

Soil Quality Assessment In Rice Production Systems Wur

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Soil Quality Assessment In Rice

Soil quality, as a measure of the soil's capacity to function, can be assessed by indicators based on physical, chemical, and biological properties. Here we report on the assessment of soil quality in 21 rice (*Oryza sativa*) fields under three rice production systems (semi-direct, pre-germinated, and conventional) on four soil textural classes in the Camaquã region of Rio Grande do Sul, Brazil.

Soil quality assessment in rice production systems ...

Farmers' assessment of soil quality in rice production systems 1. Introduction. The success of maintaining or enhancing soil quality depends on our understanding of how the soil... 2. Study context. The community of our study was 'Banhado do Colégio', which is located in the municipality of ...

Farmers' assessment of soil quality in rice production ...

spontaneous vegetation, rice plant development and soil colour. In order to assess soil quality following a scientific approach, the three main management systems for irrigated rice in Rio Grande do Sul were chosen: conventional (dry seedbed preparation and sowing, high tillage intensity), semi-direct (dry seedbed preparation

Soil quality assessment in rice production systems

In order to assess soil quality following a scientific approach, the three main management systems for irrigated rice in Rio Grande do Sul were chosen: conventional (dry seedbed preparation and sowing, high tillage intensity), semi-direct (dry seedbed preparation and sowing, low tillage intensity), and pre-germinated (seedbed preparation and sowing on inundated fields, high tillage intensity).

Soil quality assessment in rice production systems

Organic matter, earthworms, micronutrients (Cu and Mn), and mean weight diameter were the most powerful soil properties in assessing differences in soil quality among the rice management systems. Manganese was the property most strongly correlated with yield (adjusted $r^2 = 0.365$, $P = 0.001$).

Soil quality assessment in rice production systems ...

Soil quality assessment was based on multivariate statistical analysis using the SPSS program. For this study, 29 soil biological, chemical and physical indicators were evaluated to characterize aspects of regional soil quality. Data were collected from rice fields located in the

Soil quality assessment of rice production systems in ...

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Soil quality assessment in rice production systems - CORE

In order to employ appropriate management measures for rice-crayfish farming systems in the Jiangnan Plain, it is critical to evaluate how this proces...

Soil quality indicators of integrated rice-crayfish ...

Rice-based cropping systems are the foundation of food security in countries of Southeast Asia, but productivity of such systems has declined with deterioration in soil quality. These systems are different from other arable systems because rice is grown under submergence, and this may require a different set of key soil attributes for maintenances of quality and productivity.

Assessing soil-quality indices for subtropical rice-based ...

Soil quality, as a measure of the soil capacity to function, can be quantified by indicators based on physical, chemical and biological properties. Maintaining soil quality at a desirable level in...

Soil quality assessment of rice production systems in ...

He, J. Y. & Huang, R. X. Heavy metal contamination in soil and brown rice and human health risk assessment near three mining areas in Central China. *J. Healthcare Eng.* 2017 . 1-9 (2017).

Pollution characteristics and ecological risk assessment ...

Rice farmers' perspectives assessed using semi-structured interviews alternated with discussion groups, and formal scientific assessment of soil quality in order to develop a MDS using multivariate...

Soil Quality Assessment in Rice Production Systems ...

There has been little assessment of quality for soils collected from fanners' fields belonging to the Soil Orders Inceptisols, Entisols and Alfisols carrying a common rice-based cropping system.

Assessing soil-quality indices for subtropical rice-based ...

These outcomes were primarily due to an increase in the particulate organic matter fraction of the soil carbon stock (4.6 Mg ha -1 more than in rice monocropping). To evaluate changes in soil quality over the long term, additional studies are required.

Short-term Impacts on Soil-quality Assessment in ...

ASSESSMENT OF SOIL QUALITY It cannot be determined by measuring only crop yield, water quality, or any other single outcome It is an assessment of how it performs all of its functions now and how those functions are being preserved for future use. Soil quality cannot be measured directly, so we evaluate indicators 11.

Soil quality - LinkedIn SlideShare

The bio-accumulation factor (BAF) is an index for evaluating the transfer potential of a metal from soil to rice grains. The value of Cd for rice grains (0.250) was much higher than other test...

Health risk assessment of heavy metal pollution in a soil ...

Soil quality is a measure of the condition of soil. The goal of sustainable agriculture is to maintain a non-negative trend in productivity while maintaining soil quality. Susukan is an area in Semarang, Central Java, Indonesia, which has developed organic farming to increase rice productivity and quality.

Assessment of soil quality in organic and non-organic ...

Soil quality assessment of coastal salt-affected acid soils of India ... Soil quality index (SQI) is a combination of physical, chemical, and biological indicators through the appli- ... had a history of rice cultivation during the monsoon season (July–October) and subsequently kept fallow. The soils of the

Soil quality assessment of coastal salt-affected acid ...

ISO 22190:2020 Soil quality - Use of extracts for the assessment of bioavailability of trace elements in soils. This document provides guidance on the use of chemical methods establishing the bioavailability of trace elements in soil and soil-like materials and to stimulate the use of bioavailability in assessments.

ISO 22190:2020 - Soil quality - Use of extracts for the ...

One hundred and twenty-two paired soil and rice plant samples were collected from paddy fields of three parent materials (sandshale, limestone, and Quaternary red earth) in Guangxi Province. Soil Cd availability was assessed using three chemical extractants (0.43 M HNO₃, 0.01 M CaCl₂, and 0.005 M DTPA) and compared with Cd in soil solution and ...