

Canola Site Agronomy

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Small Plot Demos	Canola Seed, Herbicide Systems
Location	Longerenong, VIC
Sowing Date	16 May 2020
Images taken	21 July 2020 (60 DAS)
Expected date for next image capture	22 September 2020 (123 DAS)
Contractor	Kaylx
Soil Type	Grey Clay pH (1:5 Water) 8.5 pH (1:5 CaCl ₂) 7.8 Electrical Conductivity (1:5 water) dS/m 0.18 Electrical Conductivity (Sat. Ext.) dS/m 1.1 Organic Carbon 1.2% Colwell P 23 mg/kg PBI 160
Weather and soil	Conditions at sowing: Min 8.4oC – Max 22.0oC, RH 85, Wind NNE at 17km/hr, dry topsoil to 2 cm, good subsoil moisture (sticky with some clods)
Note	Heavy thunderstorm in evening after sowing with 15mm high intensity rainfall caused some damage to seed furrow integrity
Weather data	http://www.bom.gov.au/climate/dwo/202007/html/IDCJDW3044.202007.shtml

Monthly rainfall (May)	41.8mm
Frost days	3
Monthly rainfall (June)	20.0mm
Frost days	12
Monthly rainfall (July)	13.0mm
Frost days	6
Monthly rainfall (August)	62.4mm
Frost days	5

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Herbicide	Herbicide Group	Paddock Sample - Longerenong Site	
		Survival	Rating
Glyphosate 540 at 2L/ha	Group M	70	RRR

Herbicide resistance test: (Plant Science Consulting)

ARG plants tested have a strong resistance (RRR) with a 70% survival to 540 glyphosate applied at 2 L/ha.

Planting Date	16th May 2020
Depth	1cm
Row spacing	23cm
Equipment: Knifepoint+ Press wheel	Moist seed bed that was slightly cloddy
Fertiliser applied	22 September 2020 (123 DAS)
16 May 2020	Granulock Z Flutriafol at 4L/t at 100 kg/ha Urea at 50kg/ha

Treatments applied

InVigor varieties treated with ILeVO & Poncho Plus

Triazine Tolerant Technology (ATR Bonito, InVigor T 4510, InVigor T 6010 (668TT), AN20LT001)

Herbicide system:

- 17th May 2020, IBS – Rustler 500SC at 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro at 1.4Lt/ha + Wetter TX at 250ml/100Lt (within 24hrs sowing)
- 18th May 2020, PSPE - Atrazine at 2.2kg/ha + Pyrinex Super at 500ml/ha
- 9th July 2020 (GS14-15), EPE – Select Xtra at 330ml/ha + Lontrel Ad at 150ml/ha + Uptake 1Lt/100Lt

TruFlex + Triazine Tolerant Technology AN18Q4x1893 RR2_O and AN18Q4x1899 RR2_O

Herbicide system:

- 17th May 2020, IBS - Rustler 500SC at 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro at 1.4Lt/ha + Wetter TX at 250ml/100Lt (within 24hrs sowing)
- 18th May 2020, PSPE - Pyrinex Super at 500ml/ha + Atrazine at 1.1kg/ha
- 9th July 2020 (GS14-15), EPE – Roundup Ready Plantshield at 900g/ha + Atrazine at 1.1kg/ha
- Follow up EPE 21st July 2020 (GS15)– Roundup Ready Plantshield at 900g/ha
- Still to be sprayed. Post em Bolting to first flower – Roundup Ready Plantshield at 900g/ha (Additional TruFlex timing)

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Roundup Ready Technology InVigor R 3520 and InVigor R 5520 P

Herbicide system:

- i) 17th May 2020, IBS - Rustler 500SC at 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro at 1.4Lt/ha + Wetter TX at 250ml/100Lt (within 24hrs sowing)
- ii) 18th May 2020, PSPE – Pyrinex Super at 500ml/ha
- iii) 9th July 2020 (GS14-15), EPE – Roundup Ready Plantshield at 900g/ha + Lontrel Ad at 150ml/ha
- iv) Follow up EPE 21st July 2020 (GS15) – Roundup Ready Plantshield at 900g/ha

TruFlex Roundup Ready Technology InVigor R 4022P, InVigor R 4520P (AN18R9002) and AN20LR005

Herbicide system:

