

Irrigated Wheat Variety Evaluation 2016

36 wheat varieties and lines were sown, following pre-irrigation, on May 5th with variable sowing rates aiming at 175 plants/m².

Nitrogen management supplied a total of 320 kg N/ha, enough for an 8 t/ha crop.

Lucerne Flea (and probably Russian Wheat Aphid) was present shortly after emergence and again at flowering.

The trial received one fungicide application as a prophylactic treatments as little stripe rust was detected through the season. Yellow Leaf Spot was noted in the trial but not to the point where control was warranted.

The trial was irrigated once in spring, (mid-October).

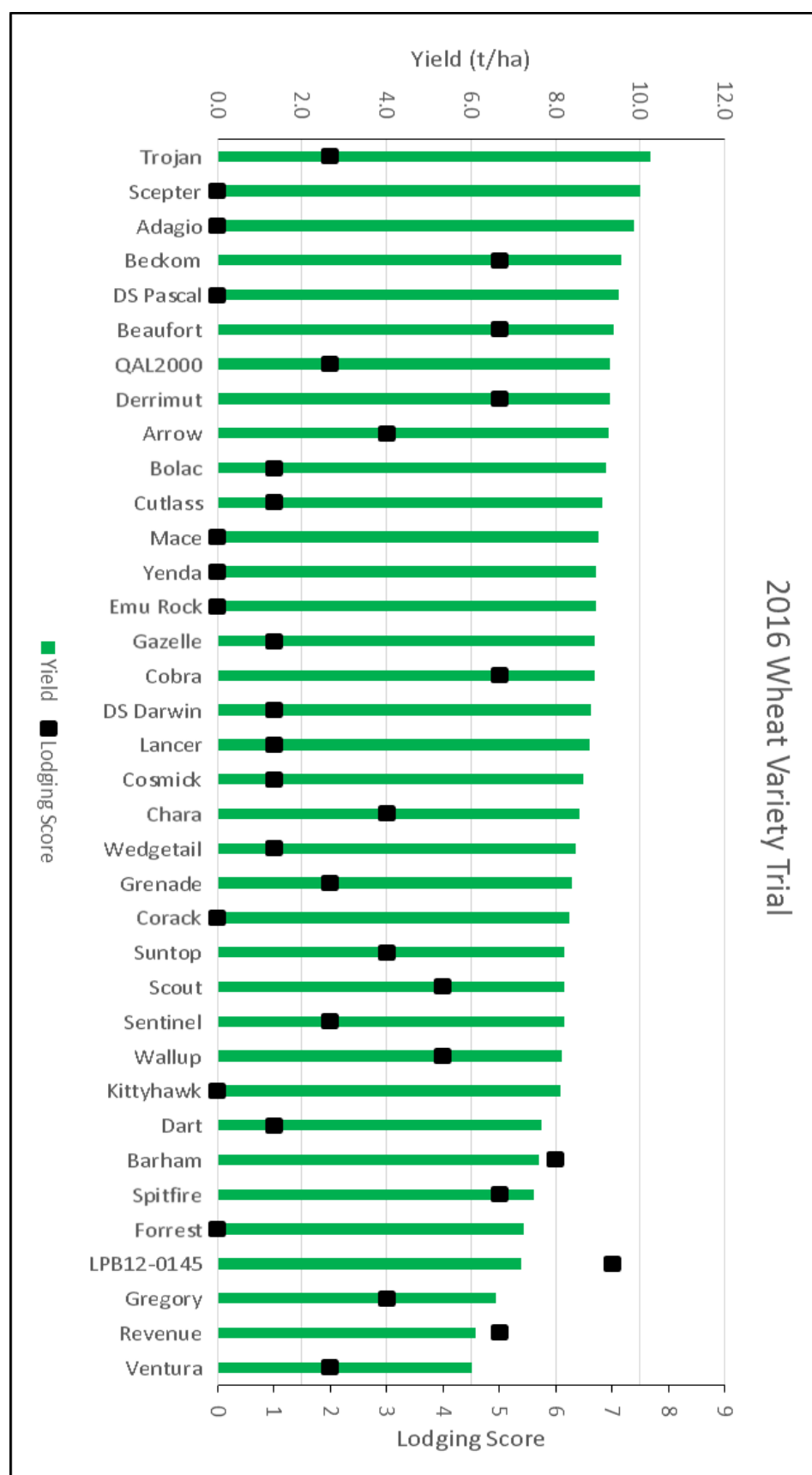
Harvested on December 11th, the trial averaged 8.5 t/ha.

Wheat	2009	2010	2011	2012	2013	2014	2015	2016	Ave	NVT
Scepter							92%	122%	107%	102%
Beckom							96%	117%	106%	101%
Trojan				98%	105%	106%	98%	125%	106%	100%
Beaufort	104%	106%	94%			112%	103%	114%	106%	108%
Cobra				99%	108%	102%	98%	109%	103%	102%
Arrow							90%	113%	102%	100%
Mace					95%	98%		110%	101%	89%
Scout	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
QAL2000							85%	113%	99%	94%
Gazelle		95%		100%	103%	91%	92%	109%	98%	93%
Lancer				95%	97%	94%	95%	108%	98%	96%
SF Adagio						74%	97%	120%	97%	98%
Sentinel	87%	108%	107%			87%	93%	100%	97%	
Kiora					93%	96%	98%		96%	
DS Darwin					92%	86%		108%	95%	93%
Chara	100%	97%	94%	88%		89%	88%	105%	94%	92%
Derrimut	108%	88%	94%	83%	95%	84%	89%	113%	94%	89%
Yenda	103%	80%				87%	88%	109%	93%	
Suntop				92%	92%	95%	78%	100%	91%	92%
Phantom			87%	97%	87%				91%	96%
Wallup				90%		84%	88%	99%	90%	90%
Wedgetail	87%	97%	73%			76%	90%	103%	88%	93%
Spitfire	82%	95%	90%	90%		77%		91%	88%	84%
Impala			89%	90%	85%	85%	86%		87%	95%
Elmore CL				91%	85%	84%	87%		87%	92%
Viking					83%	88%	78%		83%	100%
Ventura	97%	86%				73%	79%	73%	82%	
Gregory							80%	80%	80%	80%
Revenue						58%	91%	74%	74%	
Scout t/ha	7.4	7.7	7.2	8.9	9.0	7.6	8.7	8.2	8.1	8.4

Long term variety performance from Kerang and variety performance at the irrigated NVT site at Numurkah 2014-2016.

The “perfect” irrigated wheat variety remains elusive. While Scout, Cobra, Beaufort and Trojan remain consistent yield performers, and Scepter and Beckom appear to

have excellent potential, all have their flaws. Whether it be quality, disease resistance, lodging resistance or sprouting tolerance, variety choice remains a decision based on what you believe to be manageable in your situation.



LSD = 0.88 t/ha, cv% = 6.9

Lodging Score: 0 = no lodging, 9 = flat on the ground