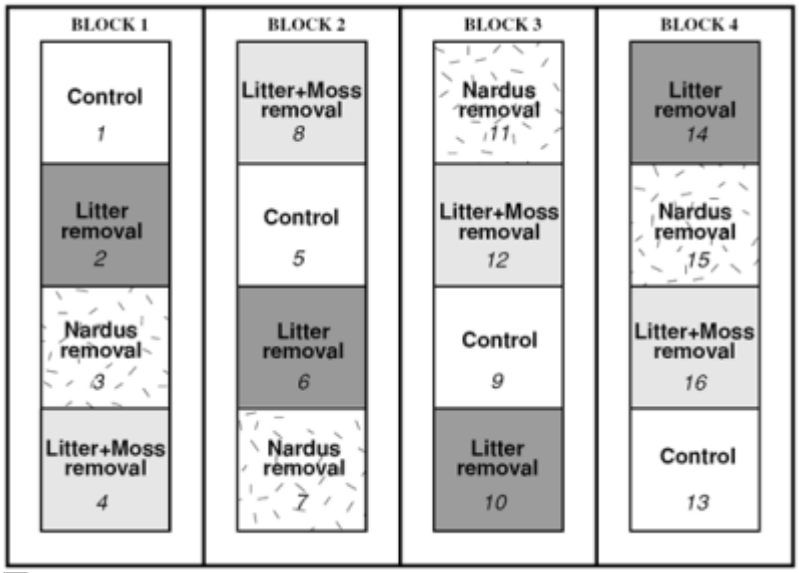
Experimental data from randomized complete blocks

Data source

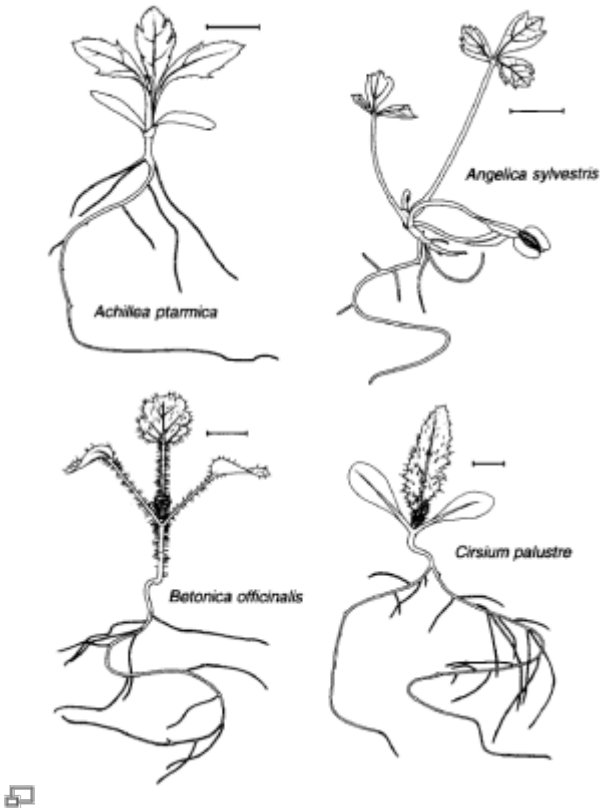
Example data, coming from the book of Šmilauer & Lepš (2014), initially published in Špačková et al. (1998)

Description of dataset



Design of the removal experiment with randomised complete blocks (from Šmilauer & Lepš 2014)

Experimental data studying the effect of dominant species, plant litter and moss on species composition of the wet meadow plant community, with special focus on the recruitment of herb seedlings. The experiment was established in four randomised complete blocks, the treatment had four levels, and the community composition was measured once. The experiment was established in March 1994, shortly after snowmelt. Each of the four randomized blocks contained four plots, each with a different treatment: (1) a control plot, where the vegetation remained undisturbed; (2) a plot with the removal of litter; (3) a plot with the removal of dominant species *Nardus stricta*; and (4) a plot with the removal of litter and mosses (to remove only mosses without litter was not technically possible).



Example of seedlings from the study (drawings by Iva Kotorová, from Špačková et al. 1998)

Locality

The experiment was conducted in an experimental wet meadow Ohrazení, located around 10 km SE of České Budějovice, Czech Republic. The vegetation can be classified into alliances *Molinion* and *Violion caninae*.

Environmental variables

Name of variable	Description
treatment	Name of the treatment: Cont = control, Litter = litter removed, Nardus = dominant species removed, Li+Mo - litter + mosses removed
block	Block number
seedlsum	Total number of seedlings per plot

Download data

- seedl.xlsx - MS Excel format file, containing species data, environmental variables, description of experimental design and other information (this file comes with the book of Šmilauer & Lepš (2014), Chapter 15, Case study 4)
- seedl-spe.txt
- seedl-env.txt

Script for importing data into R

```
seedlings.spe <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/seedl-
```

```
spe.txt', row.names = 1)
seedlings.env <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/seedl-
env.txt', row.names = 1)
```

References

- Špačková, I., Kotorová, I. & Lepš, J. (1998) Sensitivity of seedling recruitment to moss, litter and dominant removal in an oligotrophic wet meadow. *Folia Geobotanica*, 33: 17-30. pdf
- Šmilauer, P. & Lepš, J. (2014) *Multivariate Analysis of Ecological Data using Canoco 5.* Second Edition. Cambridge University Press, Cambridge, UK. (website with example data)

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