

Table 8: Fatty acid profile results of a selection of cultivar samples from the 2022/23 season

| Province | 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 |
| North West | 18 | AGSJUN 5106 CLP | LOQ | 6.18 | LOQ | ND | 5.28 | 18.47 | 0.61 | 67.4 | ND | LOQ | LOQ | 0.326 | LOQ | ND | 0.784 | 0.211 | 0.18 | 0.17 |
| | | | ND | 5.83 | ND | LOQ | 7.10 | 14.77 | 0.57 | 69.6 | ND | ND | LOQ | 0.421 | LOQ | ND | 0.849 | 0.192 | 0.15 | 0.15 |
| Free State | 26 | | ND | 5.22 | ND | LOQ | 7.02 | 15.22 | 0.46 | 70.0 | ND | LOQ | LOQ | 0.427 | LOQ | ND | 0.900 | 0.182 | LOQ | LOQ |
| | | | LOQ | 6.36 | LOQ | ND | 4.48 | 14.98 | 0.66 | 71.6 | ND | ND | LOQ | 0.320 | LOQ | ND | 0.746 | 0.247 | LOQ | LOQ |
| | | | - | 5.22 | - | - | 4.48 | 14.77 | 0.46 | 67.4 | - | - | 0.320 | - | - | 0.746 | 0.182 | 0.15 | 0.15 | |
| | | | - | 6.36 | - | - | 7.10 | 18.47 | 0.66 | 71.6 | - | - | 0.427 | - | - | 0.900 | 0.247 | 0.18 | 0.17 | |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| North West | 18 | AGSJUN 5270 | ND | 5.71 | ND | ND | 4.80 | 21.72 | 0.54 | 65.4 | ND | LOQ | LOQ | 0.298 | LOQ | ND | 0.748 | 0.215 | LOQ | LOQ |
| | | | ND | 5.80 | LOQ | ND | 6.09 | 16.06 | 0.54 | 69.4 | ND | ND | LOQ | 0.375 | LOQ | ND | 0.845 | 0.221 | 0.15 | 0.15 |
| Free State | 26 | | ND | 5.15 | ND | LOQ | 6.74 | 17.51 | 0.44 | 68.1 | ND | LOQ | LOQ | 0.415 | LOQ | ND | 0.907 | 0.200 | LOQ | LOQ |
| | | | LOQ | 6.36 | LOQ | ND | 4.48 | 14.97 | 0.66 | 71.6 | ND | 0.27 | LOQ | 0.320 | LOQ | ND | 0.745 | 0.247 | ND | ND |
| | | | - | 5.15 | - | - | 4.48 | 14.97 | 0.44 | 65.4 | - | - | 0.298 | - | - | 0.745 | 0.200 | - | - | |
| | | | - | 6.36 | - | - | 6.74 | 21.72 | 0.66 | 71.6 | - | - | 0.415 | - | - | 0.907 | 0.247 | 0.15 | 0.15 | |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| North West | 18 | P 65 LP 65 | LOQ | 6.47 | ND | ND | 4.52 | 20.36 | 0.55 | 66.0 | ND | LOQ | LOQ | 0.329 | LOQ | ND | 0.841 | 0.217 | 0.15 | 0.15 |
| | | | ND | 5.56 | ND | ND | 5.87 | 16.16 | 0.44 | 69.9 | ND | ND | LOQ | 0.382 | LOQ | ND | 0.866 | 0.201 | 0.15 | 0.14 |
| Free State | 26 | | ND | 5.48 | ND | LOQ | 5.79 | 15.91 | 0.44 | 70.4 | ND | LOQ | LOQ | 0.382 | LOQ | ND | 0.864 | 0.192 | LOQ | LOQ |
| | | | LOQ | 6.81 | LOQ | ND | 4.25 | 15.95 | 0.61 | 70.5 | ND | ND | LOQ | 0.312 | LOQ | ND | 0.774 | 0.214 | LOQ | LOQ |
| | | | - | 5.48 | - | - | 4.25 | 15.91 | 0.44 | 66.0 | - | - | 0.312 | - | - | 0.774 | 0.192 | 0.15 | 0.14 | |
