

RESPONSE OF CUMIN (CUMINUM CYMINUM) TO VARIOUS FERTILIZER LEVELS

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ABSTRACT

A field experiment on cumin was carried out under irrigated conditions, at Agricultural Research Station, Quetta. The treatments consisted of 4 levels of N (0, 60, 90 and 120 kg N ha⁻¹) and one level of P and K i.e. 60 and 30 kg ha⁻¹, respectively. All the three nutrients significantly increased plant height and biological yield. However, the seed yield was not significantly increased due to K application at low N level. But at the highest N level (120 kg N ha⁻¹) the increase as a result of K application, was significant. The highest benefit cost ratio (BCR of 15.2) was achieved with N application @ 60 kg N ha⁻¹. The BCRs decreased with the increase in N levels and use of P and K fertilizers. The highest seed yield (1180 kg ha⁻¹) was recorded under T₄ (120-60-30 kg NPK ha⁻¹) with BCR of 10.6.