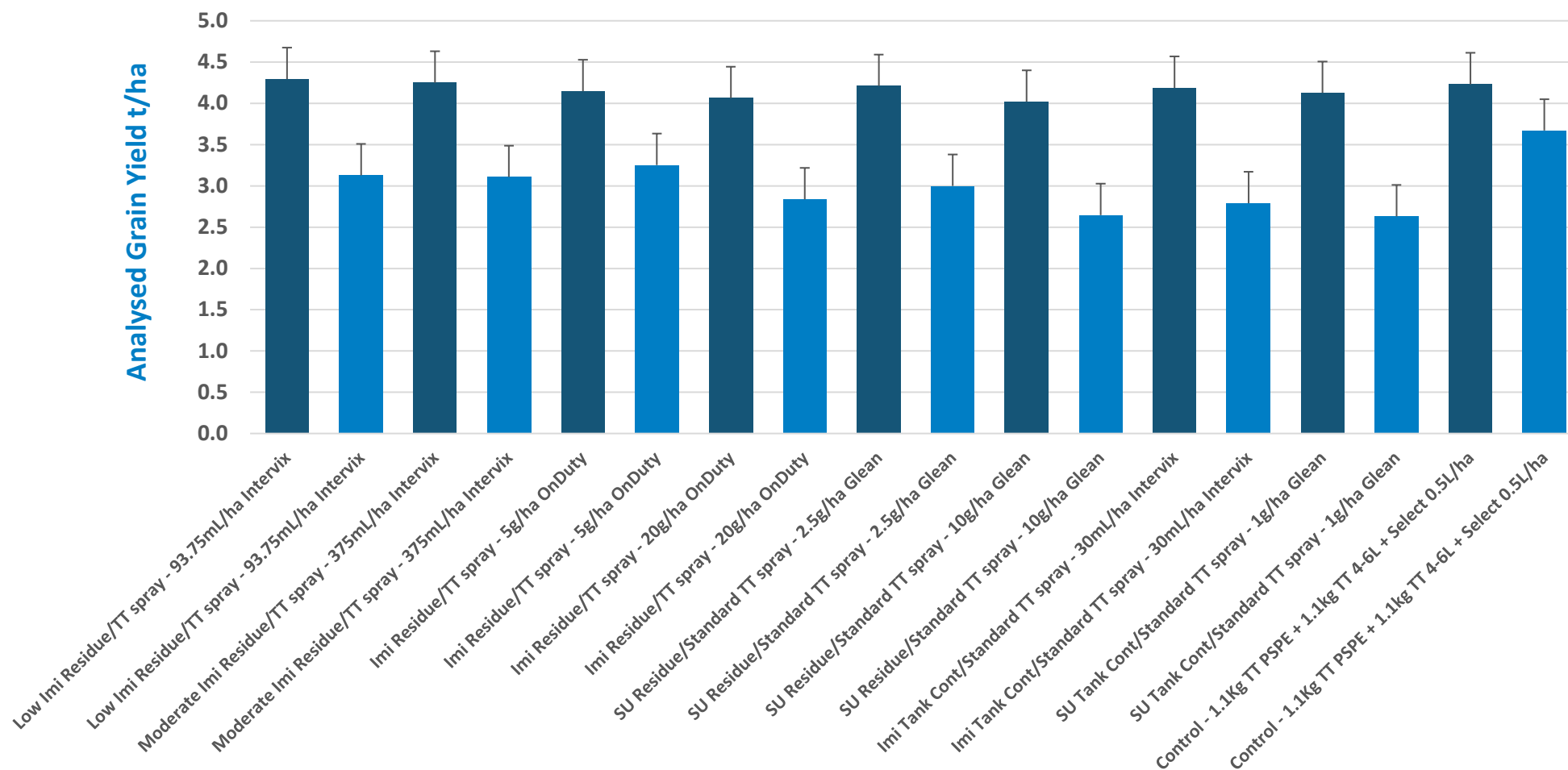


## ANALYSED GRAIN YIELD T/HA

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## 2019 Inverleigh Vic - Hyola CT IMI Residue Trial Analysed Grain Yield Results



## TREATMENT LISTING

Treatments:	TRT	Canola	Target Density	Herbicide Treatments by Active Ingredient and Application Timing		
Scenario	#	Variety	Seeding Rate	IBS (Code A)	PSPE (Code B)	Post Em (4-6 Leaf stage) (Code D)
Imi Residues/TT spray regime	1	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 93.75mL/ha Intervix	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
Imi Residues/TT spray regime	2	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 93.75mL/ha Intervix	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
Imi Residues/TT spray regime	3	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 375mL/ha Intervix	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
Imi Residues/TT spray regime	4	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 375mL/ha Intervix	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
Imi Residues/TT spray regime	5	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 5g/ha OnDuty	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
Imi Residues/TT spray regime	6	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 5g/ha OnDuty	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
Imi Residues/TT spray regime	7	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 20g/ha OnDuty	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
Imi Residues/TT spray regime	8	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 20g/ha OnDuty	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
SU Residues/TT spray regime	9	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 2.5 g/ha Glean	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
SU Residues/TT spray regime	10	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 2.5 g/ha Glean	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
SU Residues/TT spray regime	11	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 10 g/ha Glean	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
SU Residues/TT spray regime	12	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine + 10 g/ha Glean	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
IMI Tank contamination/TT spray regime	13	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine	1.1kg/ha Kelpie A-zine + 30mL/ha Intervix + 500mL/ha Select + 0.5% Uptake
IMI Tank contamination/TT spray regime	14	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine	1.1kg/ha Kelpie A-zine + 30mL/ha Intervix + 500mL/ha Select + 0.5% Uptake
SU Tank contamination/TT spray regime	15	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine	1.1kg/ha Kelpie A-zine + 1g/ha Glean + 500mL/ha Select + 0.5% Uptake
SU Tank contamination/TT spray regime	16	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine	1.1kg/ha Kelpie A-zine + 1g/ha Glean + 500mL/ha Select + 0.5% Uptake
control	17	Hyola 580CT	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake
control	18	ATR-Bonito	40/m2	1L/ha Rustler 500	1.1kg/ha Kelpie A-zine	1.1kg/ha Kelpie A-zine + 500mL/ha Select + 0.5% Uptake

