Canada Western Amber Durum (CWAD) wheat
Harvest quality data for CWAD, prairie aggregates [1]

	2025			2024		
Quality parameter [2]	**No. 1 CWAD**	**No. 2 CWAD**	**No. 3 CWAD**	**No. 1 CWAD**	**No. 2 CWAD**	**No. 4 CWAD**
Wheat						
Test weight, kg/hL	83	81	80	81	79	77
Weight per 1000 kernels, g	46.6	44.6	43.6	38.2	33.3	30.9
Vitreous kernels, %	92	88	86	92	82	82
Protein content, %	14.1	14.1	14.8	14.1	15.3	16.8
Ash content, %	1.57	1.58	1.66	1.61	1.70	1.75
Falling Number, sec	432	353	281	473	434	427
Durum particle size index[3], %	33	33	33	31	33	33
Cadmium content, mg/kg	0.088	0.077	0.079	0.055	0.054	0.060
Milling - Allis-Chalmers Mill						
Total milling yield, %	75.1	74.9	74.3	72.1	71.3	69.2
Semolina yield, %	65.9	66.0	65.7	64.4	63.2	61.1
Semolina[4]						
Protein content, %	13.1	13.1	13.6	13.4	14.2	15.8
Protein loss, %	1.0	1.0	1.2	0.7	1.1	1.0
Wet gluten content, %	32.7	33.2	34.8	33.9	35.0	37.9
Gluten index, %	76	73	72	84	88	88
Ash content, %	0.71	0.70	0.74	0.77	0.81	0.85
Yellow pigment content, ppm	10.2	10.1	9.8	11.2	11.5	11.7
Yellowness, b*	31.9	31.6	30.4	33.6	32.8	32.7
Granulation						
> 425 µm, %	8.5	7.7	7.2	9.7	9.3	8.9
> 250 µm, %	55.1	57.3	57.5	58.4	56.6	55.0
> 180 µm, %	22.2	21.1	21.2	18.9	19.2	19.4
> 150 µm, %	7.3	7.0	7.0	5.5	5.8	6.2
< 150 µm, %	7.0	6.8	7.0	7.6	9.1	10.6
Semolina speck count per 50 cm²						
Total specks	42	55	68	10	15	9
Dark specks	5	10	12	0	1	1
Large specks (≥ 0.06 mm²)	23	26	34	5	7	4
Alveogram[5]						
P (maximum over pressure), mm H_2O	91	86	84	93	94	105
L (length), mm	101	101	110	96	96	103
P/L	0.90	0.81	0.76	0.97	0.98	1.02
W (deformation energy), 10^{-4} joules	248	238	232	269	276	335
le (elasticity Index), %	46.6	46.3	45.1	51.3	52.4	55.4
Spaghetti colour dried at 85°C						
Brightness, L*	71.0	70.8	69.1	71.3	70.1	69.8
Redness, a*	6.6	6.8	8.0	6.8	7.7	8.1
Yellowness, b*	63.8	63.5	61.7	65.8	65.4	65.3
Spaghetti texture dried at 85°C						
Peak cutting force, g	623	617	617	601	641	757
Dry strand diameter, mm	1.73	1.73	1.73	1.71	1.71	1.72
Cooked strand diameter, mm	2.52	2.52	2.53	2.52	2.52	2.52

[1] Prairie aggregates are from all durum producing regions in Saskatchewan and Alberta.

[2] Data are reported on a 13.5% moisture basis for wheat and a 14.0% moisture basis for semolina, except Alveogram results which are reported on a 15% moisture basis.

[3] Particle size index is based on whole wheat meal generated with ZM 200 ultra centrifugal mill, details are available at Wheat methods and tests

[4] Semolina analysis is conducted using granular products with a constant extraction rate of 70%.

[5] Alveogram results from the Chopin Alveolab.