ANALYSED GRAIN YIELD T/HA

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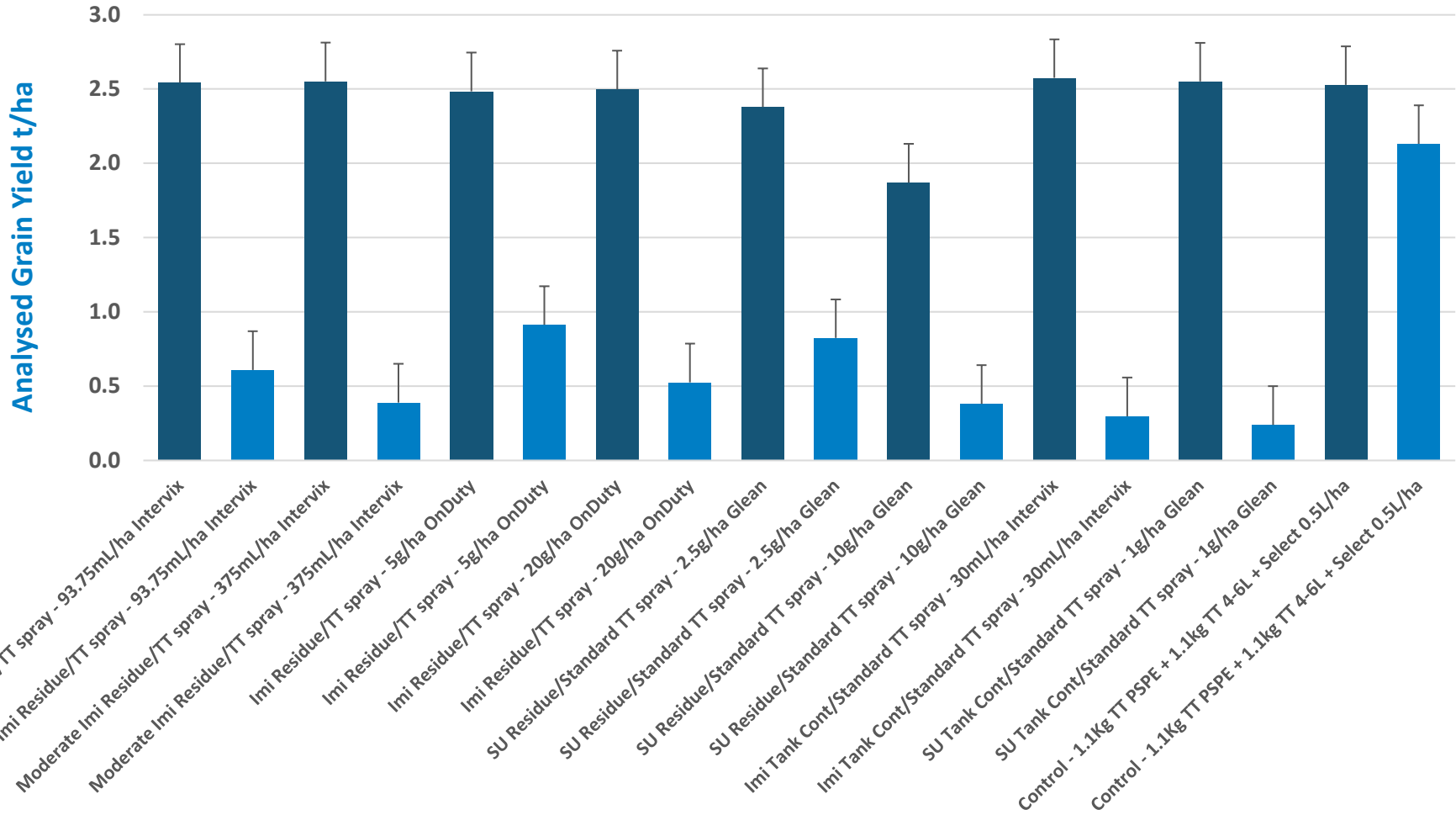
2019 Rutherglen Vic - Hyola CT IMI Residue Trial Analysed Grain Yield Results



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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 Rutherglen Vic

Sown on the 30th April provided good establishment with any variability mainly due to soil conditions conditions and pH related IMI & SU movementwithin the root zone of the young seedlings. The canola plants grew actively in all plots with many treatments taking effect early and visual symptoms were easily observable. Many treatments showed classic effects of damage associated with the actual chemistry treatments applied PSPE.

