

Status, Drivers and Management of Degraded Sloped Pastures in the State of Rio de Janeiro

Roman Seliger¹, Dietmar Sattler¹, Udo Nehren⁴, Friederike Naegeli de Torres¹, Antonio Soares da Silva², Claudia Raedig⁴, Helga Restum Hissa³, Jürgen Heinrich¹

1) University of Leipzig, Institute of Geography, Physical Geography and Environmental Research, Germany 2) State University of Rio de Janeiro - UERJ, Institute of Geography, Laboratory of Physical Geography, Brazil, 3) Secretariat of Agriculture and Livestock of the State of Rio de Janeiro - SEAPEC, Rio Rural Programme, Brazil 4) Technische Hochschule Köln, University of Applied Sciences, Institute for Technology and Resources Management in the Tropics and Subtropics (ITT), Germany



distinctive erosion forms such as rills, cattle tracks and gullies. If no sustainable pasture management, rehabilitation or recovery will be applied to these fragile, historically strongly modified ecosystems, pastures will soon degrade to a degree and extent, where land use will not be profitable anymore and rural population might lose their main source of income ("tipping points"). In the long term, cattle ranching needs to be transferred from extensively managed slopes towards intensively managed plane areas with higher profitability and ecologic stability. Degraded sloped pastures should be stabilized by succession and afforestation. Moreover, farmers should get introduced to sustainable land management and agricultural best practices by technology transfer and technical assistance.

Palisade

rotational

pasture:

o Breaking

surface

runoff

o Decelerate

erosion

o Grass recovery

rigation pip

Drip ir