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

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The Long Term Fertilization Trials 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. 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. 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 field experiments make it possible to recognize such long-term effects, which are caused e.g. by different fertilization treatments, for the respective location. This knowledge is essential for developing sustainable and ecologically desirable management concepts. The long-

term fertilization trials in Halle (Saale ... Abstract 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 Soil organic matter models are widely used to study soil organic carbon (SOC) dynamics. Here, we used the CENTURY model to simulate SOC in wheat-corn cropping systems at three long-term fertilization trials. Our study indicates that CENTURY can simulate fertilization effects on SOC dynamics under different climate and soil conditions. Evaluation of the CENTURY Model Using

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Long-Term ... Dai Z, Su W, Chen H, Barberán A, Zhao H, Yu M, et al. Long-term nitrogen fertilization decreases bacterial diversity and favors the growth of Actinobacteria and Proteobacteria in agroecosystems ... Long-term nutrient inputs shift soil microbial functional ... 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<sup>-1</sup> yr<sup>-1</sup> (P1) was applied was much greater than the P applied as fertilizer (P1). Phosphorus dynamics in a long-term P fertilization trial ... 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

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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 ... Long-term effects of mineral fertilizers on soil ... There are also less common very early (phase 0) and later (phase 4) phases. Phase 0 trials are small trials that help researchers decide if a new agent should be tested in a phase 1 trial. Phase 4 trials look at long-term safety and effectiveness, after a new treatment has been approved and is on the market. An Extension Study for Participants in LIQ861 Trials to ... Here, a long-term fertilization experiment initiated in 1982 was employed to explore the impacts of different fertilization regimes on physicochemical properties and

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bacterial communities of reddish paddy rhizospheric soil in Central South China by sequencing the 16S rRNA gene. Long-term combined application of manure and chemical ... Long-term field trials with treatments that differ considerably in type and amount of fertilization and not only in distinct nutrient application doses offer a valuable opportunity to study crop response to environmental conditions close to agricultural practice (Mayer and Mäder, 2016). Maize and wheat root biomass, vertical distribution, and ... 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

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fertilization regime in ... New steady states typical for applied fertilization treatments have been reached after decades of trial, e.g. the residual effect of 60 years of farmyard manuring on soil and plant is significant even 50 years after cessation of fertilization. Furthermore, rotation, soil, ploughing depth and atmosphere emission influenced soil C and N turnover. Reaktion des boden-c- und n-gehaltes auf düngung ... A long-term fertilization experiment presented for monitoring black soil fertility and fertilizer efficiency with monoculture maize (*Zea mays* L.) has been conducted since 1989 at Gongzhuling, Jilin... Soil organic carbon dynamics under long-term fertilization ... We used tree ring growth patterns and



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stable isotopes to understand long-term physiological responses to fertilization using a controlled fertilization experiment begun in 1964 in Washington State (USA), in which three levels of nitrogen fertilizer were applied: 157, 314, and 471 kg/ha. Physiological responses to fertilization recorded in tree ... We used tree-ring growth patterns and stable isotopes to understanding long-term physiological responses to fertilization using a controlled fertilization experiment begun in 1964 in which 3 levels of nitrogen fertilizer were applied: 157, 314 and 471 kg/ha. Physiological responses to fertilization recorded in tree ... The National Long-Term Fertilization Trials were set up in 1967 but winter wheat-maize-maize-winter wheat rotation has been

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growing since 1989. The experiment soil samples have been given different amounts of NPK fertilizer (Table 2). The soil used was Eutric cambisol. Soils samples were taken in October 2000 in the 34th years of the experiment. For Testing of available heavy metal content of soils in Long ... Fertilisation or fertilization (see spelling differences), also known as generative fertilisation, insemination, pollination, fecundation, syngamy and impregnation, is the fusion of gametes to initiate the development of a new individual organism or offspring. This cycle of fertilisation and development of new individuals is called sexual reproduction.

... Fertilisation - Wikipedia In this long-term economic analysis comparing laparoscopic electrocautery of the

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ovaries versus ovulation induction with gonadotrophins in clomiphene-resistant women with PCOS, we found that the costs for a first live born baby were just over €2000 lower per women allocated to electrocautery. In 2015 Nord Compo North America was created to better service a growing roster of clients in the U.S. and Canada with free and fees book download production services. Based in New York City, Nord Compo North America draws from a global workforce of over 450 professional staff members and full time employees—all of whom are committed to serving our customers with affordable, high quality solutions to their digital publishing needs.

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