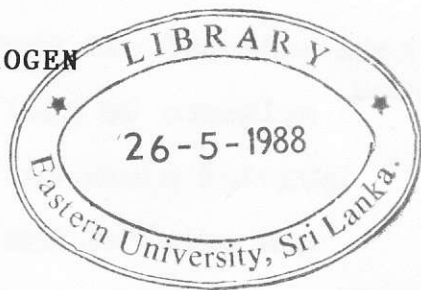


PERMANENT REFERENCE

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EFFECT OF ORGANIC MATTER
ON LEACHING LOSSES OF NITROGEN
IN REGASOL



BY

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ABSTRACT

A Laboratory experiment was conducted study the leaching loss of nitrogen from Regosol soil. Leaching loss of ammonium and nitrate nitrogen were determined at two weeks interval from soil columns of depth 6", 12", 18" and 24" with and without the addition of paddy husk, cowdung and urea.

Leaching loss of nitrogen was found to decrease with increase in depth of soil. Addition of cowdung increased availability of ammonium and nitrate nitrogen. Addition of paddy husk decreased leaching loss of nitrogen but did not increase the fertility of the soil.

Leaching loss of nitrogen from added urea occurred in the form of ammonium nitrogen in the early stages and later in the form of nitrate nitrogen. Addition of paddy husk reduced significantly leaching loss of ammonium and nitrate nitrogen from urea in the Regosol soil. It is concluded that paddy husk is a suitable organic material that could be used to minimize leaching loss of nitrogenous fertilizers fertilizers in Regosol soils.

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