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In order to find out the optimum moisture regime and nitrogen dose for rice (var. Local Basmati), a study was carried out at the research farm of the Institute from 1975 to 1977. The treatment comprised three levels of water application and three levels of nitrogen doses. The results have established superiority of continuous submergence of 2 cm (+ 2 cm) yielding 2824 kg/ha as compared to 2326 kg/ha for saturation and 1781 kg/ha for rainfed conditions. Application of higher dose of nitrogen @ 80 kg/ha yielding 1967 kg grain/ha had no spectacular advantage over 40 kg/ha nitrogen application giving grain yield of 2512 kg/ha and 2455 kg/ha without nitrogen application.