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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

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

Improved farming systems are needed to enhance productivity and reduce degradation on hardsetting Alfisols in the semi-arid tropics. A long-term experiment was started in July 1988 at ICRISAT ...

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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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urea hydrolysis in semi-arid tropical alfisols and vertisols thesis submitted to the andhra pradesh agricultural university in partial fulfilment of the requirements for the award of the degree of doctor of philosophy in the faculty of agriculture by g,w.l. jayakumar soil chemistry unit dept. of soil science and

UREA HYDROLYSIS IN SEMI-ARID TROPICAL ALFISOLS AND VERTISOLS

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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, particularly northeast Brazil.

Hydrological behaviour of Alfisols and Vertisols

Soil management options for Alfisols in the semi-arid tropics: annual and perennial crop production. Cogle A.L., Rao K.P.C., Yule D.F., George P.J., Srinivasan S.T., Smith G.D., Jangawad L. Soil and Tillage Research. 1997 44(3-4). p.235 Soil quality shapes the composition of microbial community stress response and core cell metabolism ...

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The maximum SOC was found in red soils (Alfisols and Ultisols), alluvial soils (Entisols and Inceptisols), and black soils (Vertisols), while alluvial soils followed by arid soils had the maximum SIC content (Fig. 4). In arid soils, the SIC content was higher compared to SOC, because most of the carbon is in the form of calcium carbonate (CaCO₃).

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Table 1 Soils of the semi-arid tropics Soil order Area (million km²)
Africa Latin America Asia Total Alfisols 4.66 1.07 1.21 6.94 Aridisols
4.40 0.33 0.47 20 Entisols 2.55 0.72 Inceptisols 0.38 0.028 0.66
Mollisols 0.78 0.78 Oxisols 1.88 1.88 Ultisols 0.24 0.08 0.20 0.52
Vertisols 0.51 0.80 1.31 Others 0.70 0.23 0.93

Improvement of Soil Productivity Through Legume~ Indian ...

In the semi arid tropics Vertisol, Alfisols, and soils related to Alfisols account for 14.54 million km², or 69% of the land area. These soils are usually phosphate deficient. The phosphate that does exist is chemically bound with iron, calcium or aluminum.

Two Legumes Unbind Phosphate - fadr.msu.ru

Thirty-three percent of the soils in semi-arid tropics are Alfisols (Kampen and Burford, 1980). Low infiltration rates on these highly fragile soils are usually caused by a surface crust. Low infiltration rates on these highly fragile soils are usually caused by a surface crust.

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Rainfall infiltration and runoff from an Alfisol in semi ...

Evaluations of Alternate Cropping Systems for Alfisols of the Indian Semi-arid Tropics† - Volume 21 Issue 3 - M. S. Reddy, R. W. Willey

Evaluations of Alternate Cropping Systems for Alfisols of ...

2.1.2 Differences Between Semi-arid Regions. ... Alfisols are the largest order and cover about 32 percent of the African SAT and about 38 percent of the Asian SAT. Vertisols cover 6 percent of the total area but 25 percent of semi-arid India. Another example is Jones (1984), explaining the diversity of soils in the low rainfall areas of ...

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

Alfisols are important soils in the semi-arid tropics (SAT), covering nearly 33% of the SAT region. With their poor water retention characteristics, rainfed crop- ping of Alfisols is ever threatened with deficient soil moisture conditions even in relatively short dry spells.

Inter-row tillage for improved soil and water conservation ...

Tillage field experiments were conducted on Alfisols in a semi-arid

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tropical environment in India. The research was conducted within the framework of the Farming Systems Research Program of the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Analysis and evaluation of tillage on an alfisol in a semi ...

Abstract. 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.

CORE

Nonconventional Annual Cropping Systems Some success with minimum tillage land-use systems has been reported on Alfisols in the semi-arid tropics (Perrier (1983). Off-season tillage serves several useful purposes (Vijaylakshmi

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