

TRIAL RESULTS

2025

Hart variety trials



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2025 TRIAL RESULTS

Wheat varieties trial

Compiled: January 2025



Results have been analysed using a REML spatial model (Regular Grid) in Genstat 24th Edition.

Sowing date
May 23, 2025

Harvest date
November 28, 2025

Rainfall
GSR: 223 mm | Annual: 263 mm

Variety name	Grain yield (t/ha)
Tomahawk CL Plus ^b	2.05 ^k
Shotgun ^b	2.01 ^{jk}
19Q3H0499	1.87 ^{g-k}
Vixen ^b	1.87 ^{gl-k}
Mowhawk ^b	1.83 ^{fk}
IGW6955	1.81 ^{ej}
LRPB Matador ^b	1.79 ^{ej}
Brumby ^b	1.76 ^{dh}
19Q3H0393	1.74 ^{dh}
RockStar ^b	1.72 ^{dh}
Dale ^b (IGW6993)	1.72 ^{dh}

Variety name	Grain yield (t/ha)
Scepter ^b	1.71 ^{di}
Calibre ^b	1.71 ^{ci}
Boa ^b	1.67 ^{bi}
AGT-Banker ^b (AGTD173)	1.66 ^{ai}
Murray ^b (IGW6895)	1.66 ^{ah}
L20158-141-15	1.65 ^{ac-g}
Patron ^b	1.62 ^{af}
LPB21-34503	1.62 ^{af}
LRPB Dual ^b	1.61 ^{af}
AGT-Colt ^b (RAC3254)	1.61 ^{af}
Bitalli ^b	1.61 ^{ae}

Variety name	Grain yield (t/ha)
LRPB Major ^b	1.59 ^{a-e}
Packer ^b	1.57 ^{a-e}
Soaker ^b	1.57 ^{a-d}
AGT-Rio ^b (V15019-88)	1.55 ^{a-d}
LRPB Anvil ^b CL Plus	1.55 ^{a-d}
Dozer ^b CL Plus	1.53 ^{a-d}
Genie ^b	1.48 ^{abc}
Wallaroo ^b	1.46 ^{ab}
RGT Ponsford ^b	1.45 ^a
P Value (≤ 0.05)	0.001
Bonferroni CD*	0.23

*Bonferroni Critical Difference Value

Any difference between two means > 0.23 t/ha is significant at $\alpha = 0.05$ after Bonferroni correction at the family 5% significance level. Bonferroni critical difference value is based on the average SED.

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2025 TRIAL RESULTS

Barley varieties trial

Compiled: January 2025



Results have been analysed using a REML spatial model (Regular Grid) in Genstat 24th Edition.

Sowing date
May 23, 2025

Harvest date
November 7, 2025

Rainfall
GSR: 223 mm | Annual: 263 mm

Variety name	Grain yield (t/ha)
Beast	2.92 ^h
Combat	2.82 ^h
Rocket CL (IGB22023T)	2.81 ^{gh}
AGT Bunyip IA (AGTB0530)	2.80 ^{gh}
Laperouse	2.80 ^{gh}
Compass	2.79 ^{gh}
Granite	2.75 ^{gh}
Maximus CL	2.72 ^{gh}
Bigfoot CL	2.68 ^{gh}

Variety name	Grain yield (t/ha)
Cyclops	2.59 ^{fgh}
SCA25-Y006 (19Y027S-003)	2.53 ^{fgh}
Titan AX	2.52 ^{fgh}
Spartacus CL	2.51 ^{fgh}
Commodus CL	2.51 ^{e-h}
Minotaur	2.41 ^{d-h}
PegasusAX	2.27 ^{c-g}
Spinnaker	2.08 ^{b-f}
Neo	1.92 ^{a-e}

Variety name	Grain yield (t/ha)
RGT Planet	1.86 ^{a-d}
RGT-RP19034	1.70 ^{a-c}
RGT-RP21011	1.68 ^{ab}
RGT Atlantis (RP22054)	1.49 ^a
RGT Asteroid (RP14033)	1.44 ^a
P Value (≤ 0.05)	0.001
Bonferroni CD*	0.55

*Bonferroni Critical Difference Value

Any difference between two means > 0.55 t/ha is significant at $\alpha = 0.05$ after Bonferroni correction at the family 5% significance level. Bonferroni critical difference value is based on the average SED.

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2025 TRIAL RESULTS

Lentil varieties trial

Compiled: January 2025



Results have been analysed using a REML spatial model (Regular Grid) in Genstat 24th Edition.

Sowing date
June 20, 2025

Harvest date
November 5, 2025

Rainfall
GSR: 223 mm | Annual: 263 mm

Variety name	Grain yield (t/ha)
PBA Highland XT ^{ab}	1.59 ^d
PBA Hallmark XT ^{ab}	1.31 ^{cd}
GIA Thunder ^{ab}	1.29 ^{bcd}
GIA Lightning ^{ab}	1.05 ^{abc}
GIA Colombo ^{ab} (GIA2301L)	1.04 ^{abc}
PBA Jumbo2 ^{ab}	1.04 ^{abc}
ALB Terrier ^{ab}	1.00 ^{abc}

Variety name	Grain yield (t/ha)
ALB2422	0.94 ^{abc}
ALB2424	0.91 ^{abc}
ALB Dane ^{ab} (ALB2321)	0.80 ^{ab}
GIA Sire ^{ab}	0.64 ^a
GIA Metro ^{ab}	0.63 ^a
P Value (≤ 0.05)	<0.001
Bonferroni CD*	0.52

*Bonferroni Critical Difference Value

Any difference between two means > 0.52 t/ha is significant at $\alpha = 0.05$ after Bonferroni correction at the family 5% significance level. Bonferroni critical difference value is based on the average SED.

Lentil yields were variable across the 2025 trial site due to the combined effect of soil constraints, pre-emergent herbicide damage and dry conditions. The residual standard deviation (residual SD), representing unexplained variation between plots, was 0.34 t/ha. This should be considered when interpreting grain yield results provided.

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2025 TRIAL RESULTS

Field pea varieties trial

Compiled: January 2025



Results have been analysed using a REML spatial model (Regular Grid) in Genstat 24th Edition.

Sowing date
June 20, 2025

Harvest date
November 5, 2025

Rainfall
GSR: 223 mm | Annual: 263 mm

Variety name	Grain yield (t/ha)
APB2403	1.28
PBA Pearl	1.24
APB Bondi	1.16
Kaspa	1.11
APB2401	1.07
PBA Wharton	1.06
PBA Taylor	1.06
GIA2203P	1.05

Variety name	Grain yield (t/ha)
PBA Butler	1.05
APB2501	1.03
GIA Ourstar	1.03
GIA Kastar	0.99
PBA Oura	0.97
PBA Gunyah	0.97
P Value (≤ 0.05)	NS

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