

## Canola Variety Trials

SEPWA have tested 103 canola varieties for the period 2011 to 2018 in SEPWA variety trials throughout the Esperance Port Zone (EPZ) and has included 2 conventional, 17 Clearfield, 42 Triazine, 39 Roundup Ready and 3 RT® dual herbicide canola varieties.

Canola Yields x Year for SEPWA Trials 2011-2018					
Region	Yield (t/ha)	Protein %	Oil %	Yield (kg/mm)	Farmanco Ranking
<b>High Rainfall - Sandplain</b>	<b>1.690</b>	<b>21.0</b>	<b>44.6</b>	<b>5.4</b>	<b>\$840</b>
2011	1.828	19.5	43.3	5.9	\$899
2012	1.623	21.2	44.8	7.3	\$862
2013	1.191	20.7	44.0	2.7	\$573
2014	2.140	23.2	45.1	6.1	\$1,032
2015	1.126	21.0	46.2	3.3	\$534
2017	2.361	22.2	45.4	7.0	\$1,244
2018	1.628	22.3	45.5	4.8	\$792
<b>Medium Rainfall - Mallee</b>	<b>1.764</b>	<b>20.5</b>	<b>44.8</b>	<b>6.0</b>	<b>\$887</b>
2011	1.536	20.0	42.6	5.3	\$760
2012	2.128	22.1	42.7	9.1	\$1,140
2013	1.773	19.5	45.1	5.1	\$884
2014	1.383	21.9	42.8	3.7	\$635
2015	1.725	20.7	46.1	5.4	\$829
2016	2.089	18.9	47.5	5.5	\$1,070
2017	1.629	17.7	48.6	5.7	\$894
2018	1.654	20.6	47.2	8.2	\$831
<b>Low Rainfall - Mallee</b>	<b>1.139</b>	<b>21.5</b>	<b>44.6</b>	<b>5.0</b>	<b>\$570</b>
2011	0.782	22.3	40.5	3.5	\$348
2012	0.848	24.7	40.7	5.3	\$422
2013	1.432	19.7	47.3	5.8	\$735
2014	1.064	22.0	43.8	3.9	\$477
2015	1.435	21.0	44.1	5.1	\$724
2016	1.548	19.1	48.5	5.9	\$862
2017	1.215	20.3	47.0	5.5	\$672
2018	0.847	22.1	45.9	4.8	\$358
<b>Average</b>	<b>1.530</b>	<b>21.0</b>	<b>44.7</b>	<b>5.5</b>	<b>\$766</b>

Canola Yields x Herbicide Tolerant for SEPWA Trials 2011-2018					
Region x Trait	Yield (t/ha)	Protein %	Oil %	Farmanco Ranking	Yield (kg/mm)
<b>High Rainfall - Sandplain</b>	<b>1.690</b>	<b>21.0</b>	<b>44.6</b>	<b>5.4</b>	<b>\$840</b>
Clearfield	1.625	21.6	44.8	4.7	\$805
Conventional	1.816	20.1	43.9	7.3	\$1,006
Roundup Ready	1.717	20.8	44.5	5.5	\$796
RT Hybrid	1.421	22.4	45.8	4.0	\$692
Triazine	1.683	21.0	44.6	5.3	\$864
<b>Medium Rainfall - Mallee</b>	<b>1.764</b>	<b>20.5</b>	<b>44.8</b>	<b>6.0</b>	<b>\$887</b>
Clearfield	1.671	20.3	41.7	5.4	\$813
Conventional	2.151	20.0	42.6	7.5	\$1,189
Roundup Ready	1.801	20.5	45.8	6.2	\$858
RT Hybrid	1.673	19.8	48.1	5.6	\$810
Triazine	1.712	20.6	44.7	5.8	\$910
<b>Low Rainfall - Mallee</b>	<b>1.139</b>	<b>21.5</b>	<b>44.6</b>	<b>5.0</b>	<b>\$570</b>
Clearfield	0.789	22.4	42.0	4.1	\$350
Roundup Ready	2.056	20.4	47.9	7.8	\$968
Triazine	1.091	21.5	44.6	4.8	\$554
<b>Average</b>	<b>1.530</b>	<b>21.0</b>	<b>44.7</b>	<b>5.5</b>	<b>\$766</b>

## 2018 Canola Yield and Quality Data

In 2018 there were SEVEN (7) SEPWA canola variety trials comprising of TWO (2) Roundup Ready and FIV (5) Triazine Tolerant canola trails in the Esperance Port Zone.

