

Table 7: Fatty acid profile results of a selection of cultivar samples from the 2020/21 season

Province	Locality	Region	Cultivar	g Fatty acids/100 g Fatty Acids																		
				C14:0	C16:0	C16:1	C17:0	C17:1	C18:0	C18:1 c	C18:2 c	C18:3n6	C18:3n5	C18:3n3	C20:0	C20:1	C20:2	C21:0	C22:0	C24:0	C24:1	
North West	Potchefstroom 1	18	AGSUN 5106 CLP	ND	5.15	ND	ND	ND	6.100	25.78	60.7	ND	0.34	ND	0.388	LOQ	ND	ND	0.90	LOQ	ND	
			AGSUN 8251	ND	5.21	ND	ND	6.67	25.40	60.4	ND	0.37	ND	0.428	LOQ	ND	ND	ND	0.90	LOQ	ND	
			P 65 LL 14	ND	5.55	ND	ND	5.18	22.77	64.3	ND	0.36	ND	0.365	LOQ	ND	ND	ND	0.85	LOQ	ND	
			SY 3970 CL	ND	5.89	ND	ND	4.972	21.15	65.5	ND	0.47	LOQ	0.364	LOQ	ND	ND	ND	0.98	LOQ	ND	
			Aguara 6	ND	5.22	ND	ND	4.282	24.65	63.7	ND	0.45	ND	0.321	LOQ	ND	ND	ND	0.75	LOQ	ND	
			PAN 7180 CLP	ND	5.76	ND	ND	5.344	24.80	61.9	ND	LOQ	ND	0.392	LOQ	ND	ND	ND	0.91	LOQ	ND	
			<i>Min</i>	-	5.15	-	-	4.282	21.15	60.4	-	0.34	-	0.321	-	-	-	-	-	0.75	-	-
			<i>Max</i>	-	5.89	-	-	6.67	25.78	65.5	-	0.47	-	0.428	-	-	-	-	-	0.98	-	-
			<i>N</i>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Potchefstroom 2	18	AGSUN 5106 CLP	ND	6.01	ND	ND	ND	5.175	21.00	65.7	ND	0.43	ND	0.339	LOQ	ND	ND	0.75	LOQ	ND	
			AGSUN 8251	ND	5.75	ND	ND	5.805	21.68	64.7	ND	0.36	ND	0.374	LOQ	ND	ND	ND	0.77	LOQ	ND	
			P 65 LL 14	ND	6.38	ND	ND	4.718	19.45	67.3	ND	0.39	ND	0.343	LOQ	ND	ND	ND	0.80	LOQ	ND	
			SY 3970 CL	ND	6.57	ND	ND	4.020	17.53	69.5	ND	0.54	LOQ	0.326	LOQ	ND	ND	ND	0.89	LOQ	ND	
			Aguara 6	ND	5.57	ND	ND	4.043	21.43	66.8	ND	0.46	ND	0.312	LOQ	ND	ND	ND	0.69	LOQ	ND	
			PAN 7180 CLP	ND	6.77	ND	ND	4.554	20.24	66.2	ND	0.34	LOQ	0.353	LOQ	ND	ND	ND	0.83	LOQ	ND	
			<i>Min</i>	-	5.57	-	-	4.020	17.53	64.7	-	0.34	-	0.312	-	-	-	-	-	0.69	-	-
			<i>Max</i>	-	6.77	-	-	5.805	21.68	69.5	-	0.54	-	0.374	-	-	-	-	-	0.89	-	-
			<i>N</i>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Potchefstroom 3	18	AGSUN 5106 CLP	ND	6.37	ND	ND	ND	4.957	18.67	67.9	ND	0.41	ND	0.322	LOQ	ND	ND	0.72	LOQ	ND	
			AGSUN 8251	ND	6.32	ND	ND	5.135	18.14	68.3	ND	0.43	ND	0.333	LOQ	ND	ND	ND	0.71	LOQ	ND	
			P 65 LL 14	ND	6.72	ND	ND	4.545	17.04	69.6	ND	0.37	ND	0.338	LOQ	ND	ND	ND	0.79	LOQ	ND	
			SY 3970 CL	ND	6.84	ND	ND	4.452	19.52	66.9	ND	0.37	LOQ	0.368	LOQ	ND	ND	ND	0.93	LOQ	ND	
			Aguara 6	ND	5.53	ND	ND	4.195	20.76	67.3	ND	0.49	ND	0.315	LOQ	ND	ND	ND	0.73	LOQ	ND	
			PAN 7180 CLP	ND	7.01	ND	ND	4.300	19.29	67.2	ND	0.35	ND	0.341	LOQ	ND	ND	ND	0.83	LOQ	ND	
<i>Min</i>			-	5.53	-	-	4.195	17.04	66.9	-	0.35	-	0.315	-	-	-	-	-	0.71	-	-	
<i>Max</i>			-	7.01	-	-	5.135	20.76	69.6	-	0.49	-	0.368	-	-	-	-	-	0.93	-	-	
<i>N</i>			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Potchefstroom 4	18	AGSUN 5106 CLP	ND	6.21	ND	ND	ND	7.20	15.52	68.9	ND	0.34	ND	0.423	LOQ	ND	ND	0.83	LOQ	ND		
		AGSUN 8251	ND	6.03	ND	ND	7.49	14.66	69.6	ND	0.36	ND	0.442	LOQ	ND	ND	ND	0.79	LOQ	ND		
		P 65 LL 14	ND	6.79	ND	ND	5.440	14.25	71.3	ND	LOQ	LOQ	0.384	LOQ	ND	ND	ND	0.88	LOQ	ND		
		SY 3970 CL	ND	6.50	ND	ND	5.942	13.77	71.3	ND	0.37	LOQ	0.433	LOQ	ND	ND	ND	1.06	LOQ	ND		
		Aguara 6	ND	5.52	ND	ND	5.202	16.51	70.6	ND	0.35	LOQ	0.359	LOQ	ND	ND	ND	0.80	LOQ	ND		
		PAN 7180 CLP	ND	6.88	ND	ND	5.974	16.80	68.2	ND	0.29	LOQ	0.425	LOQ	ND	ND	ND	0.94	LOQ	ND		
		<i>Min</i>	-	5.52	-	-	5.202	13.77	68.2	-	0.29	-	0.359	-	-	-	-	-	0.79	-	-	
		<i>Max</i>	-	6.88	-	-	7.49	16.60	71.3	-	0.37	-	0.442	-	-	-	-	-	1.06	-	-	
		<i>N</i>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	

