

TRIAL RESULTS

2025

Hart variety trials

sneak peek



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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 ^{gi-k}
Mowhawk ^(b)	1.83 ^{f-k}
IGW6955	1.81 ^{e-j}
LRPB Matador ^(b)	1.79 ^{e-j}
Brumby ^(b)	1.76 ^{d-i}
19Q3H0393	1.74 ^{d-i}
RockStar ^(b)	1.72 ^{d-i}
Dale ^(b) (IGW6993)	1.72 ^{d-i}

Variety name	Grain yield (t/ha)
Scepter ^(b)	1.71 ^{d-i}
Calibre ^(b)	1.71 ^{c-i}
Boa ^(b)	1.67 ^{b-i}
AGT-Banker ^(b) (AGTD173)	1.66 ^{a-i}
Murray ^(b) (IGW6895)	1.66 ^{a-h}
L20158-141-15	1.65 ^{ac-g}
Patron ^(b)	1.62 ^{a-f}
LPB21-34503	1.62 ^{a-f}
LRPB Dual ^(b)	1.61 ^{a-f}
AGT-Colt ^(b) (RAC3254)	1.61 ^{a-f}
Bitalli ^(b)	1.61 ^{a-e}

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 ^(b)	2.92 ^h
Combat ^(b)	2.82 ^h
Rocket ^(b) CL (IGB22023T)	2.81 ^{gh}
AGT Bunyip IA ^(b) (AGTB0530)	2.80 ^{gh}
Laperouse ^(b)	2.80 ^{gh}
Compass ^(b)	2.79 ^{gh}
Granite ^(b)	2.75 ^{gh}
Maximus ^(b) CL	2.72 ^{gh}
Bigfoot ^(b) CL	2.68 ^{gh}

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

Variety name	Grain yield (t/ha)
RGT Planet ^(b)	1.86 ^{a-d}
RGT-RP19034	1.70 ^{a-c}
RGT-RP21011	1.68 ^{ab}
RGT Atlantis ^(b) (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 [Ⓢ]	1.59 ^d
PBA Hallmark XT [Ⓢ]	1.31 ^{cd}
GIA Thunder [Ⓢ]	1.29 ^{bcd}
GIA Lightning [Ⓢ]	1.05 ^{abc}
GIA Colombo [Ⓢ] (GIA2301L)	1.04 ^{abc}
PBA Jumbo2 [Ⓢ]	1.04 ^{abc}
ALB Terrier [Ⓢ]	1.00 ^{abc}

Variety name	Grain yield (t/ha)
ALB2422	0.94 ^{abc}
ALB2424	0.91 ^{abc}
ALB Dane [Ⓢ] (ALB2321)	0.80 ^{ab}
GIA Sire [Ⓢ]	0.64 ^a
GIA Metro [Ⓢ]	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⁾	1.16
Kaspa	1.11
APB2401	1.07
PBA Wharton ⁽¹⁾	1.06
PBA Taylor ⁽¹⁾	1.06
GIA2203P	1.05

Variety name	Grain yield (t/ha)
PBA Butler ⁽¹⁾	1.05
APB2501	1.03
GIA Ourstar ⁽¹⁾	1.03
GIA Kastar ⁽¹⁾	0.99
PBA Oura ⁽¹⁾	0.97
PBA Gonyah ⁽¹⁾	0.97
P Value (≤ 0.05)	NS

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