

CBA Captain[®] (tested as CICA1521)

Agzone 4 WA

March 2022, prepared by NSW DPI

- CBA Captain[®] is a broadly adapted desi chickpea variety with an erect plant type (like Genesis™836).
- CBA Captain[®] has a good height to lowest pod and good lodging resistance. These attributes combined provide excellent harvestability – far superior than PBA Slasher[®] and PBA Striker[®].
- CBA Captain[®] is mid flowering and early to mid-maturing in WA growing environments.
- CBA Captain[®] has been evaluated in WA NVT testing since 2017. CBA Captain[®] has consistent long-term yield gains over Genesis™836 in all Agzones and similar or higher yields than PBA Striker[®] in Agzone 4 (Table 1). Please see <https://app.nvtonline.com.au> for location specific yield data.

Table 1. Long term yield (2017-2021) of CBA Captain[®] and current chickpea varieties, expressed as a % of the mean yield, in NVT in Agzone 4.

| GRDC NATIONAL VARIETY TRIALS™ | | Yield t/ha | | | | |
|--|------------|------------|------|------|------|------|
| | | 2017 | 2018 | 2019 | 2020 | 2021 |
| | Mean Yield | 0.55 | 1.32 | 0.84 | 1.25 | 1.24 |
| Variety | Trials | 2 | 2 | 2 | 2 | 2 |
| CBA Captain | 10 | 127 | 99 | 113 | 117 | 102 |
| PBA Striker | 10 | 112 | 101 | 107 | 110 | 105 |
| Neelam | 10 | 117 | 102 | 101 | 105 | 102 |
| PBA Slasher | 10 | 112 | 103 | 104 | 103 | 101 |
| Genesis 836 | 10 | 103 | 100 | 96 | 94 | 93 |

Source: <https://app.nvt.grdc.com.au/lty/table/chickpea-desi/wa/agzone4/>

Disease resistance

- CBA Captain[®] has an NVT pulse disease rating for Ascochyta blight of Moderately Susceptible (MS) in the northern region and Moderately Susceptible Provisional (MSp) in the southern region.
- In WA, Ascochyta Blight evaluation has been performed by the Centre for Crop and Disease Management (CCDM) Curtin University, where CBA Captain performed similarly to Genesis™090 with lower disease observed than for Genesis™836, PBA Striker and PBA Slasher.
- Each year, the CCDM program collects and tests Ascochyta samples from WA growing regions. A small proportion of fungal isolates collected from 2019 to 2021 have elevated levels of aggressiveness, but CBA Captain remains the most resistant variety tested.

Citation: Dr. Robert Lee, Pulse Pathology and Genetics, Centre for Crop and Disease Management, March 2022.

- CBA Captain[®] has an NVT pulse disease rating for Botrytis grey mould of Susceptible, the same as all other current chickpea varieties.

Grain quality

CBA Captain[®] has a medium seed size with a yellow-brown seed coat and angular seed shape, similar to PBA HatTrick (widely grown desi in NNSW, QLD)

Chickpea Agronomy

Please refer to the following DPIRD chickpea guides;

<https://www.agric.wa.gov.au/chickpeas/desi-chickpea-essentials>

https://www.agric.wa.gov.au/sites/gateway/files/2021%20WA%20Crop%20Sowing%20Guide_Pulse%20Guide%20%28pgs%20134_186%29.pdf

Seed availability

- CBA Captain[®] has an end point royalty of \$4.50/tonne (ex-GST).



08 9651 1069



08 9045 4036

- *CBA Captain[®] was developed by the PBA Chickpea program (led by NSW Department of Primary Industries). The partners of the PBA Chickpea program were: GRDC, NSW DPI, Department of Agriculture and Fisheries (QLD), Agriculture Victoria and the South Australian Research and Development Institute.*