



Response of Soybean to Organics and Phosphorus Fertilization in Vertisols of Marathwada Region of Parbhani (India)

M.S. Waghmare, V.D. Patil, M.S. Deshmukh and V.A. Deshmukh

*Department of Soil Science and Agricultural Chemistry, College of Agriculture,
Marathwada Krishi Vidyapeeth Parbhani-431 402, India*

Abstract: A field experiment was conducted for two consecutive years to determine response of soybean to organic sources (FYM and Vermicompost @ 5 t ha⁻¹) and with 0, 30, 60 and 90 kg P₂O₅ ha⁻¹. The grain yield and nutrient status was significantly influenced by organics and P fertilization. The higher yield and available N, P and K status was observed by application of Vermicompost (Vc) and 90 kg P₂O₅ ha⁻¹, followed by FYM and 60 kg P₂O₅ ha⁻¹. The test weight, Oil and protein content of soybean was also influenced significantly by organics and P fertilization.

Key Words: Available NPK, *Glycine max*, Grain yield, Oil, Protein content.
