

Table 6: Fatty acid profile results of a selection of crop quality samples from the 2022/23 season

Province	Region	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 n5	C18:3 n3	C20:0	C20:1	C20:2	C22:0	C24:0	Unknown 1	Unknown 2	
North West	12	ND	5.98	ND	ND	5.99	16.56	0.52	68.9	ND	ND	LOQ	0.396	LOQ	ND	0.907	0.198	LOQ	LOQ	
	13	ND	6.61	ND	ND	6.14	14.91	0.55	68.6	ND	ND	LOQ	0.416	LOQ	ND	0.97	0.234	0.59	0.56	
	14	LOQ	6.54	ND	ND	5.05	19.06	0.57	66.6	ND	ND	LOQ	0.356	LOQ	ND	0.851	0.213	0.18	0.17	
	14	ND	6.27	ND	ND	5.86	17.05	0.53	68.0	ND	ND	LOQ	0.408	LOQ	ND	0.891	0.205	0.20	0.21	
	14	LOQ	6.06	ND	ND	4.27	27.01	0.56	60.0	ND	ND	LOQ	0.332	0.143	ND	0.832	0.257	LOQ	LOQ	
	17	LOQ	6.35	LOQ	LOQ	4.39	22.00	0.57	64.7	ND	ND	LOQ	0.322	LOQ	ND	0.805	0.219	0.16	0.15	
	18	ND	5.53	ND	LOQ	6.61	17.22	0.54	68.2	ND	ND	LOQ	0.375	LOQ	ND	0.759	0.168	LOQ	LOQ	
	19	LOQ	6.00	ND	ND	5.80	20.13	0.53	65.4	ND	ND	LOQ	0.370	LOQ	ND	0.833	0.209	0.19	0.17	
	20	ND	5.93	ND	ND	5.83	17.27	0.48	68.2	ND	ND	LOQ	0.406	LOQ	ND	0.95	0.212	0.16	0.16	
		Min	-	5.53	-	-	4.27	14.91	0.48	60.0	-	-	0.322	-	-	0.759	0.168	0.16	0.16	0.15
	Max	-	6.61	-	-	6.61	27.01	0.57	68.9	-	-	0.416	0.143	-	0.97	0.257	0.59	0.59	0.56	
Free State	N	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	21	LOQ	6.21	ND	ND	5.11	18.78	0.49	67.2	ND	ND	LOQ	0.348	LOQ	ND	0.828	0.224	0.23	0.21	
	23	ND	5.86	ND	ND	6.85	15.14	0.44	69.3	ND	ND	LOQ	0.414	LOQ	ND	0.881	0.211	0.28	0.27	
	24	LOQ	6.38	ND	ND	4.52	20.32	0.51	66.0	ND	ND	LOQ	0.339	LOQ	ND	0.873	0.237	0.25	0.23	
	24	ND	5.85	LOQ	ND	8.39	14.28	0.52	68.1	ND	ND	LOQ	0.516	LOQ	ND	1.06	0.227	0.37	0.36	
	25	LOQ	6.65	ND	ND	4.41	18.45	0.58	68.0	ND	ND	LOQ	0.313	LOQ	ND	0.786	0.200	LOQ	LOQ	
	26	ND	6.06	ND	ND	5.96	15.02	0.55	70.3	ND	ND	LOQ	0.379	LOQ	ND	0.895	0.205	LOQ	LOQ	
	27	ND	6.63	ND	ND	6.15	18.86	0.58	65.1	ND	ND	LOQ	0.471	LOQ	ND	1.22	0.337	LOQ	LOQ	
	28	ND	6.24	ND	ND	5.85	18.28	0.52	67.1	ND	ND	LOQ	0.401	LOQ	ND	0.898	0.200	LOQ	LOQ	
		Min	-	5.85	-	-	4.41	14.28	0.44	65.13	-	-	0.313	-	-	0.786	0.200	-	-	0.21
	Max	-	6.65	-	-	8.39	20.32	0.58	70.31	-	-	0.516	0.147	-	1.22	0.337	0.37	0.37	0.36	
Mpumalanga	N	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	29	LOQ	6.23	ND	ND	5.35	19.44	0.53	66.2	ND	ND	LOQ	0.359	LOQ	ND	0.855	0.217	0.24	0.24	
	35	LOQ	6.62	LOQ	ND	5.27	18.80	0.59	66.4	ND	ND	LOQ	0.362	LOQ	ND	0.841	0.202	0.29	0.28	
	35	LOQ	6.01	LOQ	ND	4.45	25.29	0.55	61.6	ND	ND	LOQ	0.308	0.141	ND	0.691	0.195	0.28	0.27	
Limpopo	Min	-	6.01	-	-	4.45	18.80	0.55	61.6	-	-	0.308	-	-	0.691	0.195	0.28	0.28	0.27	
	Max	-	6.62	-	-	5.27	25.29	0.59	66.4	-	-	0.362	0.141	-	0.841	0.202	0.29	0.29	0.28	
	N	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Min	-	5.53	-	-	4.27	14.28	0.44	60.01	-	-	0.308	-	-	0.691	0.168	0.16	0.16	0.15	
RSA	Max	-	6.65	-	-	8.39	27.01	0.59	70.31	-	-	0.516	0.147	-	1.22	0.337	0.59	0.59	0.56	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

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.