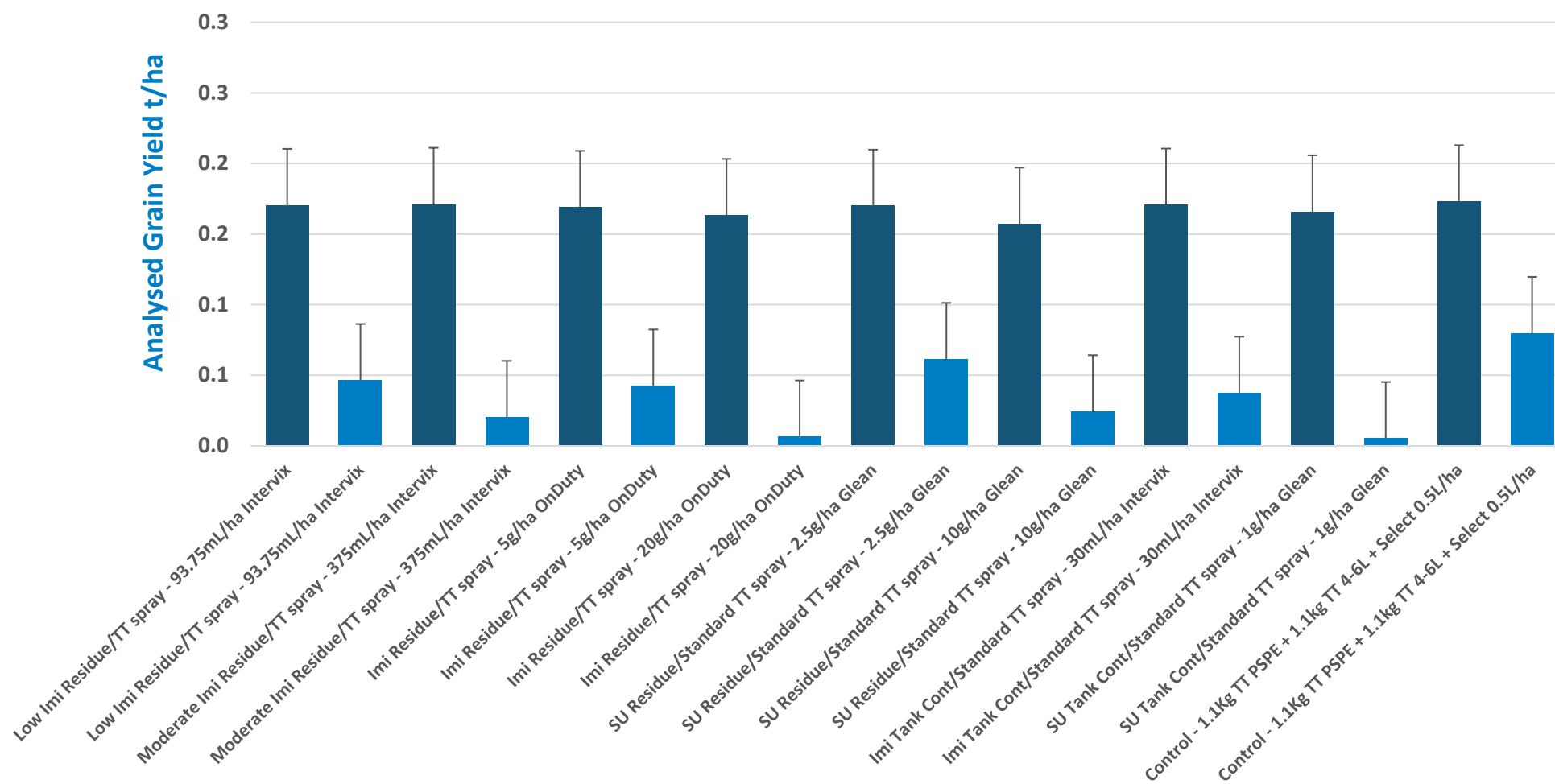


ANALYSED GRAIN YIELD (T/HA)

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2019 Temora NSW- 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 Temora NSW

Minimal establishment effects mainly due to soil having even dry profile establishment conditions and pH related IMI & SU movement into a zone 'slightly' below the roots of the young seedlings. The canola was impeded initially by ongoing dry conditions and frosts which didn't allow plants to find either water or IMI residue below the roots of the young seedlings until later in the season (July to Sept) but symptoms were somewhat variable because it was more alkaline at depth which changes the movement pattern of different chemistries.

Acid topsoil may have led to faster Glean® breakdown where as not the case of IMI chemistry. Channels of IMI chemistry in the profile after minimal movement maximised the damage effect expected on the OP TT technology with PSE application timing. The canola roots did make it into the chemical zone eventually and then treatment damage occurred, very often to significant levels.

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 good tolerance to SU chemistry residue in this low yielding site. The OP TT had significantly lower yields with high rates of Intervix® and OnDuty® as well as the high rate of Glean® applied PSPE.



RAINFALL DISTRIBUTION DETAILS

