

Table 6: Fatty acid profile results of a selection of crop quality samples from the 2018/19 season

Province	Region	g Fatty acids/100 g Fatty Acids																				
		C14:0	C16:0	C16:1	C17:0	C17:1	C18:0	C18:1 t	C18:1 c	C18:2 t	C18:2 c	C18:3n6	C18:3n3	C20:0	C20:1	C20:2	C21:0	C22:0	C22:1	C24:0	C24:1	
North West	12	ND	5.67	ND	ND	ND	6.72	ND	16.95	ND	68.3	ND	< LOQ	0.55	< LOQ	ND	ND	1.02	ND	< LOQ	ND	
	13	ND	5.47	ND	ND	ND	7.68	ND	16.17	ND	68.7	ND	< LOQ	0.60	< LOQ	ND	ND	0.94	ND	< LOQ	ND	
	14	ND	5.48	ND	ND	ND	7.73	ND	15.67	ND	68.8	ND	< LOQ	0.56	< LOQ	ND	ND	1.02	ND	< LOQ	ND	
	16	ND	5.44	ND	ND	ND	7.20	ND	15.25	ND	70.0	ND	< LOQ	0.57	< LOQ	ND	ND	1.01	ND	< LOQ	ND	
	17	ND	5.65	ND	ND	ND	7.16	ND	16.56	ND	68.2	ND	< LOQ	0.61	< LOQ	ND	ND	1.05	ND	< LOQ	ND	
	18	ND	5.00	ND	ND	ND	8.36	ND	16.43	ND	68.2	ND	< LOQ	0.61	< LOQ	ND	ND	0.99	ND	< LOQ	ND	
	19	ND	5.61	ND	ND	ND	7.46	ND	16.93	ND	67.8	ND	< LOQ	0.58	< LOQ	ND	ND	1.09	ND	< LOQ	ND	
	20	ND	5.78	ND	ND	ND	4.95	ND	20.41	ND	66.6	ND	< LOQ	0.46	< LOQ	ND	ND	0.95	ND	< LOQ	ND	
	Min	-	5.00	-	-	-	4.95	-	15.25	-	66.6	-	-	0.46	-	-	-	-	0.94	-	-	-
	Max	-	5.78	-	-	-	8.36	-	20.41	-	70.0	-	-	0.61	-	-	-	-	1.09	-	-	-
	N	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Free State	21	ND	5.32	ND	ND	ND	6.85	ND	17.32	ND	68.0	ND	< LOQ	0.55	< LOQ	ND	ND	0.95	ND	0.30	ND
		22	ND	5.53	ND	ND	ND	6.97	ND	16.67	ND	68.5	ND	< LOQ	0.56	< LOQ	ND	ND	0.98	ND	< LOQ	ND
		23	ND	5.68	ND	ND	ND	6.89	ND	15.55	ND	69.8	ND	< LOQ	0.60	< LOQ	ND	ND	1.03	ND	< LOQ	ND
		24	ND	5.29	ND	ND	ND	6.63	ND	16.95	ND	69.0	ND	< LOQ	0.53	< LOQ	ND	ND	0.92	ND	< LOQ	ND
		25	ND	5.75	ND	ND	ND	5.84	ND	16.56	ND	69.8	ND	< LOQ	0.53	< LOQ	ND	ND	1.01	ND	< LOQ	ND
		26	ND	5.68	ND	ND	ND	5.62	ND	19.48	ND	67.1	ND	< LOQ	0.48	< LOQ	ND	ND	1.02	ND	< LOQ	ND
		27	ND	5.29	ND	ND	ND	5.32	ND	17.70	ND	69.6	ND	< LOQ	0.51	< LOQ	ND	ND	0.97	ND	< LOQ	ND
		28	ND	5.19	ND	ND	ND	6.63	ND	21.08	ND	64.6	ND	< LOQ	0.55	< LOQ	ND	ND	1.08	ND	< LOQ	ND
	Min	-	5.19	-	-	-	5.32	-	15.55	-	64.6	-	-	0.48	-	-	-	-	0.92	-	-	-
Max	-	5.75	-	-	-	6.97	-	21.08	-	69.8	-	-	0.60	-	-	-	-	1.08	-	0.30	-	
N	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Mpumalanga	29	ND	5.60	ND	ND	ND	5.47	ND	26.76	ND	59.8	ND	< LOQ	0.51	< LOQ	ND	ND	1.11	ND	< LOQ	ND	
	33	ND	5.50	ND	ND	ND	6.38	ND	17.64	ND	68.4	ND	< LOQ	0.53	< LOQ	ND	ND	1.02	ND	< LOQ	ND	
	Min	-	5.50	-	-	-	5.47	-	17.64	-	59.8	-	-	0.51	-	-	-	1.02	-	-	-	
Max	-	5.60	-	-	-	6.38	-	26.76	-	68.4	-	-	0.53	-	-	-	1.11	-	-	-		
N	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Gauteng	34	ND	5.60	ND	ND	ND	5.09	ND	18.11	ND	68.9	ND	< LOQ	0.47	< LOQ	ND	ND	1.00	ND	< LOQ	ND	
Limpopo	35	ND	5.37	ND	ND	ND	6.67	ND	21.67	ND	63.8	ND	< LOQ	0.50	< LOQ	ND	ND	0.94	ND	< LOQ	ND	
Min	-	5.00	-	-	-	4.95	-	15.25	-	59.82	-	-	0.46	-	-	-	-	0.92	-	-	-	
Max	-	5.78	-	-	-	8.36	-	26.76	-	69.99	-	-	0.61	-	-	-	-	1.11	-	0.30	-	
N	20	20	20	20	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