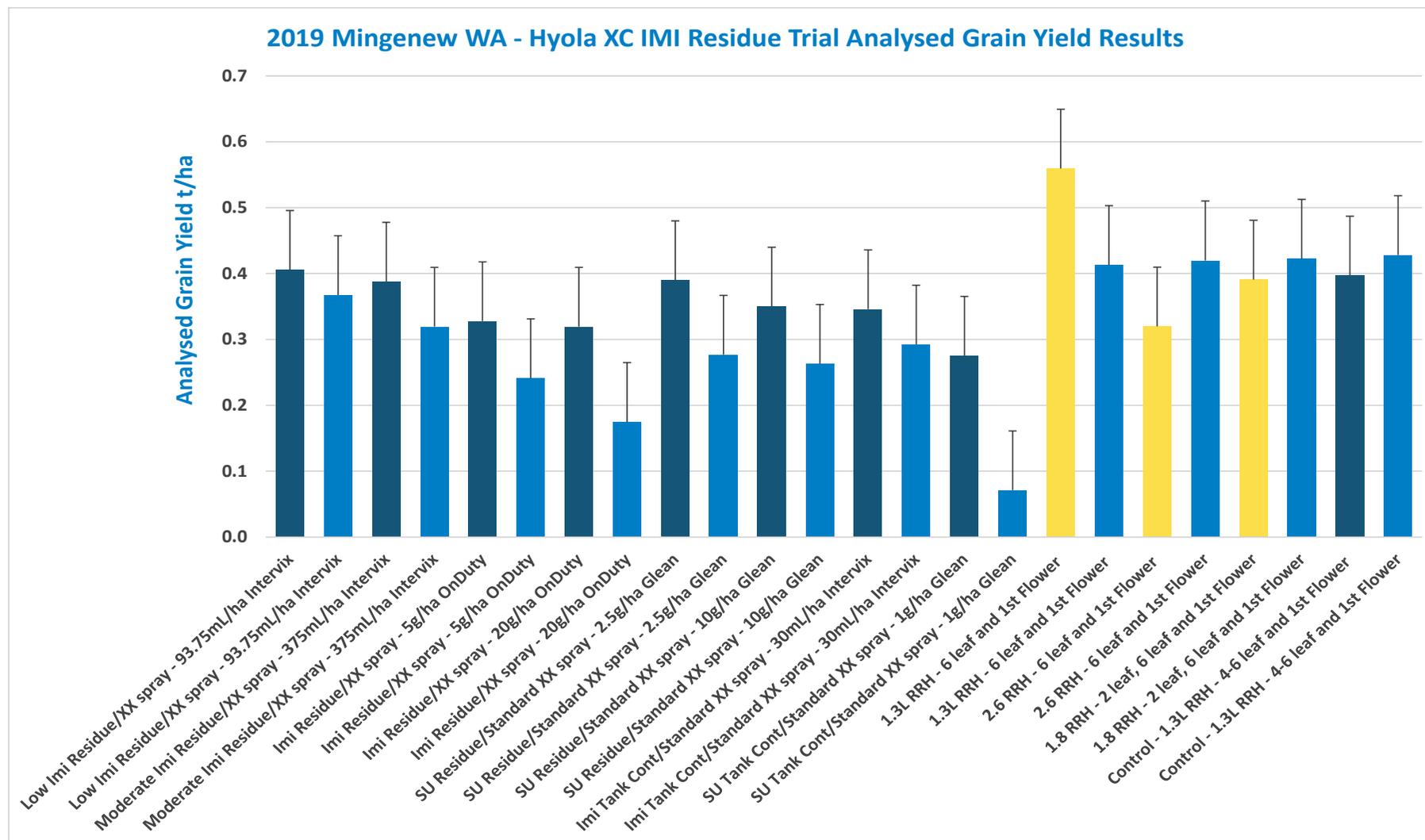


ANALYSED GRAIN YIELD T/HA

Visit www.pacificseeds.com.au for full report or [CLICK HERE](#)

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 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

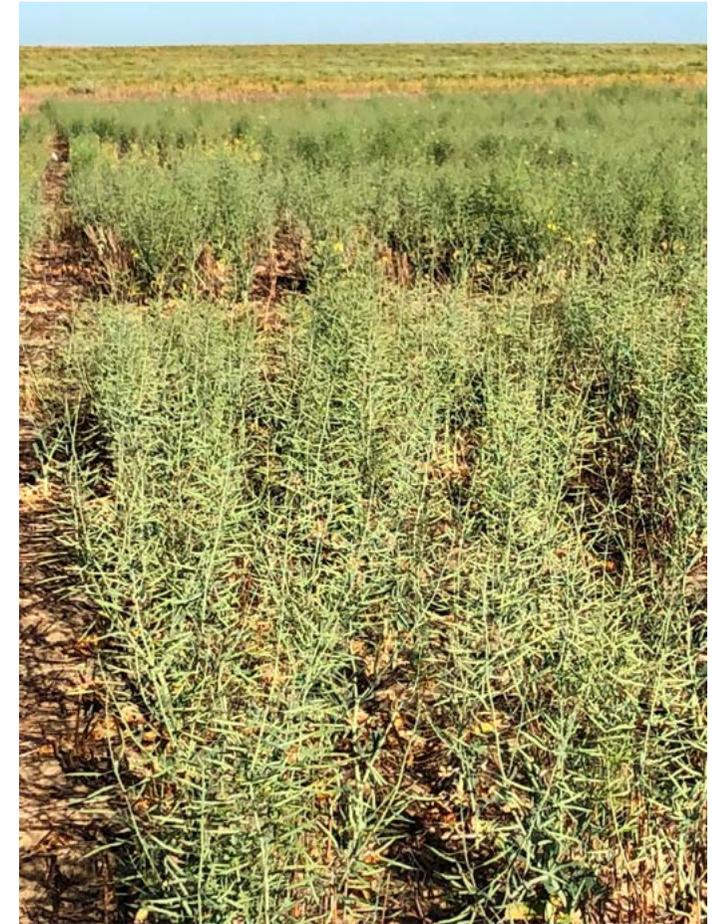
2019 Mingenew WA

Varied establishment effects were mainly due to variable establishment conditions and pH related IMI & SU movement into a zone 'well' below the roots of the young seedlings. The canola plants were impeded initially by very high impact rainfall events and then the droughted conditions and frosts didn't allow plants to find either water or IMI residue. 10g of Glean® has washed down (possibly only 20-25% left), and been broken down and the canola roots may not have found as significant quantities as expected with PSPE application.

Acid soils have led to faster Glean® breakdown where as not the case of IMI chemistry. Smears of IMI left in the profile minimised the damage effect expected. When the plants were older as the crop grew it was able to get into it but symptoms were very slow due to dry conditions and because there was more acid at depth, changes to the movement pattern of different chemistries would have occurred. Roots did make it into the chemical zone eventually and then damage occurred to varying levels.

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 technology has shown good resilience to Intervix® and OnDuty®, as well as the SU chemistry residue in this site. The XX TruFlex® technology had significantly lower yields with both the low and high rates of Glean® applied PSPE, despite the soil type, big initial rainfall events and lack of follow-up events.

Roundup Ready® technology significant yield decline effects are rate related with bigger rates at flowering explaining the yield differences, and also noted is an over-riding influence of Hyola® 404RR yielded the best due to genetic adaptation by maturity when the lowest rates of glyphosate were applied. The XX TruFlex® technology showed no significant decrease in yield, regardless of straight glyphosate rate and application timings.



RAINFALL DISTRIBUTION DETAILS

