

2022-23

CWAD Canada Western Amber Durum



CWAD

Major Grading Factors

	No. 1	No. 2	No. 3	No. 4	No. 5	All Grades
Number of Samples Graded	523	169	100	17	37	870
% of all grades	61.8	20.0	11.8	2.0	4.4	100
Grading Factor*	% of grade					
Hard Vitreous Kernels	0.0	21.9	13.0	5.9	2.7	
Ergot	0.0	0.6	24.0	0.0	59.5	
Test Weight	0.0	58.0	22.0	23.5	8.1	

Top Five CWAD Varieties Grown in 2022

- 1 Transcend
- 2 CDC Precision
- 3 Brigade
- 4 AAC Stronghold
- 5 AAC Spitfire

Source: Canadian Grain Commission

*A sample can be downgraded for more than one factor



CWAD

Protein Content, %

Province	Mean	Standard Deviation
No. 1 CWAD		
Saskatchewan	14.4	1.9
Alberta and British Columbia	13.9	1.3
Western Canada	14.3	1.8
No. 2 CWAD		
Saskatchewan	15.1	2.4
Alberta and British Columbia	14.9	2.1
Western Canada	15.0	2.3
No. 3 CWAD		
Saskatchewan	14.4	1.8
Alberta and British Columbia	NS	NS
Western Canada	14.5	1.8
All Grades		
Saskatchewan	14.6	2.0
Alberta and British Columbia	14.5	1.8
Western Canada	14.5	2.0

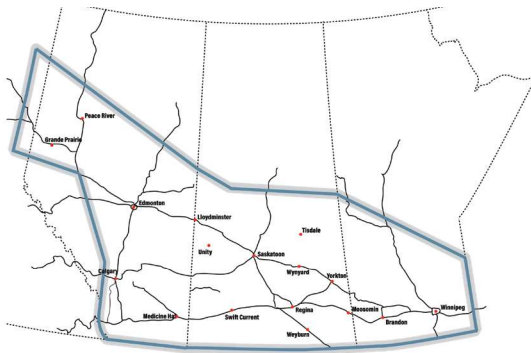
NS = Not sufficient. Insufficient number of samples to generate a representative value

Grading factor and protein content analysis conducted by Canadian Grain Research Laboratory as of 11/03/2022, basis the Harvest Sample Program.

PRAIRIE COMPOSITE

No. 1 CWAD
Canada Western Amber Durum

FIGURE 2
2022 Western Canadian
Prairie Composite Regions



Quality Parameter ^a	Prairie Composite ^b	
	2022	2021
Wheat		
Test Weight, kg/hL	81.6	81.0
Weight Per 1000 Kernels, g	38.1	38.8
Vitreous Kernels, %	95	90
Protein Content, %	14.7	15.8
Protein Content, % (dry matter basis)	16.9	18.3
Ash Content, %	1.68	1.59
Falling Number, s	478	469
Particle Size Index, %	37	37
Milling Semolina Yield Bühler Laboratory Mill		
Total Milling Yield, %	71.5	67.8
Semolina Yield, %	66.7	63.2
Semolina		
Protein Content, %	13.9	15.0
Protein Loss, %	0.8	0.9
Wet Gluten Content, %	36.5	37.8
Gluten Index, %	75	76
Ash Content, %	0.79	0.71
Yellow Pigment Content, ppm	11.4	11.3
Colour - b* (yellowness)	32.3	33.6
Granulation		
> 425 µm, %	1.2	1.0
> 250 µm, %	49.9	52.6
> 180 µm, %	30.9	32.2
> 150 µm, %	9.0	7.5
< 150 µm, %	9.0	6.7
Semolina Speck Count per 50 cm²		
Total Specks	8	6
Dark Specks	2	1
Large Specks (≥0.06 mm ²)	4	3
Alveograph		
P (height x 1.1), mm	98	105
L (length), mm	107	70
P/L	0.92	1.50
W, 10-4 J	322	273
Ie, %	57.4	57.4
Spaghetti		
Firmness @ 9 min cook time, g	800	1058
Cooking Loss, %	4.87	4.73
Colour L*	71.5	72.7
a*	5.31	5.16
b*	64.9	65.8

^a Data are reported on a 13.5% moisture basis for wheat and a 14.0% moisture basis for semolina except Alveograph is reported on a 15.0% moisture basis.

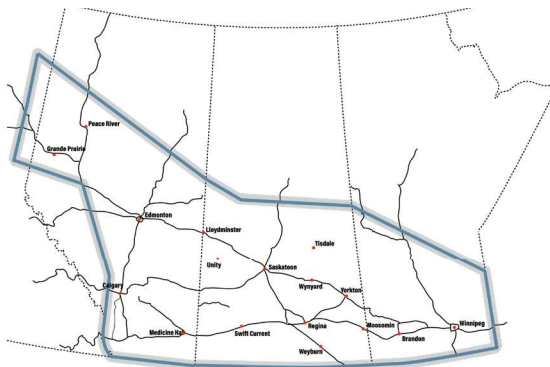
^b Refer to crop region map (Figure 2).

Harvest assessment composites represent grain available for export. Milling, analytical, and end product analysis conducted by Cereals Canada.

PRAIRIE COMPOSITE

No. 2 CWAD
Canada Western Amber Durum

FIGURE 2
2022 Western Canadian
Prairie Composite Regions



Quality Parameter ^a	Prairie Composite ^b	
	2022	2021
Wheat		
Test Weight, kg/hL	79.1	79.3
Weight Per 1000 Kernels, g	34.0	37.6
Vitreous Kernels, %	80	84
Protein Content, %	15.1	16.1
Protein Content, % (dry matter basis)	17.4	18.6
Ash Content, %	1.71	1.60
Falling Number, s	494	358
Particle Size Index, %	35	35
Milling Semolina Yield Bühler Laboratory Mill		
Total Milling Yield, %	70.6	67.2
Semolina Yield, %	65.6	62.2
Semolina		
Protein Content, %	14.1	15.2
Protein Loss, %	1.0	0.9
Wet Gluten Content, %	36.7	38.1
Gluten Index, %	82	80
Ash Content, %	0.81	0.71
Yellow Pigment Content, ppm	12.2	11.4
Colour - b* (yellowness)	32.7	33.0
Granulation		
> 425 µm, %	1.0	0.6
> 250 µm, %	49.1	49.7
> 180 µm, %	31.9	32.7
> 150 µm, %	9.1	8.2
< 150 µm, %	8.9	8.8
Semolina Speck Count per 50 cm²		
Total Specks	9	6
Dark Specks	2	1
Large Specks (≥0.06 mm ²)	5	3
Alveograph		
P (height x 1.1), mm	99	101
L (length), mm	109	78
P/L	0.91	1.29
W, 10-4 J	337	288
Ie, %	59.0	59.3
Spaghetti		
Firmness @ 9 min cook time, g	773	1201
Cooking Loss, %	5.15	4.48
Colour L*	71.5	73.3
a*	5.89	5.38
b*	66.3	65.9

^a Data are reported on a 13.5% moisture basis for wheat and a 14.0% moisture basis for semolina except Alveograph is reported on a 15.0% moisture basis.

^b Refer to crop region map (Figure 2).

Harvest assessment composites represent grain available for export. Milling, analytical, and end product analysis conducted by Cereals Canada.