

Research Article

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Effect of phosphorus and sulphur levels on yield, fractions of phosphorus and sulphur and nitrate reductase activity of soil after harvest of soybean

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Summary

A field experiments were conducted to study the effect of phosphorus and sulphur levels on yield, fractions of P and S and nitrate reductase activity of soil after harvest of soybean at Research Farm, Department of Soil Science and Agril. Chemistry, MKV, Parbhani (M.S.). The treatment consisted of four levels P (P_0 , P_{30} , P_{60} and P_{90} kg P_2O_5 ha⁻¹) and four levels of S (S_0 , S_{20} , S_{40} and S_{60} kg ha⁻¹) applied through DAP and elemental sulphur. Result indicated that grain and straw yield, Leghaemoglobin content from root nodules at 30 DAS and nitrate reductase activity of soil after harvest of soybean increased with increase in rate of application of P and S. The applied S and P increased the P and S fractions over control.

Key words : Nitrate reductase activity, Phosphorus, Sulphur, Soybean, Yield

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