The number of canola varieties in trials this year was down as a result of host growers seeding early and delays in getting seed here in time for sowing in 2018. Canola trials have been mixed with most growers indicating that “yield was not as good as expected” for the 2018 season.

### Canola Varieties 2018

2018 Canola Varieties			
Roundup Ready, RT® dual		Triazine Tolerant	
Company	Variety	Company	Variety
Bayer	IH51RR	NuSeed	ATR TM Bonito
Pacific	Hyola 404 RR	NuSeed	HyTTec Trophy TT
Pacific	Hyola 506 RR	NuSeed	NCH15T103 TT
NuSeed	GT 53	Bayer	InVigor T 4510 TT
Pioneer	44Y23	SeedNet	DG 670 TT
Pioneer	44Y27	Pacific	Hyola 350 TT
Pioneer	45Y25	Pacific	Hyola 559TT
Bayer	InVigor R 5520P- RR	Pacific	Hyola 650TT
SeedNet	DG 460 RR	Pioneer	44T02TT
SeedNet	DG 408 RR	SeedForce	SFR 65-017TT
Bayer	3000TR		

### Roundup Ready® Canola

There were TWO (2) Roundup Ready® canola varieties in the Esperance Port Zone at Scaddan and Wittenoom Hills. Unfortunately the site at Wittenoom Hills was not harvested due to poor establishment and plant populations as a result of seasonal conditions.

Roundup Ready® canola varieties were provided from various breeding programs including Bayer CropScience, Pioneer Hi-Bred Aust Pty Ltd, Nuseed, Pacific Seeds and Dyna-Gro Global (SeedNet) and included the following varieties.

**InVigor R 5520P- RR** an InVigor variety branded with Bayer’s unique pod shatter reduction trait technology. InVigor R 5520P is a RR hybrid for medium and high rainfall zones and has medium plant height with good lodging resistance. InVigor R 5220P is now the preferred PodGuard variety in medium to high rainfall areas.

**Bayer 3000TR** is an early dual tolerant hybrid canola, tolerant to both Triazine and Roundup for increased residual weed control and is earlier to flower than Stingray and is short to medium, suitable for direct harvest and yields similar to Stingray

