

ReadMe file for plant_diversity_AND_nematodes_dataset.csv

Title: Plant diversity enhanced nematode-based soil quality indices and changed soil nematode community structure in intensively-managed agricultural grasslands. European Journal of Soil Biology, 118, [103542](#).

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Dataset contains the dry matter yield, nutrient content of harvested biomass, soil properties, abundances of nematode taxa, nematode-based soil quality indices and nematode trophic groups. The abundance of each nematode taxa was calculated by dividing the number of identified nematodes belonging to the taxa by 100 (the first 100 nematodes were identified per plot) and multiplying that by the total number of nematodes counted per plot.

Data were collected in Wexford, Republic of Ireland (52.299584, -6.506458) in 2020.
Date of creation: 04/09/2023

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Dataset contains:

- 61 observations (rows) + 1 row header
- 57 variables (columns)
- Column delimiter = ,

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Variable	Format	Description
s		
Plot	numeric	Number of the plot in the field
Nfert	numeric	Quantity of nitrogen fertiliser applied during the grassland phase (kg ha ⁻¹ yr ⁻¹)
Comm	numeric	Number assigned to the unique plant community (monocultures and the various mixtures)
plantSR	Text	Plant species richness (One to Six)
FuncGrR	Text	Plant functional group richness (One to Three)
PlantID	Text	Plant species identity/composition
Lp	numeric	Sown proportion of <i>Lolium perenne</i>
Pp	numeric	Sown proportion of <i>Phleum pratense</i>
Tp	numeric	Sown proportion of <i>Trifolium pratense</i>
Tr	numeric	Sown proportion of <i>Trifolium repens</i>
Ci	numeric	Sown proportion of <i>Cichorium intybus</i>
Pl	numeric	Sown proportion of <i>Plantago lanceolata</i>
YieldWeed	numeric	Annual dry matter yield of unsown species (kg ha ⁻¹ yr ⁻¹)
DMY	numeric	Total annual aboveground dry matter yield (kg ha ⁻¹ yr ⁻¹)
Tot_N	numeric	Total annual nitrogen harvested in aboveground tissues (kg ha ⁻¹ yr ⁻¹)
Tot_Ash	numeric	Total annual ash content harvested in aboveground tissues (kg ha ⁻¹ yr ⁻¹)
TOC_soil	numeric	Total organic carbon content in soil (0-15cm) (g per kg of

		soil)
TN_soil	numeric	Total nitrogen content in soil (0-15cm) (g per kg of soil)
OrgN_soil	numeric	Organic nitrogen content in soil (0-15cm) (g per kg of soil)
MinN_soil	numeric	Mineral nitrogen content in soil (0-15cm) (g per kg of soil)
Columns U to AU	numeric	Abundance of named (column heading) nematode taxonomic groups
MI	numeric	Nematode Maturity Index
CP35	numeric	Abundance of c-p 3-5 nematodes (sensitive taxa)
BF	numeric	Abundance of bacterial-feeding nematodes
PF	numeric	Abundance of plant-feeding nematodes
FF	numeric	Abundance of fungal-feeding nematodes
CI	numeric	Nematode Channel Index (%)
EI	numeric	Nematode Enrichment Index (%)
SI	numeric	Nematode Structure Index (%)
Omv	numeric	Abundance of omnivorous nematodes
Pred	numeric	Abundance of predatory nematodes