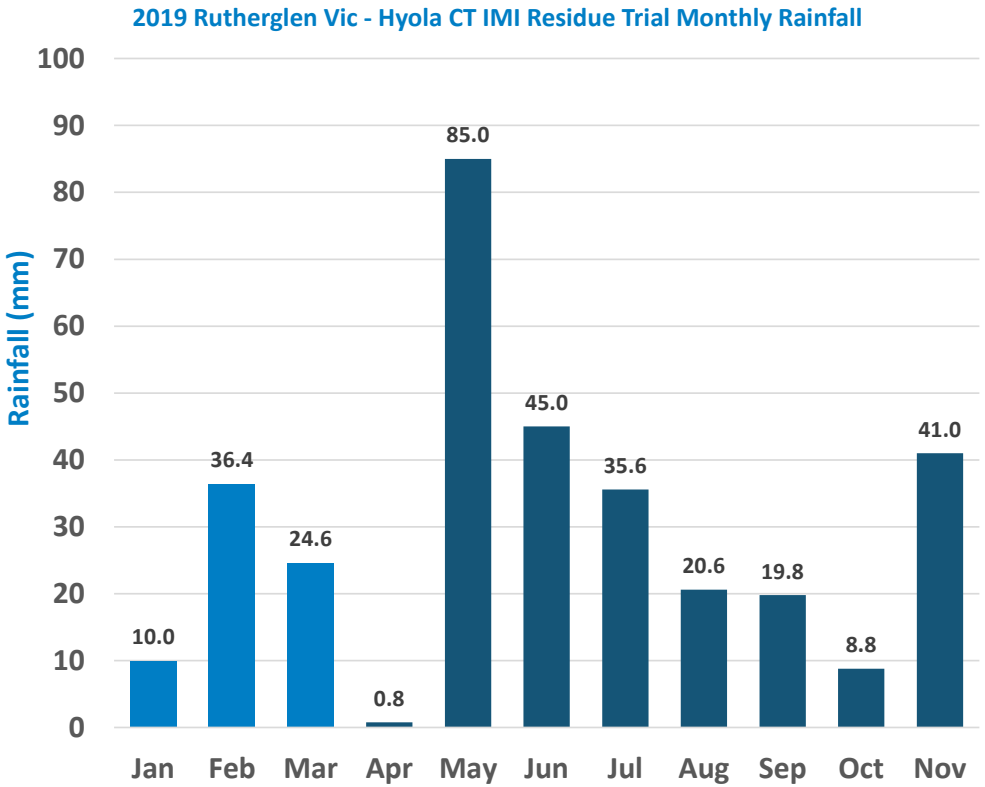
Acid soils (pH 4.9 - top 10cm and pH 4.6 in 10-20cm may have led to faster Glean® breakdown where as not the case of IMI chemistry. IMI chemistry appears to be have dispersed throughout the root zone which has led to significant damage as expected. When the plants were older, the treatments took even bigger effect and the resultant plant populations, plant height and grain yields reflect the significant reductions.

Variations in solubility have effected the IMI chemistry breakdown (less movement for OnDuty® chemistry). 1g of Glean® tank-mix and 30ml Intervix® 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® and OnDuty®, as well as moderate tolerance to SU chemistry residue applied PSPE in this site, however the higher rate of Glean® applied PSPE significantly reduced the yield of the CT technology at this site.

The OP TT variety had significantly lower yields with the low and high rates of Intervix® and OnDuty® applied PSPE as well as the low and high rates of Glean® applied PSPE.

RAINFALL DISTRIBUTION DETAILS



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