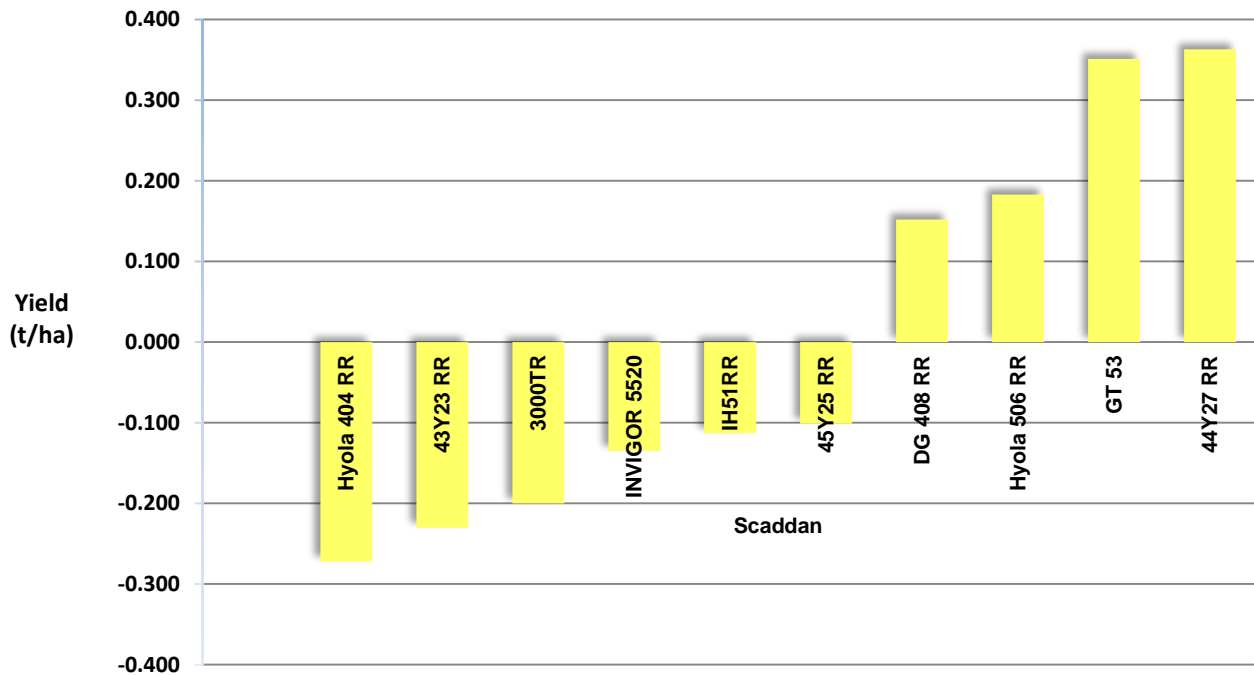
**Pioneer® 43Y23 (RR)** is an early maturing hybrid variety recommended for low to medium rainfall zones (300-500 mm) and has a medium plant height with excellent standability, suitable for direct heading. **Pioneer® 45Y25 (RR)** is a mid-season (5) maturity suited to medium to high rainfall growing zones and is shorter plant structure, outstanding standability and uniform ripening aids in harvest management. **Pioneer® 44Y27 (RR)** is an early-mid season (4) maturity and has a shorter plant structure, exceptional standability and uniform ripening aids ease of management and direct heading

Other varieties included IH51RR, GT 53, Hyola 404 RR, Hyola 506 RR, DG 460RR and DG 408RR

### 2018 SEPWA Canola Variety Trials- Roundup Ready®

Region	Yield (t/ha)	Protein %	Oil %	Yield (kg/mm)	Farmanco Ranking
<b>Medium Rainfall - Mallee</b>	<b>2.037</b>	<b>19.8</b>	<b>46.9</b>	<b>10.2</b>	<b>\$ 1,021</b>
<b>RR Hybrid</b>	<b>2.059</b>	<b>19.6</b>	<b>46.9</b>	<b>10.3</b>	<b>\$ 1,033</b>
43Y23 RR	1.807	20.6	44.6	9.0	\$ 871
44Y27 RR	2.400	18.2	47.6	12.0	\$ 1,232
45Y25 RR	1.936	18.0	46.0	9.7	\$ 955
DG 408 RR	2.189	19.3	49.2	10.9	\$ 1,126
GT 53	2.388	17.8	45.0	11.9	\$ 1,203
Hyola 404 RR	1.765	21.9	48.6	8.8	\$ 881
Hyola 506 RR	2.220	21.5	49.0	11.1	\$ 1,142
IH51RR	1.924	20.3	46.1	9.6	\$ 950
INVIGOR 5520	1.902	18.6	46.0	9.5	\$ 936
3000TR	1.837	21.4	47.1	9.2	\$ 909
<b>Average</b>	<b>2.037</b>	<b>19.8</b>	<b>46.9</b>	<b>10.2</b>	<b>\$ 1,021</b>

