

Table 6: Fatty acid profile results of a selection of crop quality samples from the 2019/20 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	6.46	ND	ND	ND	6.01	17.57	67.7	ND	0.32	<LOQ	0.56	<LOQ	ND	ND	0.95	<LOQ	ND	
	13	ND	5.19	ND	ND	ND	5.35	21.29	66.1	ND	0.30	<LOQ	0.49	<LOQ	ND	ND	0.83	<LOQ	ND	
	14	ND	6.09	ND	ND	ND	5.81	17.69	68.3	ND	<LOQ	<LOQ	0.51	<LOQ	ND	ND	0.89	<LOQ	ND	
	15	ND	5.44	ND	ND	ND	7.73	16.54	68.2	ND	0.30	<LOQ	0.56	<LOQ	ND	ND	0.79	<LOQ	ND	
	16	ND	5.57	ND	ND	ND	5.85	19.61	66.9	ND	0.41	<LOQ	0.47	<LOQ	ND	ND	0.77	<LOQ	ND	
	17	ND	5.47	ND	ND	ND	6.01	19.62	67.1	ND	ND	<LOQ	0.53	<LOQ	ND	ND	0.78	<LOQ	ND	
	18	ND	6.29	ND	ND	ND	4.96	17.98	68.9	ND	<LOQ	<LOQ	0.48	<LOQ	ND	ND	0.83	<LOQ	ND	
	19	ND	6.18	ND	ND	ND	7.58	15.60	68.8	ND	ND	<LOQ	0.59	<LOQ	ND	ND	0.88	<LOQ	ND	
	Min	-	5.19	-	-	-	4.96	15.60	66.1	-	0.30	-	0.47	-	-	-	-	0.77	-	-
	Max	-	6.46	-	-	-	7.73	21.29	68.9	-	0.41	-	0.59	-	-	-	-	0.95	-	-
	N	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Free State	20	ND	6.20	ND	ND	ND	6.16	16.43	69.2	ND	ND	<LOQ	0.54	<LOQ	ND	ND	0.96	<LOQ	ND
		21	ND	6.20	ND	ND	ND	5.05	16.58	70.0	ND	0.34	<LOQ	0.48	<LOQ	ND	ND	0.89	<LOQ	ND
		21	ND	5.93	ND	ND	ND	5.78	22.52	63.6	ND	0.35	<LOQ	0.51	<LOQ	ND	ND	0.89	<LOQ	ND
		22	ND	6.04	ND	ND	ND	4.97	19.53	67.5	ND	<LOQ	<LOQ	0.48	<LOQ	ND	ND	0.92	<LOQ	ND
		23	ND	5.38	ND	ND	ND	6.84	17.47	68.2	ND	0.33	<LOQ	0.53	<LOQ	ND	ND	0.85	<LOQ	ND
		24	ND	5.57	ND	ND	ND	5.76	16.83	69.8	ND	ND	<LOQ	0.54	<LOQ	ND	ND	1.00	<LOQ	ND
		26	ND	5.87	ND	ND	ND	6.88	16.39	69.0	ND	ND	<LOQ	0.54	<LOQ	ND	ND	0.99	<LOQ	ND
		27	ND	6.06	ND	ND	ND	5.61	19.53	66.6	ND	<LOQ	<LOQ	0.56	<LOQ	ND	ND	0.88	<LOQ	ND
28		ND	5.26	ND	ND	ND	6.30	16.41	69.8	ND	0.37	<LOQ	0.52	<LOQ	ND	ND	0.81	<LOQ	ND	
Min		-	5.26	-	-	-	4.97	16.39	63.6	-	0.33	-	0.48	-	-	-	-	0.81	-	-
Max	-	6.20	-	-	-	6.84	22.52	70.0	-	0.37	-	0.56	-	-	-	-	1.00	-	-	
N	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
Mpumalanga	29	ND	6.33	ND	ND	5.22	18.44	67.8	ND	0.30	<LOQ	0.50	<LOQ	ND	ND	0.89	<LOQ	ND		
Gauteng	34	ND	7.16	ND	ND	4.25	16.99	69.7	ND	ND	<LOQ	0.48	<LOQ	ND	ND	0.86	<LOQ	ND		
Limpopo	35	ND	6.27	ND	ND	7.24	15.87	68.5	ND	<LOQ	<LOQ	0.57	<LOQ	ND	ND	0.89	<LOQ	ND		
RSA	Min	-	5.19	-	-	4.25	15.60	63.60	-	0.30	-	0.47	-	-	-	-	0.77	-	-	
	Max	-	7.16	-	-	7.73	22.52	69.97	-	0.41	-	0.59	-	-	-	-	1.00	-	-	
	N	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