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Quality characteristics of rice grains as influenced by varying irrigation regimes in furrow and bed transplanted rice (*Oryza sativa* L.)

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Abstract : A field investigation was carried out in Punjab Agriculture University, Ludhiana during the *Kharif* season 2005 to evaluate the effect of varying irrigation management practices on crop growth and grain quality characters in bed and furrow transplanted rice. Data on the brown, milled and head rice recovery indicated that the effect of different treatments on crop grain milling characters was non-significant. With reference to physico-chemical properties, all the treatments showed soft gel consistency *i.e.* gel consistency values varied from 87.7 to 97.0. Different treatments recorded low in gelatinization temperature (55-69°C). Protein content in grains was also not significantly affected. Grain yield reduced significantly in bed and furrow transplanted rice under all the irrigation methods in comparison to recommended practice. The magnitude of reduction was highest (37-38%) in 'F' irrigation method followed by 22.1 to 24 per cent in 'Inun. B+F' and 9.1 to 14.3 per cent in 'Inun. B' over recommended practice-[Flat (BM)].

Key Words : Brown, Milled and head rice recovery, Gel consistency, Gelatinization temperature

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