**2018 Roundup Ready® Yield - comparison to site average  
SEPWA Canola Trials**



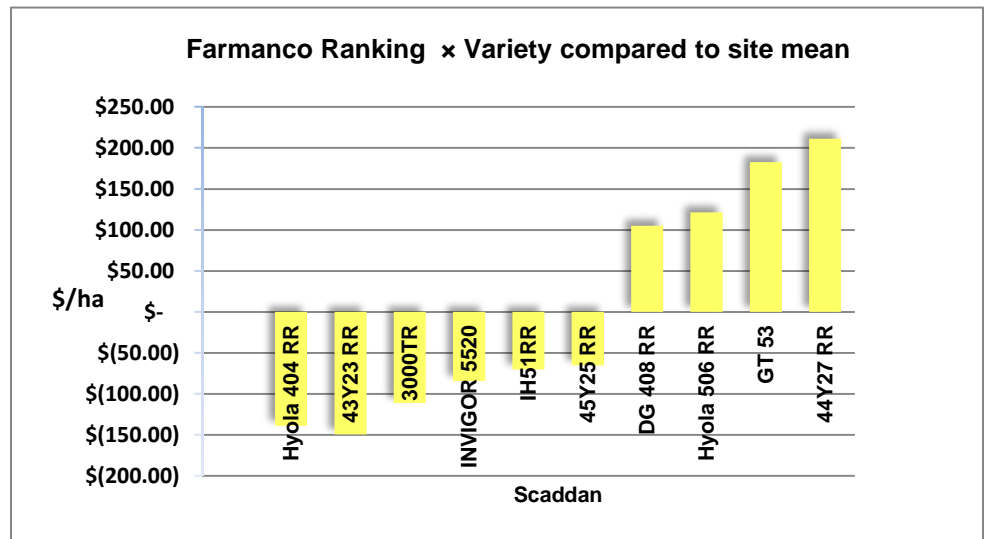
## Roundup Ready® Canola - Farmanco Economic Ranking (\$/ha)

Yield and quality data including protein, moisture and oil were been carried out on all varieties at each canola site. Given there are so many different systems and each has a significantly different seed and chemical cost the **Farmanco Economic Ranking** is based on current canola prices (FIS), yield, quality including oil bonus and cost of seed based on seeding rates and chemical costs, not including the knockdown component.

### Farmanco Economic Ranking

- \*Canola \$566/t : (48% Oil)
- \* Includes Oil Increments
- \* System Cost Included:  
(Seed, TUA & Chemical)
- High - RR Hybrids \$135/ha

2018 Triazine Tolerant Canola Farmanco Ranking Comparison to site average (\$/ha)	
Variety	Scaddan
3000TR	\$ 909
43Y23 RR	\$ 871
45Y25 RR	\$ 955
DG 408 RR	\$ 1,126
GT 53	\$ 1,203
Hyola 404 RR	\$ 881
IH51RR	\$ 950
44Y27 RR	\$ 1,232
Hyola 506 RR	\$ 1,142
INVIGOR 5520	\$ 936
<b>Average</b>	<b>\$ 1,021</b>



## Triazine Tolerant Canola

In 2018 there were FIVE (5) Triazine Tolerant canola trails in the Esperance Port Zone and some of the new or latest release varieties included

**InVigor 4510 TT** (Bayer CropScience) is an early – mid maturity triazine tolerant hybrid canola variety suited for low-medium or medium average rainfall areas in WA

**Pioneer ® 44T02 TT** (Pioneer Hi-Bred Aust) is an early-mid maturity (4) triazine-tolerant hybrid and ideally suited to low to medium rainfall growing zones with a medium tall plant type

