

Table 7: 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	C18:3n3	C20:0	C20:1	C20:2	C21:0	C22:0	C22:1	C24:0	C24:1
Northern Cape	11	ND	9.5	ND	ND	ND	5.19	24.46	51.6	ND	7.74	0.51	LOQ	ND	ND	0.439	ND	LOQ	ND
	18	ND	9.3	ND	LOQ	ND	5.34	22.25	52.7	ND	8.86	0.53	LOQ	ND	ND	0.49	ND	LOQ	ND
	20	ND	9.56	ND	LOQ	ND	5.40	21.80	53.2	ND	8.31	0.50	LOQ	LOQ	ND	0.47	ND	LOQ	ND
North West	Min	-	9.3	-	-	-	5.34	21.80	52.7	-	8.31	0.50	-	-	-	0.47	-	-	-
	Max	-	9.56	-	-	-	5.40	22.25	53.2	-	8.86	0.53	-	-	-	0.49	-	-	-
	N	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Free State	21	ND	9.16	ND	LOQ	ND	5.72	23.14	52.5	ND	7.69	0.53	LOQ	LOQ	ND	0.53	ND	LOQ	ND
	22	ND	9.5	ND	LOQ	ND	5.49	22.15	52.8	ND	8.29	0.55	LOQ	ND	ND	0.51	ND	LOQ	ND
	23	ND	9.22	ND	LOQ	ND	5.21	22.08	53.4	ND	8.35	0.49	LOQ	ND	ND	0.50	ND	LOQ	ND
	25	ND	9.0	ND	LOQ	ND	5.98	21.12	52.9	ND	9.40	0.56	LOQ	ND	ND	0.473	ND	LOQ	ND
	26	ND	9.3	ND	LOQ	ND	6.71	21.69	52.2	ND	8.56	0.55	LOQ	ND	ND	0.440	ND	LOQ	ND
	27	ND	9.32	ND	LOQ	ND	6.44	22.64	51.5	ND	8.09	0.63	LOQ	LOQ	ND	0.59	ND	0.23	ND
	28	ND	8.6	ND	LOQ	ND	4.70	23.18	52.6	ND	9.38	0.48	LOQ	ND	ND	0.50	ND	LOQ	ND
	28	ND	9.59	ND	LOQ	ND	5.92	22.26	52.2	ND	8.24	0.53	LOQ	LOQ	ND	0.51	ND	LOQ	ND
	Min	-	8.6	-	-	-	4.70	21.12	51.5	-	7.69	0.48	-	-	-	0.440	-	-	-
	Max	-	9.59	-	-	-	6.71	23.18	53.4	-	9.40	0.63	-	-	-	0.59	-	0.23	-
Mpumalanga	N	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	29	ND	9.2	ND	LOQ	ND	5.91	22.00	51.3	ND	9.79	0.58	LOQ	ND	LOQ	0.53	ND	LOQ	ND
	30	ND	9.4	ND	LOQ	ND	5.76	22.98	51.6	ND	8.73	0.55	LOQ	ND	ND	0.48	ND	LOQ	ND
	30	ND	8.60	ND	LOQ	ND	5.70	22.42	52.3	ND	9.31	0.57	LOQ	ND	LOQ	0.56	ND	LOQ	ND
	31	ND	9.8	ND	LOQ	ND	5.95	23.33	52.2	ND	7.38	0.48	LOQ	ND	ND	0.383	ND	LOQ	ND
	32	ND	9.43	ND	LOQ	ND	5.79	23.08	52.1	ND	7.71	0.55	LOQ	LOQ	ND	0.59	ND	LOQ	ND
	33	ND	8.9	ND	LOQ	ND	5.56	22.69	52.6	ND	8.67	0.54	LOQ	ND	ND	0.49	ND	LOQ	ND
	Min	-	8.60	-	-	-	5.56	22.00	51.3	-	7.38	0.48	-	-	-	0.383	-	-	-
	Max	-	9.8	-	-	-	5.95	23.33	52.6	-	9.79	0.58	-	-	-	0.59	-	-	-
	N	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Gauteng	34	ND	9.43	ND	LOQ	ND	5.28	22.33	52.4	ND	8.87	0.48	LOQ	ND	ND	0.52	ND	LOQ	ND
	35	ND	10.61	LOQ	LOQ	ND	6.94	26.63	47.3	ND	6.69	0.56	LOQ	ND	ND	0.48	ND	LOQ	ND
KwaZulu-Natal	36	ND	10.12	ND	LOQ	ND	5.00	25.11	50.4	ND	7.60	0.47	LOQ	LOQ	ND	0.50	ND	LOQ	ND
	Min	-	8.60	-	-	-	4.70	21.12	47.3	-	6.69	0.47	-	-	-	0.383	-	-	-
RSA	Max	-	9.8	-	-	-	6.94	26.63	53.4	-	9.79	0.63	-	-	-	0.59	-	0.23	-
	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.
 Values below the limit of detection are reported as ND (not detected).
 Limit of quantitation (LOQ) = 0.28 g Fatty acid/100 g Fatty acids.
 Values below the limit of quantitation cannot be accurately quantified.