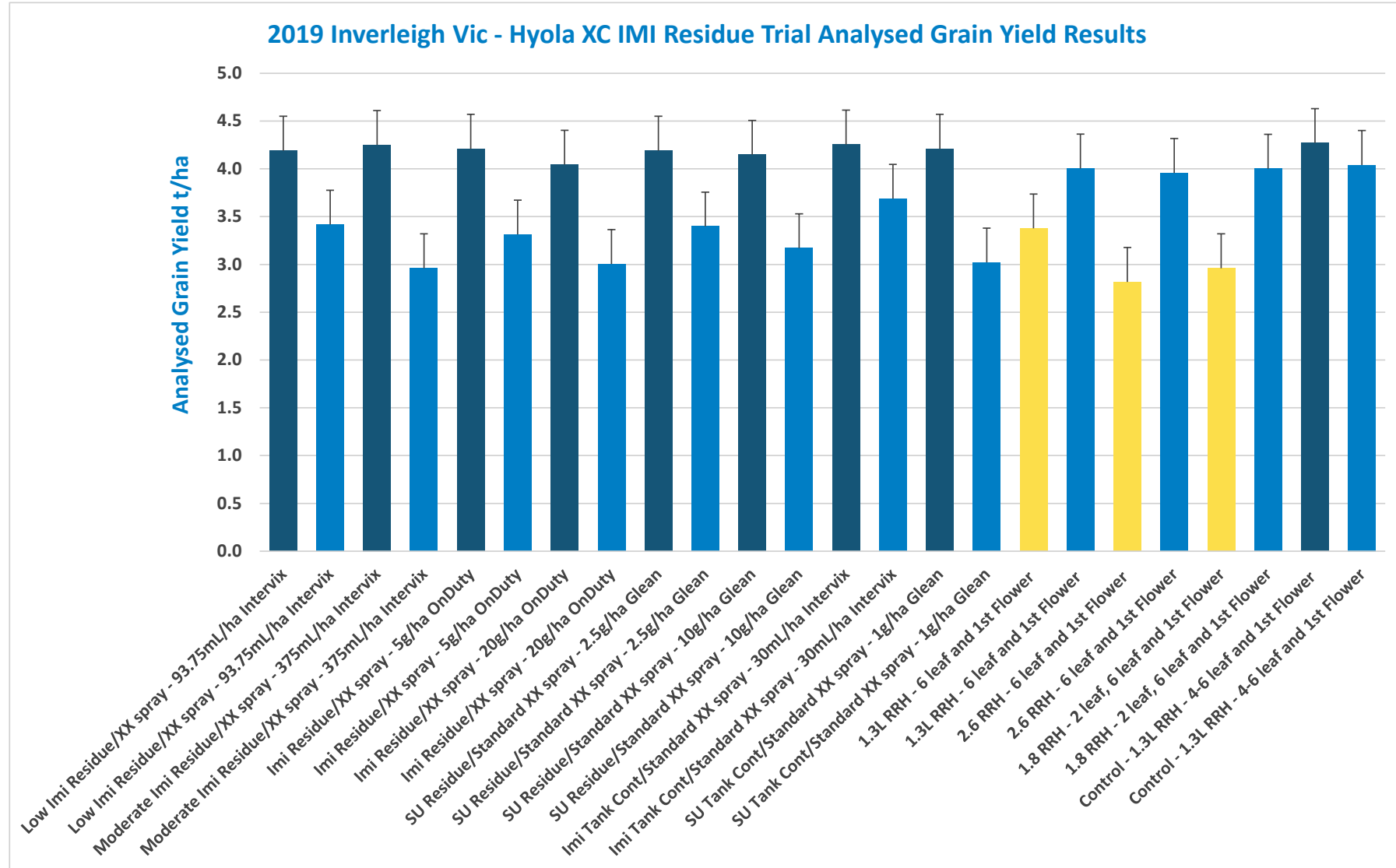


ANALYSED GRAIN YIELD T/HA

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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)	Early Post Em (1-2 Leaf) (Code C)	Post Em (4-6 Leaf stage) (Code D)	Late Post Em (first flower) (Code E)
Imi Residues/XX spray regime	1	Hyola 540XC	40/m2	1L/ha Rustler 500	93.75mL/ha Intervix		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Residues/XX spray regime	2	Hyola 410XX	40/m2	1L/ha Rustler 500	93.75mL/ha Intervix		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Residues/XX spray regime	3	Hyola 540XC	40/m2	1L/ha Rustler 500	375mL/ha Intervix		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Residues/XX spray regime	4	Hyola 410XX	40/m2	1L/ha Rustler 500	375mL/ha Intervix		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Residues/XX spray regime	5	Hyola 540XC	40/m2	1L/ha Rustler 500	5g/ha OnDuty		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Residues/XX spray regime	6	Hyola 410XX	40/m2	1L/ha Rustler 500	5g/ha OnDuty		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Residues/XX spray regime	7	Hyola 540XC	40/m2	1L/ha Rustler 500	20g/ha OnDuty		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Residues/XX spray regime	8	Hyola 410XX	40/m2	1L/ha Rustler 500	20g/ha OnDuty		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
SU Residues/XX spray regime	9	Hyola 540XC	40/m2	1L/ha Rustler 500	2.5g/ha Glean		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
SU Residues/Standard XX spray regime	10	Hyola 410XX	40/m2	1L/ha Rustler 500	2.5g/ha Glean		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
SU Residues/Standard XX spray regime	11	Hyola 540XC	40/m2	1L/ha Rustler 500	10g/ha Glean		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
SU Residues/Standard XX spray regime	12	Hyola 410XX	40/m2	1L/ha Rustler 500	10g/ha Glean		1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Imi Tank contamination/standard XX spray regime	13	Hyola 540XC	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield + 30mL/ha Intervix	1.3kg/ha Roundup Ready with Plantsield
Imi Tank contamination/standard XX spray regime	14	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield + 30mL/ha Intervix	1.3kg/ha Roundup Ready with Plantsield
SU Tank contamination/standard XX spray regime	15	Hyola 540XC	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield + 1g/ha Glean	1.3kg/ha Roundup Ready with Plantsield
SU Tank contamination/standard XX spray regime	16	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield + 1g/ha Glean	1.3kg/ha Roundup Ready with Plantsield
