

# Technical Bulletin

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Canada's Seed Partner

## CDC Battleford

## 6 Row Malting Barley



**CDC Battleford is a white aleurone 6 row malting barley.** It has shorter and stronger straw than both Tankard and B1602. CDC Battleford outyields Tankard and B1602 in each of the soil zones and has better net blotch resistance than both checks. CDC Battleford is slightly later than Tankard and B1602 is susceptible to loose smut. Its reactions to scald, stem rust and root rot are similar to Tankard and B1602. CDC Battleford has better plumpness than both checks and a good overall malting quality. CDC Battleford has a lower total grain protein content, higher extract and lower beta-glucan content than both Tankard and B1602.

**Area of adaptation:** Western Canada

### Strengths:

- Better overall yield than B1602 and Tankard
- Better plumpness and kernel weight than B1602 and Tankard

- Shorter straw than Tankard and B1602
- Better net blotch resistance than both checks
- Very good overall quality with high extract and low beta-glucan

### Neutral trait:

- Straw strength similar to Tankard
- Reactions to scald, stem rust and root rot similar to Tankard and Sisler

### Negative traits:

- Susceptible to loose smut

### Breeder:

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**Table 1: Agronomic Performance of CDC Battleford & Check Cultivars (96-98 Cooperative Registration Trials)**

Variety	Grain Yield (kg/ha)	Maturity (days)	Plant Height (cm)	Lodging (1-9)	1000 Kernel Weight (g)	Plumpness (%)
Tankard	5665 (100%)	89.8	97.5	3.8	37.9	78.0
B1602	5481 (97%)	89.7	91.5	3.3	38.0	83.1
CDC Battleford	5844 (103%)	91.9	88.9	3.7	39.1	83.8

**Table 2: Grain yield of CDC Battleford Compared to Check Cultivars in the Different Soil Zones (96-98 Cooperative Registration Trials)**

Variety	Eastern Black	Western Black	Brown	Grey	Overall Mean
Tankard	100%	100%	100%	100%	100%
B1602	97%	96%	96%	99%	97%
CDC Battleford	102%	102%	100%	101%	103%

## Seed Manitoba 2006 - Malting Barley Comparison

Variety	Long Term Average Yield (% of Robust)	Days to Maturity (+/- Robust)	Height (inches)	Test Weight (lb/bu)	Awn Type	Resistance To:						
						Lodging	Stem Rust	Loose Smut	Surface Borne Smut	Root Rot	Net Blotch	Fusarium
Robust (6)	100	0	0	0	S	G	G	F	F	F	P	P
Excel (6)	110	-2	0	-1	S	F	G	F	F	G	P	VP
CDC Sisler (6)	100	0	3	-2	S	F	G	P	P	G	F	F
CDC Yorkton (6)	112	-1	1	-2.3	S	G	G	P	G	G	F	P
Legacy (6)	110	-3	-1	0.7	S	F	G	F	G	G	P	P
<b>CDC Battleford (6)</b>	<b>110</b>	<b>0</b>	<b>-5</b>	<b>2.3</b>	<b>S</b>	<b>G</b>	<b>G</b>	<b>P</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>VP</b>

VG=Very Good; G=Good; F+=Fair Plus; F=Fair; P=Poor; VP=Very Poor

## 2006 Saskatchewan Varieties of Grain - Malting Barley Comparison

Variety	Awn type	Yield as % of AC Metcalfe				Relative Maturity	Resistance to:							
		Area 1	Area 2	Area 3	Area 4		Lodging	Net Blotch	Scald	Loose Smut	Other Smuts	Root Rot	Stem Rust	FHB
Harrington (2)	R	99	92	89	88	M	F	VP	P	P	F	P	G	
Excel (6)	S	101	103	104	104	M	VG	F	P	P	G	G	VP	
Robust (6)	S	86	98	98	95	M	G	F	P	P	F	G	VP	
CDC Sisler (6)	S	98	99	104	104	M	F	P	P	P	F	G	F	
CDC Yorkton (6)	S	98	100	105	113	M	G	G	P	P	F	G	P	
Legacy (6)	S	108	103	99	107	M	G	F	P	P	F	G	P	
CDC Battleford (6)	S	109	108	106	112	M	G	G	P	VP	G	F	P	

M=Medium; VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very Poor

FHB=Fusarium Head Blight