

Research Article

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# Effect of organic manuring and inorganic fertilization on soil health and crop yield in soybean (*Glycine max* L.) onion (*Allium cepa*) cropping system

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## Summary

The field experiments were carried out continuously for two years, at cropping system research farm, at Vasant Rao Naik Marathwada Agricultural University, Parbhani to study the effect of organic and inorganic on soil health and crop yield of soybean (*Glycine max*)- onion (*Allium cepa*) Kharif and summer season. The experiments were conducted in Randomized Block Design with seven treatments. Among the different combinations of the tow application of 50% N through FYM + inorganic sources of micro nutrients (T<sub>1</sub>) recorded significantly beneficial effect on crop yield of soybean onion cropping system. The porosity, infiltration rate, soil pH, electrical conductivity, calcium carbonate and organic carbon observed improved with application of FYM + vermicompost + *Neem* seed cake (T<sub>2</sub>) as an treatments.

**Key words :** Cropping system, Organic, Inorganic, Soil health, Soybean, Onion

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