**S3 Table. Accumulation of soluble sugars (A), organic acids (B), sugar alcohols (C), amino acids (D) and fatty acids (E) in leaves of six wheat genotypes under control and drought.**

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Soissons** | **Žitarka** | **Srpanjka** | **Antonija** | **Toborzó** | **Ellvis** |
|  |  | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** |
| Sucrose | **Ribose** | 23.6±3.7a | 21.8±3.6a | 17.6±3.0a | 20.8±2.6a | 19.7±2.2a | 18.0±2.8a | 18.4±3.1a | 21.7±3.6a | 20.0±4.5a | 23.5±3.6a | 19.8±2.1a | 20.3±2.5a |
| **Glucose** | 733±126def | 1089±106c | 526±71ef | 1852±191a | 658±209def | 1917±137a | 398±96f | 1287±69b | 450±100ef | 1170±157bc | 407±86f | 970±110cd |
| **Fructose** | 662±97bcd | 726±73bc | 418±80efg | 874±65b | 564±132cde | 1584±130a | 269±49g | 538±39cde | 333±85efg | 817±66b | 305±93g | 441±67defg |
| **Galactose** | 15.3±3.1de | 19.0±5.7cde | 8.3±2.2f | 28.3±2.1abc | 9.8±3.0ef | 31.0±4.5ab | 5.3±1.4f | 21.1±3bcd | 7.9±3.2f | 27.5±3.1abc | 6.4±1.4f | 33.9±5.6a |
| **Sucrose** | 6.2±1.1f | 3095±439ab | 46.6±18f | 2965±217ab | 1096±369de | 1129±34de | 1346±298d | 3693±285a | 359±76ef | 2863±239bc | 886±94de | 2150±302c |
| **D1** | 1.1±1.0f | 164±20b | 16.5±6.5e | 108±7.4cd | 217±24a | 89±3.4de | 209±22a | 106±12cd | 88.5±12d | 162±18b | 142±14bc | 149±17bc |
| **D2** | 1.6±1.0e | 74.4±14b | 5.5±3.2e | 36.9±3.4d | 137±17a | 44±2.2cd | 138±14a | 31±3.2d | 50.3±6.1c | 74.5±12b | 88.6±6.0b | 77.3±10b |
| **D3** | 1.9±1.8g | 119±34cd | 25.8±8.2ef | 37.5±6.1e | 322±42a | 91.5±5.0d | 329±31a | 21.5±3.2f | 120±14c | 123±24c | 222±16b | 155±23c |
| **D4** | 0.7±0,2f | 1.4±1.0f | 1.3±0.9f | 0.5±0.4f | 12.8±1.4b | 29.9±2.3a | 10.7±1.0b | 0.8±0.5f | 6.1±1.2d | 1.8±0.8ef | 8.3±0.6c | 4.1±0.9de |
| **D5** | 0.6±0.4f | 59.4±6.3ab | 1.9±1.4f | 47.9±3.3b | 30.1±5.3c | 29.9±2.2cd | 34.1±3.2c | 48.3±4.6b | 10.9±1.6e | 59.9±3.2a | 23.0±2.0d | 49.7±4.4b |
| organic acids | **cis-aconitic acids** | 456±60ab | 424±52ab | 349±44bc | 513±38ab | 249±59b | 232±62b | 334±41bc | 467±52ab | 457±144ab | 420±75ab | 557±80a | 558±93a |
| **Malic acid** | 124±28cd | 222±37ab | 105±19d | 193±39b | 158±9.1bc | 201±12bc | 124±22d | 263±27a | 111±29d | 191±11bc | 92±12d | 85±9.2d |
| **Phosphoric****acid** | 99±29abc | 137±10a | 71±13c | 100±7.6b | 54±12cd | 40±4.1d | 68±15c | 104±8.9b | 105±30ab | 111±17ab | 76±12c | 55±7.1d |
| **Galactonic acid** | 22.2±3.1abc | 25.2±4.1a | 17.4±4.0ab | 19.7±2.4ab | 17.2±3.1ab | 15.2±2.4b | 16.9±4.0b | 18.9±3.2ab | 18.8±5.2ab | 22.3±3.1ab | 15.9±2.1b | 15.0±1.8b |
