

CROP DEVELOPMENT CENTRE

BREEDING INSTITUTION: Crop Development Centre, 51 Campus Drive
University of Saskatchewan
Saskatoon, Saskatchewan S7N 5A8

PLANT BREEDER: Dr. Tom Warkentin | tom.warkentin@usask.ca

DATE: March 1, 2025

SUBJECT: **CDC 6354-9 | FORAGE PEA**

Strengths:

- greater biomass yield than the checks
- greater seed yield than the checks
- better lodging resistance than DL Lacross
- powdery mildew resistance
- relatively small seed size to keep seed costs reasonable

Neutral:

- medium-tall plant height, similar to the checks
- medium maturity, similar to the checks
- moderate Mycosphaerella blight resistance, similar to the checks

Figure 1.

PSEYT 2022 -2024										
Locations	4	4	5	5	6	4	4	4	3	4
Variety	DM yield (t/ha)	DM yield (%)	Grain yield (t/ha)	Grain yield (%)	Seed weight (g/10000 seeds)	Ht (cm)	Mat (1-3)	Lodging (1-9)	Myco (0-9)	PM
DL Lacross	7.0	100	2.3	100	179	90	1.3	6.5	3.8	R
CDC Sonata	6.5	94	2.2	98	217	83	1.8	7.3	3.9	R
CDC Jasper	7.4	105	2.4	106	193	81	1.8	3.8	3.6	R
CDC 6354-9	8.6	124	3.1	138	195	84	1.8	3.4	3.4	R
Graand Mean	7.4		2.5		196	85	1.7	5.2	3.7	
LSD	0.8		0.2		18.9	5.1	0.3	0.4	0.4	
CV	15.7		12.0		7.7	8.5	28.0	12.2	14.2	

PSEYT 2021

Locations	2	2	2	2	2	2	2	2	2
Variety	DM yield (t/ha)	DM yield (%)	Grain yield (t/ha)	Grain yield (%)	Seed weight (g/10000 seeds)	Ht (cm)	Mat (1-3)	Lodging (1-9)	PM
40-10	6.2	100	1.7	100	162	67	2.3	4.4	
CDC Horizon	5.1	83	1.8	105	158	64	2.3	3.1	R
CDC Jasper	5.3	86	1.9	107	165	78	2.5	6.8	R
CDC Sonata	6.2	101	1.9	109	220	60	2.3	2.9	R
CDC 6354-9	6.1	98	2.0	112	168	61	2.5	3.1	R
Grand Mean	5.8		1.9		175	66	2.4	4.1	
LSD	1.0		0.1		14.7	9.1	0.5	1.6	
CV	17.1		7.9		3.7	14.1	23.0	45.3	

DM; dry matter biomass, sampled when CDC Sonata had thick pods on first two flowering nodes

Ht; plant height (aka vine length)

Mat; maturity rating where 1=early to 3=late

Lodging; lodging score where 1=upright to 9=completely lodged

Myco; Mycosphaerella blight 0 = no disease; 9 = whole plant severely blighted.

PM; powdery mildew reaction where R=resistant, S=susceptible

The CDC has approximately 60 kg of breeder seed available for the successful proponent.