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Experimental data from wet meadow

Data source

Example data from first four years of the experiment, included in the book of Lepš & Šmilauer (2003) and Šmilauer & Lepš (2014), originally published in Lepš (1999).

Description of dataset

1 mown M-rem	2 unmown	3 mown M-rem	4 unmown
5 unmown M-rem	6 mown	7 unmown M-rem	8 mown
9 mown	10 unmown M-rem	11 mown	12 unmown M-rem
13 unmown	14 mown M-rem	15 unmown	16 mown M-rem
17 unmown M-rem	18 mown	19 unmown M-rem	20 mown
21 mown M-rem	22 unmown	23 mown M-rem	24 unmown

	unfertilized
	fertilized

Design of the experiment (from Lepš 2014, [Fig S1](#))

Long term experiment data, which monitors the influence of three different treatments on species composition of wet meadow vegetation. The treatments are as following: removal of dominant species (*Molinia caerulea*), fertilizing and mowing. The experiment has a form of latin square, divided into 24 plots (each treatment and their combinations are each represented by three replicates). Provided dataset represents 4 years of observations (1994-1997).

Locality

Experiment is conducted in 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
MOWING	Mowing (each year in June or July)
FERTIL	Fertilized (65g NPK/m ²)
REMOV	Dominant removal (<i>Molinia caerulea</i>) using screw-driver (conducted the first year and repeated every year if necessary)
YEAR	Year of observation (0 = 1994, i.e. before the experiment started, 1-3 = 1995-1997)
Yr0-Yr3	Year of observation (dummy variable)
P1-P24	Plot code (can be used as covariable)

Download data

File name	File type	Description
ohraz.xls	Excel file	Contains species × sample matrix, environmental variables, description of experimental design and other information (this file comes with the book of Lepš & Šmilauer (2003), Chapter 15)
ohrazeni-spe.txt	tab-delimited txt format	Sample × species matrix (96 samples in rows, 86 species in columns)
ohrazeni-env.txt	tab-delimited txt format	Environmental variable matrix (samples in rows, variables in columns)

Script for importing data into R

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

References

- Lepš J. (1999): Nutrient status disturbance and competition: an experimental test of relationships in a wet meadow. *Journal of Vegetation Science*, 10: 219-230 [pdf](#)
- Lepš J. (2014): Scale- and time-dependent effects of fertilization, mowing and dominant removal on a grassland community during a 15-year experiment. *Journal of Applied Ecology*, 51: 978-987 [www](#)
- Lepš J. & Šmilauer P. (2003): Multivariate analysis of ecological data using CANOCO. Cambridge University Press. [example data for download](#)
- Šmilauer, P. & Lepš, J. (2014) *Multivariate Analysis of Ecological Data using Canoco 5*. Second Edition. Cambridge University Press, Cambridge, UK.

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