



**SOUTH DAKOTA
STATE UNIVERSITY**
*College of Agriculture, Food
and Environmental Sciences*

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Chickpea Variety Trial Results Sturgis

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Western trial locations: Sturgis

Cultural Practices:

Planting Rate: 130,000 viable seeds/ac
Inoculation: N-Charge granular inoculant
Herbicide: Select EC

Acknowledgements: Thanks to the South Dakota Pulse Council for funding these trials

Individual trial location results can be accessed online at: <https://extension.sdstate.edu/tags/field-pea>



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Table 1. List of field pea varieties tested in 2021 along with seed supplier and agronomic characteristics.

Variety	Originator	Market Type	Seeds/lb	Germination (%)
CDC Frontier	Crop Development Centre	Small Kabuli	1280	88
CDC Leader	Crop Development Centre	Large Kabuli	1226	95
CDC Orion	Crop Development Centre	Large Kabuli	1094	87
CDC Palmer	Crop Development Centre	Large Kabuli	1096	88
New Hope	UNL / USDA	Large Kabuli	1130	92



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Table 2. 2021 Chickpea variety performance trial results in Sturgis, South Dakota.

Variety	2021	
	Yield (lb/a)	Protein (%)
CDC Frontier	826	25.9
CDC Leader	987	25.0
CDC Orion	994	26.0
CDC Palmer	854	26.7
New Hope	993	26.6
Average	931	26.0
LSD†	256	1.0
CV‡	17	2

† Value required (\geq LSD) to determine if varieties are significantly different from one another.
‡ C.V. is a measure of variability or experimental error, above 15% is considered high variability