| | | | - | 6.81 | - | - | 5.87 | 20.36 | 0.61 | 70.5 | - | - | 0.382 | - | - | 0.866 | 0.217 | 0.15 | 0.15 | |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| North West | 18 | PAN 7160 CLP | ND | 5.66 | ND | ND | 5.49 | 22.42 | 0.45 | 63.8 | ND | LOQ | LOQ | 0.396 | LOQ | ND | 0.939 | 0.226 | LOQ | LOQ |
| | | | ND | 5.63 | ND | ND | 5.90 | 17.00 | 0.47 | 68.9 | ND | ND | LOQ | 0.395 | LOQ | ND | 0.898 | 0.203 | LOQ | LOQ |
| Free State | 26 | | ND | 5.53 | ND | ND | 6.25 | 15.78 | 0.47 | 69.8 | ND | LOQ | LOQ | 0.433 | LOQ | ND | 0.940 | 0.195 | LOQ | LOQ |
| | | | LOQ | 6.84 | ND | ND | 4.10 | 16.07 | 0.62 | 70.4 | ND | 0.23 | LOQ | 0.314 | LOQ | ND | 0.791 | 0.220 | ND | ND |
| | | | - | 5.53 | - | - | 4.10 | 15.78 | 0.45 | 63.8 | - | - | 0.314 | - | - | 0.791 | 0.195 | - | - | |
| | | | - | 6.84 | - | - | 6.25 | 22.42 | 0.62 | 70.4 | - | - | 0.433 | - | - | 0.940 | 0.226 | - | - | |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| North West | 18 | SY 3870 CL | ND | 5.43 | ND | ND | 6.07 | 21.47 | 0.45 | 64.3 | ND | LOQ | LOQ | 0.391 | LOQ | ND | 0.975 | 0.238 | 0.19 | 0.17 |
| | | | ND | 5.15 | ND | ND | 6.64 | 15.49 | 0.43 | 70.0 | ND | ND | LOQ | 0.413 | LOQ | ND | 0.980 | 0.212 | 0.14 | LOQ |
| Free State | 26 | | ND | 4.93 | ND | ND | 6.93 | 17.32 | 0.41 | 68.2 | ND | LOQ | LOQ | 0.439 | LOQ | ND | 1.02 | 0.205 | LOQ | LOQ |
| | | | LOQ | 6.59 | LOQ | ND | 4.53 | 14.29 | 0.67 | 71.6 | ND | 0.33 | LOQ | 0.346 | LOQ | ND | 0.95 | 0.251 | ND | ND |
| | | | - | 4.93 | - | - | 4.53 | 14.29 | 0.41 | 64.3 | - | - | 0.346 | - | - | 0.95 | 0.205 | 0.14 | - | |
| | | | - | 6.59 | - | - | 6.93 | 21.47 | 0.67 | 71.6 | - | - | 0.439 | - | - | 1.02 | 0.251 | 0.19 | 0.17 | |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| RSA | | | - | 4.93 | - | - | 4.10 | 14.29 | 0.41 | 63.8 | - | - | 0.298 | - | - | 0.745 | 0.182 | 0.14 | 0.14 | |
| | | | - | 6.84 | - | - | 7.10 | 22.42 | 0.67 | 71.6 | - | - | 0.439 | - | - | 1.02 | 0.251 | 0.19 | 0.17 | |
| | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Note:
 All fatty acids marked with an asterisk (*) are not SANAS accredited.
 Limit of detection (LOD) = 0.06 g/100 g.
 Values below the limit of detection are reported as ND (not detected).
 Limit of quantitation (LOQ) = 0.14 g/100 g.
 Values below the limit of quantitation cannot be accurately quantified.