1.3L RRH - 6 leaf and 1st Flower regime	17	Hyola 404RR	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
1.3L RRH - 6 leaf and 1st Flower regime	18	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
2.6 RRH - 6 leaf and 1st Flower regime	19	Hyola 404RR	40/m2	1L/ha Rustler 500			2.6kg/ha Roundup Ready with Plantsield	2.6kg/ha Roundup Ready with Plantsield
2.6 RRH - 6 leaf and 1st Flower regime	20	Hyola 410XX	40/m2	1L/ha Rustler 500			2.6kg/ha Roundup Ready with Plantsield	2.6kg/ha Roundup Ready with Plantsield
1.8 RRH - 2 leaf, 6 leaf and 1st Flower regime	21	Hyola 404RR	40/m2	1L/ha Rustler 500		1.8kg/ha Roundup Ready with Plantsield	1.8kg/ha Roundup Ready with Plantsield	1.8kg/ha Roundup Ready with Plantsield
1.8 RRH - 2 leaf, 6 leaf and 1st Flower regime	22	Hyola 410XX	40/m2	1L/ha Rustler 500		1.8kg/ha Roundup Ready with Plantsield	1.8kg/ha Roundup Ready with Plantsield	1.8kg/ha Roundup Ready with Plantsield
Control	23	Hyola 540XC	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield
Control	24	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantsield	1.3kg/ha Roundup Ready with Plantsield

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[®] breakdown may have occurred. Reasonable amounts of IMI remained in the root profile especially with the higher rates of both Intervix[®] and OnDuty[®] 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. i.e. specifically the higher rates of Intervix[®] and OnDuty[®] and Glean[®].

Variations in solubility have effected the IMI chemistry breakdown (less movement for OnDuty[®] chemistry). 1g of Glean[®] over the top has significantly impacted plant growth and yield in the XX hybrid with no inbuilt CL protection as it is very sensitive to Glean[®]. The XC dual stack technology has shown very good resilience to Intervix[®] and OnDuty[®], as well as moderate to good tolerance to SU chemistry residue applied PSPE in this site. The XX TruFlex[®] technology had significantly lower yields with higher rates of Intervix[®] and OnDuty[®] applied PSPE as well as the high rate of Glean[®] applied PSPE.

Roundup Ready[®] technology yield decreased across treatments and were shown as being significant, with the decreases being rate related with higher rates at flowering or total rates applied explaining the differences. The XX TruFlex[®] technology showed no significant decrease in yield, regardless of straight glyphosate rate and application timings. The XC Technology showed the highest yields in the trial due to rainfall events and higher yielding environment.



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