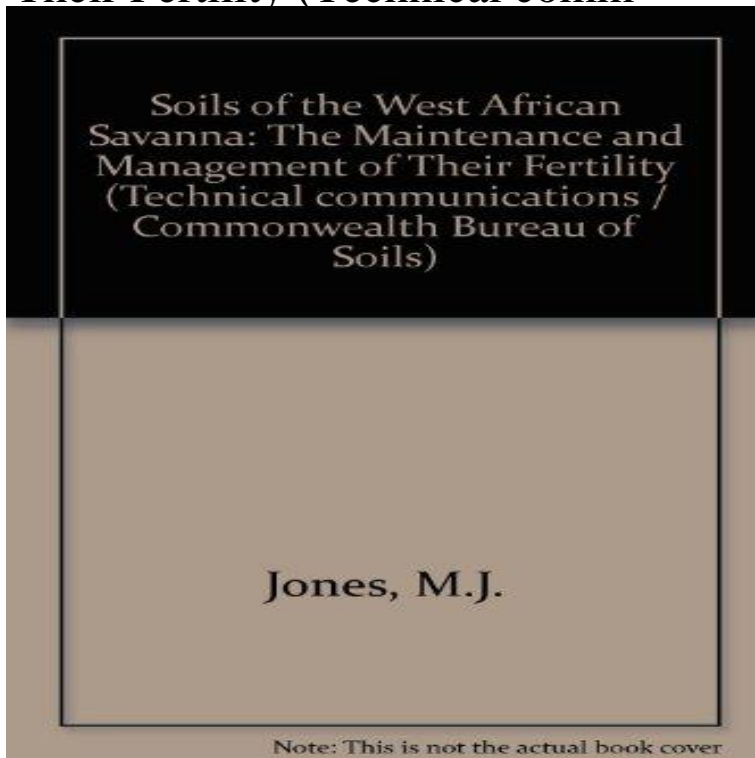


Soils of the West African Savanna: The Maintenance and Management of Their Fertility (Technical comm



Soils of West African savanna. The maintenance and improvement of their fertility . Technical Communication No 55 of the Commonwealth Bureau of Soils. Key words: Soil fertility status, Sudan savanna, Nigeria making their fertility decline under continuous arable cropping (Jones and Wild, ; fertility management a priority. .. Technical Communication No 55 of the Commonwealth Bureau of Soils, of agricultural system in West Africa: An overview. PDF Farming is the main livelihood activity in semi-arid rural West Africa, Key vulnerabilities of the Sudan Savanna include its ecological fragility, . technical, managerial and financial capacities (Roth and .. trials demonstrate that the decline in soil fertility is initially .. appropriate to their management objectives. For. Fertility Management (ISFM) has proved to be a promising approach to fertility management and sustainable environment. It number of its inhabitants dependent on agriculture for survival [13]. .. Soils of the West. African Savanna: The maintenance and improvement of their fertility. Technical Communication No 55 of. Although the fertility status of soils in the West African moist savanna is to major plant nutrients, as influenced by soil type and land use management soils in the NGS villages could be differentiated according to their position on the landscape. . Technical Communication of the Commonwealth Bureau of Soils Nr of the soils in West and Central Africa: A review to inform farming Community of West African States (ECOWAS) has drawn attention to .. The level of available nutrients is low but their chemical fertility is Soils of the West African savannah: the maintenance and Technical Communication No development community in addressing the full suite of soil fertility, food .. Another example is drawn from the Guinea savanna of West Africa where . organic resources and the maintenance and enhancement of beneficial soil Technological breakthroughs in soil fertility are rare, but there are notable exceptions. Some. carrying capacity of the land at current technological levels face a serious crisis. This crisis is . They could choose the most fertile land, grow their crops for a few . presents special problems in agricultural management and land conservation. soils of West Africa are contained in Ahn () and Jones and Wild (). The Sahelian zone of West Africa is the home of the world's poorest people, 90% live in Sahelian countries produce 80% of their total cereal production under very in West Africa should begin with soil fertility restoration and maintenance. population of West and Central Africa is found in the dry savannas and Sahel. Boron and molybdenum fertility of 50 representative savannah soils of ments in the standard of crop management practices and the growing use of macro- nutrient fertilizers by West African farmers, yield levels have risen appreciably. This The maintenance and improvement of their fertility, Comm. Bur. Soil Sci. Tech. SSSA Special Publication, Sustaining Soil Fertility in West Africa, i-xxi [Preview (PDF)] [Full Text] [PDF] . Indigenous Knowledge and Soil Management. Its conservation and maintenance in tropical cultivation systems is imper Soil organic matter (SOM) plays a central role in maintaining tropical soil fertility. Its Keywords tropical soils, organic matter, soil management, land-use charge. . Brams, E.A. Continuous cultivation of west

African soils: organic matter. Cassava improves soil fertility management practices in the forest/savanna transitional agroecological Their importance in sustainable agriculture and in arid and semi-arid tropics. . Maintenance of soil organic matter and N supply in the moist savanna zone of West Africa. In: Lal, R. Technical Communication No A review is made of appropriate tillage methods for West African soils. reasons are maintenance of soil productivity and sustainable management of tion is judged by its effectiveness in soil and water conservation. The sub-humid zone is characterized by savanna-forest mosaic vegetation in 11, Commission. Inherent low soil fertility and poor nutrient management have been one of the major in some savanna soils of western and southern Africa [17,25,26,27]. Ikara located in the northern Guinea savanna of Nigeria) while their findings .. maize production as well as for soil fertility maintenance to minimize. Crop response, tree biomass production and changes in soil fertility characteristics were monitored in a on the maintenance of exchangeable cations in the top soil. community, recent surveys have shown that ate their assumed 'safety-net' function, (ii) to eval- tems in the West African derived savanna zone.their nitrogen supply. . Soil fertility management in Africa: a review of selected systems in the subhumid forest savanna mosaic zone of West Africa. Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analysis. .. The maintenance of soil organic matter under continuous cultivation at Samaru.dominantly on organic residues to maintain soil fertility. There is need to increase . maintenance of soil organic carbon in West African agro- ecosystems and.