

Technical Bulletin

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Canada's Seed Partner

CDC Jasper Forage Pea



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Jasper is a forage pea variety with a small seed size and high biomass production. CDC Jasper was tested for four years in the Pea Forage Elite Trials (2012-2015) and had the highest biomass production in these trials and was 105% of 40-10.

Parentage:

Strengths:

- 105% higher dry biomass yield compared to the check 40-10
- Better lodging resistance than the checks
- 133% higher grain yield compared to 40-10

- Improved lodging tolerance compared to 40-10

Neutral Traits:

- Larger seed size (175g) compared to the check 40-10 (128g)
- Shorter than the check 40-10

Breeder:

Funded by:



UNIVERSITY OF SASKATCHEWAN

Crop Development Centre

COLLEGE OF AGRICULTURE AND BIORESOURCES
AGBIO.USASK.CA



Table 1: Agronomic performance for CDC Jasper from 2012 to 2015 Pea Silage Elite Trials (10 site years) - Crop Development Centre, University of Saskatchewan

Variety	Year released	Yield % of 40-10		Height	Lodging	Maturity (1-3)	Seed Weight (g/1000)	Description
		Grain Yield	Dry Matter					
40-10 (check)	n/a	100	100	133	7.8	3	128	Small seed size and tall. Fully leaved variety with speckled seed coat. Poor lodging.
CDC Tucker	2006	140	98	92	4	2.5	158	High biomass; improved protein and relative feed value compared to Trapper and 40-10
CDC Leroy	2008	124	89	84	5.2	1.8	132	High biomass; improved protein and relative feed value compared to Trapper and 40-10
CDC Horizon	2010	130	100	97	3.8	2.3	142	High biomass with similar feed value to Trapper and 40-10
CDC Jasper	2016	133	105	98	3.9	2.5	175	Highest biomass combined with high grain yield and high relative feed value

For more information, call 1-800-665-7333 or visit www.secan.com

2020 SaskSeed Guide

Variety	Years Tested	Yield (% of CDC Amarillo)			Protein	Relative Maturity	Lodging ¹	Vine Length (cm)	Resistance to:						Seed Weight (g/1000)
		1, 2 & South 3	North 3 & 4	Irrigation					MB ²	Powdery Mildew	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling ³	Greenness ⁴	
CDC Horizon	4	88	78	63	2.2	M	4.0	100	4.5	R	---	G	G	G	170
CDC Jasper	4	80	81	--	2.0	M	4.5	105	4.5	R	---	G	G	G	180

1 Lodging: 1= completely upright; 9= completely lodging

2 Mycosphaerella Blight score (1-9) 1= no disease, 9= completely blighted

3 Seed coat dimpling: VG= 0-5%, G= 6-20%, F= 21-50%

4 Green seed coats: G= 0-15%, F= 16-40%

Resistance: P= Poor, F= Fair, G= good, VG= Very Good R= Resistant

Maturity: E= Early, M= Medium, L= Late