



Effect of *Azotobacter*, FYM and PSB on productivity in pearl millet and wheat cropping system

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Abstract : The present study was conducted at Regional Research Station, Kalai (Aligarh), C.S. Azad University of Agriculture and Technology, Kanpur to study the effect of different doses of fertilizers and organic manures coupled with *Azotobacter* and PSB on yield and its attributes in pearl millet-wheat crop sequence. The results of three years experimentation 2004-5 to 2006-7 revealed that application of 100% RDF gave significantly superior grain yield of pearl millet over other treatments including control followed by 100% RDF N and P only. Similar yield pattern was also recorded in wheat yield. The fodder yield in pearl millet and straw yield in wheat were also significantly higher with application of 100% RDF followed by 50% N and P + 5t FYM+ *Azotobacter* +PSB. The pearl millet yield equivalent of 100% RDF was significantly ($p<.01$) superior over all other treatments. The net B:C ratio on pooled basis indicated that 50% N and P+ 5t FYM+ *Azotobacter*+ PSB and 50% N and P +2.5t FYM+ VC+ *Azotobacter* +PSB gave higher B:C ratio due to reduction in cost of fertilizer and inclusion of organic source of nutrients.

Key Words : *Azotobacter*, PSB, Wheat, Pearl-millet, Nutrient management, Bio-fertilizer

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