

Table 19: MYCOTOXIN RESULTS - SUMMARY OF SEASON 1999/2000 TO 2008/2009

Season	Number of samples received	Number of samples tested for mycotoxins	Aflatoxin ppb		Fumonisin ppm		Deoxynivalenol ppm		Zearalenone ppm		Ochratoxin ppb		T-2 ppm	
			ave.	min.	max	ave.	min.	max.	ave .	min.	max.	ave.	min.	max.
1999/2000	900	90	0	0	0	0.65	0.03	4.9	Not analysed		Not analysed		Not analysed	
2000/2001	900	57	<1	0	22	1.67	0	8.1	0.68	0	5.4	<2.0	0	0
2001/2002	900	90	0	0	0	0.76	0	5.1	0.63	0	2.2	<2.0	0	0
2002/2003	900	90	0	0	0	0.73	0	3.9	<0.5	0	4.3	<2.0	0	2.0
2003/2004	900	90	0	0	0	1.14	0.16	5.6	0.20	0	13.0	<2.0	0	5.7
2004/2005	1000	100	0	0	0	1.08	0	5.3	0.60	0	3.9	<2.0	0	2.4
2005/2006	900	90	0	0	0	0.97	0	13.0	2.74	0	6.2	<2.0	0	2.9
2006/2007	900	90	<1	0	9	0.64	0	4.5	0.53	0	3.1	<2.0	0	6.5
2007/2008	900	100	0	0	2	0.47	0	5.5	0.24	0	1.7	<1.0	0	2.0
2008/2009	810	90	0	0	0	0.49	0	3.3	0.43	0	2.9	<1.0	0	1.0
Total	10192	1182												
	Min			0			0						0	
	Max				22			13.0			13.0			6.5
														0.29

Mycotoxin methodology

Method used from season 1997/1998 - 2006/2007

The mycotoxin analyses were carried out in accordance with the Vicam Immunoaffinity Column Chromatography method using the different Vicam Instruction Manuals for the different mycotoxins. Detection of the toxins was done on a Fluorometer. The following range and limit of detection apply for each toxin.

Mycotoxin	Assay range	LOD for maize
Aflatoxin	0 - 300 ppb	1.0 ppb
Fumonisin	0 - 10 ppm	0.25 ppm
Deoxynivalenol	0.5 - 50 ppm	0.5 ppm
Zearalenone	0 - 5.0 ppm	0.1 ppm
Ochratoxin A	0 - 50 ppb	2 ppb
T - 2	0.15 - 2 ppm	0.15 ppm

Notes:

Limit of detection (LOD) means the lowest level that can be detected accurately by the method. A result above zero but lower than the limit of detection, is reported as <"LOD". All not detected results are reported as 0, see LOD.

Method used for season 2007/2008 - 2008/2009

The SAGL uses the ROSA (Rapid One Step Assay) Quantitative test, which is a lateral flow immuno assay test; together with the ROSA-M Reader for measuring the mycotoxin content. The following range and limit of detection apply for each toxin.

Mycotoxin	Assay range	LOD for maize
Aflatoxin	0 - 100 ppb	2 ppb
Fumonisin	0 - 60 ppm	0.1 ppm
Deoxynivalenol	0 - 5 ppm	0.25 ppm
Zearalenone	0 - 1 ppm	0.025 ppm
Ochratoxin A	0 - 150 ppb	1 ppb