

**B-27: Rice-fish integration: determination of suitability of a rice variety (BG-400-1) integration with fish**

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BG-400-1 is a paddy variety approved by the Dept. of Agriculture for cultivation in the mid-country and for irrigated lands of low country.

The experiment was performed in 4 plots of 46 m<sup>2</sup> in area with a pond refuge of 1 m<sup>2</sup>. Pond refuge was located at the centre of the plot. Another 12 m<sup>2</sup> area was used for draining systems connecting the pond refuge so that fish could move in and around the plot. Poultry litter was the only fertilizer applied to rice plots at 1,000 and 2,000 kg/ha/week rates, during the first 12 weeks after transplanting. Seven days after transplanting, common carp fry were stocked at the rate of 130 fry/plot.

Paddy yield was significantly low (p 0.05) in those plots which received poultry litter at 2,000 kg/ha rate. Overall yield was also low due to lodging of paddy plants and also due to an attack by the brown plant hoppers. Per cent mortality of common carp was significantly low due to piscivorous birds which were abundant since paddy plants completely covered the plots.

This study indicated that BG-400-1 is not a suitable paddy variety for rice-fish integration.