Research Article

Soil test based fertilizer requirement for specific yield targets of summer pearl millet in *Vertic Ustocrepts*

H. L. SAKARVADIA, B. A. GOLAKIYA, K. B. PARMAR, K. B. POLARA AND P. I. JETPARA

**Summary**

A field experiment was conducted on pearl millet var. GHB-526 in medium black calcareous soils (*Vertic Ustocrepts*) using fertility gradient approach and fertilizer prescription equation were calculated. The results of follow up trials conducted at different location showed that the economics of fertilizer use based on soil test for achieving maximum yield indicated an additional benefit over general recommended dose at tested grain yield targets of 24, 30 and 36 q ha\(^{-1}\). The income/cost ratios of the additional produce obtained over recommended dose were 16.79, 4.21 and 3.34 for pearl millet grain yield at targets of 24, 30 and 36 q ha\(^{-1}\), respectively.

Key words: Nitrogen, Potassium, Pearl millet, Yield, Yield target