

Impact of treated sewage effluent on soil fertility, salinization, and heavy metal content

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ABSTRACT: A long-term experiment (2013 to 2017) of treated sewage effluent (TSE) levels via fertigation in a humid tropical region was installed in Jaboticabal, state of São Paulo, Southeast of Brazil, to evaluate the impact of TSE on soil fertility and the potential for salinization and heavy metal contamination of an Oxisol. The area was cultivated with *Urochloa brizantha* under the application of four TSE levels at the irrigation depth (0, 11, 60, and 100% TSE) during the four years of the experiment. The TSE chemical composition was monitored throughout the experimental period. The heavy metal levels and soil fertility were evaluated in the 0–0.10 and 0.10–0.20 m layers at the end of the four years of the experiment. Fertigation using TSE did not increase the concentration of potentially toxic elements (As, Cd, Cu, Hg, Mo, Ni, Pb, Se, and Zn) in the soil due to their low concentration in the effluent. A higher Na concentration was also observed at high TSE levels (60 and 100%). However, the sodium adsorption rate in the TSE was low, generating no potential for soil salinization and sodification. Fertigation with TSE levels increased soil fertility, increasing by more than 30% the P content and base saturation in the soil compared to control. According to the chemical attributes evaluated in the soil and effluent, this long-term study showed that TSE application via fertigation in humid tropical regions on clayey soils cultivated with forage grasses is recommended.

Key words: water reuse, environmental contamination, soil chemical analysis, potentially toxic elements, wastewater.

INTRODUCTION

The increasing demand for food and water and the environmental pollution as a result of constant population growth are important global challenges facing humanity nowadays. Water consumption has increased in recent years at twice the rate of population growth and will continue to grow at a similar rate in the near future (Lavrnić et al. 2017). The agricultural sector is the most affected by water scarcity, as it accounts for 70% of global freshwater withdrawals for irrigation and over 90% of consumption (Norton-Brandão et al. 2013). On the other hand, the concentration of the human population in urban areas has significantly increased the production of sewage wastewater, which causes detrimental environmental impacts if appropriate actions are not taken.

In this context, wastewater can be an important component of an integrated water management policy (Van Lier and Huibers 2010; Andrews et al. 2016). Treated domestic wastewater is a widely available sustainable hydric source that can be used to meet the growing demand for agricultural irrigation (Santos et al. 2017). Thus, in recent years, wastewater recycling has gained importance as part of agricultural water sources in many countries facing water scarcity (Coelho et al. 2020).

The application of treated sewage effluent (TSE) in agricultural areas may be a viable alternative for nutrient recycling, reducing the water footprint in agriculture and increasing soil fertility. Therefore, it is necessary to examine the quality of the effluent to be used for this purpose. The application of TSE in agriculture provides essential nutrients to crops, especially

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Table of Contents Soil Fertility And Sewage

1. Understanding the eBook Soil Fertility And Sewage
 - The Rise of Digital Reading Soil Fertility And Sewage
 - Advantages of eBooks Over Traditional Books
2. Identifying Soil Fertility And Sewage
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Soil Fertility And Sewage
 - User-Friendly Interface
4. Exploring eBook Recommendations from Soil Fertility And Sewage
 - Personalized Recommendations
 - Soil Fertility And Sewage User Reviews and Ratings
 - Soil Fertility And Sewage and Bestseller Lists
5. Accessing Soil Fertility And Sewage Free and Paid eBooks
 - Soil Fertility And Sewage Public Domain eBooks
 - Soil Fertility And Sewage eBook Subscription Services

- Soil Fertility And Sewage Budget-Friendly Options
- 6. Navigating Soil Fertility And Sewage eBook Formats
 - ePub, PDF, MOBI, and More
 - Soil Fertility And Sewage Compatibility with Devices
 - Soil Fertility And Sewage Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Soil Fertility And Sewage
 - Highlighting and Note-Taking Soil Fertility And Sewage
 - Interactive Elements Soil Fertility And Sewage
- 8. Staying Engaged with Soil Fertility And Sewage
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Soil Fertility And Sewage
- 9. Balancing eBooks and Physical Books Soil Fertility And Sewage
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Soil Fertility And Sewage
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Soil Fertility And Sewage
 - Setting Reading Goals Soil Fertility And Sewage
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Soil Fertility And Sewage
 - Fact-Checking eBook Content of Soil Fertility And Sewage
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
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