

Map content

In the window at the left side called „map content“ different categories are displayed. It is possible to display LTFE according to different criteria (see also “Help”)

- **Trial category:** There is a distinction between long-term field experiments (LTFE) and other experiments (=not being defined as a LTFE). Those other experiments are displayed in the map if they are partners of BonaRes-projects.
- **Research theme:** There is a distinction between crop rotation, fertilization, tillage, other or any combination of these.
- **Land use:** There is a distinction between fieldcrops, fieldcrops-agroforestry, vegetables, grasslands, grassland-agroforestry and pomiculture.
- **Farming category:** There is a distinction between conventional, integrated and organic farming
- **Duration:** The duration of the LTFE is divided into different categories: under 20 years, 20-50 years, over 50 years and unknown. Unknown is the case if the trial is finished, but the date of its last year not known yet.
- **Partner of BonaRes:** There is a distinction if the LTFE is being a partner of BonaRes-projects or not.
- **Used by SOMNET:** There is a distinction if the LTFE belongs to the „Soil Organic Matter- Network“ (<http://www.ufz.de/somnet/>) or not.
- **Member of the IOSDV / ILTE:** There is a distinction if the LTFE is belonging to the community “Internationale organische Stickstoffdauerdüngungsversuche / International long-term experiments or not.
- **Trial status:** There is a distinction between „ongoing“ and „finished“ trials.
- **Provides Data to the following soil functions:** BonaRes performed a classification of the LTFE where different soil functions are assigned to the LTFE due to the analysed research parameters. Theoretically research into the specified soil function at the basis of the collected data is possible. The following five soil functions were chosen as most relevant for BonaRes: biomass production, water storage and filtering, nutrient storage and recycling, carbon storage, habitat for biological activity.

Information window

A click at one particular LTFE will give you Information about:

- Trial site
- Trial name
- Start of the trial and possibly end
- Trial holder
- Research theme
- Land use
- Positional accuracy
- Research parameters.

An overview of the overall collected research parameters with explanations of the abbreviations is given in the following table:

Soil	Soil cont.
Aggregate stability	TC (total carbon)
Air conductivity	Usable field capacity
Arbuscular mycorrhiza	Water infiltration rate
B (Boron)	
BD (bulk density)	Grassland
C/N ratio	Botanical composition of the grassland
CaCO ₃ (calcium carbonate)	Energy concentration
C _{mic} (C in the microbial biomass)	Gaps in the sward
Dehydrogenase activity	Nutritional value
Earthworm abundance	Proportion grass / herbs / legumes
Enzyme activity	Sward density
Ergosterol	
Heavy metals	Plant
Humus content	Crude fibre content
Humus quality	Crude protein content
K (Potassium)	Development stages
Macronutrients	DM (dry matter)
Macropore volume	End of flowering
Metabolic quotient	Field density
Mg (Magnesium)	Field emergence
Microbial activity	Plant community
Microbial biomass	Plant diseases
N ₂ O-emissions (nitrous oxide)	Plants pests
NH ₄ -N (ammonium-nitrogen)	Quality
N _{mic} (N in the microbial biomass)	Ripeness
N _{min} (mineral nitrogen)	Root distribution
NO ₃ -N (nitrate nitrogen)	Starch content (potatoes)
N _{org} (organic nitrogen)	Start of flowering
N _t (total nitrogen)	Sugar content (sugar beet)
P (phosphorus)	Thousand kernel weight
pH value	Weeds
Phytopathogenic nematodes	Yield
Resistance to penetration	Yield gain
Saturated water conductivity	Yield structure
S _{min} (mineral sulphur)	
SOC (soil organic carbon)	
Soil moisture	
SOM (soil organic matter)	
Soil seed content	
Soil structure	
Soil temperature	