TABLE 25: MYCOTOXIN RESULTS - SUMMARY OF SEASONS 2012/13 TO 2021/22

Season	Total Number of samples represented in crop survey	Number of samples tested for mycotoxins	Aflatoxin* µg/kg		Fumonisin** µg/kg		Deoxynivalenol µg/kg		15-acetyl-deoxynivalenol µg/kg		Ochratoxin A µg/kg		Zearalenone µg/kg		T-2 Toxin µg/kg	
			ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.	ave.	max.
2012/13	1 000	350	0	0	530	11 243	186	1 175	-	-	0	0	30	426	2	232
2013/14	930	350	0	0	451	5 357	243	6 134	142	861	0	0	38	445	0	0
2014/15	1 000	350	2	48	357	3 382	397	9 736	144	1 768	0	0	36	337	0	0
2015/16	920	350	0	0	444	11 347	175	1 585	34	310	0	0	16	127	0	0
2016/17	1 000	350	0	0	471	6 059	513	7 698	131	964	0	0	36	399	0	0
2017/18	900	350	0	0	991	8 356	656	3 510	127	394	0	0	51	361	0	0
2018/19	808	350	10	143	666	34 740	550	11 181	179	737	0	0	64	957	0	0
2019/20	890	350	1	10	361	5 928	898	7 700	195	1 173	0	0	43	539	0	0
2020/21	1 000	350	0	0	724	5 373	321	3 256	128	571	0	0	12	101	0	0
2021/22	1 000	350	0	0	434	18 301	715	6 879	160	1 115	0	0	39	428	0	30
Total	**9 448**	**3 500**														
Weighted ave.			**1**		**543**		**465**		**1**		**0**		**37**		**0**	
Max.			**143**		**34 740**		**11 181**		**1 768**		**0**		**957**		**232**	

*** Sum of Aflatoxin (B_1; B_2; G_1; G_2)**
****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
15-ADON	100	50
Ochratoxin A	5	2.5
Zearalenone	20	10
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)