

Table 7: Fatty acid profile results of a selection of cultivar samples per region from the 2021/22 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	C18:1 t	C18:1 n7	C18:2 t	C18:2 c	C18:3n5	C18:3n6	C20:0	C20:1	C20:2	C20:5	C21:0		
Free State	Bethlehem	25	DM 5953 RSF	ND	10.2	LOQ	ND	5.38	ND	18.61	1.3	ND	53.9	ND	ND	9.07	0.46	LOQ	ND	ND	0.44	ND	
			SSS 5052 (tuc)	ND	9.3	LOQ	ND	4.85	ND	18.64	1.3	ND	54.6	ND	ND	9.71	0.49	LOQ	ND	ND	0.51	ND	
			PAN 1521 R	ND	9.6	ND	LOQ	ND	5.39	ND	18.55	1.3	ND	53.8	ND	ND	9.91	0.50	LOQ	ND	ND	0.49	ND
			RA 660 R	ND	8.7	LOQ	ND	5.09	ND	17.57	1.2	ND	55.7	ND	ND	10.28	0.48	LOQ	ND	ND	0.50	ND	
			NS 6448 R	ND	9.2	ND	LOQ	ND	5.41	ND	18.21	1.2	ND	54.7	ND	ND	9.81	0.50	LOQ	ND	ND	0.48	ND
			Y657	ND	9.9	ND	LOQ	ND	5.74	ND	17.31	1.2	ND	53.7	ND	ND	10.45	0.57	LOQ	ND	ND	0.53	ND
			<i>Min</i>	-	8.7	-	-	4.85	-	17.31	1.2	-	53.7	-	-	9.07	0.46	-	-	-	0.44	-	
			<i>Max</i>	-	10.2	-	-	5.74	-	18.64	1.3	-	55.7	-	-	10.45	0.57	-	-	-	0.53	-	
			N	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
			DM 5953 RSF	ND	10.4	LOQ	ND	6.26	ND	29.03	1.5	ND	44.8	ND	ND	6.07	0.61	LOQ	ND	ND	0.53	ND	
Limpopo	Groblersdal	35	SSS 5052 (tuc)	ND	10.3	LOQ	ND	5.12	ND	23.40	1.6	ND	51.1	ND	ND	6.65	0.60	LOQ	ND	ND	0.58	ND	
			PAN 1521 R	ND	10.1	LOQ	ND	5.26	ND	22.95	1.5	ND	54.4	ND	ND	6.80	0.63	LOQ	ND	ND	0.58	ND	
			RA 660 R	LOQ	9.6	LOQ	ND	5.32	ND	23.95	1.5	ND	51.2	ND	ND	6.62	0.56	LOQ	ND	ND	0.61	ND	
			NS 6448 R	LOQ	10.5	LOQ	ND	5.11	ND	20.46	1.3	ND	53.6	ND	ND	7.17	0.55	LOQ	ND	ND	0.53	ND	
			Y657	ND	10.7	LOQ	LOQ	ND	5.64	ND	22.58	1.5	ND	50.8	ND	ND	6.88	0.63	LOQ	ND	ND	0.67	ND
			<i>Min</i>	-	9.6	-	-	5.11	-	20.46	1.3	-	44.8	-	-	6.07	0.55	-	-	-	0.53	-	
			<i>Max</i>	-	10.7	-	-	6.26	-	29.03	1.6	-	54.4	-	-	7.17	0.63	-	-	-	0.67	-	
			N	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
			DM 5953 RSF	LOQ	11.5	LOQ	ND	4.44	ND	20.98	1.4	ND	51.8	ND	ND	8.49	0.42	LOQ	ND	ND	0.39	ND	
			SSS 5052 (tuc)	ND	10.8	LOQ	ND	3.85	ND	17.81	1.4	ND	54.4	ND	ND	10.20	0.43	LOQ	ND	ND	0.48	ND	
KwaZulu-Natal	Greytown	36	PAN 1521 R	ND	10.9	LOQ	ND	4.39	ND	17.59	1.3	ND	54.4	ND	ND	9.72	0.50	LOQ	ND	ND	0.53	ND	
			RA 660 R	ND	10.0	ND	LOQ	ND	4.32	ND	16.76	1.2	ND	55.9	ND	ND	10.03	0.49	LOQ	ND	ND	0.63	ND
			NS 6448 R	ND	10.5	ND	LOQ	ND	4.26	ND	16.38	1.2	ND	55.9	ND	ND	10.09	0.48	LOQ	ND	ND	0.56	ND
			Y657	LOQ	10.8	LOQ	LOQ	4.36	LOQ	16.81	1.3	LOQ	54.6	LOQ	LOQ	10.35	0.49	LOQ	LOQ	LOQ	0.58	LOQ	
			<i>Min</i>	-	10.0	-	-	3.85	-	16.38	1.2	-	51.8	-	-	8.49	0.42	-	-	-	0.39	-	
			<i>Max</i>	-	11.5	-	-	4.44	-	20.98	1.4	-	55.9	-	-	10.35	0.50	-	-	-	0.63	-	
			N	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
			<i>Min</i>	-	8.7	-	-	3.85	-	16.38	1.2	-	44.8	-	-	6.07	0.42	-	-	-	0.39	-	
			<i>Max</i>	-	11.5	-	-	6.26	-	29.03	1.6	-	55.9	-	-	10.45	0.63	-	-	-	0.67	-	
			RSA	N	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 quantitation cannot be accurately quantified.

Limit of quantitation (LOQ) = 0.28 g Fatty acid/100 g Fatty acids.

Values below the limit of detection are reported as ND (not detected).