

**Meier T., Hensen I. & Kühn I. (2024) Functional approach to xerothermic grasslands in Central Germany: trait composition, dominant grasses and soil factors. – Preslia 96: 183–208.**

**Supplementary Table S3.** ANCOVA after model simplification for testing the effect of soil factors on functional traits between dry and semidry grasslands. The CWMs of each functional trait (VPH, LDM, LA, SLA, LDMC, LNC, LCC, C/N; abbreviations cf. Table 1) represent the response variables, while the soil factors (SO, pH, CaCO<sub>3</sub>, N, C, C/N; abbreviations cf. Fig. 3) and the grassland type (dry and semi-dry) were the fixed factors. Degrees of freedom (df) and error probabilities (\* 0.01 ≤ p < 0.05, \*\* 0.001 ≤ p < 0.1, \*\*\* p < 0.001, ns = not significant).

[illegible]

### 5) Influence of soil C on CWM

|               |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| Intercept     | 1  | *** | 1  | *** | 1  | *** | 1  | *** | 1  | *** | 1  | *** | 1  | *** | 1  | *** |
| C             | 1  | ns  | 1  | **  | 1  | **  | 1  | ns  | 1  | *** | 1  | ns  | 1  | *   | 1  | ns  |
| grassland     | 1  | ns  | 1  | *** | 1  | *** | 1  | ns  | 1  | ns  | 1  | *   | 1  | **  | 1  | ns  |
| C x grassland |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| Residuals     | 98 |     | 98 |     | 98 |     | 98 |     | 98 |     | 98 |     | 98 |     | 98 |     |

### 6) Influence of soil C/N on CWM

|                 |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |     |
|-----------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|----|-----|----|-----|
| Intercept       | 1  | *** | 1  | *** | 1  | *** | 1  | *** | 1  | *** | 1  | ns | 1  | *** | 1  | *** |
| C/N             | 1  | *** | 1  | **  | 1  | **  | 1  | ns  | 1  | *** | 1  | ns | 1  | **  | 1  | ns  |
| grassland       | 1  | ns  | 1  | *   | 1  | **  | 1  | ns  | 1  | *   | 1  | ns | 1  | ns  | 1  | ns  |
| C/N x grassland |    |     |    |     |    |     |    |     | 1  | *   |    |    |    |     |    |     |
| Residuals       | 98 |     | 98 |     | 98 |     | 98 |     | 97 |     | 98 |    | 98 |     | 98 |     |

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