TABLE 25: MYCOTOXIN RESULTS - SUMMARY OF SEASONS 2009/10 TO 2018/19

Season	Total Number of samples received	Number of samples tested for mycotoxins	Aflatoxin µg/kg			Fumonisin µg/kg			Deoxynivalenol µg/kg			Zearalenone µg/kg			Ochratoxin A µg/kg			T-2 Toxin µg/kg		
			ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
*2009/10	800	90	0	0	0	251	0	4 035	206	0	1 845	0	0	0	0	0	0	0	0	0
*2010/11	693	325	0	0	0	468	0	7 048	165	0	1 835	33	0	270	0	0	0	0	0	0
**2011/12	1 000	350	0	0	0	383	0	11 297	146	0	911	33	0	297	0	0	0	0	0	0
**2012/13	1 000	350	0	0	0	530	0	11 243	186	0	1 175	30	0	426	0	0	0	2	0	232
**2013/14	930	350	0	0	0	451	0	5 357	243	0	6 134	38	0	445	0	0	0	0	0	0
**2014/15	1 000	350	2	0	48	357	0	3 382	397	0	9 736	36	0	337	0	0	0	0	0	0
**2015/16	920	350	0	0	0	444	0	11 347	175	0	1 585	16	0	127	0	0	0	0	0	0
**2016/17	1 000	350	0	0	0	471	0	6 059	513	0	7 698	36	0	399	0	0	0	0	0	0
**2017/18	900	350	0	0	0	991	0	8 356	656	0	3 510	51	0	361	0	0	0	0	0	0
**2018/19	808	350	10	0	143	666	0	34 740	550	0	11 181	64	0	957	0	0	0	0	0	0
Total	**9 051**	**3 215**																		
Min.				**0**			**0**			**0**			**0**			**0**			**0**	
Max.					**143**			**34 740**			**11 181**			**957**			**0**			**232**

*** Sum of Aflatoxin (B_1; B_2; G_1; G_2) and sum of Fumonisin (B_1; B_2)**

**** Sum of Aflatoxin (B_1; B_2; G_1; G_2) and sum of Fumonisin (B_1; B_2; B_3)**

RSA averages calculated from averages per province.

Mycotoxin methodology

During 2010 SAGL implemented a multi-mycotoxin screening method using UPLC-MS/MS. The following limit of detection applies for each toxin:

Mycotoxin	LOQ for maize µg/kg	LOD for maize µg/kg
Aflatoxin B_1	5	2.5
Aflatoxin B_2	5	2.5
Aflatoxin G_1	5	2.5
Aflatoxin G_2	5	2.5
Fumonisin B_1	20	10
Fumonisin B_2	20	10
Fumonisin B_3	20	10
Deoxynivalenol	100	50
Zearalenone	20	10
Ochratoxin A	5	2.5
T - 2 Toxin	20	10

Notes:

Limit of detection (LOD) means the lowest level that can be detected accurately by the technique.

Limit of quantitation (LOQ) means the lowest level that can be quantified accurately by the technique.

A result above zero but lower than the limit of detection/quantitation, is reported as <LOD/<LOQ.

µg/kg = ppb (parts per billion)