

## MEMORANDUM

**TO:** *Prairie Recommending Committee for Pulse and Special Crops*  
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**DATE:** February 06, 2026

**SUBJECT: Request for Support for Registration of French Green Lentil Line CDC23.10S**

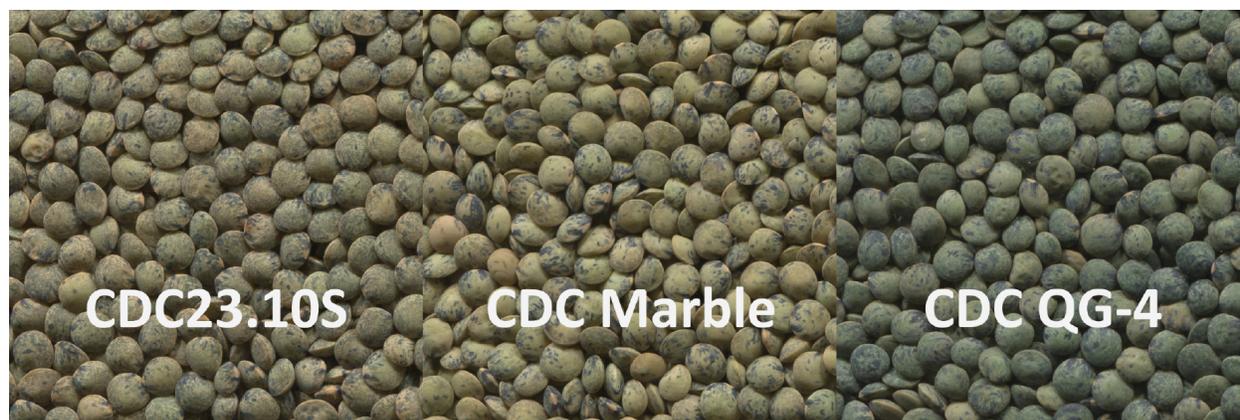
Lentil line CDC23.10S was tested for three years in the Specialty Market Lentil Trials from 2023-2025. Agronomic and disease performance data summaries in those trials are included in accompanying Tables 1, 2, and 3. CDC23.10S is tolerant to imidazolinone herbicides. Table 1 (12 site years) indicates the yield of CDC23.10S was 153% of CDC Marble and 127% of CDC QG-4 the French Green market class checks. Cotyledon colour and plant height were similar to CDC Marble, while flowering time, maturity, and plant height were similar to CDC QG-4. Seed thickness is similar to that of CDC Marble and greater than that of CDC QG-4, providing efficiencies in de-hulling and reducing mechanical damage during handling.

**Strengths:** Higher yield compared to CDC Marble and CDC QG-4  
Tolerant to imidazolinone herbicide.

**Neutral:** Similar agronomic characteristics compared to CDC Marble and CDC QG-4  
Similar seed thickness compared to CDC Marble and CDC QG-4  
Similar disease resistance compared to CDC Marble and CDC QG-4

**Weakness:** None noticed during testing

**Figure 1.** Visual comparison of the seeds of CDC23.10S, CDC Marble, and CDC QG-4



**Table 1. Three year summary of agronomic performance for entries in the 2023-2025 Specialty Market Class Lentil Trial**

Market class	Line	Cotyledon Colour	kg/ha	Yield			Seed weight (g/1000)	Days to flower	Days to mature	Lodging* (1-5)	Plant height (cm)	% Seed over									
				% of Nimble	% of Marble	% of QG-4						Round Hole (64th inch)									
				6.8mm >17/64	6.4mm >16/64	6.0mm >15/64						5.6mm >14/64	5.2mm >13/64	4.8mm >12/64	4.4mm >11/64	4.0mm >10/64	3.6mm >9/64	2.6mm >6.5/64			
SR	CDC Nimble	red	2250	100	142	118	35	53	91	1.7	40	0	0	0	1	9	36	37	13	4	27
FG	CDC Marble	yellow	1619	71	100	83	28	57	96	2.5	40	0	0	0	2	22	39	27	10	4	4
FG/GC	CDC QG-4	green	1930	85	120	100	30	54	94	1.6	41	0	0	0	1	18	41	30	9	2	2
FG	CDC23.10S	yellow	2420	108	153	127	34	55	93	1.5	42	0	0	0	5	31	42	18	4	4	4
Mean			2055	91	129	107	32	55	94	1.8	41										

