

Table 9: Fatty acid profile results per cultivar - 2018/19 season

Cultivar	Locality	Region	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
LDC 5.3	Potchefstroom	18	ND	9.9	ND	<LOQ	ND	3.86	ND	19.72	ND	56.3	ND	9.06	0.414	<LOQ	ND	ND	0.451	ND	<LOQ	ND
	Kinross	31	ND	10.4	<LOQ	ND	ND	4.79	ND	20.35	ND	54.5	ND	8.71	0.49	<LOQ	ND	ND	0.406	ND	<LOQ	ND
	Marble Hall	33	ND	10.3	<LOQ	ND	ND	4.40	ND	28.58	ND	48.9	ND	6.26	0.414	<LOQ	ND	ND	0.54	ND	<LOQ	ND
	Min		9.9	-	-	-	3.86	-	19.72	-	48.9	-	6.26	0.414	-	-	-	-	0.406	-	-	-
	Max		10.4	-	-	4.79	-	28.58	-	56.3	-	9.06	0.49	-	-	-	-	-	0.54	-	-	-
	N		3	3	3	3	3	3	3	3	3	3	7	3	3	3	7	3	3	3	3	3
DM 5953 RSF	Potchefstroom	18	ND	10.1	ND	<LOQ	ND	4.77	ND	21.32	ND	54.1	ND	8.46	0.405	<LOQ	ND	ND	0.405	ND	<LOQ	ND
	Kinross	31	ND	10.3	ND	<LOQ	ND	6.09	ND	23.72	ND	50.4	ND	8.15	0.49	<LOQ	ND	ND	0.403	ND	<LOQ	ND
	Marble Hall	33	ND	11.1	<LOQ	<LOQ	ND	4.90	ND	31.26	ND	45.8	ND	5.60	0.46	<LOQ	ND	ND	0.377	ND	<LOQ	ND
	Min		10.1	-	-	-	4.77	-	21.32	-	45.8	-	5.60	0.405	-	-	-	-	0.377	-	-	-
	Max		11.1	-	-	6.09	-	31.26	-	54.1	-	8.46	0.49	-	-	-	-	0.405	-	-	-	
	N		3	3	3	3	3	3	3	3	3	3	7	3	3	7	3	3	3	3	3	3
PAN 1521 R	Potchefstroom	18	ND	10.2	ND	<LOQ	ND	5.59	ND	20.87	ND	53.9	ND	7.79	0.58	<LOQ	ND	ND	0.56	ND	<LOQ	ND
	Kinross	31	ND	10.0	ND	<LOQ	ND	5.04	ND	20.55	ND	53.7	ND	9.27	0.51	<LOQ	ND	ND	0.431	ND	<LOQ	ND
	Marble Hall	33	ND	10.4	ND	ND	ND	5.05	ND	26.41	ND	50.4	ND	6.17	0.61	<LOQ	ND	ND	0.58	ND	<LOQ	ND
	Min		10.0	-	-	-	5.04	-	20.55	-	50.4	-	6.17	0.51	-	-	-	-	0.431	-	-	-
	Max		10.4	-	-	5.59	-	26.41	-	53.9	-	9.27	0.61	-	-	-	-	0.58	-	-	-	
	N		3	3	3	3	3	3	3	3	3	3	7	3	3	7	3	3	3	3	3	3
LS 6868 R	Potchefstroom	18	ND	9.8	ND	<LOQ	ND	4.49	ND	20.50	ND	55.5	ND	8.34	0.49	<LOQ	ND	ND	0.47	ND	<LOQ	ND
	Kinross	31	ND	9.4	ND	<LOQ	ND	3.96	ND	20.12	ND	54.9	ND	10.03	0.429	0.57	ND	ND	0.409	ND	<LOQ	ND
	Marble Hall	33	ND	10.3	ND	ND	ND	4.27	ND	29.93	ND	48.8	ND	5.05	0.52	<LOQ	ND	ND	0.54	ND	<LOQ	ND
	Min		9.4	-	-	-	3.96	-	20.12	-	48.8	-	5.05	0.429	-	-	-	-	0.409	-	-	-
	Max		10.3	-	-	4.49	-	29.93	-	55.5	-	10.03	0.52	-	-	-	-	0.54	-	-	-	
	N		3	3	3	3	3	3	3	3	3	3	7	3	3	7	3	3	3	3	3	3
NS 6448 R	Potchefstroom	18	ND	10.5	ND	<LOQ	ND	5.41	ND	21.09	ND	54.1	ND	7.42	0.54	<LOQ	ND	ND	0.46	ND	<LOQ	ND
	Kinross	31	ND	10.2	ND	<LOQ	ND	4.76	ND	19.59	ND	55.3	ND	8.96	0.403	<LOQ	ND	ND	0.385	ND	<LOQ	ND
	Marble Hall	33	ND	11.0	ND	<LOQ	ND	5.01	ND	23.37	ND	52.4	ND	6.48	0.55	<LOQ	ND	ND	0.51	ND	<LOQ	ND
	Min		10.2	-	-	-	4.76	-	19.59	-	52.4	-	6.48	0.403	-	-	-	-	0.385	-	-	-
	Max		11.0	-	-	5.41	-	23.37	-	55.3	-	8.96	0.55	-	-	-	-	0.51	-	-	-	
	N		3	3	3	3	3	3	3	3	3	3	7	3	3	7	3	3	3	3	3	3
SSS 5052 (tuc)	Potchefstroom	18	ND	10.5	ND	<LOQ	ND	4.91	ND	21.57	ND	53.7	ND	7.73	0.52	<LOQ	ND	ND	0.46	ND	<LOQ	ND
	Kinross	31	ND	9.7	ND	<LOQ	ND	4.56	ND	21.07	ND	54.2	ND	9.06	0.46	<LOQ	ND	ND	0.433	ND	<LOQ	ND
	Marble Hall	33	ND	10.9	ND	<LOQ	ND	4.36	ND	24.25	ND	52.0	ND	7.03	0.49	<LOQ	ND	ND	0.50	ND	<LOQ	ND
	Min		9.7	-	-	-	4.36	-	21.07	-	52.0	-	7.03	0.46	-	-	-	-	0.433	-	-	-
	Max		10.9	-	-	4.91	-	24.25	-	54.2	-	9.06	0.52	-	-	-	-	0.50	-	-	-	
	N		3	3	3	3	3	3	3	3	3	3	7	3	3	7	3	3	3	3	3	3