Table 7: Fatty acid profile results of a selection of cultivar samples from the 2020/21 season (continue)

Province	Locality	Region	Cultivar	g Fatty acids/100 g Fatty Acids																				
				C14:0	C16:0	C16:1	C17:0	C17:1	C18:0	C18:1 c	C18:2 c	C18:3n6	C18:3n5	C18:3n3	C20:0	C20:1	C20:2	C21:0	C22:0	C24:0	C24:1			
North West	Potchefstroom 5	18	AGSUN 5106 CLP	ND	5.78	ND	ND	ND	9.13	14.66	68.2	ND	LOQ	LOQ	LOQ	0.529	LOQ	ND	ND	0.90	LOQ	ND		
			AGSUN 8251	ND	5.80	ND	ND	ND	9.10	13.78	69.1	ND	LOQ	LOQ	LOQ	0.529	LOQ	ND	ND	0.87	LOQ	ND		
			P 65 LL 14	ND	6.17	ND	ND	ND	7.70	13.92	69.9	ND	LOQ	LOQ	LOQ	0.491	LOQ	ND	ND	0.96	LOQ	ND		
			SY 3970 CL	ND	5.88	ND	ND	ND	8.37	13.86	69.5	ND	0.30	LOQ	LOQ	LOQ	0.527	LOQ	ND	ND	1.03	LOQ	ND	
			Aguara 6	ND	5.23	ND	ND	ND	6.82	15.55	70.2	ND	0.30	LOQ	LOQ	LOQ	0.429	LOQ	ND	ND	0.86	LOQ	ND	
			PAN 7180 CLP	ND	6.26	ND	ND	ND	7.48	15.09	68.9	ND	LOQ	LOQ	LOQ	LOQ	0.490	LOQ	ND	ND	0.94	LOQ	ND	
					<i>Min</i>	5.23	-	-	-	6.82	13.78	68.2	-	0.30	-	-	0.429	-	-	-	0.86	-	-	
					<i>Max</i>	6.26	-	-	-	9.13	15.55	70.2	-	0.30	-	-	0.529	-	-	-	1.03	-	-	
					<i>N</i>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
			<i>Min</i>	-	5.15	-	-	4.020	13.77	60.4	-	0.29	-	-	0.312	-	-	-	0.69	-	-			
			<i>Max</i>	-	7.01	-	-	9.13	25.78	71.3	-	0.54	-	-	0.529	-	-	-	1.06	-	-			
			<i>N</i>	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		

Note:
 Limit of detection (LOD) = 0.09 g Fatty acid/100 g Fatty acids.
 Limit of quantitation (LOQ) = 0.28 g Fatty acid/100 g Fatty acids.
 Values below the limit of quantitation cannot be accurately quantified.
 ND = Not detected