

Table 7: 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	
Northern Cape	11	ND	10.1	<LOQ	<LOQ	ND	5.52	ND	23.27	ND	52.3	ND	7.21	0.56	<LOQ	ND	ND	0.46	ND	ND	<LOQ	ND
	20	ND	9.3	ND	<LOQ	ND	5.80	ND	22.61	ND	52.9	ND	7.93	0.56	<LOQ	ND	ND	0.49	ND	ND	<LOQ	ND
North West	21	ND	9.3	ND	<LOQ	ND	5.01	ND	20.98	ND	54.1	ND	9.16	0.51	<LOQ	ND	ND	0.51	ND	ND	<LOQ	ND
	23	ND	9.7	ND	<LOQ	ND	4.99	ND	22.12	ND	53.4	ND	8.30	0.53	<LOQ	ND	ND	0.53	ND	ND	<LOQ	ND
Free State	24	ND	9.4	ND	<LOQ	ND	4.65	ND	20.84	ND	54.2	ND	9.47	0.48	<LOQ	ND	ND	0.47	ND	ND	<LOQ	ND
	25	ND	9.1	ND	ND	ND	4.64	ND	19.18	ND	55.2	ND	10.59	0.47	<LOQ	ND	ND	0.448	ND	ND	<LOQ	ND
Free State	26	ND	8.97	ND	ND	ND	4.06	ND	20.18	ND	54.1	ND	11.51	0.424	<LOQ	ND	ND	0.48	ND	ND	<LOQ	ND
	27	ND	10.0	ND	<LOQ	ND	4.31	ND	19.12	ND	54.5	ND	10.68	0.46	<LOQ	ND	ND	0.47	ND	ND	<LOQ	ND
Free State	28	ND	9.3	ND	<LOQ	ND	4.75	ND	21.41	ND	54.0	ND	9.10	0.50	<LOQ	ND	ND	0.454	ND	ND	<LOQ	ND
	28	ND	9.7	ND	<LOQ	ND	4.90	ND	21.08	ND	53.5	ND	9.26	0.48	<LOQ	ND	ND	0.450	ND	ND	<LOQ	ND
Free State	Min	-	8.97	-	-	-	4.06	-	19.12	-	53.4	-	8.30	0.424	-	-	-	0.448	-	-	-	-
	Max	-	10.0	-	-	-	5.01	-	22.12	-	55.2	-	11.51	0.53	-	-	-	0.53	-	-	-	-
Free State	N	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	29	ND	9.9	ND	<LOQ	ND	5.07	ND	25.04	ND	51.6	ND	6.80	0.56	<LOQ	ND	ND	0.52	ND	ND	<LOQ	ND
Free State	30	ND	9.6	ND	<LOQ	ND	4.92	ND	21.98	ND	52.6	ND	9.34	0.48	0.364	ND	ND	0.49	ND	ND	<LOQ	ND
	30	ND	9.5	ND	<LOQ	ND	5.24	ND	21.71	ND	53.1	ND	8.77	0.55	<LOQ	ND	ND	0.66	ND	ND	<LOQ	ND
Free State	31	ND	9.8	ND	<LOQ	ND	5.98	ND	21.77	ND	51.6	ND	8.86	0.63	<LOQ	ND	ND	0.88	ND	ND	<LOQ	ND
	32	ND	9.2	ND	<LOQ	ND	5.62	ND	22.00	ND	53.2	ND	8.55	0.56	<LOQ	ND	ND	0.50	ND	ND	<LOQ	ND
Free State	33	ND	9.5	ND	<LOQ	ND	5.56	ND	23.40	ND	52.0	ND	8.03	0.56	<LOQ	ND	ND	0.52	ND	ND	<LOQ	ND
	33	ND	10.4	ND	ND	ND	5.11	ND	25.74	ND	50.7	ND	6.64	0.50	<LOQ	ND	ND	0.48	ND	ND	<LOQ	ND
Free State	Min	-	9.2	-	-	-	4.92	-	21.71	-	50.7	-	6.64	0.48	-	-	-	0.48	-	-	-	-
	Max	-	10.4	-	-	-	5.98	-	25.74	-	53.2	-	9.34	0.63	0.364	-	-	0.88	-	-	-	-
Free State	N	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	34	ND	9.3	ND	ND	ND	5.28	ND	21.96	ND	53.2	ND	8.88	0.52	<LOQ	ND	ND	0.53	ND	ND	<LOQ	ND
Gauteng	35	ND	10.2	ND	<LOQ	ND	4.65	ND	25.89	ND	50.5	ND	7.28	0.49	<LOQ	ND	ND	0.51	ND	ND	<LOQ	ND
	36	ND	10.5	ND	<LOQ	ND	4.62	ND	20.24	ND	54.9	ND	8.29	0.47	<LOQ	ND	ND	0.46	ND	ND	<LOQ	ND
Gauteng	Min	-	8.97	-	-	-	4.06	-	19.12	-	50.5	-	6.64	0.424	-	-	-	0.448	-	-	-	-
	Max	-	10.5	-	-	-	5.98	-	25.89	-	55.2	-	11.51	0.63	0.364	-	-	0.88	-	-	-	-
Gauteng	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	34	ND	9.3	ND	ND	ND	5.28	ND	21.96	ND	53.2	ND	8.88	0.52	<LOQ	ND	ND	0.53	ND	ND	<LOQ	ND
Limpopo	35	ND	10.2	ND	<LOQ	ND	4.65	ND	25.89	ND	50.5	ND	7.28	0.49	<LOQ	ND	ND	0.51	ND	ND	<LOQ	ND
	36	ND	10.5	ND	<LOQ	ND	4.62	ND	20.24	ND	54.9	ND	8.29	0.47	<LOQ	ND	ND	0.46	ND	ND	<LOQ	ND
KwaZulu-Natal	Min	-	8.97	-	-	-	4.06	-	19.12	-	50.5	-	6.64	0.424	-	-	-	0.448	-	-	-	-
	Max	-	10.5	-	-	-	5.98	-	25.89	-	55.2	-	11.51	0.63	0.364	-	-	0.88	-	-	-	-
KwaZulu-Natal	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