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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1.5 kPa** | | | | | | | | | | | |
|  | **CPCRW** | | | | **DWP** | | | | **SR** | | | |
|  | **drought** | **FM** | **Sat** | **TZSat** | **drought** | **FM** | **Sat** | **TZSat** | **drought** | **FM** | **Sat** | **TZSat** |
| Amino Sugar | 4.3 ± 0.52 | 0.33 ± 0.05 | 0.54 ± 0.1 | 0.82 ± 0.12 | 1.03 ± 0.16 | 0.66 ± 0.11 | 0.28 ± 0.1 | 7.76 ± 2.46 | 0.66 ± 0.23 | 1.63 ± 0.5 | 0.59 ± 0.12 | 1.84 ± 0.3 |
| Carb | 13.15 ± 2.28 | 0.4 ± 0.08 | 0.46 ± 0.05 | 0.36 ± 0.05 | 8.32 ± 1.22 | 0.32 ± 0.03 | 0.8 ± 0.24 | 10.99 ± 3.48 | 0.13 ± 0.02 | 1.61 ± 0.61 | 0.79 ± 0.3 | 0.51 ± 0.08 |
| ConHC | 1.02 ± 0.23 | 2.26 ± 0.21 | 1.36 ± 0.42 | 2.55 ± 0.68 | 2.3 ± 0.29 | 3.1 ± 0.91 | 6.98 ± 1.16 | 1.66 ± 0.54 | 1.52 ± 0.45 | 0.71 ± 0.34 | 0.58 ± 0.12 | 1.29 ± 0.31 |
| Lignin | 47.39 ± 6.34 | 58.67 ± 9.42 | 52.55 ± 3.27 | 49.34 ± 5.81 | 43.38 ± 4.12 | 56.46 ± 1.95 | 54.11 ± 7.25 | 15.26 ± 3.77 | 30.2 ± 2.11 | 28.94 ± 10.2 | 19.26 ± 2.9 | 15.94 ± 0.84 |
| Lipid | 12.44 ± 5.18 | 24.17 ± 8.26 | 24.29 ± 2.66 | 24.23 ± 4.1 | 21.63 ± 3.13 | 20.84 ± 1.54 | 21.17 ± 5.37 | 29.39 ± 12.34 | 43.37 ± 1.9 | 44.84 ± 11.52 | 65.05 ± 3.58 | 43.82 ± 6.28 |
| Protein | 16.57 ± 1.96 | 11.57 ± 1.44 | 18.95 ± 2.03 | 19.93 ± 2.86 | 20.41 ± 2.14 | 14.44 ± 1.13 | 12.93 ± 2.3 | 30.07 ± 2.2 | 18.58 ± 1.49 | 20.2 ± 4.83 | 9.49 ± 0.92 | 33.15 ± 5.46 |
| Tannin | 2.28 ± 0.57 | 1.85 ± 0.21 | 1.04 ± 0.21 | 1.75 ± 0.27 | 0.44 ± 0.1 | 2.46 ± 0.25 | 1.92 ± 0.51 | 3.15 ± 1.06 | 0.22 ± 0.1 | 0.42 ± 0.11 | 0.18 ± 0.06 | 0.21 ± 0.05 |
| Unsat HC | 0.15 ± 0.05 | 0.65 ± 0.09 | 0.68 ± 0.18 | 0.96 ± 0.21 | 1.57 ± 1.11 | 1.53 ± 0.36 | 1.66 ± 0.26 | 0.97 ± 0.15 | 5.05 ± 1.66 | 1.56 ± 0.21 | 4.06 ± 0.85 | 2.9 ± 0.81 |
| Other | 2.71 ± 1.85 | 0.1 ± 0.03 | 0.13 ± 0.02 | 0.07 ± 0.02 | 0.9 ± 0.12 | 0.19 ± 0.04 | 0.17 ± 0.03 | 0.75 ± 0.24 | 0.26 ± 0.1 | 0.11 ± 0.02 | 0 ± 0 | 0.35 ± 0.15 |
