

Alfisols In The Semi Arid Tropics Proceedings Of The Consultants Workshop On The State Of The Art

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Alfisols In The Semi Arid
Alfisols are a soil order in USDA soil taxonomy.*Alfisols* form in semi-arid to humid areas, typically under a hardwood forest cover. They have a clay-enriched subsoil and relatively high native fertility. "Alf" refers to aluminium (Al) and iron (Fe). Because of their productivity and abundance, the Alfisols represent one of the more important soil orders for food and fiber production.

Alfisol - Wikipedia
Alfisols are the third most important soil order in the world, covering 13.1% of the world area. In the semi-arid tropics, Alfisols cover a much larger area of potentially arable and grazable lands than Vertisols, which have until now received far more attention from ICRISAT researchers. About 62% of the world's Alfisols are located in West Africa and India

Alfisols of the Semi-Arid Tropics: Problems and Potentials ...

Data for 15 soil management treatments on an Alfisol in the semi-arid tropics, India, were used to modify existing procedures of runoff prediction using USDA runoff curve numbers.

(PDF) Soil management and production of Alfisols in the ...

Alfisols in the semi-arid tropics: proceedings of the Consultants' Workshop on the State of the Art and Management Alternatives for Optimizing the Productivity of SAT Alfisols and Related Soils, ICRISAT Center, Patancheru, Andhra Pradesh, India.1-3 Dec 1983 / International Crops Research Institute for the Semi-Arid Tropics

ALFISOLS in the Semi-Arid Tropics | agropedia

Techniques to simulate effects of surface cover and tillage on runoff and erosion are described. Data for 15 soil management treatments on an Alfisol in the semi-arid tropics, India, were used to ...

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Alfisol - Wikimili, The Free Encyclopedia

Andhra Pradesh, India. : International Crops Research Institute for the Semi Arid Tropics (ICRISAT) Publication year: 1987: Series title: Proceedings of the Consultants' Workshop on the State of the Art and Management Alternatives for Optimizing the Productivity of SAT Alfisols and Related Soils, 1-3 December 1983, ICRISAT Center, India. Notes

Alfisols in the Semi-Arid Tropics: a Consultants' Workshop ...

The presence of Alfisols in this semi-arid region was surprisingly significant. • Available water capacity range is the widest in Inceptisols and in Alfisols and the narrowest in Aridisols. • Alfisols contained the largest proportions of inorganic carbon. • The total carbon stock depended on stoniness and climatic and pedogenetic history. •

Soil hydric properties and carbon stock in a semi-arid ...

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Alfisols In The Semi Arid Tropics Proceedings Of The ...

2. THE PROBLEM OF AGRICULTURE IN THE SEMI-ARID REGIONS 2.1 SOME GENERAL PROBLEMS 2.1.1 The Extent of Erosion. Most semi-arid regions suffer severe rainfall erosion, often more than in the humid tropics, because the rain has a high erosive capacity which is more damaging because, of the reduced vegetative protection Past erosion in Mediterranean lands is well documented by Lowdermilk (1975) and ...

2. THE PROBLEM OF AGRICULTURE IN THE SEMI-ARID REGIONS

generation Alfisols require relative short time. Their parent material is mainly base-rich as the soil itself. Alfisols are common in subhumid – semi-arid climates. The surface layer is of light color. The subsurface horizon is mostly argillic (Bt) (See Fig. 5). Especially base-rich clays (smectites) are abundant (Retallack 1990).

Classification and geochemistry of arid and semi-arid ...

Alfisols and Vertisols are the major soil orders in the semi-arid tropics (SAT). Alfisols, the most abundant soils in the semi-arid tropics, cover nearly 33% of the SAT region. They occur extensively in southern Asia, western and central Africa, and many parts of the South America ...

Hydrological behaviour of Alfisols and Vertisols

The conclusion that "55 - 70% of the seasonal rainfall on Alfisols either runs off or drains to deeper layers" is incorrect. S.A. El-Swaify, T.S. Walker and S.M. Virmani (1984). Dryland management alternatives and research needs for Alfisols in the semi-arid tropics: 14. By including seeders with precision metering as attachments to the

RAINFED AGRICULTURE IN A SEMI-ARID TROPICAL CLIMATE

Alfisol soils of rainfed semi-arid tropics (SAT) are degrading due to several physical, chemical, and biological constraints. Appropriate soil-nutrient management practices may help to check further soil degradation. A long-term experiment comprising tillage and conjunctive nutrient use treatments under a sorghum (Sorghum bicolor (L.) Moench)-mung bean (Vigna radiata (L.) Wilkzec) system was ...

CSIRO PUBLISHING | Soil Research

Alfisols occupy –10.1% of the global ice-free land area. In the United States, they account for –13.9% of the land area. Alfisols support about 17% of the world's population. The combination of generally favorable climate and high native fertility allows Alfisols to be productive soils for both agricultural and silvicultural use.

The Twelve Soil Orders | Global Rangelands

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Alfisols in the semi-arid tropics : proceedings of the ...

1:58 Table 1 Soils of the semi-arid tropics Soil order Area (million km²) Africa Latin America Asia Total Alfisols 4.66 1.07 L21 6.94 Aridisols 4.40 0.33 047 20 Entisols 2.55 0..72

Improvement of Soil Productivity Through Legume– Indian ...

Surface sealing and crusting on alfisols in the semi-arid tropics pose serious limitations to sustainable crop production and environmental quality. This study was conducted to assess some physical properties related to crust formation on a clayey-skeletal, mixed, isohyperthermic Udic Rhodustalf at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India.