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Effect of soil and foliar phosphatic fertilizer on growth and yeild of soybean (*Glycine max* L. Merill.)

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The field investigation entitled "Effect of soil and foliar phosphatic fertilizer on growth and yield of soybean" was conducted during the kharif season of 2012 at the experimental farm, Department of Agronomy, College of Agriculture, V.N.M.K.V., Parbhani with a view to find out the response of foliar and soil application of phosphatic fertilizer on growth and yield of soybean, to study the economics of foliar phosphatic fertilizer. The experiment was laid out in FRBD design with twelve treatment combinations, comprising of three phosphorus levels viz. P_1 (0 kg P_2O_2 ha^{-1}), P_2 (30 kg P_2O_2 ha^{-1}) and P_3 (60 kg P_2O_2 ha^{-1}) and four foliar sprays of BOOST-52 (0:52:34) viz., F_0 (no foliar application), F_1 (foliar application of BOOST-52 (0:52:34) at 35 DAS), F_2 (foliar application of BOOST-52 at 50 DAS) and F_3 (foliar application of BOOST-52 (0:52:34) at 35 DAS and 50 DAS). 30 kg N ha^{-1} as basal application and 1.25 kg K_2O ha^{-1} as foliar application at 35 and 50 DAS were common for all the treatments. Gross and net plot size was, 5.4 m x 4.5 m and 4.5 m x 4.0m, respectively. The genotype used for study was MAUS-71. From the result of experiment it can be concluded that among the phosphorus level P_3 (60 kg P_2O_2 ha^{-1}) and foliar application of BOOST -52 (0:52:34) at 35 and 50 DAS (F_3) were the best with better growth, yield and quality also highly profitable.

Biography

Dipali Kamble has completed MSc Agronomy from Dr. Panjabrao Deshmukh Krishi Vidhypeeth, Akola, India. Now she is pursuing PhD Agronomy at Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra, India.

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