| total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **50 kPa** | | | | | | | | | | | |
|  | **CPCRW** | | | | **DWP** | | | | **SR** | | | |
|  | **drought** | **FM** | **Sat** | **TZSat** | **drought** | **FM** | **Sat** | **TZSat** | **drought** | **FM** | **Sat** | **TZSat** |
| Amino Sugar | 4.35 ± 0.66 | 0.2 ±  0 | 0.53 ± 0.06 | 0.37 ± 0.02 | 1.38 ± 0.38 | 0.79 ± 0.07 | 0.61 ± 0.12 | 8.79 ± 1.49 | 0.31 ± 0.09 | 1.24 ± 0.24 | 1.66 ± 0.34 | 2.18 ± 1.37 |
| Carb | 10.91 ± 2.17 | 0.31 ± 0.01 | 0.9 ± 0.25 | 0.42 ± 0.05 | 4.06 ± 1.1 | 0.33 ± 0.01 | 0.86 ± 0.15 | 9.91 ± 1.31 | 0.3 ± 0.05 | 1.03 ± 0.54 | 0.38 ± 0.03 | 0.17 ± 0.02 |
| ConHC | 1.37 ± 0.34 | 2.58 ± 0.51 | 2.5 ± 0.45 | 4.14 ± 1.04 | 2.35 ± 0.33 | 3.66 ± 0.85 | 4.96 ± 1.11 | 2.47 ± 0.26 | 0.42 ± 0.19 | 0.51 ± 0.15 | 1.25 ± 0.52 | 1.44 ± 0.32 |
| Lignin | 56.09 ± 2.88 | 82.96 ± 1.55 | 69.89 ± 1.46 | 75.73 ± 2.43 | 55.56 ± 2.55 | 71.02 ± 2.08 | 58.9 ± 9.08 | 33.19 ± 3.36 | 42.7 ± 8.42 | 36.06 ± 5.64 | 28.39 ± 4.35 | 40.32 ± 11.73 |
| Lipid | 7.07 ± 1.09 | 5.52 ± 2.18 | 9.61 ± 1.49 | 8.66 ± 1.76 | 11.53 ± 1.44 | 9.36 ± 1.09 | 18.88 ± 10.45 | 7.74 ± 2.81 | 36.81 ± 7.51 | 43.72 ± 6.42 | 38.67 ± 7 | 33.89 ± 9.83 |
| Protein | 16.11 ± 1.74 | 3.97 ± 0.08 | 12.8 ± 0.71 | 7 ±  0.8 | 22.26 ± 2 | 10.7 ± 1.54 | 10.55 ± 1.35 | 30.92 ± 3.15 | 17.24 ± 4.14 | 14.49 ± 2.04 | 27 ± 3.64 | 17.71 ± 5.26 |
| Tannin | 3.37 ± 0.46 | 3.93 ± 0.92 | 3.14 ± 0.6 | 2.88 ± 0.43 | 1.52 ± 0.21 | 3.16 ± 0.46 | 3.95 ± 0.93 | 5.18 ± 0.31 | 0.25 ± 0.15 | 0.26 ± 0.07 | 0.22 ± 0.05 | 1.54 ± 1.01 |
| Unsat HC | 0.1 ± 0.03 | 0.36 ± 0.04 | 0.59 ± 0.44 | 0.66 ± 0.32 | 0.76 ± 0.32 | 0.87 ± 0.32 | 1.18 ± 0.53 | 1.21 ± 0.33 | 1.81 ± 0.79 | 2.55 ± 0.35 | 2.33 ± 0.46 | 2.56 ± 0.89 |
| Other | 0.63 ± 0.17 | 0.16 ± 0.02 | 0.04 ± 0 | 0.13 ± 0.04 | 0.58 ± 0.08 | 0.11 ± 0.02 | 0.11 ± 0.03 | 0.59 ± 0.06 | 0.16 ± 0.05 | 0.13 ± 0.03 | 0.11 ± 0.04 | 0.2 ± 0.05 |
| total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |