

Table S1: The average values of all parameters, the germination percentage (GP), the germination rate (GR), mean germination time (MGT), root length (RL), shoot length (SL), root-to-shoot ratio (RSR) and seedling vigor index (SVI) of 13 sesame genotypes evaluated under drought stress for two seed generations M₂ and M₃.

| Genoty pe | Generati on | Germination percentage (GP) | | | Germination rate (GR) | | | Mean germination Time (MGT) | | | Seedling vigor index (SVI) | | | Root length (RL) | | | Shoot length (SL) | | | Root/shoot ratio (RSR) | | |
|--------------|----------------|--------------------------------|-------------|-------------|--------------------------|-------------|-------------|--------------------------------|-------------|-------------|-------------------------------|-------------|-------------|---------------------|-----------------|-----------------|----------------------|-----------------|-----------------|---------------------------|-------------|-----------------|
| | | 0 MPa | -0.6 MPa | -1.2 MPa | 0 MPa | -0.6 MPa | -1.2 MPa | 0 MPa | -0.6 MPa | -1.2 MPa | 0 MPa | -0.6 MPa | -1.2 MPa | 0 MP a | -0.6 MP a | -1.2 MP a | 0 MP a | -0.6 MP a | -1.2 MP a | 0 MP a | -0.6 MPa | -1.2 MP a |
| US06 | M ₂ | 99.33 | 69.25 | 0.00 | 95.14 | 63.12 | 0.00 | 0.010 | 0.0354 | 0.000 | 302. | 135.44 | 0.00 | 3.32 | 4.9 | 0.00 | 4.82 | 1.27 | 0.00 | 0.85 | 0.90 | 0.00 |
| | M ₃ | | 65.48 | 0.00 | | 52.48 | 0.00 | 5 | 0.0334 | 0.000 | 45 | 136.78 | 0.00 | | 5.00 | 0.00 | | 1.17 | 0.00 | 1.05 | 0.00 | |
| US1-3 | M ₂ | 97.00 | 73.69 | 15.03 | 98.47 | 73.14 | 23.00 | 0.010 | 0.0186 | 0.073 | 175. | 122.48 | 0.00 | 3.44 | 5.06 | 1.06 | 5.48 | 1.16 | 0.00 | 0.77 | 1.11 | 0.00 |
| | M ₃ | | 81.25 | 21.33 | | 70.35 | 20.55 | 1 | 0.0192 | 0.078 | 36 | 121.98 | 0.00 | | 5.33 | 0.97 | | 1.22 | 0.00 | 1.29 | 0.00 | |
| US1- DL | M ₂ | 98.00 | 71.65 | 18.33 | 97.82 | 78.36 | 16.59 | 0.011 | 0.0177 | 0.090 | 272. | 150.81 | 38.19 | 4.7 | 6.21 | 0.41 | 4.11 | 2.14 | 0.73 | 1.03 | 1.2327 | 1.45 |
| | M ₃ | | 85.17 | 18.85 | | 72.17 | 17.09 | | 0.0188 | 0.088 | 15 | 142.46 | 34.99 | | 5.20 | 0.39 | | 1.46 | 0.67 | 1.02 | 1.44 | |
| US2-7 | M ₂ | 98.33 | 58.64 | 8.66 | 99.27 | 48.14 | 13.33 | 0.010 | 0.0462 | 0.105 | 212. | 144.89 | 0.00 | 3.56 | 4.31 | 0.31 | 5.50 | 1.56 | 0.00 | 0.79 | 0.39 | 0.00 |
| | M ₃ | | 25.78 | 0.00 | | 12.78 | 0.00 | 0 | 0.0367 | 0.000 | 69 | 146.74 | 0.00 | | 3.15 | 0.00 | | 1.41 | 0.00 | 0.35 | 0.00 | |
| US1-2 | M ₂ | 97.33 | 55.48 | 0.00 | 26.24 | 42.60 | 0.00 | 0.010 | 0.0234 | 0.124 | 320. | 140.13 | 15.03 | 3.85 | 5.12 | 0.00 | 5.90 | 1.98 | 0.41 | 1.22 | 0.76 | 1.00 |
