EFFECT OF P SOLUBLIZING BACTERIA ON YIELD OF WHEAT AND NUTRIENT AVAILABILITY IN ACID SOIL IN VARANASI REASON

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Abstract: A field experiment was conducted for two rabi crop during season 2009-2010 at Varanasi. To study the effect of application of rock phosphate along with P solublizing microorganism on yield of wheat and nutrient availability in inceptisol. The experiment finding the grain yield was significant increased with rock phosphate application up to 60 kg P₂O₅ ha⁻¹; highest yield was recorded with the addition of rock phosphate and P solublizing bacteria in combination of rock phosphate @60 kg P₂O₅ ha⁻¹. A significant increase in organic carbon and available NPK was also observed with use of rock phosphate + P solublizing bacteria. The result indicate that yield, maintained the soil health minimizing the cost of P fertilizer.

Keyword: Rock Phosphate, P use efficiency, wheat, PSM

REFERENCES


