

The highest weighted percentage foreign matter (2.58%) was reported for the 9 Limpopo samples. The North West and Free State provinces averaged 1.60% and 1.21% respectively. The lowest average percentage was found in Mpumalanga (6 samples) at 0.91%.

Graph 17: Average percentage foreign matter per province

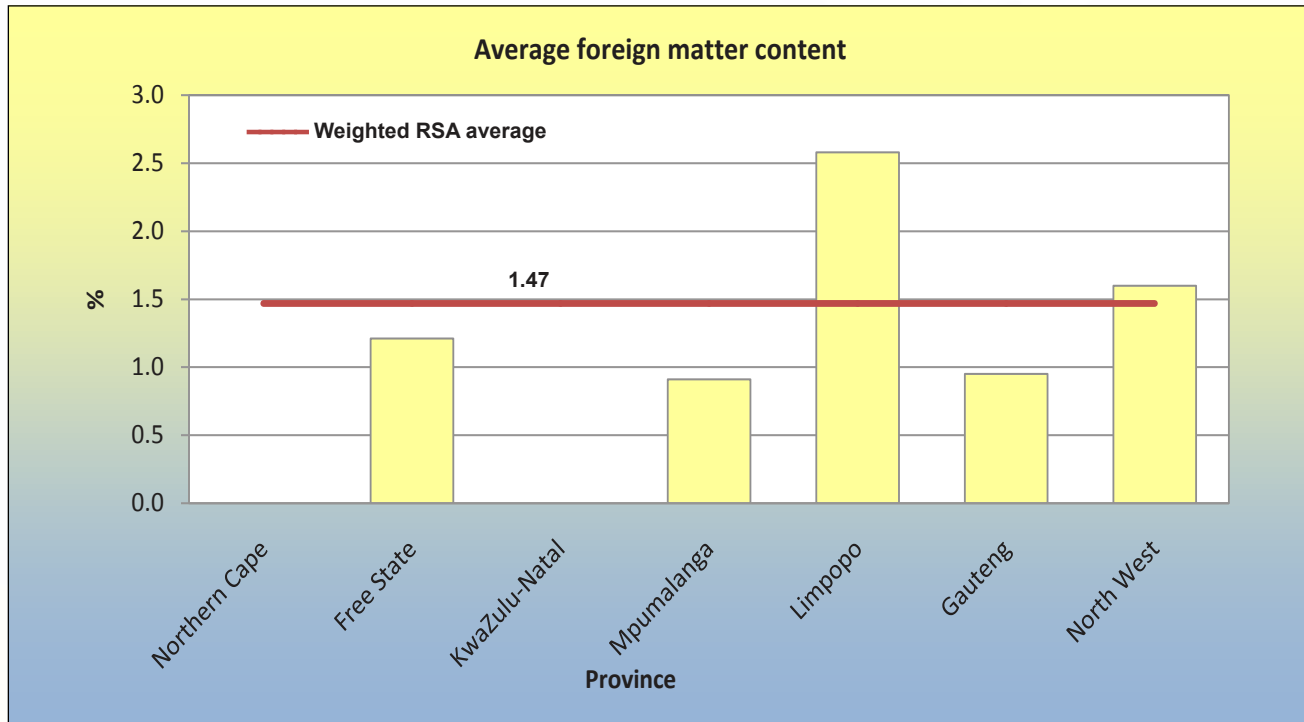


Table 2: Sunflower seed quality per province 2012/2013 season

Province	*Hectolitre mass, kg/hl		Moisture, %		Crude protein, % (db)		Crude fat, % (db)		Ash, % (db)		Crude fibre, % (db)		No. of samples
	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	
Free State (Regions 21 - 28)	43.8	38.3 - 47.7	4.9	3.6 - 6.3	17.06	11.88 - 20.16	41.9	38.7 - 48.2	2.71	2.35 - 3.68	21.4	16.2 - 24.0	58
Mpumalanga (Regions 29 - 33)	42.5	38.1 - 45.7	4.6	3.9 - 5.6	15.97	13.68 - 18.82	42.4	39.7 - 45.0	2.56	2.27 - 2.83	21.7	20.0 - 25.3	6
Limpopo (Region 35)	44.6	42.6 - 47.5	5.4	4.6 - 6.0	18.60	14.86 - 23.02	40.4	34.9 - 42.3	2.75	2.41 - 3.83	21.0	18.8 - 22.5	9
Gauteng (Region 34)	42.7	42.6 - 42.8	4.1	4.0 - 4.2	16.92	16.75 - 17.09	42.9	42.1 - 43.6	2.44	2.39 - 2.49	19.8	19.4 - 20.1	2
North West (Region 12 - 20)	43.0	31.5 - 47.3	5.3	4.0 - 6.6	18.19	14.58 - 20.75	40.8	34.3 - 46.3	2.66	1.98 - 3.03	20.8	13.8 - 25.3	77
Total	43.4	31.5 - 47.7	5.1	3.6 - 6.6	17.68	13.68 - 23.02	41.3	34.3 - 48.2	2.68	1.98 - 3.83	21.1	13.8 - 25.3	152

*Hectolitre mass does not form part of the grading regulations for sunflower seed in South Africa. An approximation of the hectolitre mass of South African sunflower seeds is provided for information purposes. The g/1 L filling weight of sunflower seed was determined by means of the Kern 222 apparatus. The sample weight in hectolitres was determined by extrapolating the Test Weight Conversion Chart for Sunflower Seed, Oil of the Canadian Grain Commission.

The crude protein, crude fat, ash as well as crude fibre components are reported as % (g/100g) on a dry/moisture free basis (db). Since this is the first crop quality survey on sunflower, no data is available for seasonal comparison purposes.