

Table 7: Fatty acid profile results of a selection of cultivar samples from the 2019/20 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	5.38	ND	ND	ND	4.44	28.36	59.8	ND	ND	0.41	<LOQ	ND	ND	0.81	<LOQ	ND		
			AGSUN 8251	ND	4.80	ND	ND	ND	5.25	33.5	54.6	ND	ND	0.45	<LOQ	ND	ND	0.90	<LOQ	ND		
			P 65 LL14	ND	5.96	ND	ND	ND	3.94	22.15	66.0	ND	0.26	ND	0.42	<LOQ	ND	ND	0.78	<LOQ	ND	
			PAN 7170	ND	5.71	ND	ND	ND	3.57	23.50	65.5	ND	<LOQ	ND	0.38	<LOQ	ND	ND	0.78	<LOQ	ND	
			SY 3975 CLOH	0.00	3.13	ND	ND	ND	3.61	86.4	4.43	ND	ND	<LOQ	0.36	<LOQ	ND	ND	1.32	0.38	ND	
			<i>Min</i>	-	3.13	-	-	-	3.37	22.15	4.43	-	-	-	0.36	-	-	-	-	0.78	-	-
	<i>Max</i>	-	5.96	-	-	-	5.25	86.4	66.0	-	-	-	0.45	-	-	-	-	1.32	0.38	-		
	<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	Potchefstroom 3	18	18	AGSUN 5106 CLP	ND	5.16	ND	ND	ND	6.05	21.16	65.7	ND	ND	0.49	<LOQ	ND	ND	0.93	<LOQ	ND	
				AGSUN 8251	ND	5.25	ND	ND	ND	6.37	22.36	64.0	ND	<LOQ	ND	0.53	<LOQ	ND	ND	0.88	<LOQ	ND
				P 65 LL14	ND	5.66	ND	ND	ND	5.08	18.08	69.1	ND	<LOQ	<LOQ	0.49	<LOQ	ND	ND	0.85	<LOQ	ND
				PAN 7170	ND	5.11	ND	ND	ND	4.71	20.67	67.5	ND	0.20	<LOQ	0.45	<LOQ	ND	ND	0.88	<LOQ	ND
				SY 3975 CLOH	ND	3.03	ND	ND	ND	5.02	82.4	6.75	ND	ND	<LOQ	0.47	<LOQ	ND	ND	1.60	0.39	ND
				<i>Min</i>	-	3.03	-	-	-	4.71	18.08	6.75	-	-	-	0.45	-	-	-	-	0.85	-
	<i>Max</i>	-	5.66	-	-	-	6.37	82.4	69.1	-	-	-	0.53	-	-	-	-	1.60	0.39	-		
<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Free State	Potchefstroom 5	18	AGSUN 5106 CLP	ND	6.39	ND	ND	ND	8.12	14.39	66.6	ND	ND	0.77	<LOQ	ND	ND	1.02	<LOQ	ND		
			AGSUN 8251	ND	6.38	ND	ND	ND	8.42	11.81	71.1	ND	0.03	<LOQ	0.78	<LOQ	ND	ND	0.92	<LOQ	ND	
			P 65 LL14	ND	6.26	ND	ND	ND	8.42	14.13	68.9	ND	ND	<LOQ	0.77	ND	ND	ND	1.13	0.29	ND	
			PAN 7170	ND	6.33	ND	ND	ND	7.74	14.72	68.9	ND	ND	<LOQ	0.70	<LOQ	ND	ND	1.08	<LOQ	ND	
			SY 3975 CLOH	ND	4.02	ND	ND	ND	7.57	71.2	13.98	ND	0.00	<LOQ	0.70	<LOQ	ND	ND	1.81	0.38	ND	
			<i>Min</i>	-	4.02	-	-	-	7.57	11.81	13.98	-	-	-	0.70	-	-	-	-	0.92	0.29	-
	<i>Max</i>	-	6.39	-	-	-	8.42	71.2	71.1	-	-	-	0.78	-	-	-	-	1.81	0.38	-		
	<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	Kroonstad	24	18	AGSUN 5106 CLP	ND	5.81	ND	ND	ND	9.15	11.68	71.0	ND	ND	0.76	<LOQ	ND	ND	1.05	<LOQ	ND	
				AGSUN 8251	ND	6.17	ND	ND	ND	8.62	9.53	73.5	ND	ND	0.73	<LOQ	ND	ND	0.91	<LOQ	ND	
				P 65 LL14	ND	5.79	ND	ND	ND	8.00	11.8	72.2	ND	ND	0.68	<LOQ	ND	ND	0.98	<LOQ	ND	
				PAN 7170	ND	6.01	ND	ND	ND	6.52	12.68	72.7	ND	ND	0.58	<LOQ	ND	ND	0.94	<LOQ	ND	
				SY 3975 CLOH	ND	3.29	ND	ND	ND	6.99	76.3	10.42	ND	ND	0.63	<LOQ	ND	ND	1.69	0.35	ND	
				<i>Min</i>	-	3.29	-	-	-	6.52	9.53	10.42	-	-	-	0.58	-	-	-	-	0.91	-
	<i>Max</i>	-	6.17	-	-	-	9.15	76.3	73.5	-	-	-	0.76	-	-	-	-	1.69	0.35	-		
<i>N</i>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
RSA	Potchefstroom 5	18	<i>Min</i>	-	3.03	-	-	-	3.57	9.53	4.43	-	0.03	-	0.36	-	-	0.78	0.29	-		
			<i>Max</i>	-	6.39	-	-	-	9.15	86.4	73.5	-	0.26	-	0.78	-	-	1.81	0.39	-		
			<i>N</i>	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	

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