

2022 Hyola innovation systems plant population agronomy trial results

Corrigin WA



Trial	22STAGVL6_COR
Location	Old Kulin Road, Corrigin
Sowing date	22 April 2022
Target populations (plants/m ²)	15, 25, 40
Previous crop rotations (2019, 2020, 2021)	Wheat, oats (hay), barley
GSR (mm) (nearest BOM)	413.8
Soil pH (H ₂ O / CaCl ₂)	6.4 / 5.8

This trial is 1 of 3 sites conducted across Western Australia's central wheatbelt in 2022. Consider multi environment trial (MET) results for an overall view but interpret single sites cautiously.

Environmental influence dominates yield determination at 77% (Table 1). Variety and population have an increasing influence on a single site basis, their impact will vary yearly and site-to-site.

ANALYSIS FACTOR	Trials - % variance accounted for by factor on yield			
	MET (overall)	Lake Hinds	Corrigin	Tammin
Environment (E)	77.41%			
Population (P)	0.38%	3.81%	11.24%	1.74%
E x P	0.0%			
Variety (V)	11.3%	86.35%	59.47%	49.04%
V x P	0.55%	9.85%	29.29%	49.22%
V x E	4.84%			
V x P x E	5.52%			

Table 1: MET analysis % variance for 3 Hyola systems population trials conducted at Lake Hinds, Tammin and Corrigin in 2022.

At the Corrigin site 2022, variety dictated 59% yield variance, while the population's effect was smaller (29% variation, Table 1), in contrast to the other sites. At Corrigin in 2022, optimising both variety and population was important, with priority on variety.

Prioritise selecting the right herbicide technology and maturity based on your rotation, since the highest yields and gross margins within each group show no significant differences (Table 2). Opt for target populations that enhance yield potential, weed competition, and safeguard against losses due to diseases, insects, or harsh soil conditions.

