

138. Agarwal, M.C., Mohan, S.C., Dhyani, B.L. and Nirmal Kumar. 1996. Economizing fertilizer use for rainfed sesame (*Sesamum indicum* L) crop in Doon Valley. *Indian J. Dryland Agri. Res. & Dev.*, 11(1): 36-39.

The study was conducted at Dehradun under rainfed conditions to evaluate the effect of four levels of N (0, 15, 30 and 45 kg/ha) in combination with three levels of P (0, 30 and 60 kg/ha) in a split plot design with three replications on sesame crop (var. T-13). The quadratic response surface equation was computed for the average yield of two years and the optimum doses of N and P were estimated. Besides, marginal products, yield isoquants, marginal rate of substitution and least cost combination were also worked out to elucidate crop yield-fertilizer relationship.