**Table A. Rainfall (mm) pattern during experiments and long term rainfall average.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **May** | **Jun** | **Jul** | **Aug** | **Sept** | **Oct** | **Till harvest (1-24 Nov)** | **Total** |
| **Horsham** | | | | | | | | |
| **Experimental site** | 22.2 | 16.8 | 54.8 | 44.8 | 10.4 | 33.8 | 22.6 | 237.6 |
| **Long term average** | 43.0 | 38.2 | 47.1 | 47.9 | 44.0 | 42.2 | 33.5 | 295.9 |
| **Hamilton** | | | | | | | | |
| **Experimental site** | 45.8 | 59.5 | 70.0 | 61.5 | 39.5 | 62.1 | 44.2 | 382.6 |
| **Long term average** | 48.4 | 65.1 | 67.5 | 78.7 | 68.9 | 57.2 | 49.2 | 435.0 |

**Table B. Timing and amounts of irrigation applied at the Horsham field experiment.**

|  |  |
| --- | --- |
| **DAP** | **Irrigation (mm)** |
| 118 | 20 |
| 123 | 32 |
| 139 | 30 |
| 143 | 25 |
| 146 | 30 |
| 165 | 25 |
| 167 | 30 |
| 178 | 25 |
| Total | 217 |

DAP, days after planting.

**Table C. Early season vigour, senescence score and occurrence of reproductive growth stages in canola genotypes at the Hamilton field experiment.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Genotype** | **Early season vigour** | **Senescence score** | **Flowering start (DAP)** | **Flowering end (DAP)** | **Physiological maturity (DAP)** |
| **T6.6.38** | 5.5 | 3.9\* | 108 | 148 | 190 |
| **T6.6.40** | 5.5 | 3.8\* | 109 | 149 | 190 |
| **T7.1.38** | 6.0 | 3.3\* | 108 | 150 | 190 |
| **NC6.2** | 5.0 | 5.3 | 110 | 149 | 188 |
| **NC7.6** | 5.0 | 4.2 | 109 | 150 | 189 |
| **WT** | 5.0 | 5.2 | 110 | 150 | 189 |

DAP, days after planting, NC, Null control; T, Transgenic; WT, wild type. \* Values significantly different in transgenic line than corresponding null at P < 0.05.

**Table D. Seed quality parameters; moisture, oil, glucosinolate, protein and fatty acids contents in canola genotypes at the Hamilton field experiment.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Genotype** | **Oil (%)** | **Glucosin-olate (µmol/g)** | **Protein (%)** | **Palmitic Acid (16:0)** | **Stearic Acid (18:0)** | **Oleic Acid (18:1)** | **Linoleic Acid (18:2)** | α**-Linolenic Acid (18:3)** | **Arachidic Acid (20:0)** | **Eicosenoic Acid (20:1)** |
| **T6.6.38** | 47.1 | 9.0 | 21.3 | 3.79 | 3.65 | 62.4 | 13.5 | 14.3 | 0.91 | 1.07 |
| **T6.6.40** | 46.4 | 10.6 | 21.3 | 3.84 | 3.66 | 61.6 | 14.1 | 14.2 | 0.92 | 1.06 |
| **T7.1.38** | 47.3 | 6.9\* | 20.9 | 3.81 | 3.67 | 62.1 | 13.4 | 14.5 | 0.89 | 1.07 |
| **NC6.2** | 46.5 | 10.2 | 21.7 | 3.81 | 3.61 | 61.8 | 14.0 | 14.2 | 0.89 | 1.07 |
| **Null 7.6** | 46.8 | 8.2 | 21.6 | 3.81 | 3.65 | 61.3 | 14.1 | 14.7 | 0.93 | 1.08 |
| **WT** | 46.9 | 9.1 | 20.9 | 3.82 | 3.79 | 62.4 | 12.7 | 14.9 | 0.95 | 1.06 |
| SED | 0.59 | 0.52 | 0.29 | 0.04 | 0.09 | 0.55 | 0.62 | 0.33 | 0.02 | 0.01 |
| LSD (5%) | 1.20 | 1.05 | 0.72 | 0.08 | 0.18 | 1.10 | 1.2 | 0.67 | 0.05 | 0.03 |
| P Value | 0.006 | <0.001 | <0.001 | <0.001 | 0.058 | <0.001 | <0.001 | 0.001 | <0.001 | 0.173 |

SED, standard error of difference of means; LSD, least significant difference; NC, Null control; T, Transgenic; WT, wild type. \* Values significantly different in transgenic line than corresponding null.