

The Long Term Fertilization Trials In Halle Saale A Tool For Sustainable And Environmentally Compa

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fertilization and weed control to your lawn care business and watch profits skyrocket *The Long Term Fertilization Trials*

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The Long-Term Fertilization Trials in Halle (Saale): A ...

In addition, four more long-term fertilization experiments as well as one soil development trial exist in Halle, all founded by Karl Schmalfuß in 1948/49. Wolfgang Merbach and Annette Deubel summarize the most important results and draw conclusions for the continuation of these internationally important experiments.

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The Long-Term Fertilization Trials in Halle (Saale) - A ...

The Eternal Rye trial (Ewiger Roggenbau) which was started in 1878 by Julius Kühn (see chapter 2.2). It comprises an area of 0.6 ha and is the second oldest long-term fertilization trial of the world, following the wheat experiment at Rothamsted (UK).

The Long-Term Fertilization Trials at the Julius-Kühn ...

Long-term experiments are crucial for determining fundamental crop, soil and ecological processes and their impacts on the environment -. Data from long-term experiments provide a unique resource to investigate long-term influences of climate, crop rotation and crop residue management on soil fertility -. However, SOC change is affected by complex interactions that vary across space and time depending on the environmental conditions and agricultural management practices.

Evaluation of the CENTURY Model Using Long-Term ...

long-term effects of mineral fertilizers on soil long-term fertilization trials allow investigations of the effects of repeated additions of mineral fertilizer on soil microorganisms. many long-term trials were established primarily to study the impact of fertilizers on crop

The Long Term Fertilization Trials In

In 1967, according to the proposal of specialists in Hungary, the National Long-Term Fertilization Trials (NLFT) were initiated to establish a uniform network of fertilizer trials representing different agro-ecological regions of the country.

Long-term fertilization trials in Hungary | SpringerLink

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The Long-term Fertilization Trials in Halle (Saale): A ...

Long-term fertilization trials allow investigations of the effects of repeated additions of mineral fertilizer on soil microorganisms. Many long-term trials were established primarily to study the impact of fertilizers on crop production; however, an increasing number of scientists are taking advantage of these well documented experiments to study soil microbial communities under different fertilization regimes.

Long-term effects of mineral fertilizers on soil ...

The objective of this paper was to analyze the responses of soil microorganisms to mineral fertilizer using data from long-term fertilization trials in cropping systems. A meta-analysis based on 107 datasets from 64 long-term trials from around the world revealed that mineral fertilizer application led to a 15.1% increase in the microbial biomass (C mic) above levels in unfertilized control treatments.

Long-term effects of mineral fertilizers on soil ...

For organic fertilizers, increased bacterial biomass and community diversity have been found in long-term trials fertilized with manure/organic amendments (17, 19, 20). However, it is still unknown how the fertilizer regime affects the composition of the Penicillium hyphosphere bacterial communities and their functional potential

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for cycling major nutrients such as N and P.

Different Effects of Soil Fertilization on Bacterial ...

The soil of the long-term experiment laid out 1949 in Halle has the potential to supply much P. The P taken up by plants where no P (P0) or 15 kg ha⁻¹ yr⁻¹ (P1) was applied was much greater than the P applied as fertilizer (P1). A decrease in yield was measured only after the first 25 years on P0 soils but the P1 treatment has, so far, shown no decrease.

Phosphorus dynamics in a long-term P fertilization trial ...

We sampled two German long-term fertilizer trials in Thyrow (sandy soil) and Gießen (loamy-clayey soil) to 100-cm depth. Treatments received either NPK, NK or PK fertilizer for > 60 years.

Subsoil phosphorus is affected by fertilization regime in ...

In a 6-year fertilizer trial with lavender, involving 12 N, P and K treatments, N had the greatest effect on flower yield. Maximum yields were produced by 120 kg./ha. N + 60 kg./ha. P₂O₅ + 120 kg./ha. K₂O. This represented an average flower and essential oil yield increase of 50% compared with the controls.

Long-term fertilization trials with lavender.

Evaluation of the CENTURY Model Using Long-Term Fertilization Trials under Corn-Wheat Cropping Systems in the Typical Croplands of China Rihuan Cong , 1 , 2 Xiujun Wang , 3 , 4 Minggang Xu , 1 , * Stephen M. Ogle , 5 and William J. Parton 5

Evaluation of the CENTURY model using long-term ...

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The Long-Term Fertilization Trials in Halle (Saale): A ...

1. PLoS One. 2014 Apr 21;9(4):e95142. doi: 10.1371/journal.pone.0095142. eCollection 2014. Evaluation of the CENTURY model using long-term fertilization trials under corn-wheat cropping systems in the typical croplands of China.

Evaluation of the CENTURY model using long-term ...

For these reasons, long-term study had been conducting in Eastern Hungary in the Nyírlugos Field Trial between 1973 and 1990 for obtain relationships between precipitation quantities-, soil agrochemical properties and mineral fertilization on winter wheat yield.

Long-term study of precipitation and fertilization ...

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The Long-Term Fertilization Trials in Halle (Saale) 2nd ...

We used the RothC model to estimate SOC levels of Black soils under monoculture cropping corn in a long-term fertilization trial at Gongzhuling, Jilin Province, China. The model outputs for the changes in SOC were compared with measured data in this long-term fertilization/manure trial.

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