

Table 7: Fatty acid profile results of a selection of cultivar samples from the 2022/23 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 n5	C18:3 n3	C20:0	C20:1	C20:2	C22:0	C24:0	Unknown 1	Unknown 2	
North West	Potchefstroom 3		18	AGSUN 5106 CLP	LOQ	6.18	LOQ	ND	5.28	18.47	0.61	67.4	ND	LOQ	0.326	LOQ	ND	0.784	0.211	0.18	0.17	
			18	AGSUN 5270	ND	5.71	ND	4.80	21.72	0.54	65.4	ND	LOQ	0.298	LOQ	0.298	LOQ	0.748	0.215	LOQ	LOQ	
			18	P 65 LP 65	LOQ	6.47	ND	4.52	20.36	0.55	66.0	ND	LOQ	0.329	LOQ	0.329	LOQ	0.841	0.217	0.15	0.15	
			18	PAN 7160 CLP	ND	5.66	ND	5.49	22.42	0.45	63.8	ND	LOQ	0.396	LOQ	0.396	LOQ	0.939	0.228	LOQ	LOQ	
			18	SY 3970 CL	ND	5.43	ND	6.07	21.47	0.45	64.3	ND	LOQ	0.391	LOQ	0.391	LOQ	0.975	0.238	0.19	0.17	
				<i>Min</i>	-	5.43	-	4.52	18.47	0.45	63.8	-	-	-	0.298	-	-	-	0.748	0.211	0.15	0.15
		<i>Max</i>	-	6.47	-	6.07	22.42	0.61	67.4	-	-	-	0.396	-	-	-	0.975	0.238	0.19	0.17		
		<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		18	AGSUN 5106 CLP	ND	5.83	ND	LOQ	7.10	14.77	0.57	69.6	ND	LOQ	0.421	LOQ	0.421	LOQ	0.849	0.192	0.15	0.15	
		18	AGSUN 5270	ND	5.80	LOQ	ND	6.09	16.06	0.54	69.4	ND	LOQ	0.375	LOQ	0.375	LOQ	0.845	0.221	0.15	0.15	
		18	P 65 LP 65	ND	5.56	ND	ND	5.87	16.16	0.44	69.9	ND	LOQ	0.382	LOQ	0.382	LOQ	0.866	0.201	0.15	0.14	
		18	PAN 7160 CLP	ND	5.63	ND	ND	5.90	17.00	0.47	68.9	ND	LOQ	0.395	LOQ	0.395	LOQ	0.888	0.203	LOQ	0.14	
		18	SY 3970 CL	ND	5.15	ND	ND	6.64	15.49	0.43	70.0	ND	LOQ	0.413	LOQ	0.413	LOQ	0.980	0.212	0.14	LOQ	
			<i>Min</i>	-	5.15	-	5.87	14.77	0.43	68.9	-	-	-	0.375	-	-	-	0.845	0.192	0.14	0.14	
			<i>Max</i>	-	5.83	-	7.10	17.00	0.57	70.0	-	-	-	0.421	-	-	-	0.980	0.221	0.15	0.15	
			<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Free State	Boskop 3		18	AGSUN 5106 CLP	ND	5.22	ND	LOQ	7.02	15.22	0.46	70.0	ND	LOQ	0.427	LOQ	0.900	0.182	LOQ	LOQ	
				18	AGSUN 5270	ND	5.15	ND	6.74	17.51	0.44	68.1	ND	LOQ	0.415	LOQ	0.415	LOQ	0.907	0.200	LOQ	LOQ
18				P 65 LP 65	ND	5.48	ND	LOQ	5.79	15.91	0.44	70.4	ND	LOQ	0.382	LOQ	0.382	LOQ	0.864	0.192	LOQ	LOQ
18				PAN 7160 CLP	ND	5.53	ND	ND	6.25	15.78	0.47	69.8	ND	LOQ	0.433	LOQ	0.433	LOQ	0.940	0.195	LOQ	LOQ
18				SY 3970 CL	ND	4.93	ND	ND	6.93	17.32	0.41	68.2	ND	LOQ	0.439	LOQ	0.439	LOQ	1.02	0.205	LOQ	LOQ
				<i>Min</i>	-	4.93	-	5.79	15.22	0.41	68.1	-	-	-	0.382	-	-	-	0.864	0.182	-	-
		<i>Max</i>	-	5.53	-	7.02	17.51	0.47	70.4	-	-	-	0.439	-	-	-	1.02	0.205	-	-		
		<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
			<i>Min</i>	-	4.93	-	4.52	14.77	0.41	63.8	-	-	-	0.298	-	-	-	0.748	0.182	0.14	0.14	
			<i>Max</i>	-	6.47	-	7.10	22.42	0.61	70.4	-	-	-	0.439	-	-	-	1.02	0.238	0.19	0.17	
			<i>N</i>	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
		26	AGSUN 5106 CLP	LOQ	6.36	LOQ	ND	4.48	14.98	0.66	71.6	ND	LOQ	0.320	LOQ	0.320	LOQ	0.746	0.247	LOQ	LOQ	
	26	AGSUN 5270	LOQ	6.36	LOQ	ND	4.48	14.97	0.66	71.6	ND	LOQ	0.320	LOQ	0.320	LOQ	0.745	0.247	ND	ND		
	26	P 65 LP 65	LOQ	6.81	LOQ	ND	4.25	15.95	0.61	70.5	ND	LOQ	0.312	LOQ	0.312	LOQ	0.774	0.214	LOQ	LOQ		
	26	PAN 7160 CLP	LOQ	6.84	ND	ND	4.10	16.07	0.62	70.4	ND	LOQ	0.314	LOQ	0.314	LOQ	0.791	0.220	ND	ND		
	26	SY 3970 CL	LOQ	6.59	LOQ	ND	4.53	14.29	0.67	71.6	ND	LOQ	0.346	LOQ	0.346	LOQ	0.95	0.251	ND	ND		
		<i>Min</i>	-	6.36	-	-	4.10	14.29	0.61	70.4	-	-	0.312	-	-	-	0.745	0.214	-	-		
		<i>Max</i>	-	6.84	-	-	4.53	16.07	0.67	71.6	-	-	0.346	-	-	-	0.95	0.251	-	-		
		<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
RSA				<i>Min</i>	-	4.93	-	4.10	14.29	0.41	63.8	-	-	0.298	-	-	-	0.745	0.182	0.14	0.14	
				<i>Max</i>	-	6.84	-	7.10	22.42	0.67	71.6	-	-	-	0.439	-	-	1.02	0.251	0.19	0.17	
				<i>N</i>	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	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.