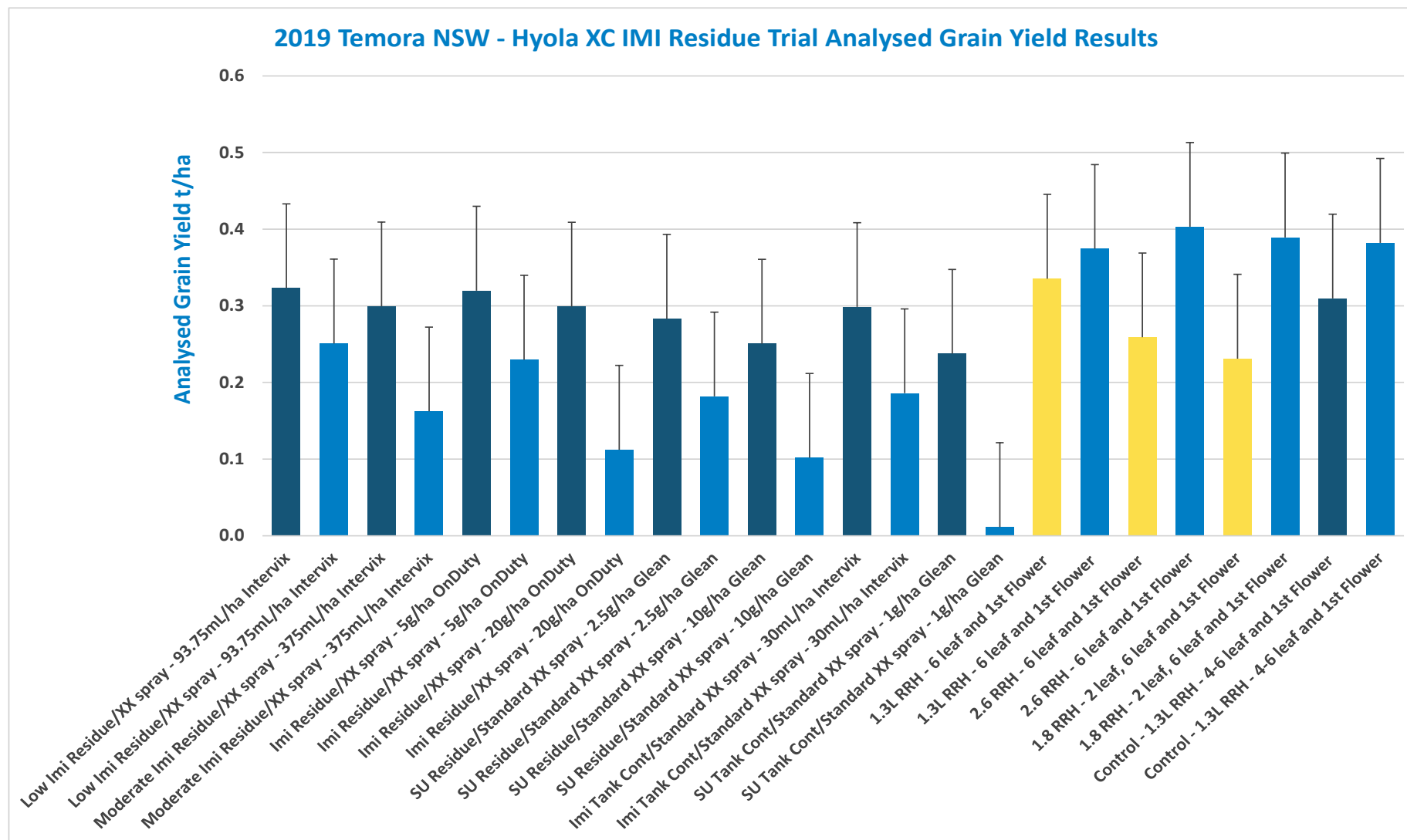


ANALYSED GRAIN YIELD (T/HA)

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Pacific Seeds

Growing possibilities

Hyola® XC IMI Residue Trial Results 2019

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 Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Residues/XX spray regime	2	Hyola 410XX	40/m2	1L/ha Rustler 500	93.75mL/ha Intervix		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Residues/XX spray regime	3	Hyola 540XC	40/m2	1L/ha Rustler 500	375mL/ha Intervix		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Residues/XX spray regime	4	Hyola 410XX	40/m2	1L/ha Rustler 500	375mL/ha Intervix		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Residues/XX spray regime	5	Hyola 540XC	40/m2	1L/ha Rustler 500	5g/ha OnDuty		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Residues/XX spray regime	6	Hyola 410XX	40/m2	1L/ha Rustler 500	5g/ha OnDuty		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Residues/XX spray regime	7	Hyola 540XC	40/m2	1L/ha Rustler 500	20g/ha OnDuty		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Residues/XX spray regime	8	Hyola 410XX	40/m2	1L/ha Rustler 500	20g/ha OnDuty		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
SU Residues/XX spray regime	9	Hyola 540XC	40/m2	1L/ha Rustler 500	2.5g/ha Glean		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
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 Plantshield	1.3kg/ha Roundup Ready with Plantshield
SU Residues/Standard XX spray regime	11	Hyola 540XC	40/m2	1L/ha Rustler 500	10g/ha Glean		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
SU Residues/Standard XX spray regime	12	Hyola 410XX	40/m2	1L/ha Rustler 500	10g/ha Glean		1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Imi Tank contamination/standard XX spray regime	13	Hyola 540XC	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield + 30mL/ha Intervix	1.3kg/ha Roundup Ready with Plantshield
Imi Tank contamination/standard XX spray regime	14	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield + 30mL/ha Intervix	1.3kg/ha Roundup Ready with Plantshield
SU Tank contamination/standard XX spray regime	15	Hyola 540XC	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield + 1g/ha Glean	1.3kg/ha Roundup Ready with Plantshield
SU Tank contamination/standard XX spray regime	16	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield + 1g/ha Glean	1.3kg/ha Roundup Ready with Plantshield
1.3L RRH - 6 leaf and 1st Flower regime	17	Hyola 404RR	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
1.3L RRH - 6 leaf and 1st Flower regime	18	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
2.6 RRH - 6 leaf and 1st Flower regime	19	Hyola 404RR	40/m2	1L/ha Rustler 500			2.6kg/ha Roundup Ready with Plantshield	2.6kg/ha Roundup Ready with Plantshield
2.6 RRH - 6 leaf and 1st Flower regime	20	Hyola 410XX	40/m2	1L/ha Rustler 500			2.6kg/ha Roundup Ready with Plantshield	2.6kg/ha Roundup Ready with Plantshield
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 Plantshield	1.8kg/ha Roundup Ready with Plantshield	1.8kg/ha Roundup Ready with Plantshield
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 Plantshield	1.8kg/ha Roundup Ready with Plantshield	1.8kg/ha Roundup Ready with Plantshield
Control	23	Hyola 540XC	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield
Control	24	Hyola 410XX	40/m2	1L/ha Rustler 500			1.3kg/ha Roundup Ready with Plantshield	1.3kg/ha Roundup Ready with Plantshield

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 XX TruFlex® 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 XX hybrid with no inbuilt CL protection. The XC dual stack technology has shown very good resilience to Intervix® and OnDuty®, as well as moderate tolerance to SU chemistry residue in this site. The XX TruFlex® technology had significantly lower yields with both rates of Intervix® and OnDuty® as well as the low and high rates of Glean® applied PSPE.

Roundup Ready® technology yield showed a downward trend across treatments but not shown as being always significant due to low yielding variable site, however, yield decreases are 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.



RAINFALL DISTRIBUTION DETAILS