## SITE HERBICIDE BEHAVIOUR SUMMARY

### 2019 Inverleigh Vic

Sown on the 22nd April into a heavier soil type with drier profile conditions led to varied establishment effects and lower than expected or targeted plant populations. Topsoil 0-10cm 6.4 pH at neutral levels leading into slightly acidic 5.2 at 10-20cm would have affected both movement and breakdown of IMI & SU chemistry as well as movement into a zone within the roots of the young seedlings. The canola plants were impeded initially by dryish conditions and then affected in plant number and leaf growth by specific treatments in May to August with some good follow-up rains.

Neutral soil both in the top 10cm may have led to some breakdown of IMI type chemistries whereas in the 10-20cm depth where acidity was higher, faster Glean<sup>®</sup> breakdown may have occurred. Reasonable amounts of IMI remained in the root profile especially with the higher rates of both Intervix<sup>®</sup> and OnDuty<sup>®</sup> where the damage to yield was significant.

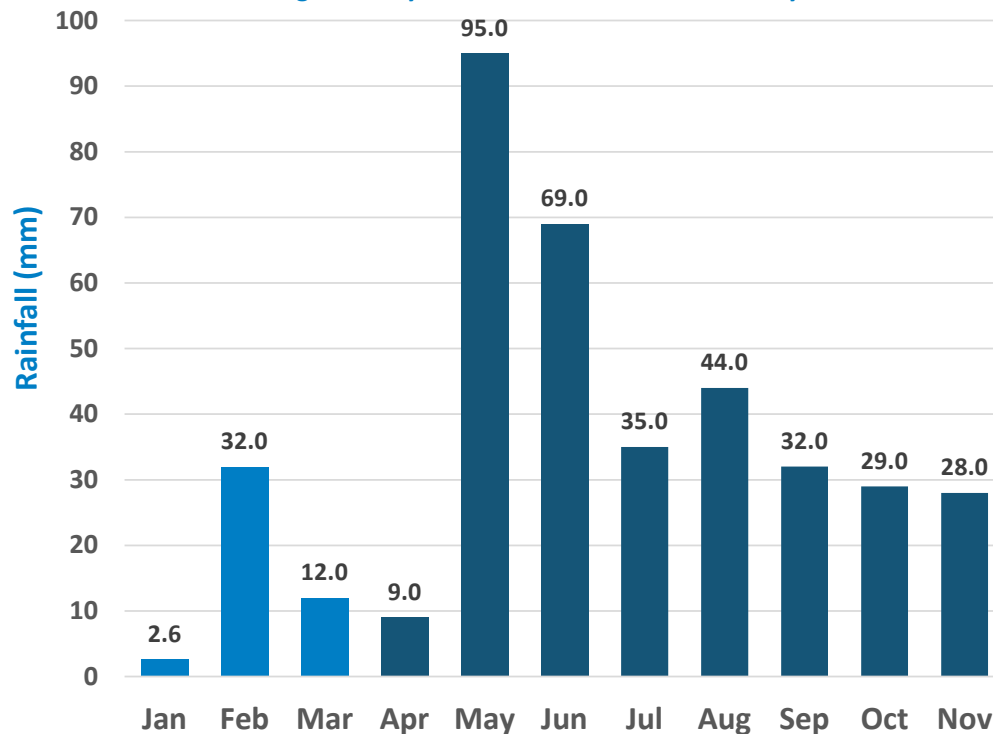
Mid-way through the crops growth, when the plants were more developed, symptoms developed quite effectively with some treatments, possibly due to more acid at depth where root development making it into the chemical zone provided damage to varying levels depending on treatment, however all IMI and SU treatments significantly impacted the OP TT variety yield results.

Variations in solubility have effected the IMI chemistry breakdown (less movement for OnDuty<sup>®</sup> chemistry). 1g of Glean<sup>®</sup> tank-mix and 30ml Intervix<sup>®</sup> tank-mix contamination treatments over the top has significantly impacted plant growth and yield in the OP TT variety with no inbuilt CL protection. The CT dual stack technology has shown very good resilience to Intervix<sup>®</sup> and OnDuty<sup>®</sup>, as well as good tolerance to SU chemistry residue applied PSPE in this site. The OP TT variety had significantly lower yields with the low and high rates of Intervix<sup>®</sup> and OnDuty<sup>®</sup> applied PSPE as well as the low and high rates of Glean<sup>®</sup> applied PSPE. Grain oil% contents for the OP TT and the CT technology did not show any major deviation from the control treatments in this higher rainfall site.



## RAINFALL DISTRIBUTION DETAILS

2019 Inverleigh Vic - Hyola CT IMI Residue Trial Monthly Rainfall



2019 Lake Bolac Vic - Hyola CT IMI Residue Trial Monthly Rainfall