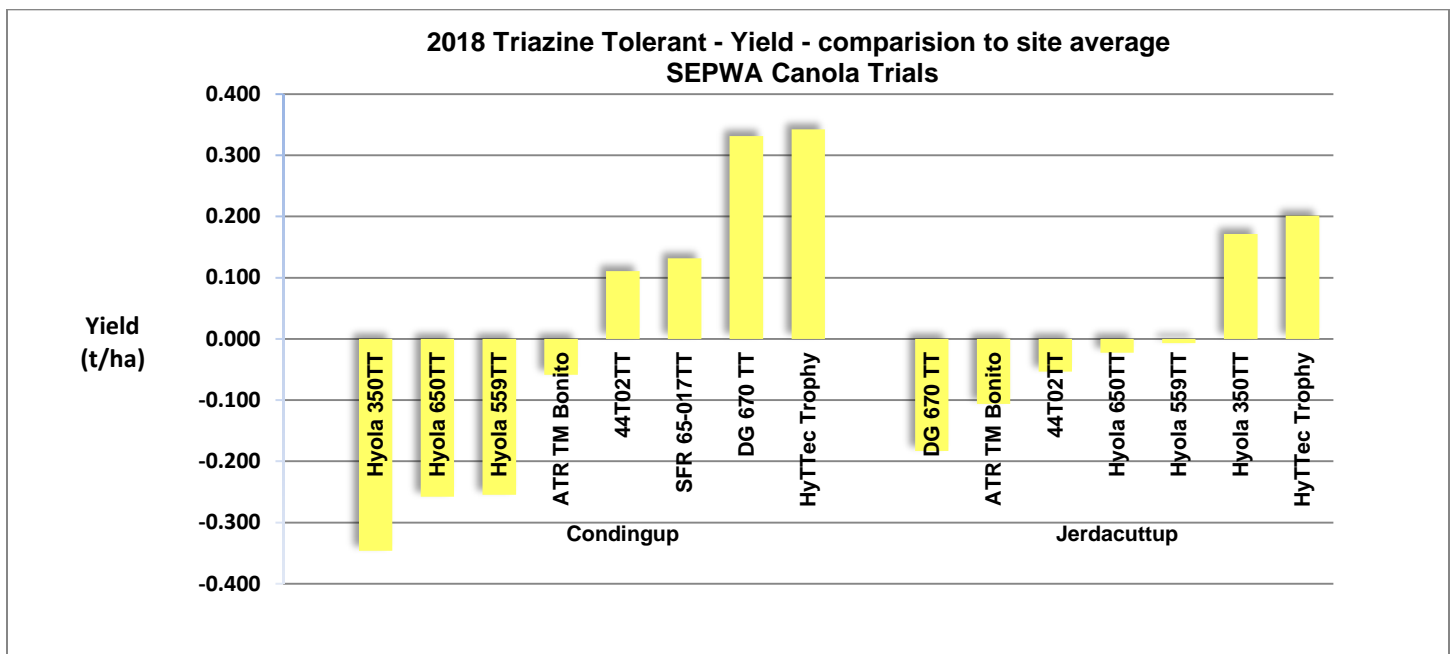
**HyTTec Trophy** (Nuseed) is an early-mid maturing (4) canola and is a medium to tall plant type and **NCH15T103** (Nuseed) another early-mid maturity hybrid variety.

**Hyola 350TT** (Pacific Seeds) is an early maturity triazine tolerant canola hybrid with a medium to short plant height.

**SFR 65-017TT** (SeedForce) is an early maturity triazine tolerant canola hybrid

Other older varieties were ATR TM Bonito, DG 670 TT, Hyola 559TT and Hyola 650TT.

