GRDC
GRAINS RESEARCH & DEVELOPMENT CORPORATION

# 2023 QUARANTINE REPORT

GRDC NATIONAL VARIETY TRIALS™

## QUEENSLAND

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# Contents

# Important information for quarantined trials

To ensure the NVT results remain robust, relevant and of the highest quality, it is agreed policy to exclude trials that have been compromised by events that affect the accuracy of the results from being reported at the single site level. The damage caused by frost, wind, hail, drought and other events is random, uncontrollable, unpredictable and extremely variable in both timing and severity of the damage caused. Therefore, variety tolerances to frost and many other random climatic events cannot be measured or gauged in field-based NVT.

When uncontrolled events occur that are not uniform in their impact, the results are skewed and no longer representative of varietal performance. In these scenarios, the results are quarantined to avoid skewing the overall NVT results.

## **WARNING**

Results presented within this report provide growers with a transparent account of NVT trials that were severely compromised by various factors rendering them unsuitable for inclusion in reporting. These trials were harvested, but the results were deemed of no value for the purposes of head-to-head variety comparison and should not be used for any variety selection decisions.

Replication of these results is strictly prohibited, and ANY parties MUST NOT use them for producing variety brochures and marketing material, sowing guides, grower notes or ANY OTHER publication or communication activity.

Cover: NVT Barley.

Photo: Ben O'Connor NVT Systems Manager

# Quarantined trials list

**Table 1: 2023 Queensland quarantined trials.**

| Site description | Crop | Trial code | Sowing date | Harvest date | Mean yield | CV value | P value | F value |
|---|---|---|---|---|---|---|---|---|
| **Emerald** | Chickpea | DMDA23EMER4 | 18-May | 3-Oct | 2.81 | 6.24 | 0.28 | 1.45 |
| **Billa Billa** | Faba Bean | FMaA23BILB4 | 25-Apr | 7-Oct | 1.38 | 31.76 | 0.85 | 0.57 |

Values listed in red are outside the acceptable range: CV ≥15%, P value ≥0.2 and F value ≤1.0.

# 2023 quarantine report Queensland chickpea.

| Table 2: Desi chickpea trial yield data. | | |
|---|---|---|
| **Region** | **CQ** | |
| **Locality** | **Emerald** | |
| **Trial ID** | **DMDA23EMER4** | |
| **Variety name** | **tonnes/ha** | **% site mean** |
| **PBA Drummond** | 2.81 | 100 |
| **PBA HatTrick** | 2.75 | 98 |
| **PBA Pistol** | 2.84 | 101 |
| **PBA Seamer** | 2.79 | 99 |
| | | |
| **Site Mean (t/ha)** | 2.81 | 100 |
| **CV (%)** | 6.24 | |
| **Probability** | 0.28 | |
| **LSD (t/ha)** | 0.28 | |
| | | |
| **Sowing Date** | 18-May-2023 | |
| | | |
| **Trial Comments** | NOTE: Trial has a high P value (0.28) indicating low significance of variety effect. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions. | |

# 2023 quarantine report Queensland faba bean.

| Table 3: Faba bean trial yield data. | | |
|---|---|---|
| **Region** | **SWQ** | |
| **Locality** | **Billa Billa** | |
| **Trial ID** | **FMaA23BILB4** | |
| **Variety name** | **tonnes/ha** | **% site mean** |
| **Cairo** | 1.27 | 92 |
| **Doza** | 1.09 | 79 |
| **FBA Ayla** | 1.46 | 105 |
| **PBA Nanu** | 1.41 | 102 |
| **PBA Nasma** | 1.31 | 95 |
| **PBA Warda** | 1.26 | 91 |
| | | |
| **Site Mean (t/ha)** | 1.38 | 100 |
| **CV (%)** | 31.76 | |
| **Probability** | 0.85 | |
| **LSD (t/ha)** | 0.86 | |
| | | |
| **Sowing Date** | 25-Apr-2023 | |
| | | |
| **Trial Comments** | WARNING: This trial displayed an extreme degree of variability as indicated by the high CV of 31.2 % and p-value of 0.8 indicating low significance of variety effect. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions. | |