PERFORMANCE OF TWO RICE VARIETIES AS AFFECTED BY THREE LEVELS OF NITROGEN FERTILIZATION

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A B S T R A C T

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The performance of two rice varieties as affected by three levels of Nitrogen Fertilizer was evaluated at the experimental area of Palangue II, Naic, Cavite during wet season.

The experimental area was laid out in 300 meter square land employing the Randomized Complete Block Design with three replications. The varieties compared were IR-5 and IR-66 and the three levels of Nitrogen fertilizer studied were: 0, 45, and 90 kilograms Nitrogen per hectare.

Result showed that plants fertilized with 90 kilograms of Nitrogen per hectare have significantly higher number of filled grains per panicle, more panicle per hill, more tillers per hill and higher grain yield compared to plants applied with low levels of Nitrogen. The yield of IR-5 and IR-66 increased with increasing level of Nitrogen fertilization. IR-5 performed better to IR-66 since the latter were taller and produced longer panicles, more filled grain per panicles had heavier seed and lower unfilled grains per panicle.

IR-5 produced the highest yield of 12,165 kilograms per hectare when applied with 90 kilograms fertilizer per hectare.

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