

# CDC JASPER

Forage Pea



#### YEAR RELEASE TO SELECT SEED GROWERS

2016

#### SUB-LICENSED OUTSIDE OF SK

SeCan

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## 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**

Adapted from Varieties of Grain Crops 2019

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*	NORTH 3 & 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 2019 (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%