

Table 7: Fatty acid profile results of a selection of cultivar samples from the 2021/22 season

Province	Locality	Region	Cultivar	g Fatty acids/100 g Fatty Acids																		Unknown							
				C14:0	C16:0	C16:1	C17:0	C17:1	C18:0	C18:1	C18:1 t	C18:1 c	C18:1 n7	C18:2 t	C18:2 c	C18:3n6	C18:3n5	C18:3n3	C20:0	C20:1	C20:2		C20:5	C21:0	C22:0	C22:1	C24:0	C24:1	
North West	Potchefstroom 3	18	AGSUN 5106 CLP	ND	4.71	ND	ND	ND	5.59	ND	24.65	0.52	ND	62.0	ND	ND	ND	0.429	LOQ	ND	LOQ	ND	1.03	ND	0.291	ND	LOQ		
			AGSUN 8251	ND	4.69	ND	ND	5.82	ND	25.52	0.48	ND	60.9	ND	ND	ND	ND	ND	0.448	LOQ	ND	LOQ	ND	1.06	ND	0.33	ND	LOQ	
			Aguara 6	ND	4.38	ND	LOQ	ND	4.22	ND	22.39	0.55	ND	65.8	ND	ND	ND	ND	0.390	LOQ	ND	LOQ	ND	0.97	ND	0.34	ND	LOQ	
			P 65 LL 14	ND	4.78	ND	ND	5.33	ND	23.37	0.48	ND	63.5	ND	ND	ND	ND	ND	0.425	LOQ	ND	LOQ	ND	1.04	ND	0.31	ND	LOQ	
			PAN 7180 CLP	ND	5.49	ND	ND	4.85	ND	21.54	0.55	ND	64.8	ND	ND	ND	ND	ND	0.437	LOQ	ND	LOQ	ND	1.13	ND	0.32	ND	LOQ	
			SY 3970 CL	ND	4.78	ND	ND	5.50	ND	25.03	0.51	ND	61.3	ND	ND	ND	ND	ND	0.48	LOQ	ND	LOQ	ND	1.27	ND	0.34	ND	LOQ	
			<i>Min</i>	-	4.38	-	-	4.22	-	21.54	0.48	-	60.9	-	-	-	-	-	0.390	-	-	-	-	0.97	-	0.291	-	-	
			<i>Max</i>	-	5.49	-	-	5.82	-	25.52	0.55	-	65.8	-	-	-	-	-	0.48	-	-	-	-	1.27	-	0.34	-	-	
			<i>N</i>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
			Free State	Wesselsbron	23	AGSUN 5106 CLP	ND	4.44	ND	LOQ	ND	8.70	ND	14.26	0.49	ND	69.2	ND	ND	ND	0.63	LOQ	ND	LOQ	ND	1.29	ND	0.281	ND
AGSUN 8251	ND	4.77				ND	ND	8.36	ND	13.48	0.47	ND	70.3	ND	ND	ND	ND	ND	0.57	LOQ	ND	LOQ	ND	1.06	ND	0.281	ND	LOQ	
Aguara 6	ND	4.52				ND	ND	6.55	ND	15.92	0.52	ND	70.1	ND	ND	ND	ND	ND	0.49	LOQ	ND	LOQ	ND	1.04	ND	0.285	ND	LOQ	
P 65 LL 14	ND	5.00				ND	ND	6.59	ND	13.82	0.46	ND	71.7	ND	ND	ND	ND	ND	0.49	LOQ	ND	LOQ	ND	1.08	ND	0.299	ND	LOQ	
PAN 7180 CLP	ND	5.81				ND	ND	6.04	ND	14.57	0.56	ND	70.5	ND	ND	ND	ND	ND	0.53	LOQ	ND	LOQ	ND	1.04	ND	LOQ	ND	ND	
SY 3970 CL	ND	5.31				ND	ND	6.82	ND	13.89	0.53	ND	70.8	ND	ND	ND	ND	ND	0.53	LOQ	ND	LOQ	ND	1.26	ND	0.280	ND	ND	
<i>Min</i>	-	4.44				-	-	6.04	-	13.48	0.46	-	69.2	-	-	-	-	-	0.49	-	-	-	-	1.04	-	0.280	-	-	
<i>Max</i>	-	5.81				-	-	8.70	-	15.92	0.58	-	71.7	-	-	-	-	-	0.63	-	-	-	-	1.29	-	0.299	-	-	
<i>N</i>	6	6				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Free State	Steynsrus	26				AGSUN 5106 CLP	ND	4.23	ND	LOQ	ND	5.59	ND	32.19	0.49	ND	54.9	ND	ND	ND	0.463	LOQ	ND	LOQ	ND	1.12	ND	0.30	ND
			AGSUN 8251	ND	4.27	ND	LOQ	ND	5.84	ND	33.06	0.45	ND	53.7	ND	ND	ND	0.48	LOQ	ND	LOQ	ND	1.14	ND	0.36	ND	LOQ		
			Aguara 6	ND	3.83	ND	ND	4.42	ND	31.76	0.51	ND	57.0	ND	ND	ND	ND	0.399	LOQ	ND	LOQ	ND	0.98	ND	0.33	ND	LOQ		
			P 65 LL 14	ND	4.81	ND	ND	4.77	ND	22.85	0.53	ND	64.6	ND	ND	ND	ND	0.399	LOQ	ND	LOQ	ND	0.98	ND	0.33	ND	LOQ		
			PAN 7180 CLP	ND	5.60	ND	ND	6.23	ND	14.49	0.55	ND	70.6	ND	ND	ND	ND	0.465	LOQ	ND	LOQ	ND	1.02	ND	LOQ	ND	LOQ		
			SY 3970 CL	ND	4.52	ND	ND	7.36	ND	15.00	0.43	ND	70.0	ND	ND	ND	ND	0.52	LOQ	ND	LOQ	ND	1.22	ND	LOQ	ND	LOQ		
			<i>Min</i>	-	3.83	-	-	4.42	-	14.49	0.43	-	53.7	-	-	-	-	0.399	-	-	-	-	-	0.98	-	0.30	-	-	
			<i>Max</i>	-	5.60	-	-	7.36	-	33.06	0.55	-	70.6	-	-	-	-	0.52	-	-	-	-	-	1.22	-	0.36	-	-	
			<i>N</i>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
			Free State	Steynsrus	N	<i>Min</i>	-	3.83	-	-	4.42	-	14.49	0.43	-	53.7	-	-	-	0.399	-	-	-	-	0.98	-	0.30	-	-
<i>Max</i>	-	5.81				-	-	8.70	-	33.06	0.58	-	71.7	-	-	-	0.63	-	-	-	-	-	1.29	-	0.36	-	-		
<i>N</i>	12	12				12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
Free State	Steynsrus	N	<i>Min</i>	-	3.83	-	-	4.22	-	13.48	0.43	-	53.7	-	-	-	0.390	-	-	-	-	0.97	-	0.280	-	-			
			<i>Max</i>	-	5.81	-	-	8.70	-	33.06	0.58	-	71.7	-	-	-	0.63	-	-	-	-	-	1.29	-	0.36	-	-		
			<i>N</i>	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		

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.