

CBA Captain[®] (tested as CICA1521)

Agzone 2 WA

September 2021, 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 consistently yields above the site mean yield in Agzone 2 (Table 1). Please see <https://app.nvtonline.com.au> for location specific yield data.

Table 1. Long term yield (2017-2020) of CBA Captain[®] and current chickpea varieties, expressed as a % of the mean yield, in NVT in Agzone 2.

| GRDC NATIONAL VARIETY TRIALS™ | | Yield (t/ha) | | | |
|--------------------------------|-------------------|--------------|------|------|------|
| | | 2017 | 2018 | 2019 | 2020 |
| | Mean Yield (t/ha) | 1.00 | 0.59 | 0.39 | 0.79 |
| Variety | Trials | 1 | 1 | 1 | 2 |
| CBA Captain[®] | 5 | 107 | 107 | 101 | 113 |
| PBA Striker [®] | 5 | 108 | 96 | 116 | 108 |
| Neelam [®] | 5 | 100 | 104 | 113 | 94 |
| PBA Slasher [®] | 5 | 101 | 95 | 125 | 96 |
| Genesis 836 | 5 | 95 | 102 | 97 | 94 |

<https://app.nvt.grdc.com.au/lty/table/chickpea-desi/wa/agzone2/>

Disease resistance

- CBA Captain[®] has an NVT pulse disease rating for Ascochyta blight of Moderately Susceptible in the northern and southern region.
- In WA Ascochyta blight evaluation has been performed by Curtin University, where CBA Captain performed similarly to Genesis™090 with lower disease observed than Genesis™836, PBA Striker and PBA Slasher.
- "In field trials at DPIRD, South Perth in 2019 and 2020, CBA Captain (CICA1521) showed no significant differences in ascochyta resistance to varieties Genesis 090, Genesis 836, Kalkee, PBA HatTrick and PBA Striker. In 2019, CBA Captain was significantly more resistant than varieties Jimbour, Kyabra, Moti and PBA Howzat, when inoculated with a mix of Western Australian AB isolates. In 2020, the disease severity overall was less than for 2019 and differences among varieties were less well defined, although disease for CBA Captain was still significantly lower than for the susceptible variety, Kyabra"

“ It is important for WA Growers to know that aggressive *Ascochyta rabiei* isolates (equivalent to the aggressive isolates found in Eastern Australia) are routinely found in WA and that all standard practices for chickpea ascochyta blight management should be adopted.”

Citation: Dr. Robert Lee, Pulse Pathology and Genetics, Centre for Crop and Disease Management, August 2021.

- 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 NSW, 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.