



# Ontario Hard Red Winter Wheat

## 2025 Technical Information

### ONTARIO WHEAT

Ontario wheat producers are committed to growing high-quality wheat, with a long-standing reputation for innovation and experience in meeting the quality demands of domestic and international markets. For over 50 years, Ontario wheat producers have grown high-quality wheat, rigorously graded to international standards that ensure each shipment meets specifications for quality, safety and quantity.

Situated between the Great Lakes and the St. Lawrence River Basin, Ontario's climate, ideal temperatures, and fertile soils provide all the key components to produce high-quality spring and winter wheat. Ontario's diverse landscape supports several varieties and classes of wheat, with soft wheat predominantly grown in the southwest and Niagara regions, and hard wheat grown in the eastern and northern regions. With reliable transportation networks - like highways, rail lines and river access to ocean ports - as well as abundant energy resources, Ontario's wheat industry is supported and well positioned to deliver consistent supplies of high-quality wheat to customers near and far.

### CANADA EASTERN HARD RED WINTER WHEAT - GRADE SPECIFICATIONS\*

The below tables demonstrate the grading tolerances for CEHRW grades, abridged from the Canadian Grain Commission's Official Grain Grading Guide. In Ontario, wheat graded at No 2. CEHRW and above is typically considered milling grade.

	No. 2 CEHRW	No. 3 CEHRW	No. 4 CEHRW
Minimum test weight, kg/hL	74	69	65
Total foreign material	1.5	3.5	10.0
Fusarium damage, %	1.0	1.5	5.0
Total heated, binburnt, severely mildewed, rotted, mouldy, %	0.8	2.0	2.5
Shrunken, %	10	12	no limit
Broken, %	10	10	50
Total shrunken and broken, %	11	13	no limit within broken tolerances
Total Smudge, %	1.0	5.0	no limit
Total smudge and blackpoint, %	20	35	no limit
Sprouted, %	2.5	8.0	no limit

\*For complete official grain standards, see the following website: <https://www.grainscanada.gc.ca/en/grain-quality/official-grain-grading-guide/04-wheat/primary-grade-determination/cesrw-wheat.html> For more details on Grain Farmers of Ontario's annual wheat harvest survey, visit [www.gfo.ca/ontario-wheat-quality/](http://www.gfo.ca/ontario-wheat-quality/)

# Canada Eastern Hard Red Winter Wheat

## Quality data for 2025 harvest survey grade 2 or better composite sample

<b>Wheat (13.5% M.B.)</b>	<b>Units</b>	<b>2025</b>	<b>Extensograph (45/90/135 min)</b>		
Test Weight	kg/hL	82	Length (E)	cm	19.4/18.0/17.6
Weight Per 1000 Kernels	g	32.2	Height at 5 cm (R5)	BU	306/354/342
Protein (D.M.B.)	%	11.6	Max Height (Rmax)	BU	504/567/560
Protein Loss on Milling	%	1.1	Area (A)	cm <sup>2</sup>	127/131/123
Falling Number	sec	367			
Milling Yield	%	74.9			
Milling Yield - 0.50% Ash Basis	%	78.4			
<b>Flour (14% M.B.)</b>			<b>Alveograph (15.0% M.B.)</b>		
Protein	%	10.5	P	mm	80
Amylograph Peak Viscosity	BU	639	Length (L)	mm	104
Wet Gluten	%	25.3	P/L		0.77
Dry Gluten	%	9.0	W	10 <sup>-4</sup> J	307
Gluten index	%	100			
Ash	%	0.43			
Colour, L*		91.1	<b>Test Baking (Long Term Fermentation)</b>		
Colour, a*		-0.98	Mixing Time	min	7.0
Colour, b*		9.6	Power	watt	107.4
Starch Damage as is	UCD	22.3	Loaf Height	mm	107.0
Solvent Retention Capacity - Water	%	61.6	Loaf Volume	cc	877
Solvent Retention Capacity - Lactic Acid 5%	%	139.0	Specific Volume	cc/g	6.2
Solvent Retention Capacity - Sucrose 50%	%	101.3			
Solvent Retention Capacity - Sodium Carbonate 5%	%	78.7			
<b>Farinograph</b>					
Absorption	%	54.5			
Dough Development Time	min	1.5			
Mixing Tolerance Index	BU	43			
Stability	min	4.9			

Testing was conducted at Cereals Canada in Winnipeg, Manitoba, a joint venture between Grain Farmers of Ontario and Cereals Canada, following the Methods of Analysis on Cereals Canada's website (<https://cerealscanada.ca/analytical-methods/>).

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