

Table 6: Fatty acid profile results of a selection of crop quality samples from the 2020/21 season

Province	Region	g Fatty acids/100 g Fatty Acids																		
		C14:0	C16:0	C16:1	C17:0	C17:1	C18:0	C18:1 c	C18:2 c	C18:3n6	C18:3n5	C18:3n3	C20:0	C20:1	C20:2	C21:0	C22:0	C24:0	C24:1	
North West	12	ND	6.06	ND	ND	ND	5.718	18.10	68.0	ND	LOQ	LOQ	0.405	LOQ	ND	ND	0.91	LOQ	ND	
	13	ND	5.87	ND	ND	ND	5.211	20.21	66.7	LOQ	LOQ	0.379	LOQ	ND	ND	ND	0.84	LOQ	ND	
	13	ND	5.84	ND	ND	ND	4.868	21.26	66.0	LOQ	LOQ	0.351	LOQ	ND	ND	ND	0.82	LOQ	ND	
	13	ND	5.70	ND	ND	ND	5.679	20.83	65.7	LOQ	LOQ	0.393	LOQ	ND	ND	ND	0.86	LOQ	ND	
	14	ND	6.21	ND	ND	ND	5.181	19.48	67.0	LOQ	LOQ	0.387	LOQ	ND	ND	ND	0.87	LOQ	ND	
	14	ND	6.29	ND	ND	ND	6.076	17.83	67.6	LOQ	LOQ	0.434	LOQ	ND	ND	ND	0.95	LOQ	ND	
	17	ND	6.00	ND	ND	ND	5.353	19.38	67.2	LOQ	LOQ	0.385	LOQ	ND	ND	ND	0.86	LOQ	ND	
	17	ND	6.18	ND	ND	ND	5.000	20.46	66.2	LOQ	LOQ	0.391	LOQ	ND	ND	ND	0.94	LOQ	ND	
	18	ND	5.84	ND	ND	ND	6.147	19.20	66.7	LOQ	LOQ	0.416	LOQ	ND	ND	ND	0.90	LOQ	ND	
	19	ND	6.10	ND	ND	ND	5.823	18.23	67.7	LOQ	LOQ	0.416	LOQ	ND	ND	ND	0.91	LOQ	ND	
	19	ND	6.16	ND	ND	ND	5.170	18.25	68.4	LOQ	LOQ	0.371	LOQ	ND	ND	ND	0.88	LOQ	ND	
	Min	-	5.70	-	-	4.868	17.83	65.7	-	-	-	0.351	-	-	-	-	0.82	-	-	
	Max	-	6.29	-	-	6.147	21.26	68.4	-	-	-	0.434	-	-	-	-	0.95	-	-	
	N	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
Free State	21	ND	5.86	ND	ND	ND	4.477	26.79	60.7	LOQ	LOQ	0.375	LOQ	ND	ND	ND	0.87	LOQ	ND	
	23	ND	5.84	ND	ND	ND	5.813	17.87	68.4	LOQ	LOQ	0.403	LOQ	ND	ND	ND	0.87	LOQ	ND	
	24	ND	6.03	ND	ND	ND	6.238	16.44	69.1	LOQ	LOQ	0.428	LOQ	ND	ND	ND	0.95	LOQ	ND	
	26	ND	6.53	ND	ND	ND	5.177	16.68	69.4	LOQ	LOQ	0.405	LOQ	ND	ND	ND	1.01	LOQ	ND	
	27	ND	5.82	ND	ND	ND	5.061	20.47	66.6	LOQ	LOQ	0.383	LOQ	ND	ND	ND	0.84	LOQ	ND	
		Min	-	5.82	-	-	4.477	16.44	60.7	-	-	-	0.375	-	-	-	-	0.84	-	-
		Max	-	6.53	-	-	6.238	26.79	69.4	-	-	-	0.428	-	-	-	-	1.01	0.28	-
	N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Mpumalanga	29	ND	6.08	ND	ND	ND	6.244	18.57	66.9	LOQ	LOQ	0.441	LOQ	ND	ND	ND	0.94	LOQ	ND	
	33	ND	6.15	ND	ND	ND	3.875	28.32	59.6	LOQ	LOQ	0.332	LOQ	ND	ND	ND	0.90	LOQ	ND	
		Min	-	6.08	-	-	3.875	18.57	59.6	-	-	0.332	-	-	-	-	0.90	-	-	
	Max	-	6.15	-	-	6.244	28.32	66.9	-	-	0.441	-	-	-	-	-	0.94	-	-	
	N	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Limpopo	35	ND	5.63	ND	ND	ND	5.145	31.10	56.1	LOQ	LOQ	0.364	LOQ	ND	ND	ND	0.78	LOQ	ND	
	35	ND	6.00	ND	ND	ND	5.991	19.67	66.1	LOQ	LOQ	0.456	LOQ	ND	ND	ND	0.98	LOQ	ND	
		Min	-	5.63	-	-	5.145	19.67	56.1	-	-	0.364	-	-	-	-	0.78	-	-	
	Max	-	6.00	-	-	5.991	31.10	66.1	-	-	0.456	-	-	-	-	-	0.98	-	-	
	N	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
RSA		Min	-	5.63	-	-	3.875	16.44	56.1	-	-	0.332	-	-	-	-	0.78	-	-	
		Max	-	6.53	-	-	6.244	31.10	69.4	-	-	0.456	-	-	-	-	1.01	0.28	-	
		N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	

Note:
 Limit of detection (LOD) = 0.09 g Fatty acid/100 g Fatty acids.
 Limit of quantitation (LOQ) = 0.28 g Fatty acid/100 g Fatty acids.
 Values below the limit of quantitation cannot be accurately quantified.
 ND = Not detected