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A Study on Terrestrial Nitrogen Cycle in India

By Megha Bhatt

SPS Feb 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x12 mm. Neuware - Nitrogen (N) is a nutrient essential to all forms of life. N in the biosphere is highly reactive and is rapidly cycled. Although N is the most abundant element in the atmosphere, it's a precious commodity -- a limiting nutrient -- in most undisturbed natural systems. This study was carried out for a preliminary understanding of terrestrial N cycle with Indian agroecosystem in particular. The major N pools and fluxes of agroecosystem with its allied consumer sectors of human, livestock including poultry, their products and by-products were estimated for the recent period. The temporal changes to these estimated pools and fluxes resulting from various anthropogenic influences were also studied. In agroecosystem, the major inputs to N cycle include wet deposition as nitrate nitrogen through rainfall, biological nitrogen fixation by nitrogen fixing leguminous and other crops, and dry N deposition by use of inorganic nitrogenous Fertilizers. The total crop N pool, being the largest (including economic and residual) was estimated. The major estimated consumer pools and fluxes include human (& their related fluxes such as food consumption, nitrogenous wastes, livestock & poultry, its waste etc. 196 pp. Englisch.



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