

**Table 8: Fatty acid profile results of a selection of cultivar samples from the 2022/23 season**

Province	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	18	AGSUN 5106 CLP	LOQ	6.18	LOQ	ND	5.28	18.47	0.61	67.4	ND	ND	LOQ	0.326	LOQ	ND	0.784	0.211	0.18	0.17
			ND	5.83	ND	LOQ	7.10	14.77	0.57	69.6	ND	ND	LOQ	0.421	LOQ	ND	0.849	0.192	0.15	0.15
Free State	26		ND	5.22	ND	LOQ	7.02	15.22	0.46	70.0	ND	ND	LOQ	0.427	LOQ	ND	0.900	0.182	LOQ	LOQ
			LOQ	6.36	LOQ	ND	4.48	14.98	0.66	71.6	ND	ND	LOQ	0.320	LOQ	ND	0.746	0.247	LOQ	LOQ
	<i>Min</i>		5.22			4.48	14.77	0.46	67.4				0.320			0.746	0.182	0.15	0.15	
	<i>Max</i>		6.36			7.10	18.47	0.66	71.6				0.427			0.900	0.247	0.18	0.17	
	<i>N</i>		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
North West	18	AGSUN 5270	ND	5.71	ND	ND	4.80	21.72	0.54	65.4	ND	ND	LOQ	0.298	LOQ	ND	0.748	0.215	LOQ	LOQ
			ND	5.80	LOQ	ND	6.09	16.06	0.54	69.4	ND	ND	LOQ	0.375	LOQ	ND	0.845	0.221	0.15	0.15
Free State	26		ND	5.15	ND	LOQ	6.74	17.51	0.44	68.1	ND	ND	LOQ	0.415	LOQ	ND	0.907	0.200	LOQ	LOQ
			LOQ	6.36	LOQ	ND	4.48	14.97	0.66	71.6	ND	0.27	LOQ	0.320	LOQ	ND	0.745	0.247	ND	ND
	<i>Min</i>		5.15			4.48	14.97	0.44	65.4				0.298			0.745	0.200			
	<i>Max</i>		6.36			6.74	21.72	0.66	71.6				0.415			0.907	0.247	0.15	0.15	
	<i>N</i>		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
North West	18	AGSUN 5270	LOQ	6.47	ND	ND	4.52	20.36	0.55	66.0	ND	ND	LOQ	0.329	LOQ	ND	0.841	0.217	0.15	0.15
			ND	5.56	ND	ND	5.87	16.16	0.44	69.9	ND	ND	LOQ	0.382	LOQ	ND	0.866	0.201	0.15	0.14
Free State	26		ND	5.48	ND	LOQ	5.79	15.91	0.44	70.4	ND	ND	LOQ	0.382	LOQ	ND	0.864	0.192	LOQ	LOQ
			LOQ	6.81	LOQ	ND	4.25	15.95	0.61	70.5	ND	ND	LOQ	0.312	LOQ	ND	0.774	0.214	LOQ	LOQ
	<i>Min</i>		5.48			4.25	15.91	0.44	66.0				0.312			0.774	0.192	0.15	0.14	
	<i>Max</i>		6.81			5.87	20.36	0.61	70.5				0.382			0.866	0.217	0.15	0.15	
	<i>N</i>		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
North West	18	AGSUN 5270	ND	5.66	ND	ND	5.49	22.42	0.45	63.8	ND	ND	LOQ	0.396	LOQ	ND	0.939	0.226	LOQ	LOQ
			ND	5.63	ND	ND	5.90	17.00	0.47	68.9	ND	ND	LOQ	0.395	LOQ	ND	0.898	0.203	LOQ	LOQ
Free State	26		ND	5.53	ND	ND	6.25	15.78	0.47	69.8	ND	ND	LOQ	0.433	LOQ	ND	0.940	0.195	LOQ	LOQ
			LOQ	6.84	ND	ND	4.10	16.07	0.62	70.4	ND	0.23	LOQ	0.314	LOQ	ND	0.791	0.220	ND	ND
	<i>Min</i>		5.53			4.10	15.78	0.45	63.8				0.314			0.791	0.195			
	<i>Max</i>		6.84			6.25	22.42	0.62	70.4				0.433			0.940	0.226		0.14	
	<i>N</i>		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
North West	18	AGSUN 5270	ND	5.43	ND	ND	6.07	21.47	0.45	64.3	ND	ND	LOQ	0.391	LOQ	ND	0.975	0.238	0.19	0.17
			ND	5.15	ND	ND	6.64	15.49	0.43	70.0	ND	ND	LOQ	0.413	LOQ	ND	0.980	0.212	0.14	LOQ
Free State	26		ND	4.93	ND	ND	6.93	17.32	0.41	68.2	ND	ND	LOQ	0.439	LOQ	ND	1.02	0.205	LOQ	LOQ
			LOQ	6.59	LOQ	ND	4.53	14.29	0.67	71.6	ND	0.33	LOQ	0.346	LOQ	ND	0.95	0.251	ND	ND
	<i>Min</i>		4.93			4.53	14.29	0.41	64.3				0.346			0.95	0.205	0.14		
	<i>Max</i>		6.59			6.93	21.47	0.67	71.6				0.439			1.02	0.251	0.19	0.17	
	<i>N</i>		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
RSA		<i>Min</i>		4.93			4.10	14.29	0.41	63.8				0.298			0.745	0.182	0.14	0.14
				6.84			7.10	22.42	0.67	71.6				0.439			1.02	0.251	0.19	0.17
		<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	

**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.