- i) 17th May 2020, IBS - Rustler 500SC at 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro at 1.4Lt/ha + Wetter TX at 250ml/100Lt (within 24hrs sowing)
- ii) 18th May 2020, PSPE – Pyrinex Super at 500ml/ha
- iii) 9th July 2020 (GS14-15), EPE – Roundup Ready Plantshield at 900g/ha + Lontrel Ad at 150ml/ha
- iv) Follow up EPE 21st July 2020 (GS15) – Roundup Ready Plantshield at 900g/ha
- v) Still to be sprayed. Post em Bolting to first flower – Roundup Ready Plantshield at 900g/ha (Additional TruFlex timing)

TruFlex Roundup Ready + Liberty Link Technology AN20LR006

Herbicide system:

- i) 17th May 2020, IBS - Rustler 500SC at 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro at 1.4Lt/ha + Wetter TX at 250ml/100Lt (within 24hrs sowing)
- ii) 18th May 2020, PSPE - Pyrinex Super at 500ml/ha
- iii) 9th July 2020 (GS14-15), EPE – Select Xtra at 330ml/ha + Liberty at 2Ltha + Uptake at 500ml/100Lt
- iv) Follow up EPE 21st July 2020 (GS15) – Liberty at 2Ltha (MUST be 7 to 14 days after first Liberty spray)
- v) Still to be sprayed. Post em 6 Leaf to first flower – Roundup Ready Plantshield at 900g/ha

Triazine Tolerant + Liberty Link Technology AN20LT001

Herbicide system:

- i) 17th May 2020, IBS - Rustler 500SC at 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro at 1.4Lt/ha + Wetter TX at 250ml/100Lt (within 24hrs sowing)
- ii) 18th May 2020, PSPE – Atrazine at 1.1kg/ha + Pyrinex Super at 500ml/ha
- iii) 9th July 2020 (GS14-15), EPE – 417 g/L liquid Ammonium Sulfate at 2Lt/100Lt + Atrazine at 1.1kg/ha + Select Xtra at 330ml/ha + Liberty at 2Ltha + Uptake at 500ml/100Lt
- iv) Follow up EPE 21st July 2020 (GS15) – Liberty at 2Ltha (MUST be 7 to 14 days after first Liberty spray)

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	Treatment A: TT				Treatment B: RR (TruFlex) + TT		Treatment C: RR (RR1)		Treatment D: RR (TruFlex)			Treatment E: RR (TruFlex) + Liberty			Treatment F: EXP.			Treatment G: Liberty + TT			
BUFFER 3000 TR	ATR Bonito	InVigor T4510	InVigor T6010	EXPERIMENTAL	AN18Q4x1893 RR2_O	AN18Q4x1899 RR2_O	InVigor R 3520	InVigor R 5520P	InVigor R 4022P	InVigor R 4520P	EXPERIMENTAL	AN20LR006	AN20LR006	AN20LR006	EXPERIMENTAL	EXPERIMENTAL	EXPERIMENTAL	AN20LT001	AN20LT001	AN20LT001	BUFFER 3000 TR
1	Voraxor at 100ml/ha + Hasten at 1Lt/100Lt																				1
2	Voraxor at 100ml/ha + Glyphosate 450 at 2Lt/ha + Hasten at 1Lt/100Lt																				2
3	Glyphosate 450 at 2Lt/ha + Hasten at 1Lt/100Lt																				3
4	Voraxor at 100ml/ha + Hasten at 1Lt/100Lt + Gramoxone Pro 360° at 1.5/ha°																				4
5	Hasten at 1Lt/100Lt + Gramoxone Pro 360° at 1.5/ha°																				5
6	Hasten at 1Lt/100Lt + Gramoxone Pro 360° at 1.5/ha°, 7 to 10 days between applications. Double Knock.																				6
BUFFER 3000 TR	ATR Bonito	InVigor T4510	InVigor T6010	EXPERIMENTAL	AN18Q4X3893RR2_O	AN18Q4X3899RR2_O	InVigor R 3520	InVigor R 5520P	InVigor R 4022P	InVigor R 4520P	EXPERIMENTAL	AN20LR006	AN20LR006	AN20LR006	EXPERIMENTAL	EXPERIMENTAL	EXPERIMENTAL	AN20LR001	AN20LR001	AN20LR001	BUFFER 3000 TR