[ ] indicates number of sites

Market Classes: SR-small red; FG-french green; FG/GC-french green green cotyledon

\*Lodging: no lodging notes taken in 2023 data shown from 2024-2025 season only

**Table 2. Ascochyta blight disease data for CDC23.10S in the 2023-2025 Specialty Market class lentil trial**

Market Class	Line	Ascochyta blight (%)							
		2023		2024		2025			
		Mean (%)	Significance*	Mean (%)	Significance*	Mean (%)	Significance*		
SR	CDC Maxim	--	--	6.9	LM	25.6	DEFGH		
SR	CDC Nimble	--	--	11.9	HIJKLM	20.6	DEFGHIJK		
FG	CDC Marble	50.0	ABC	35.0	CDE	27.5	DEFG		
FG/GC	CDC QG-4	--	--	40.0	BCD	38.1	C		
FG	CDC23.10S	40.6	BCD	22.5	EFGHI	16.9	GHIJ		
SG	Eston	58.8	A	53.8	A	51.7	A		
SG	CDC Viceroy			29.4	DEF	32.5	BCDEFG		
SR	CDC Redberry	32.5	E	13.1	HIJKLM				
ESR	CDC Robin			11.9	HIJKLM	15.6	GH IJK		
LR	CDC KR-1	40.0	BCDE	19.4	F GHIJKL	10.0	IJ		
SB	CDC SB-2	34.4	DE	11.9	HIJKLM	26.7	DEFGH		
LG	CDC Greenstar			10.6	IJKLM	21.7	EFGHI		
	LR-59-81								
CV		26.5		44.0		49.0			

\* Entries with a letter in common are not significantly different from each other.

Ascochyta blight disease testing carried out indoors

Market Class: SR-small red; SG-small green; ESR-extra small red; LR-large red; FG-french green; SB-spanish brown

**Disease checks are shaded:**

- Eston - susceptible to ascochyta
- CDC Robin - resistant to ascochyta
- CDC KR-1 - resistant to ascochyta
- CDC Viceroy - resistant to ascochyta
- CDC Greenstar - resistant to ascochyta
- CDC Marble - moderate resistance to ascochyta
- CDC SB-2 - moderate resistance to ascochyta

**Table 3. Anthracnose disease data for CDC23.10S in the 2023-2025 Specialty Market class lentil trial**

Market Class	Line	Anthracnose (%)							
		2023 Race 1		2023 Race 0		2024 Race 1		2025 Race 1	
		Mean (%)	Significance*	Mean (%)	Significance*	Mean (%)	Significance*	Mean (%)	Significance*
SR	CDC Maxim	--	--	--	--	95.0	A	91.3	ABCDE
SR	CDC Nimble	--	--	--	--	94.4	A	87.5	ABCDEGH
FG	CDC Marble	91.9	ABC	88.1	BCDEFGH	94.4	A	83.1	ABCDEGHJ
FG/GC	CDC QG-4	--	--	--	--	94.4	A	80.0	DEFGHJ
FG	CDC23.10S	91.3	BCD	85.6	DEFGH	95.0	A	91.3	BCF
SG	Eston	95.0	A	95.0	A	95.0	A	93.8	A
SG	CDC Viceroy					45.0	F	16.9	OPQ
SR	CDC Redberry	95.0	A	91.3	ABCD	86.9	AB		
ESR	CDC Robin					31.3	G	12.5	PQ
LR	CDC KR-1	86.9	ABCDE	88.8	BCDEFG	95.0	A	85.6	DGHI
SB	CDC SB-2	53.8	F	92.5	ABC	57.9	DE	43.2	N
LG	CDC Greenstar					91.3	A	87.5	BCDEG
	LR-59-81			34.4	K				
CV		6.9		5.2		10.0			

\* Entries with a letter in common are not significantly different from each other.

Anthracnose disease testing carried out outdoors

Market Class: SR-small red; SG-small green; ESR-extra small red; LR-large red; FG-french green; SB-spanish brown

**Disease checks are shaded:**

- Eston - susceptible to anthracnose race 1
- CDC Viceroy - resistant to anthracnose race 1
- CDC Robin - resistant to anthracnose race 1
- CDC KR-1 - resistant to anthracnose race 1
- CDC SB-2 - resistant to anthracnose race 1
- CDC Greenstar - moderately susceptible to anthracnose race 1
- CDC Marble - very susceptible to anthracnose race 1