Table 9: Fatty acid profile results per cultivar - 2018/19 season

Cultivar	Locality	Region	g Fatty acids/100 g Fatty Acids (continue)																			
			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
P61 T 38 R	Potchefstroom	18	ND	9.7	ND	<LOQ	ND	4.98	ND	20.73	ND	54.9	ND	8.12	0.50	<LOQ	ND	ND	0.51	ND	<LOQ	ND
	Kinross	31	ND	9.0	ND	<LOQ	ND	4.80	ND	19.85	ND	54.8	ND	10.12	0.47	<LOQ	ND	ND	0.47	ND	<LOQ	ND
	Marble Hill	33	ND	10.1	ND	<LOQ	ND	4.63	ND	22.58	ND	54.4	ND	6.78	0.49	<LOQ	ND	ND	0.50	ND	<LOQ	ND
RSA	Min		-	9.0	-	-	-	4.63	-	19.85	-	54.4	-	6.78	0.47	-	-	-	0.47	-	-	-
	Max		-	10.1	-	-	-	4.98	-	22.58	-	54.9	-	10.12	0.50	-	-	-	0.51	-	-	-
	N		3	3	3	3	3	3	3	3	3	3	3	7	3	3	7	3	3	3	3	3
	Min		-	9.0	-	-	-	3.86	-	19.59	-	45.8	-	5.05	0.403	-	-	-	0.377	-	-	-
	Max		-	11.1	-	-	-	6.09	-	31.26	-	56.3	-	10.12	0.61	0.57	-	-	0.58	-	-	-
	N		21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21

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