



CDC Jasper Variety Description

May, 2023

Market Class: Field Pea

Year Released to Select Seed Growers: 2016

Sub-licensed Outside of SK: SeCan

International Distribution Rights: Canterra Seeds Ltd./Meridian Seeds

Breeder: Dr. Tom Warkentin, Crop Development Centre, University of Saskatchewan, Saskatoon, SK

Plant Breeders Rights:



Description

CDC Jasper is a forage field pea variety with high biomass production. In four years of testing in the pea forage elite trials (2012–2015), CDC Jasper had the highest biomass versus other forage pea varieties commonly grown in Western Canada. Dry matter was 105% of the forage pea check variety 40-10 (Table 1). Relative to other forage pea varieties, CDC Jasper had high grain yield, good lodging resistance, and larger seed size (Tables 1 & 2). In the co-op and regional trials in Saskatchewan, CDC Jasper had high protein relative to the check variety CDC Amarillo. CDC Jasper has PBR'91 protection.

Strengths

- High biomass
- High grain yield versus other forage pea varieties
- High protein versus CDC Amarillo
- Resistant to powdery mildew
- Very good resistance to seed coat breakage

Neutral

- Medium maturity
- Good lodging resistance
- Fair resistance to Mycosphaerella Blight

Table 1: Agronomic Performance for CDC Jasper from 2012 to 2015 Pea Silage Elite Trials (10 site years)

VARIETY	YEAR RELEASED	YIELD % Of 40 – 10		HEIGHT	LODGING (1-9)*	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.
AAC 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.

Source: CDC Pulse Breeding Group, U of S

*Lodging score: 1 = Upright; 9 = Completely lodged

Table 2: Agronomic Performance for CDC Jasper from Co-op and Regional Trials in Saskatchewan

VARIETY	YEAR REGISTERED	YEARS TESTED	YIELD % AMARILLO		MATURITY	LODGING (1-9)**	VINE LENGTH (CM)	RESISTANCE TO:				SEED WEIGHT (G/1000)	PROTEIN VS. CDC AMARILLO
			1, 2, & SOUTH 3*	NORTH3 & 4*				MYCOSPHAERELLA BLIGHT***	POWDERLY MILDEW	SEED COAT BREAKAGE	SEED COAT DIMPLING****		
CDC AMARILLO (CHECK)	2012	10	100	100	MEDIUM	3.5	85	4.5	R	FAIR	FAIR	230	23.0
40 – 10	n/a	3	68	65	MEDIUM	8.5	130	4.5	S	GOOD	GOOD	140	+3.2
CDC JASPER	2016	3	81	82	MEDIUM	4.5	105	4.5	R	GOOD	GOOD	180	+2.0
CDC HORIZON	2010	4	88	78	MEDIUM	4.5	100	4.5	R	GOOD	GOOD	170	+2.2

Source: Varieties of Grain Crops ([SaskSeed Guide](#))

*Area 1: Brown soil zone; Area 2: Dark brown; Area 3: Black; Area 4: Dark grey

**Lodging score: 1 = Upright; 9 = Completely lodged

***Mycosphaerella blight score: 1 = No disease, 9 = Completely blighted

****Seed coat dimpling: Very Good = 0-5%; Good = 6-20%; Fair = 21-50%



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