	Variety Technology Entry	Population Target Plants per m2	Mean Yield (t/ha) COR	Mean Oil %		Variety Technology Entry	Population Target Plants per m2	Gross Return (\$/ha) COR
CLEARFIELD TECHNOLOGY	44Y94	15	3.620	50.09	CLEARFIELD TECHNOLOGY	44Y94	15	\$3,291
	44Y94	25	3.116	50.16		44Y94	25	\$2,807
	44Y94	40	3.549	50.69		44Y94	40	\$3,188
	45Y95	15	3.445	48.55		45Y95	15	\$3,085
	45Y95	25	3.274	48.48		45Y95	25	\$2,905
	45Y95	40	3.266	48.94		45Y95	40	\$2,878
	Hyola Continuum CL	15	3.452	51.50		Hyola Continuum CL	15	\$3,178
	Hyola Continuum CL	25	3.415	51.64		Hyola Continuum CL	25	\$3,125
	Hyola Continuum CL	40	3.206	52.14		Hyola Continuum CL	40	\$2,910
	Hyola Solstice CL	15	3.581	51.37		Hyola Solstice CL	15	\$3,294
	Hyola Solstice CL	25	3.000	52.00		Hyola Solstice CL	25	\$2,747
	Hyola Solstice CL	40	2.761	52.09		Hyola Solstice CL	40	\$2,493
TRUFLEX OR TRUFLEX + CLEARFIELD TECHNOLOGY	Condor TF	15	3.358	52.84	TRUFLEX OR TRUFLEX + CLEARFIELD TECHNOLOGY	Condor TF	15	\$2,934
	Condor TF	25	3.636	53.17		Condor TF	25	\$3,162
	Condor TF	40	2.724	53.28		Condor TF	40	\$2,311
	InVigor R 4520P	15	2.700	50.01		InVigor R 4520P	15	\$2,289
	InVigor R 4520P	25	3.090	49.95		InVigor R 4520P	25	\$2,597
	InVigor R 4520P	40	3.255	49.58		InVigor R 4520P	40	\$2,687
	XC210034	15	2.893	51.08		XC210034	15	\$2,480
	XC210034	25	3.264	50.99		XC210034	25	\$2,773
	XC210034	40	3.725	51.68		XC210034	40	\$3,154
	Emu TF	15	3.000	49.56		Emu TF	15	\$2,538
	Emu TF	25	3.420	50.17		Emu TF	25	\$2,887
	Emu TF	40	2.737	50.83		Emu TF	40	\$2,269
TRIAZINE, CLEARFIELD + TRIAZINE OR LIBERTY + TRIAZINE TECHNOLOGY	Hyola Blazer TT	15	3.521	50.21	TRIAZINE, CLEARFIELD + TRIAZINE OR LIBERTY + TRIAZINE TECHNOLOGY	Hyola Blazer TT	15	\$3,204
	Hyola Blazer TT	25	3.151	50.64		Hyola Blazer TT	25	\$2,851
	Hyola Blazer TT	40	3.325	49.93		Hyola Blazer TT	40	\$2,959
	Hyola Defender CT	15	2.988	49.73		Hyola Defender CT	15	\$2,701
	Hyola Defender CT	25	3.099	50.11		Hyola Defender CT	25	\$2,790
	Hyola Defender CT	40	2.964	49.64		Hyola Defender CT	40	\$2,621
	Hyola Enforcer CT	15	2.646	49.48		Hyola Enforcer CT	15	\$2,382
	Hyola Enforcer CT	25	2.979	48.90		Hyola Enforcer CT	25	\$2,649
	Hyola Enforcer CT	40	2.603	50.48		Hyola Enforcer CT	40	\$2,309
	HyTTec Trident TT	15	2.899	49.64		HyTTec Trident TT	15	\$2,607
	HyTTec Trident TT	25	3.148	48.85		HyTTec Trident TT	25	\$2,794
	HyTTec Trident TT	40	2.610	48.36		HyTTec Trident TT	40	\$2,266
	HyTTec Trifecta TT	15	3.113	50.26		HyTTec Trifecta TT	15	\$2,818
	HyTTec Trifecta TT	25	2.689	50.95		HyTTec Trifecta TT	25	\$2,427
	HyTTec Trifecta TT	40	3.254	50.12		HyTTec Trifecta TT	40	\$2,894
	InVigor LT 4530P	15	2.964	48.05		InVigor LT 4530P	15	\$2,479
	InVigor LT 4530P	25	2.702	47.25		InVigor LT 4530P	25	\$2,217
	InVigor LT 4530P	40	2.730	48.71		InVigor LT 4530P	40	\$2,239
	ATR Bonito	15	2.309	49.79		ATR Bonito	15	\$2,084
	ATR Bonito	25	2.525	49.81		ATR Bonito	25	\$2,269
	ATR Bonito	40	2.517	50.26		ATR Bonito	40	\$2,253
	DG Bidgee	15	2.300	48.19		DG Bidgee	15	\$2,044
	DG Bidgee	25	3.120	47.48		DG Bidgee	25	\$2,750
	DG Bidgee	40	3.219	47.57		DG Bidgee	40	\$2,821
Mean Analysed Yield (t/ha) and Oil %			1.480	50.11	Mean Gross Return (\$/ha)			\$2,697
ASReml		CV%	4.3	0.917	Oil Bonification / Deduction		1.5% for every 1% Gross Price	
Statistical		AVSED	0.110404	0.38	Gross Price Assumption per MT		\$850 - nonGM & \$800 for GM	
Analysis		LSD (5%)	0.221983	0.926	Effective Sowing Rates		1.1kg/ha, 1.8kg/ha & 2.85kg/ha	

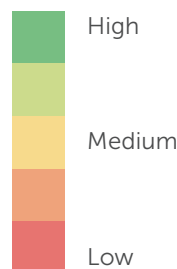


Table 2 : Single site results for Corrigin 2022 Hyola systems population trial, grain Yield, oil % and gross margin

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