The present datasheet contains measured values of four key plant functional traits: leaf area (LA; cm2), specific leaf area (SLA; m2 kg-1), leaf-dry-matter content (LDMC; mg g-1) and turgor loss point (TLP; MPa) as well as abundance (visual estimate; % of cover) measured on 14 common grassland species from 4 sites in mesic temperate grasslands. Treatments consisted of a 50% and 30% reduction in rainfall.

Please note that data is missing for Trifolium pratense (Site KB), Plantago media (Site KB) and Ranunculus acris (Site GW) in the 50% rainfall reduction treatment due to a lack of sampleable plants under the increasing drought stress.

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| Abbreviation | Trait | Unit |
| LA | Leaf Area | cm2 |
| SLA | Specific leaf area | m2 kg-1 |
| LDMC | Leaf-dry-matter content | mg g-1 |
| TLP | Turgor loss point | MPa |
| - | Abundance | % of coverage |