| **Citric acid** | 71±21cd | 65±18cd | 77±11cd | 99±28c | 341±48a | 342±27a | 201±42b | 160±32b | 198±134b | 64±13de | 184±19b | 43±5e |
| **Succinic acid** | 5.2±1.4a | 5.1±1.3a | 4.9±0.8a | 5.3±0.5a | 6.0±0.7a | 4.4±0.4a | 5.9±0.9a | 6.4±0.8a | 6.3±1.5a | 5.1±0.6a | 6.0±0.8a | 5.0±0.9ab |
| **Oxalic acid** | 5.9±1.7c | 22.9±2.7a | 7.2±1.1c | 23.2±2.6a | 7.3±2.8cd | 4.5±0.8d | 10.0±2.8c | 21.6±1.9a | 16.3±8.4b | 21.6±2a | 19.5±3.2ab | 19.2±2.8ab |
| **OA1** | 5.6±1.4ab | 7.2±0.6a | 5.6±1.2ab | 6.7±1.5ab | 7.9±1.4a | 5.8±0.9b | 3.3±0.7cd | 5.8±0.8b | 3.8±0.7c | 7.5±1.5ab | 2.5±0.6d | 4.1±0.8c |
| **OA2** | 2.9±1.7d | 16.0±2.4a | 6.8±0.8c | 19.3±2.7a | 5.9±2.6cd | 0.1±0e | 7.1±1.8cd | 11.2±0.8bc | 14.5±2.8ab | 8.6±2.5c | 15.9±1.4a | 5.3±0.8d |
|  |
| continue |
|  |  | **Soissons** | **Žitarka** | **Srpanjka** | **Antonija** | **Toborzó** | **Ellvis** |
|  |  | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** | **Control** | **Drought** |
| sugar alcohols | **SA1** | 8.7±2.7cde | 11.6±2.5bc | 10.7±1.8bc | 11.6±1.2bc | 18.8±1,5a | 17.7±1.3a | 10.0±1.2cccd | 11.6±1.5bc | 6.4±1.3e | 12.8±2.7bc | 7.6±1.4de | 13.4±1.2b |
| **SA2** | 10.5±2.4a | 3.3±0.8cd | 3.4±0.7cd | 5.8±0.8b | 3.7±1.6cd | 9.0±1.2a | 0.1±0e | 3.0±0.7cd | 1.9±1.2d | 4.8±1.0bc | 0.1±0e | 4.5±1.2bc |
| **SA3** | 3.2±3.3e | 22.1±2.8bc | 10.6±4.5de | 25.0±5.9b | 26.4±3.5ab | 32.1±2.9a | 17.5±4.7bcd | 25.0±1.2b | 10.7±0.9de | 23.3±4.4bc | 13.5±2.8cde | 19.2±1.9bcd |
| **Myo-inositol** | 2.3±0.9f | 24.2±3.0c | 5.3±0.8f | 28.0±3.9b | 13.7±2.1d | 21.0±0.1c | 12.7±2.9d | 37.0±3.6a | 11.7±4.2d | 25.6±3.1c | 12.4±2,6d | 21.2±1.8c |
| Amino acid | **Glutamic acid** | 0.1±0.f | 3.8±0.9bc | 0.1±0.05f | 6.5±1.1b | 1.2±0.3e | 1.9±0.4de | 2.3±0.4d | 10.2±0.9a | 1.0±0.1e | 3.7±0.2c | 1.6±0.3de | 0.9±0.3e |
| **GABA** | 6.8±1.9d | 36.8±8.1a | 6.4±4.8d | 28.5±5.2ab | 8.1±3.8cd | 21.9±4.2b | 6.7±0.5d | 36.8±6.1a | 9.3±3.9c | 29.9±3.0a | 6.2±1.4d | 13.8±2.0c |
| **L-Threonin** | 0.1±0.1e | 38.7±2.4b | 0.1±0.1e | 45.6±2.0a | 0.1±0.1d | 20.6±1.4d | 0.1±0.1e | 42.2±2.8ab | 0.1±0.1e | 36.6±2.9b | 0.1±0.1e | 27.1±1.3c |
| Lipids | **Stearic acid** | 0.1±0.08e | 25.1±1.6c | 0.1±0.07e | 32.0±1.9b | 0.1±0.1e | 12.2±0.5d | 0.1±0.07e | 38.4±1.9a | 0.1±0.09e | 23.0±1.8c | 0.1±0.1e | 14.4±1.0d |
| **Palmitic acid** | 7.40±1.3f | 31.8±2.8ab | 12.1±0.9e | 36.9±3.1ab | 17.7±3.8de | 23.4±2.3c | 15.6±2.3d | 38.5±2.8a | 20.3±3.2cd | 30.2±3.9b | 16.2±1.6d | 28.3±2.7b |
| **Propanoic acid** | 14.7±2.9ab | 7.9±1.4cd | 8.4±1.7cd | 4.5±0.8e | 12.4±2.7bc | 4.1±0.7e | 10.4±0.9c | 5.1±1.2e | 16.1±2.0ab | 7.7±1.4d | 17.9±3.1a | 4.1±1.0e |