

Table 7: Fatty acid profile results of a selection of cultivar samples from the 2023/24 season																		
Province	Locality	Region	Cultivar	g Fatty acids/100 g Fatty Acids														
				C14:0	C16:0	C16:1	C17:0	C18:0	C18:1 cis	C18:1 n7+	C18:2 cis	C18:3 n6	C18:3 n3	C20:0	C20:1	C20:2	C22:0	C24:0
Northern Cape	Warrenton	11	NS 5258 R	LOQ	10.49	ND	LOQ	4.90	17.89	1.2	55.4	ND	9.0	0.354	0.148	ND	0.340	LOQ
			PAN 1521 R	LOQ	10.52	LOQ	LOQ	4.57	18.49	1.4	55.7	ND	8.1	0.399	0.147	ND	0.384	LOQ
			RA660 R	LOQ	9.61	LOQ	LOQ	4.61	20.31	1.3	54.4	ND	8.5	0.385	0.144	ND	0.390	LOQ
			DM 59160 RSF IPRO	LOQ	10.29	LOQ	LOQ	3.97	18.11	1.4	55.5	ND	9.4	0.344	LOQ	ND	0.394	LOQ
			LG60261PR	LOQ	11.0	LOQ	LOQ	4.30	18.27	1.3	53.8	ND	10.0	0.394	0.142	ND	0.415	LOQ
			Y657	LOQ	11.2	LOQ	LOQ	4.56	17.48	1.3	54.8	ND	9.3	0.405	LOQ	ND	0.453	LOQ
			Min	-	9.61	-	-	3.97	17.48	1.2	53.8	-	8.1	0.344	0.142	-	0.340	-
			Max	-	11.20	-	-	4.90	20.31	1.4	55.7	-	10.0	0.405	0.148	-	0.453	-
			N	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Free State	Bethlehem PD1	25	NS 5258 R	LOQ	9.85	LOQ	LOQ	6.07	23.30	1.4	51.5	ND	6.37	0.476	0.197	ND	0.431	0.213
			PAN 1521 R	LOQ	9.93	LOQ	LOQ	6.15	22.39	1.4	52.1	ND	6.21	0.580	0.200	ND	0.524	0.210
			RA 660 R	LOQ	9.35	LOQ	LOQ	6.03	23.80	1.3	52.2	ND	5.49	0.564	0.210	ND	0.500	0.218
			DM 59160 RSF IPRO	LOQ	9.96	LOQ	LOQ	5.43	22.04	1.5	52.9	ND	6.50	0.507	0.189	ND	0.513	0.201
			LG60261IPR	LOQ	10.32	ND	LOQ	5.61	23.10	1.3	50.8	ND	7.1	0.567	0.201	ND	0.539	0.211
			Y657	LOQ	10.75	LOQ	LOQ	5.60	22.32	1.3	51.7	ND	6.57	0.551	0.189	ND	0.555	0.206
			Min	-	9.4	-	-	5.43	22.04	1.3	50.8	-	5.49	0.476	0.189	-	0.431	0.201
			Max	-	10.8	-	-	6.15	23.80	1.5	52.9	-	7.1	0.580	0.210	-	0.555	0.218
			N	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
KwaZulu-Natal	Greytown Kranskop	36	NS 5258 R	LOQ	10.74	LOQ	LOQ	5.19	22.84	1.3	50.6	ND	8.0	0.386	0.159	ND	0.369	LOQ
			PAN 1521 R	LOQ	11.2	LOQ	LOQ	4.93	23.10	1.5	49.7	ND	8.1	0.448	0.154	ND	0.454	LOQ
			RA 660 R	LOQ	10.31	LOQ	LOQ	4.82	24.73	1.3	49.5	ND	7.9	0.427	0.155	ND	0.443	LOQ
			DM 59160 RSF IPRO	LOQ	11.2	LOQ	LOQ	5.36	23.31	1.7	49.6	ND	7.1	0.503	0.166	ND	0.577	0.168
			LG60261IPR	LOQ	11.8	LOQ	LOQ	5.61	23.26	1.4	47.6	ND	8.5	0.577	0.176	ND	0.644	0.170
			Y657	LOQ	11.7	LOQ	LOQ	5.33	22.13	1.4	49.6	ND	8.3	0.486	0.141	ND	0.506	LOQ
			Min	-	10.31	-	-	4.82	22.13	1.3	47.6	-	7.1	0.386	0.141	-	0.369	0.168
			Max	-	11.8	-	-	5.61	24.73	1.7	50.6	-	8.5	0.577	0.176	-	0.644	0.170
			N	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
RSA		Min	-	9.35	-	-	3.97	17.48	1.2	47.6	-	5.49	0.344	0.141	-	0.340	0.168	
		Max	-	11.8	-	-	6.15	24.73	1.7	55.7	-	10.0	0.580	0.210	-	0.644	0.218	
		N	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	

Note:
 All fatty acids marked with an asterisk (*) are not SANAS accredited.
 Limit of detection (LOD) = 0.06 g/100 g.
 Values below the limit of detection are reported as ND (not detected).
 Limit of quantitation (LOQ) = 0.14 g/100 g.
 Values below the limit of quantitation cannot be accurately quantified.