| | M ₃ | | 18.74 | 0.00 | | 25.36 | 0.00 | 3 | 0.0394 | 0.000 | 63 | 140.4 | 17.34 | | 5.30 | 0.00 | | 1.99 | 0.53 | 0.85 | 0.73 | |
| US2-1 | M ₂ | 99.01 | 60.34 | 0.00 | 98.87 | 49.36 | 0.00 | 0.010 | 0.0202 | 0.000 | 252. | 119.89 | 0.00 | 4.32 | 5.32 | 0.00 | 5.36 | 1.24 | 0.00 | 0.95 | 1.06 | 0.00 |
| | M ₃ | | 58.47 | 0.00 | | 45.47 | 0.00 | 1 | 0.0219 | 0.000 | 66 | 115.76 | 0.00 | | 5.42 | 0.00 | | 1.1 | 0.00 | 1.10 | 0.00 | |
| US2-6 | M ₂ | 97.33 | 52.17 | 0.00 | 92.15 | 33.45 | 0.00 | 0.010 | 0.0480 | 0.000 | 293. | 123.22 | 5.55 | 3.35 | 4.84 | 0.00 | 5.47 | 1.43 | 0.33 | 0.75 | 0.78 | 0.93 |
| | M ₃ | | 27.35 | 0.00 | | 14.35 | 0.00 | 8 | 0.0560 | 0.000 | 24 | 114.96 | 0.00 | | 3.78 | 0.00 | | 1.1 | 0.00 | 0.90 | 0.00 | |
| ML13 | M ₂ | 97.02 | 67.99 | 0.00 | 98.70 | 67.48 | 0.00 | 0.010 | 0.0297 | 0.000 | 242. 87 | 162.47 | 0.00 | 3.92 | 5.66 | 0.00 | 4.69 | 1.36 | 0.00 | 0.81 | 0.78 | 0.00 |
| | M ₃ | | 73.05 | 0.00 | | 56.14 | 0.00 | | 0.0320 | 0.000 | | 166.85 | 0.00 | | 5.74 | 0.00 | | 1.42 | 0.00 | 0.82 | 0.00 | |
| ML2-10 | M ₂ | 100.0 | 80.36 | 24.00 | 98.97 | 72.14 | 21.9 | 0.010 | 0.0138 | 0.075 | 238. | 173.25 | 9.10 | 4.34 | 6.33 | 2.33 | 4.98 | 1.83 | 0.53 | 1.03 | 1.47 | 0.47 |
| | M ₃ | 0 | 85.69 | 37.91 | | 78.64 | 24.2 | 1 | 0.0127 | 0.071 | 94 | 175.14 | 12.67 | | 6.25 | 2.05 | | 1.71 | 0.64 | 1.39 | 0.51 | |
| ML2-5 | M ₂ | 97.66 | 85.78 | 38.33 | 97.58 | 82.30 | 41.08 | 0.010 | 0.0121 | 0.054 | 262. | 205.64 | 92.40 | 4.52 | 6.35 | 2.35 | 4.60 | 2.2 | 1.52 | 1.15 | 1.49 | 1.53 |
| | M ₃ | | 83.55 | 35.02 | | 80.25 | 39.93 | 2 | 0.0124 | 0.055 | 01 | 192.93 | 121.69 | | 6.11 | 2.11 | | 2.34 | 1.16 | 1.54 | 1.76 | |
| ML2-37 | M ₂ | 97.96 | 1.32 | 7.33 | 92.95 | 68.99 | 21.06 | 0.010 | 0.0203 | 0.077 | 260. | 225.48 | 145.67 | 3.99 | 5.36 | 1.05 | 5.30 | 1.87 | 1.45 | 0.90 | 1.26 | 1.62 |
| | M ₃ | | 77.17 | 9.05 | | 64.17 | 26.13 | 6 | 0.0189 | 0.063 | 26 | 243.2 | 116.97 | | 5.63 | 0.94 | | 2.4 | 1.23 | 1.32 | 1.71 | |
| ML2-72 | M ₂ | 98.66 | 57.26 | 11.67 | 97.88 | 45.69 | 15.67 | 0.010 | 0.0218 | 0.093 | 241. | 127.87 | 8.58 | 3.86 | 4.64 | 0.25 | 5.22 | 1.53 | 0.63 | 0.89 | 0.61 | 1.02 |
| | M ₃ | | 61.25 | 13.06 | | 48.25 | 12.15 | 2 | 0.0207 | 0.011 | 85 | 135.45 | 10.50 | | 3.42 | 0.33 | | 1.68 | 0.74 | 0.55 | 1.12 | |
| ML2-68 | M ₂ | 96.96 | 42.6 | 0.00 | 96.78 | 33.69 | 0.00 | 0.010 | 0.0296 | 0.000 | 257. | 122.94 | 0.00 | 3.77 | 4.72 | 0.00 | 4.95 | 1.45 | 0.00 | 0.92 | 0.69 | 0.00 |
| | M ₃ | | 29.78 | 0.00 | | 34.00 | 0.00 | 3 | 0.0294 | 0.000 | 25 | 128.65 | 0.00 | | 4.98 | 0.00 | | 1.31 | 0.00 | 0.94 | 0.00 | |