

Trial	22STAGVL6_TMN
Location	Bolton Road, Tammin
Sowing date	26 April 2022
Target populations (plants/m2)	15, 25, 40
Previous crop rotations (2019, 2020, 2021)	Clover, wheat, wheat
GSR (mm) (nearest BOM)	264.2
Soil pH (H ₂ O / CaCl ₂)	6.0 / 5.2

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%	
ExP	0.0%				
Variety (V)	11.3%	86.35%	59.47%	49.04%	
VxP	0.55%	9.85%	29.29%	49.22%	
V x E	4.84%				
VxPxE	5.52%				

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



At the Tammin site 2022, variety dictated 49% yield variance, variety by population effect was equal at 49% (Table 1), in contrast to the other sites.

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) TMN	Mean Oil %
	44Y94	15	1.947	48.92
>	44Y94	25	1.848	48.98
CLEARFIELD TECHNOLOGY	44Y94	40	2.095 1.729	48.88
ğ	45Y95			47.65
동	45Y95 45Y95	45Y95 25		47.85 48.63
里		40	2.540	
ELD	Hyola Continuum CL Hyola Continuum CL	15 25	1.784 1.891	50.48 50.62
RF	Hyola Continuum CL	40	2.112	50.40
LEA	Hyola Solstice CL	15	2.115	50.18
O	Hyola Solstice CL	25	2.229	48.53
	Hyola Solstice CL	40	2.372	49.65
	,			
0	Condor TF	15	1.488	52.23
	Condor TF	25	2.181	51.38
RFI	Condor TF	40	2.320	51.13
TRUFLX OR TRUFLEX + CLEARFIELD TECHNOLOGY	InVigor R 4520P	15	1.949	49.38
TRUFLEX + C	InVigor R 4520P	25	1.695	48.58
E EX	InVigor R 4520P	40	1.535	48.74
E E	XC210034	1.723	51.27	
E 3	XC210034 25		1.999	50.07
P.	XC210034	40	2.113	49.65
5	Emu TF	15	1.674	49.68
I B	Emu TF	25	1.729	50.14
	Emu TF	40	2.112	48.67
≿	Hyola Blazer TT	15	1.744	49.54
Ö	Hyola Blazer TT	25	1.819	49.41
Ō	Hyola Blazer TT	40	2.062	50.17
동	Hyola Defender CT Hyola Defender CT	15 25	1.658 1.884	48.50 49.14
	Hyola Defender CT		2.095	49.14
N N	Hyola Enforcer CT	40 15	2.130	47.61
\ ₹	Hyola Enforcer CT	25	1.785	48.36
l ⊨ +	Hyola Enforcer CT	40	1.454	47.00
È	HyTTec Trident TT	15	1.615	47.83
BEF	HyTTec Trident TT	25	1.806	48.04
R	HyTTec Trident TT	40	1.981	48.26
EO	HyTTec Trifecta TT	15	2.147	49.29
Z	HyTTec Trifecta TT	25	2.059	47.77
Z Z	HyTTec Trifecta TT	40	1.770	47.81
	InVigor LT 4530P	15	1.810	46.71
吕	InVigor LT 4530P	25	1.957	47.99
SFIE	InVigor LT 4530P	40	1.988	48.25
CLEARFIELD + TRIAZINE OR LIBERTY + TRIAZINE TECHNOLOGY	ATR Bonito	15	1.135	49.25
	ATR Bonito	25	1.306	49.95
N.	ATR Bonito	40	1.516	49.05
TRIAZINE,	DG Bidgee	15	1.321	46.00
¥	DG Bidgee	25	1.434	45.43
	DG Bidgee	40	1.266	45.26
	Mean Analysed Yield		2.610	48.91
	ASReml	CV%	5.8	1.113
	Statistical	AVSED	0.106088	0.689
	Analysis	LSD (5%)	0.213304	1.109

	Variety Technology Entry	Population Target Plants per m2	Gross Return (\$/ha) TMN		
	44Y94	15	\$1,734		
>	44Y94	25	\$1,623		
50	44Y94	40	\$1,812		
ZOL	45Y95	15	\$1,517		
동	45Y95	25	\$1,988		
CLEARFIELD TECHNOLOGY	45Y95 Hyola Continuum CL	40	\$2,211		
ELD	Hyola Continuum CL	15 25	\$1,610 \$1,688		
RFI	Hyola Continuum CL	40	\$1,855		
LEA	Hyola Solstice CL	15	\$1,909		
0	Hyola Solstice CL	25	\$1,960		
	Hyola Solstice CL	40	\$2,080		
	•				
D	Condor TF	15	\$1,268		
팊	Condor TF	25	\$1,836		
ARF	Condor TF	40	\$1,912		
CLE	InVigor R 4520P	15	\$1,630		
+ X	InVigor R 4520P	25	\$1,373		
F.E.	InVigor R 4520P	40	\$1,197		High
TRUFLX OR TRUFLEX + CLEARFIELD TECHNOLOGY	XC210034 XC210034	15	\$1,463 \$1,656		
JR. T	XC210034 XC210034	25 40	\$1,706		
X	Emu TF	15	\$1,700		
J.	Emu TF	25	\$1,424		M = = :=
Ĕ	Emu TF	40	\$1,688		Medium
~	Hyola Blazer TT	15	\$1,559		
06	Hyola Blazer TT	25	\$1,602		
EARFIELD + TRIAZINE OR LIBERTY + TRIAZINE TECHNOLOGY	Hyola Blazer TT	40	\$1,805		Low
동	Hyola Defender CT	15	\$1,465		LOW
Ë	Hyola Defender CT	25	\$1,658		
I B	Hyola Defender CT Hyola Enforcer CT	40	\$1,821 \$1,877		
≅	Hyola Enforcer CT	15 25	\$1,556		
<u> </u>	Hyola Enforcer CT	40	\$1,206		
Τ̈́	HyTTec Trident TT	15	\$1,414		
IBEF	HyTTec Trident TT	25	\$1,569		
R L	HyTTec Trident TT	40	\$1,699		
E C	HyTTec Trifecta TT	15	\$1,916		
Z Z	HyTTec Trifecta TT	25	\$1,791		
<u> </u>	HyTTec Trifecta TT	40	\$1,503		
.+	InVigor LT 4530P	15	\$1,481		
亘	InVigor LT 4530P	25	\$1,601		
ARF	InVigor LT 4530P ATR Bonito	40 15	\$1,599 \$1,009		
CLE	ATR Bonito	25	\$1,160		
TRIAZINE, CL	ATR Bonito	40	\$1,321		
4ZIN	DG Bidgee	15	\$1,141		
TRI/	DG Bidgee	25	\$1,222		
,	DG Bidgee	40	\$1,054		
	Mean Gross Retu	ırn (\$/ha)	\$1,595		
	Oil Bonification / Deduction Gross Price Assumption per MT Effective Sowing Rates		1.5% for every	y 1% Gros	s Price
			\$850 - nonGM & \$800 for GM		
			1.1kg/ha, 1.8kg/ha & 2.85kg/ha		

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

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