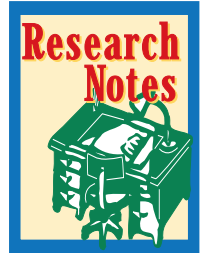


Phosphorus Soil Test Calibration for Lowland Rice on an Inceptisol

The study was conducted on two field experiments in central Brazil on Haplaquept Inceptisols. In the first year, phosphorus (P) was broadcast at rates of 0, 87, 175, 262, 350 and 437 kg/ha. In the second year band applications of 0, 22, 44 and 66 kg/ha P were made to each plot receiving broadcast P the previous year. Phosphate source was triple superphosphate.

Soil test levels of Mehlich-1 extractable P were categorized, based on relative grain yield of rice from the first year, as very low, low, medium or high. Broadcast P required to build up soil P test concentrations at very low, low, medium and high ratings was 80, 220, 292 and greater than 444 kg/ha, respectively. Rice yields were 0 to 70, 70 to 95, 95 to 100 and 100 percent of relative yield at the very low, low, medium and high soil P levels, respectively. The amount of banded P required for maximum yield at each location was 66 kg/ha for very low and low soil P levels, 44 kg/ha for the medium level, and 22 kg/ha for the high level. **BCI**

Source: N.K. Fageria, A.B. Santos and V.C. Baligar. 1997. *Agron. J.* 89:737-742.



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