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The effect of six levels of nitrogen (0, 20, 40, 80, 120 and 160 kg/ha) on root density, grant

yield and uptake of nitrogen were studied on calcareous sandy loam soils (ravines) at Agra. The result showed that application of 160 kg N/ha significantly increased the grain yield (10.7 q/ha) of rainfed mustard over control (1.7 q/ha) and all other levels of nitrogen (2.7, 4.7, 6.7 and 9.7 q/ha), respectively. The uptake of nitrogen was high (2.2%) at 160 kg N/ha

but it was at par (2.02%) with the nitrogen dose of 120 kg N/ha. The root penetration was observed increasing with fertilizers reaching a depth of 42 cm at highest dose of nitrogen, and the root density was observed in increasing order with increased dose of nitrogen.