

Table 7: Fatty acid profile results of a selection of cultivar samples from the 2018/19 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 t	C18:1 c	C18:2 t	C18:2 c	C18:3n6	C18:3n3	C20:0	C20:1	C20:2	C21:0	C22:0	C22:1	C24:0	C24:1
North West	Potchefstroom 1	18	AGSUN 5106 CLP	ND	6.02	ND	ND	4.28	ND	26.64	ND	61.3	ND	ND	0.402	< LOQ	ND	ND	0.73	ND	< LOQ	ND	
			AGSUN 8251	ND	5.82	ND	ND	4.64	ND	27.77	ND	59.7	ND	ND	0.403	< LOQ	ND	ND	0.77	ND	< LOQ	ND	
			P 65 LL14	ND	6.29	ND	ND	3.89	ND	23.60	ND	64.3	ND	ND	0.402	< LOQ	ND	ND	0.80	ND	0.283	ND	
			PAN 7158 HO	ND	5.52	ND	ND	6.99	ND	16.72	ND	68.7	ND	< LOQ	0.57	< LOQ	ND	ND	1.00	ND	< LOQ	ND	
			SY 3975 CLOH	ND	3.76	< LOQ	ND	3.68	ND	82.3	ND	7.82	ND	0.402	0.296	ND	ND	1.43	ND	0.44	ND	0.283	ND
			Min	-	3.76	-	-	3.68	-	16.72	-	7.82	-	0.402	-	-	0.73	-	-	0.283	-	-	-
	Max	-	6.29	-	-	6.99	-	82.3	-	68.7	-	0.57	0.296	-	-	1.43	-	-	0.44	-	-		
	N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	Potchefstroom 3	AGSUN 5106 CLP	ND	5.75	ND	ND	6.31	ND	24.53	ND	61.2	ND	0.52	< LOQ	ND	ND	0.91	ND	< LOQ	ND	ND		
		AGSUN 8251	ND	5.37	ND	ND	6.71	ND	25.14	ND	60.9	ND	0.50	< LOQ	ND	ND	0.85	ND	< LOQ	ND	ND		
		P 65 LL14	ND	6.10	ND	ND	5.45	ND	21.10	ND	66.1	ND	0.50	< LOQ	ND	ND	ND	ND	ND	0.28	ND		
		PAN 7158 HO	ND	3.42	ND	ND	3.95	ND	82.3	ND	7.93	ND	0.415	0.303	ND	ND	1.29	ND	0.41	ND	ND		
SY 3975 CLOH		ND	3.65	ND	ND	5.14	ND	84.7	ND	3.336	ND	0.53	0.301	ND	ND	1.79	ND	0.43	ND	ND			
Min		-	3.42	-	-	3.95	-	21.10	-	3.336	-	0.415	0.301	-	-	0.85	-	-	0.28	-			
Max	-	6.10	-	-	6.71	-	84.7	-	66.1	-	0.53	0.303	-	-	1.79	-	-	0.43	-				
N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
Potchefstroom 4	AGSUN 5106 CLP	ND	5.15	ND	ND	6.90	ND	16.46	ND	69.4	ND	< LOQ	0.54	< LOQ	ND	0.86	ND	0.30	ND	ND			
	AGSUN 8251	ND	5.16	ND	ND	7.97	ND	14.98	ND	69.9	ND	< LOQ	0.59	< LOQ	ND	0.92	ND	< LOQ	ND	ND			
	P 65 LL14	ND	5.64	ND	ND	5.55	ND	14.29	ND	72.7	ND	< LOQ	0.48	< LOQ	ND	0.89	ND	< LOQ	ND	ND			
	PAN 7158 HO	ND	2.80	ND	ND	4.17	ND	82.2	ND	8.32	ND	< LOQ	0.405	< LOQ	ND	1.34	ND	0.38	ND	ND			
	SY 3975 CLOH	ND	2.68	ND	ND	5.55	ND	82.9	ND	6.00	ND	0.50	< LOQ	ND	ND	1.77	ND	0.41	ND	ND			
	Min	-	2.68	-	-	4.17	-	14.29	-	6.00	-	0.405	-	-	-	0.86	-	-	0.30	-			
Max	-	5.64	-	-	7.97	-	82.9	-	72.7	-	0.59	-	-	-	1.77	-	-	0.41	-				
N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
Boekop 3	AGSUN 5106 CLP	ND	4.79	ND	ND	7.04	ND	18.93	ND	67.0	ND	0.56	< LOQ	ND	ND	1.10	ND	< LOQ	ND	ND			
	AGSUN 8251	ND	4.66	ND	ND	6.89	ND	19.88	ND	66.6	ND	0.53	< LOQ	ND	ND	0.99	ND	< LOQ	ND	ND			
	P 65 LL14	ND	4.99	ND	ND	5.55	ND	17.69	ND	69.8	ND	< LOQ	0.51	< LOQ	ND	0.95	ND	< LOQ	ND	ND			
	PAN 7158 HO	ND	2.82	ND	ND	4.37	ND	79.4	ND	11.07	ND	0.40	< LOQ	ND	ND	1.23	ND	0.33	ND	ND			
	SY 3975 CLOH	ND	2.73	ND	ND	5.54	ND	81.5	ND	7.99	ND	< LOQ	0.49	< LOQ	ND	1.63	ND	0.39	ND	ND			
	Min	-	2.73	-	-	4.37	-	17.69	-	7.99	-	0.40	-	-	-	0.95	-	-	0.33	-			
Max	-	4.99	-	-	7.04	-	81.5	-	69.8	-	0.56	-	-	-	1.63	-	-	0.39	-				
N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
RSA	Boekop 3	18	AGSUN 5106 CLP	ND	2.68	-	-	3.68	-	14.29	-	3.336	-	-	0.402	0.296	-	-	0.73	-	0.283	-	
			AGSUN 8251	ND	6.29	-	-	7.97	-	84.7	-	72.7	-	0.59	0.303	-	1.79	-	0.44	-	0.283	-	
			P 65 LL14	ND	2.00	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
			PAN 7158 HO	ND	2.68	-	-	3.68	-	14.29	-	3.336	-	-	0.402	0.296	-	-	0.73	-	0.283	-	
			SY 3975 CLOH	ND	6.29	-	-	7.97	-	84.7	-	72.7	-	0.59	0.303	-	1.79	-	0.44	-	0.283	-	
			Min	-	2.68	-	-	3.68	-	14.29	-	3.336	-	-	0.402	0.296	-	-	0.73	-	0.283	-	
Max	-	6.29	-	-	7.97	-	84.7	-	72.7	-	0.59	0.303	-	1.79	-	0.44	-	0.283	-				
N	20	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