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# Paddy Soils in Tropical Asia: Their Material Nature and Fertility

Kawaguchi, Keizaburo

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## <u>Paddy Soils In Tropical Asia Their Material Nature And</u> <u>Fertility</u>

**DP Hallahan** 

#### **Paddy Soils In Tropical Asia Their Material Nature And Fertility:**

Paddy Soils in Tropical Asia, Their Material Nature and Fertility Keizaburo Kawaguchi, Kazutake Kyūma, 1977 Paddy Soils in Tropical Asia Keizaburo Kawaguchi, 1977-01-01 Changes in Paddy Soil Fertility in Tropical Asia under Green Revolution Junta Yanai, Sota Tanaka, Shin Abe, Atsushi Nakao, 2022-06-20 This book investigates the effect of the Green Revolution GR on long term changes in the fertility status of paddy soils in tropical Asia While information on long term changes in soil fertility status are rather limited due to difficulties in obtaining past data or samples for comparison this investigation on temporal changes in soil fertility is possible by comparing fertility status in the 2010s which the authors examined recently with those from the 1960s when GR was initiated which was reported by Kawaguchi Kyuma 1977 More than 220 paddy soils collected from Thailand the Philippines Malaysia Bangladesh and Indonesia were analyzed for their physicochemical properties as well as total and available fractions of plant macro and micro essential elements and their temporal changes were examined in addition to their spatial variation in each country. The most significant change was a drastic increase of available phosphorus in soils possibly due to fertilization after the GR Changes in organic matter pH and other nutrients were relatively small A considerable decrease in the content of some micronutrients was also observed Long term studies on soil fertility status in the past and present will be useful to establish soil fertilizer management for sustainable rice production in the future This book is an essential reading for soil scientists agricultural scientists environmental scientists as well as policymakers and nongovernmental officers such as FAO Proceedings of Symposium on Paddy Soils Institute of Soil Science, Academia Sinica, 2012-12-06 China contributes a large part to rice production one of the most important crops in the world It is estimated that in China rice constitutes about half of the total food production covering an area of about 30 % of 08 hectares of cultivated land of the whole country Owing to the peculiar water regime paddy soils possess guite different properties physically chemically and biologically as compared with those of upland soils Such properties have a conspicuous effect on fertility and management practice of paddy field For the purpose of summing up the past work and opening up new prospects a Symposium on Paddy Soils was organized under the auspices of Academia Sinica held on October 19 24 1980 in Nanjing which was followed by a seven day paddy soil excursion in the lower Changjiang Delta In addition to 120 Chinese soil scientists 56 guests coming from America Asia Europe and Oceania attended the symposium on invitation A total of 110 papers were presented either orally or by poster All these are collected and published in the present proceedings which we hope may be helpful to the scientific exchanges between soil scientists of China and other countries Principles and Practices of Rice Production Surajit K. De Datta, 1981 Rice: Soil, Water, Land Frans R. Moormann, 1978 Symposium on Potential Productivity of Field Crops Under Different **Environments** W. H. Smith, 1983 Biological basis physical environment and crop productivity Growth and yield of field crops Crop productivity under different environments Increasing productivity through cropping systems **Effects of Soil** 

Fertility Management Practices on Nutrient Availability and Yield of Rice in Myanmar Soe Soe Thein, 2004 Bibliography of Soils of the Tropics: Tropics in general, and islands of Pacific and Indian Ocean Arnold Clifford Bibliography of the Soils of the Tropics, Vol. 4 Arnold Clifford Orvedal, 1980 Requirements for Sustainable Agriculture in Asia and Oceania International Council of Scientific Unions. Scientific Committee on Problems of the Environment, 1990 This symposium organised by the International Rice Institute concentrate on the P requirement to optimize food and fiber production in the main rice growing areas of the world using Asia and Oceanic data in a regional case study Research gaps and needs are discussed **Soil and Fertilizers** Rattan Lal, 2020-05-06 Soil and Fertilizers Managing the Environmental Footprint presents strategies to improve soil health by reducing the rate of fertilizer input while maintaining high agronomic yields It is estimated that fertilizer use supported nearly half of global births in 2008 In a context of potential food insecurity exacerbated by population growth and climate change the importance of fertilizers in sustaining the agronomic production is clear However excessive use of chemical fertilizers poses serious risks both to the environment and to human health Highlighting a tenfold increase in global fertilizer consumption between 2002 and 2016 the book explains the effects on the quality of soil water air and biota from overuse of chemical fertilizers Written by an interdisciplinary author team this book presents methods for enhancing the efficiency of fertilizer use and outlines agricultural practices that can reduce the environmental footprint Features Includes a thorough literature review on the agronomic and environmental impact of fertilizer from degradation of ecosystems to the eutrophication of drinking water Devotes specific chapters to enhancing the use efficiency and effectiveness of the fertilizers through improved formulations time and mode of application and the use of precision farming technology Reveals geographic variation in fertilizer consumption volume by presenting case studies for specific countries and regions including India and Africa Discusses the pros and cons of organic vs chemical fertilizers innovative technologies including nuclear energy and the U N s Sustainable Development Goals Part of the Advances in Soil Sciences series this solutions focused volume will appeal to soil scientists environmental scientists and agricultural engineers The Rice-Wheat Cropping System of South Asia Palit Kataki, Suresh Chandra Babu, 2001-06-04 The lives of more than a billion people depend on the answer This valuable book surveys the problems of the rice wheat cropping system practiced on the Indo Gangetic Plain IGP Introduced at the time of the Green Revolution it transformed agriculture and produced thirty years of bumper crops The Rice Wheat Cropping System of South Asia Efficient Production Management offers scientific analysis of the aftereffects of this intense cropping The Rice Wheat Cropping System of South Asia Efficient Production Management focuses on the questions of soil depletion pest infestation and soil alkalinity as elements of declining productivity Along with clear charts maps and graphs it provides practical suggestions for improving and maintaining the productivity of this irreplaceable farmland The Rice Wheat Cropping System of South Asia looks at the problems that have arisen for both the rice and wheat phases including depletion of

Resource Management in Rice Systems: Nutrients V. Balasubramanian, J.K. Ladha, G.L. Denning, 2012-12-06 Rice is the major staple food in Asia and food security means rice security for most Asians By the year 2025 we need to produce about 60% more rice than we do today to meet the growing demand Efficient use of inputs is vital to safely produce the additional food from limited resources with minimal impact on the environment This book reviews emerging knowledge intensive technologies and decision aids for improved nutrient management in rice technology adoption constraints at the farm level and innovative approaches for field evaluation and promotion of new technologies to farmers It is highly useful to rice scientists and development workers students of agronomy soil science and plant nutrition and crop consultants and extension workers in rice all over the world *Proceedings of the Eighth International Soil Correlation Meeting (VIII ISCOM)*, 1992

*Tropical Soils* Anthony S. R. Juo, Kathrin Franzluebbers, 2003-09-18 Agricultural ecology or agroecology deals in general with the structure and function of agroecosystems at different levels of resolution In this text reference the authors describe in terms of agroecology the tropical environments of sub Saharan Africa Southeast Asia and Latin and Central America focusing on production and management systems unique to each region

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