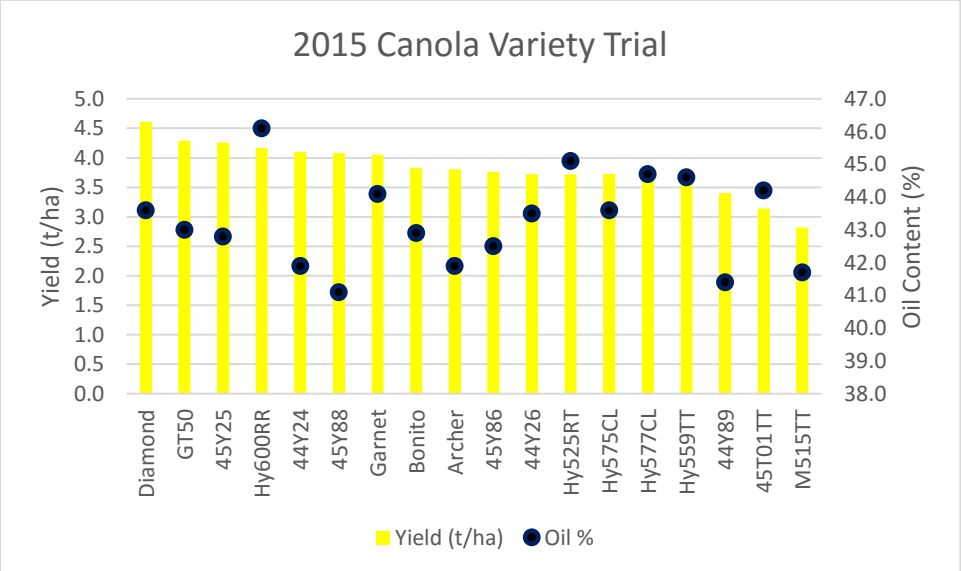
Canola Variety Trial 2015

The variety trial contains a mix of commercially available varieties, including Roundup Readies, Triazine Tolerants and Clearfields. The trial is managed as a "conventional" trial, i.e. the herbicide tolerant varieties do not get their respective herbicides applied. Due to the nature of the trial, the maturity range of the varieties sown cannot be too great. Therefore the trial features mainly mid-season varieties and those with maturities either side, based on our experience that given our sowing date of late April, highest yielding varieties have been predominately the mid to mid-late maturity varieties

Sowing is at variable rates that range from 3.2 to 4.5 kg/ha targeting 40 plants/m^2 on April 24^h then watered up.
Establishment was excellent and averaged 60 plants/m^2.
The trial was topdressed twice in July, 50 kg N/ha on July 10th and again on July 31st with 60 kg N/ha to bring the total N budget to 240 kg N/ha, enough for a 4 t/ha crop. The N efficiency rate of 60 kg N/t of canola is based on trials conducted at the trial block and backed up by the results from the trials over the seasons.

First spring irrigation was on September 6th, the second on September 18th and the third on October 2nd. The trial did receive a fourth irrigation on October 16th, which was probably unnecessary, but as the trial was in the same bay as the fabas and so was unavoidable.

The trial was windrowed on November 2nd, with some varieties reaching the 100% black seed stage (Diamond and 44Y89). The trial was windrowed early in the morning so as to minimise any shattering that might have occurred. No varieties suffering from excessive lodging, and the trial was harvested on November 17th. Below are the yield results, with the trial average being 3.8 t/ha. As per the normal trend for our trial, the TTs, as a group, were the lower yielding (3.58 t/ha), with the CLs next (3.75 t/ha), then the RRs (4.11 t/ha) and the conventionals (although there are only 2 varieties) (4.33 t/ha).



The least significant difference for yield was 0.47 t/ha.

Variety	Yield (t/ha)	Oil (%)	Height (cm)	Lodging Score	Flowering (days)
44Y24	4.10	41.9	160	0	36
44Y26	3.72	43.5	155	2	37
44Y89	3.40	41.4	150	0	36
45T01TT	3.14	44.2	150	1	31
45Y25	4.26	42.8	160	0	37
45Y86	3.76	42.5	160	0	34
45Y88	4.08	41.1	155	0	37
Archer	3.81	41.9	170	0	38
Bonito	3.83	42.9	130	2	30
Diamond	4.61	43.6	150	0	59
Garnet	4.05	44.1	160	2	34
GT50	4.29	43.0	155	2	30
Hy525RT	3.72	45.1	140	2	34
Hy559TT	3.62	44.6	150	1	34
Hy575CL	3.72	43.6	150	0	40
Hy577CL	3.72	44.7	160	0	35
Hy600RR	4.17	46.1	170	2	35
M515TT	2.82	41.7	140	1	34
p	<0.001				
lsd	0.4696				
cv%	7.4				

Medium term performances of the canola varieties at Kerang.

Canola	2011	2012	2013	2014	2015	Average
Diamond				121%	114%	118%
45Y25				118%	105%	112%
Hyola 600RR				113%	103%	108%
GT50			97%	117%	106%	107%
45Y88				108%	101%	105%
AVGarnet	100%	100%	100%	100%	100%	100%
44Y26				97%	92%	95%
Hyola 525RT				95%	92%	94%
Hyola 577CL			86%	101%	92%	93%
Bonito				85%	94%	90%
44Y89				95%	84%	90%
Hyola 575CL		79%	84%	99%	92%	89%
45Y86		81%	90%	86%	93%	88%
Hyola 559 TT		69%	87%	89%	101%	87%
Hyola 505RR	84%	76%	83%			80%
ATR Gem		72%	85%			79%
ATR Stingray	91%	73%	60%			75%
AVGarnet t/ha	3.29	4.84	4.68	4.09	4.05	4.38