Comparative performance of phosphatic fertilizers and time of nitrogen application on wheat (*Triticum aestivum* L.) Variety PBW-343

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ABSTRACT

A field experiment on wheat PBW-343 was conducted during *rabi* 2005-06 and 2006-07 at Students' Instructional Farm of C.S.Azad University of Agriculture and Technology, Kanpur. Three sources of P viz., DAP, SSP and NPK mixture (12:32:16) and four times of N application viz., zero, 25, 33.3 and 50% as basal + rest N in two equal splits at C.R.I. and heading stages were tried in Randomised block design. The treatment of DAP @125 kg./ha having at par with SSP @60kg P$_2$O$_5$/ha + 25 or 33.3 % N as basal + rest N in two equal splits at C.R.I. and heading stages produced higher grain (46.68 q/ha) and straw yield (51.78 q/ha) and net profit (Rs. 31771/ha) than other treatments. The treatment of SSP + 50% N as basal + rest N in two equal splits at C.R.I. and heading stages produced significantly minimum seed (35.78 q/ha) and straw yield (40.70 q/ha), and net profit (Rs. 19779/ha). Nitrogen was applied @ 150 kg N/ha in all treatments.

**Key words**: Wheat, DAP, Single super phosphate, Yield, Net profit