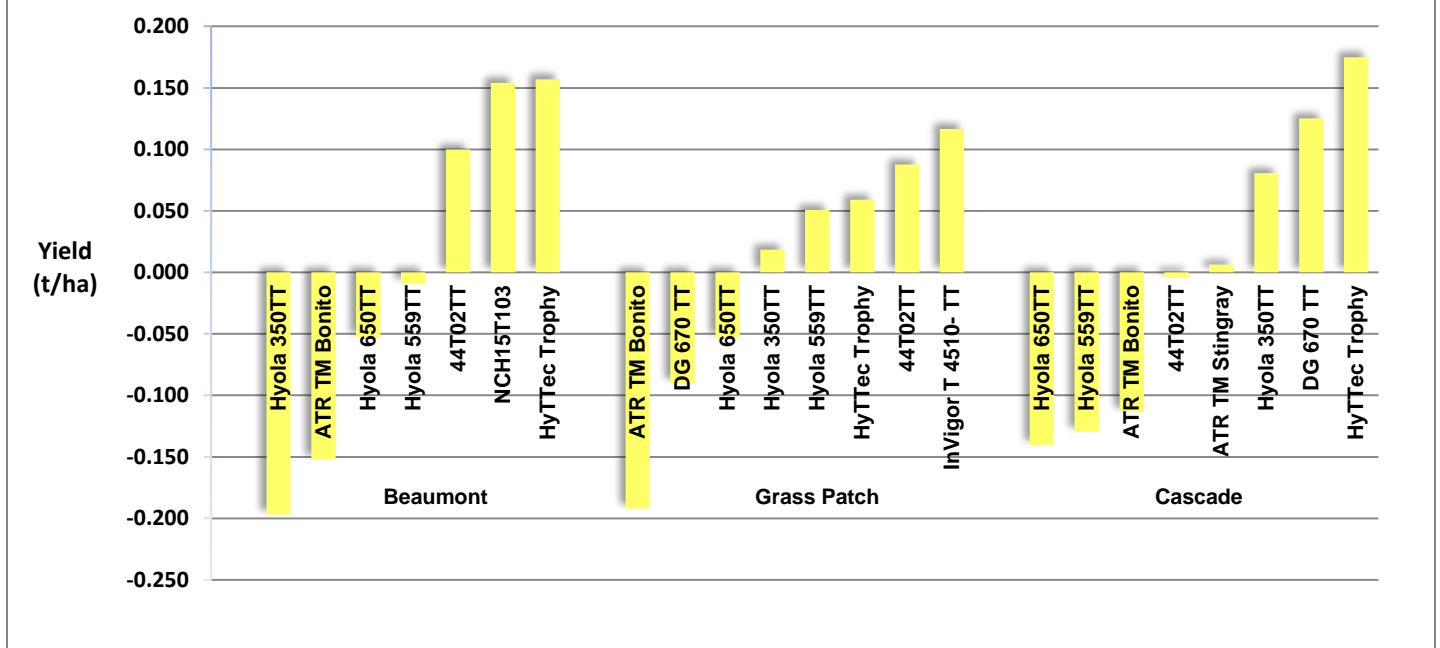
2018 SEPWA Canola Variety Trials- Triazine Tolerant					
Region	Yield (t/ha)	Protein %	Oil %	Yield (kg/mm)	Farmanco Ranking
<b>Condungup</b>	<b>1.628</b>	<b>22.3</b>	<b>45.5</b>	<b>4.8</b>	<b>\$792</b>
44T02TT	1.739	20.6	42.1	5.1	\$815
ATR TM Bonito	1.569	20.3	46.2	4.6	\$843
DG 670 TT	1.960	22.8	45.5	5.8	\$976
Hyola 350TT	1.282	24.4	46.2	3.8	\$582
Hyola 559TT	1.373	23.1	46.3	4.0	\$636
Hyola 650TT	1.370	22.6	46.4	4.0	\$635
HyTTec Trophy	1.970	22.8	46.0	5.8	\$987
SFR 65-017TT	1.760	21.7	45.8	5.2	\$861
<b>Jerdacuttup</b>	<b>1.107</b>	<b>21.8</b>	<b>47.6</b>	<b>5.3</b>	<b>\$560</b>
44T02TT	1.054	22.3	47.2	5.1	\$497
ATR TM Bonito	1.001	20.5	49.1	4.8	\$707
DG 670 TT	0.924	22.1	47.6	4.4	\$490
Hyola 350TT	1.279	22.0	47.1	6.1	\$796
Hyola 559TT	1.100	22.1	48.6	5.3	\$504
Hyola 650TT	1.084	22.3	48.2	5.2	\$393
HyTTec Trophy	1.308	21.4	45.1	6.3	\$530
<b>Average</b>	<b>1.385</b>	<b>22.1</b>	<b>46.5</b>	<b>5.0</b>	<b>\$683</b>



