. Emergence was consistent across the trial and plant counts indicated establishment was a little below the target population of 175 pl/m<sup>2</sup>.

100 kg urea/ha was applied on July 19<sup>th</sup>, bringing the total N budget to 230 kg N/ha, enough for a 7 t/ha crop.

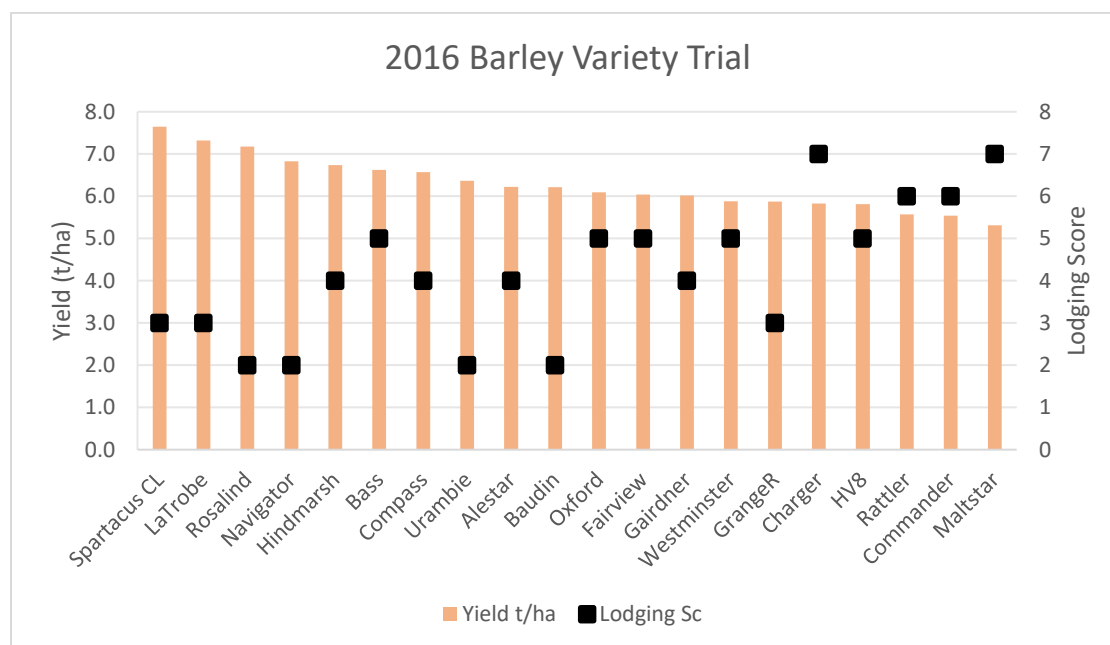
The trial was managed as a “conventional” trial and imi-tolerant varieties were not sprayed with their relevant herbicides.

The trial did not receive a fungicide spray.

The trial was not irrigated in spring.

Lodging did occur in all varieties to some extent, with Commander, Maltstar, Charger and SY Rattler the poorest performing varieties (0 = no lodging, 9 = flat on the ground). The lodging occurred after 50 mm of rain fell in mid-September.

Harvested on December 1<sup>st</sup>, the trial averaged 6.3 t/ha.



LSD = 0.57 t/ha, cv% = 5.8. Lodging Score: 0 = no lodging, 9 = flat

The trial was not sprayed to control foliar diseases. As the season progressed, spot form of net blotch and scald (to a lesser extent and depending on variety resistance) became more prevalent. Disease scores were taken on October 21<sup>st</sup>, but while the level of disease did reflect the variety rating, it was also influenced by plant maturity i.e. Navigator, a late maturing variety, had lower levels of leaf disease than an earlier maturing variety with the same disease rating. Leaf disease and subsequent loss of green leaf area does not automatically result in yield loss. In future, the trial will receive a fungicide application. Please refer to the Barley Fungicide trial for further information on disease management.

Barley	2010	2011	2012	2013	2014	2015	2016	Average	ICP
Spartacus						104%	138%	121%	
LaTrobe						99%	132%	116%	

Oxford	120%		123%	114%	109%	107%	110%	114%	108%
Navigator					93%	110%	123%	109%	92%
Westminster		123%	114%	104%	103%	98%	106%	108%	
Urambie		100%	101%		114%	105%	115%	107%	
Hindmarsh	100%	115%	115%	96%	103%	101%	122%	107%	96%
Bass				100%	105%	102%	119%	107%	96%
Fairview					102%	108%	109%	106%	104%
Granger				98%	107%	108%	106%	105%	
Baudin	95%	106%		99%	100%	103%	112%	103%	94%
Compass					94%	91%	119%	101%	
Commander	100%	100%	100%	100%	100%	100%	100%	100%	100%
Wimmera					103%	96%		100%	96%
Capstan	95%				98%	103%		99%	104%
Gairdner	78%	117%	111%		90%	90%	109%	99%	87%
Buloke	97%	107%		90%	90%	99%		97%	90%
SY Rattler				97%	93%		101%	97%	
Scope					87%	93%		90%	
Commander t/ha	7.3	6.4	7.9	8.2	6.4	8.2	5.5	7.1	7.2