Depth-wise distribution of different forms of nitrogen in apple growing soils of Pulwama district of Kashmir valley

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ABSTRACT: Depth-wise distribution of different fractions of nitrogen in some selective sites (soil depths) of district Pulwama of Kashmir valley was studied. In all the soil profiles nitrogen fractions (forms) decreased with increase in depth except the fixed NH_4 -N which increased with increased depth. Organic nitrogen showed highly significant positive correlations with total nitrogen (r = 0.987***), organic nitrogen decreased with depth while the fixed NH4-N increased and these two fraction were also showed highly significant correlation with each other (r = 0.645***).

Key Words: Nitrogen fractions, profile distribution, correlation and accumulation.