### 2018 SEPWA Canola Variety Trials- Triazine Tolerant

Region	Yield (t/ha)	Protein %	Oil %	Yield (kg/mm)	Farmanco Ranking
<b>Beaumont</b>	<b>0.785</b>	<b>24.8</b>	<b>44.3</b>	<b>2.6</b>	<b>\$306</b>
44T02TT	0.885	25.6	43.3	3.0	\$346
ATR TM Bonito	0.633	25.5	44.5	2.1	\$277
Hyola 350TT	0.588	26.6	44.7	2.0	\$183
Hyola 559TT	0.776	26.5	43.9	2.6	\$287
Hyola 650TT	0.732	24.9	44.3	2.4	\$265
HyTTec Trophy	0.942	23.2	43.5	3.1	\$382
NCH15T103	0.939	21.3	46.0	3.1	\$403
<b>Grass Patch</b>	<b>0.835</b>	<b>22.3</b>	<b>45.7</b>	<b>5.9</b>	<b>\$343</b>
44T02TT	0.923	22.4	45.6	6.5	\$384
ATR TM Bonito	0.643	21.4	44.8	4.5	\$313
DG 670 TT	0.745	22.1	44.9	5.3	\$266
Hyola 350TT	0.854	23.3	46.7	6.0	\$338
Hyola 559TT	0.886	22.6	46.7	6.3	\$368
Hyola 650TT	0.782	22.4	47.2	5.5	\$334
HyTTec Trophy	0.894	22.1	45.0	6.3	\$349
InVigor 4510 TT	0.952	22.3	44.3	6.7	\$393
<b>Cascade</b>	<b>0.913</b>	<b>19.6</b>	<b>47.7</b>	<b>5.6</b>	<b>\$418</b>
44T02TT	0.909	18.6	46.4	5.6	\$398
ATR TM Bonito	0.800	19.6	47.5	4.9	\$344
ATR TM Stingray	0.919	19.4	47.6	5.7	\$419
DG 670 TT	1.038	18.3	47.7	6.4	\$530
Hyola 350TT	0.994	20.1	48.4	6.1	\$466
Hyola 559TT	0.783	20.2	48.2	4.8	\$340
Hyola 650TT	0.773	20.5	47.7	4.8	\$329
HyTTec Trophy	1.088	19.8	47.8	6.7	\$516
<b>Average</b>	<b>0.847</b>	<b>22.1</b>	<b>45.9</b>	<b>4.8</b>	<b>\$358</b>

**2018 Triazine Tolerant - Yield - comparison to site average  
SEPWA Canola Trials**



<b>2018 SEPWA Canola Variety Trials – Triazine Tolerant Percentage Yield (Site Mean)</b>					
<b>Variety</b>	<b>High Rainfall - Sandplain</b>	<b>Medium Rainfall - Mallee</b>	<b>Low Rainfall - Mallee</b>		
	<b>Condingup</b>	<b>Jerdacuttup</b>	<b>Beaumont</b>	<b>Grass Patch</b>	<b>Cascade</b>
ATR TM Stingray					101%
Hyola 559TT	84%	99%	99%	106%	86%
Hyola 650TT	84%	98%	93%	94%	85%
DG 670 TT	120%	83%		89%	114%
InVigor 4510 TT				114%	
44T02TT	107%	95%	113%	111%	100%
Hyola 350TT	79%	115%	75%	102%	109%
HyTTec Trophy	121%	118%	120%	107%	119%
NCH15T103			120%		
SFR 65-017TT	108%				
ATR TM Bonito	96%	90%	81%	77%	88%
<b>Average</b>	<b>1.628</b>	<b>1.107</b>	<b>0.785</b>	<b>0.835</b>	<b>0.913</b>

A number of varieties performed well on the 2018 Triazine Tolerant variety trials however it has been noticed in a number of trials that ATR TM Bonito did not perform as well as previous years in the SEPWA trials in the Esperance Port Zone.

<b>2018 SEPWA Canola Variety Trials – Triazine Tolerant Percentage ATR TM Bonito</b>					
<b>Variety</b>	<b>High Rainfall - Sandplain</b>	<b>Medium Rainfall - Mallee</b>	<b>Low Rainfall - Mallee</b>		
	<b>Condingup</b>	<b>Jerdacuttup</b>	<b>Beaumont</b>	<b>Grass Patch</b>	<b>Cascade</b>
<b>ATR TM Bonito</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
ATR TM Stingray					115%
Hyola 559TT	88%	110%	123%	138%	98%
Hyola 650TT	87%	108%	116%	122%	97%
DG 670 TT	125%	92%		116%	130%
InVigor T 4510- TT				148%	
44T02TT	111%	105%	140%	143%	114%
Hyola 350TT	82%	128%	93%	133%	124%
HyTTec Trophy	126%	131%	149%	139%	136%
NCH15T103			148%		
SFR 65-017TT	112%				
<b>ATR TM Bonito</b>	<b>1.569</b>	<b>1.001</b>	<b>0.633</b>	<b>0.643</b>	<b>0.800</b>

