

**Table 7: Fatty acid profile results of a selection of cultivar samples from the 2022/23 season**

Province	Locality	Region	Cultivar	g Fatty acids/100 g Fatty Acids																					
				C14:0	C16:0	C16:1	C17:0	C18:0	C18:1 cis	C18:1 n7*	C18:2 cis	C18:3 n6	C18:3 n5	C18:3 n3	C20:0	C20:1	C20:2	C22:0	C24:0	Unknown 1	Unknown 2				
Free State	Bethlehem	25	NS 5258 R	LOQ	9.82	LOQ	LOQ	5.53	20.37	1.3	53.7	ND	ND	8.1	0.394	0.157	ND	0.377	LOQ	ND	ND				
			PAN 1521 R	LOQ	10.47	LOQ	LOQ	4.86	18.41	1.3	54.7	ND	ND	9.0	0.410	LOQ	LOQ	0.388	LOQ	ND	ND	ND			
			RA 660 R	LOQ	9.56	LOQ	LOQ	4.38	17.82	1.2	56.3	ND	ND	9.6	0.352	LOQ	LOQ	0.391	LOQ	ND	ND	ND	ND		
			DM 59160 RSF	LOQ	10.0	LOQ	LOQ	4.10	16.92	1.4	55.9	ND	ND	10.5	0.355	LOQ	LOQ	0.401	LOQ	ND	ND	ND	ND		
			LG60261IPR	LOQ	10.5	LOQ	LOQ	4.32	17.51	1.1	53.9	ND	ND	11.3	0.383	LOQ	LOQ	0.406	LOQ	ND	ND	ND	ND		
			Y657	LOQ	10.77	LOQ	LOQ	4.77	17.49	1.2	54.5	ND	ND	10.0	0.407	LOQ	LOQ	0.442	LOQ	ND	ND	ND	ND		
			<i>Min</i>	-	<b>9.56</b>	-	-	<b>4.10</b>	<b>16.92</b>	<b>1.1</b>	<b>53.7</b>	-	-	<b>8.1</b>	<b>0.352</b>	-	-	<b>0.377</b>	-	-	-	-	-	-	
			<i>Max</i>	-	<b>10.77</b>	-	-	<b>5.53</b>	<b>20.37</b>	<b>1.4</b>	<b>56.3</b>	-	-	<b>11.3</b>	<b>0.410</b>	<b>0.157</b>	-	-	<b>0.442</b>	-	-	-	-	-	-
			<i>N</i>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
			Limpopo	Groblersdal	35	NS 5258 R	LOQ	10.79	LOQ	LOQ	5.27	22.84	1.3	52.0	ND	ND	6.42	0.398	0.186	ND	0.392	0.142	ND	ND	ND
PAN 1521 R	LOQ	10.91				LOQ	LOQ	4.84	23.74	1.4	51.4	ND	ND	6.19	0.440	0.178	ND	0.448	LOQ	LOQ	ND	ND	ND		
RA 660 R	LOQ	10.3				LOQ	LOQ	4.59	22.99	1.4	52.7	ND	ND	6.56	0.414	0.169	ND	0.471	LOQ	LOQ	ND	ND	ND		
DM 59160 RSF	LOQ	10.71				LOQ	LOQ	4.36	22.11	1.6	52.7	ND	ND	7.1	0.393	0.168	ND	0.458	LOQ	LOQ	ND	ND	ND		
LG60261IPR	LOQ	11.3				LOQ	LOQ	4.99	24.04	1.3	49.3	ND	ND	7.5	0.480	0.165	ND	0.493	0.147	LOQ	LOQ	ND	ND	ND	
Y657	LOQ	11.4				LOQ	LOQ	5.18	21.96	1.4	51.5	ND	ND	7.0	0.475	0.157	ND	0.511	0.143	LOQ	LOQ	ND	ND	ND	
<i>Min</i>	-	<b>10.3</b>				-	-	<b>4.36</b>	<b>21.96</b>	<b>1.3</b>	<b>49.3</b>	-	-	<b>6.19</b>	<b>0.393</b>	<b>0.157</b>	-	<b>0.392</b>	<b>0.142</b>	-	-	-	-	-	
<i>Max</i>	-	<b>11.4</b>				-	-	<b>5.27</b>	<b>24.04</b>	<b>1.6</b>	<b>52.7</b>	-	-	<b>7.5</b>	<b>0.480</b>	<b>0.186</b>	-	<b>0.511</b>	<b>0.147</b>	-	-	-	-	-	-
<i>N</i>	<b>6</b>	<b>6</b>				<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
KwaZulu-Natal	Greytown	36				NS 5258 R	LOQ	10.96	LOQ	LOQ	4.47	20.40	1.2	54.0	ND	ND	7.7	0.329	0.167	ND	0.351	LOQ	LOQ	ND	ND
			PAN 1521 R	LOQ	10.89	LOQ	LOQ	3.86	21.70	1.4	53.2	ND	ND	7.7	0.346	0.171	ND	0.388	LOQ	LOQ	ND	ND	ND		
			RA 660 R	LOQ	10.28	LOQ	LOQ	3.70	22.39	1.3	53.2	ND	ND	7.9	0.332	0.159	ND	0.409	LOQ	LOQ	ND	ND	ND		
			DM 59160 RSF	LOQ	11.0	LOQ	LOQ	3.71	20.81	1.5	53.1	ND	ND	8.5	0.339	0.150	ND	0.420	LOQ	LOQ	ND	ND	ND		
			LG60261IPR	LOQ	11.4	LOQ	LOQ	3.95	20.32	1.3	52.4	ND	ND	9.4	0.377	0.155	ND	0.437	LOQ	LOQ	ND	ND	ND		
			Y657	LOQ	11.7	LOQ	LOQ	4.10	19.91	1.3	53.2	ND	ND	8.5	0.378	0.153	ND	0.454	LOQ	LOQ	ND	ND	ND		
			<i>Min</i>	-	<b>10.28</b>	-	-	<b>3.70</b>	<b>19.91</b>	<b>1.2</b>	<b>52.4</b>	-	-	<b>7.7</b>	<b>0.329</b>	<b>0.150</b>	-	<b>0.351</b>	-	-	-	-	-	-	
			<i>Max</i>	-	<b>11.7</b>	-	-	<b>4.47</b>	<b>22.39</b>	<b>1.5</b>	<b>54.0</b>	-	-	<b>9.4</b>	<b>0.378</b>	<b>0.171</b>	-	<b>0.454</b>	-	-	-	-	-	-	
			<i>N</i>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
			RSA		<i>Min</i>	-	<b>9.56</b>	-	-	<b>3.70</b>	<b>16.92</b>	<b>1.1</b>	<b>49.3</b>	-	-	<b>6.19</b>	<b>0.329</b>	<b>0.150</b>	-	<b>0.351</b>	-	<b>0.142</b>	-	-	-
<i>Max</i>	-	<b>11.7</b>			-	-	<b>5.53</b>	<b>24.04</b>	<b>1.6</b>	<b>56.3</b>	-	-	<b>11.3</b>	<b>0.480</b>	<b>0.186</b>	-	<b>0.511</b>	-	<b>0.147</b>	-	-	-			
<i>N</i>	<b>18</b>	<b>18</b>			<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>			

**Note:**  
 All fatty acids marked with an asterisk (\*) are not SANAS accredited.  
 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).