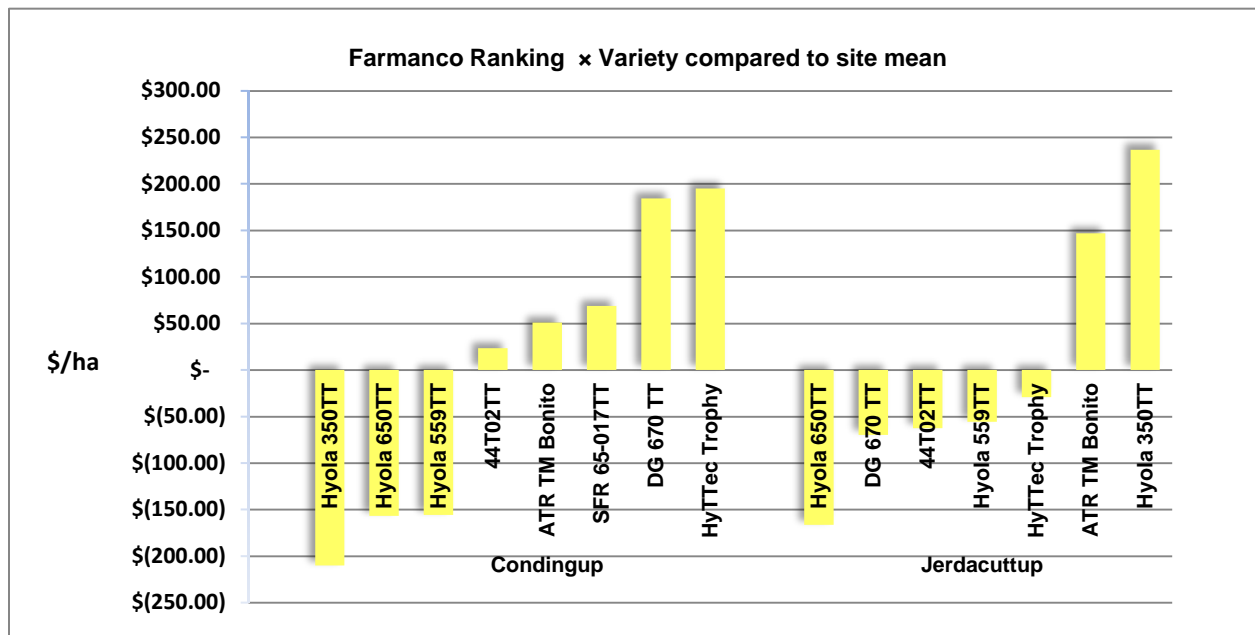
## Triazine Tolerant Canola - Farmanco Economic Ranking (\$/ha)

Yield and quality data including protein, moisture and oil were been carried out on all varieties at each canola site. Given there are so many different systems and each has a significantly different seed and chemical cost the **Farmanco Economic Ranking** is based on current canola prices (FIS), yield, quality including oil bonus and cost of seed based on seeding rates and chemical costs, not including the knockdown component.

### Farmanco Economic Ranking

- \*Canola \$591/t : (48% Oil)
- \* Includes Oil Increments
- \* System Cost Included:  
(Seed, TUA & Chemical)
- Low - TT OP's \$ 66/ha
- High - TT Hybrids \$135/ha

2018 Triazine Tolerant Canola					
Farmanco Ranking					
Comparison to site average (\$/ha)					
Variety	Condingup	Jerdacuttup	Beaumont	Grass Patch	Cascade
ATR TM Bonito	\$843	\$707	\$277	\$313	\$344
ATR TM Stingray					\$419
DG 670 TT	\$976	\$490		\$266	\$530
Hyola 559TT	\$636	\$504	\$287	\$368	\$340
InVigor T 4510 TT				\$393	
Hyola 650TT	\$635	\$393	\$265	\$334	\$329
44T02TT	\$815	\$497	\$346	\$384	\$398
Hyola 350TT	\$582	\$796	\$183	\$338	\$466
HyTTec Trophy	\$987	\$530	\$382	\$349	\$516
NCH15T103			\$403		
SFR 65-017TT	\$861				
<b>Average</b>	<b>\$792</b>	<b>\$560</b>	<b>\$306</b>	<b>\$343</b>	<b>\$418</b>





### Farmanco Ranking x Variety compared to site mean

