

Study on growth and yield of some aromatic rice varieties

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Abstract

A field experiment was conducted at Agronomy field of Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka during the period from June to December 2017 with seventeen aromatic rice varieties viz., V₁= Chiniatap 1, V₂= Chiniatap 2, V₃= Kataribhog 1, V₄= Kataribhog 2, V₅= BRRI dhan34, V₆= BRRI dhan37, V₇= BRRI dhan38, V₈= BR5/Dulabhog, V₉= Khoisanne, V₁₀= Sadasanne, V₁₁= Zirabhog, V₁₂= Begun bichi, V₁₃= Shakkhorkhora, V₁₄= Chinigura, V₁₅= Kalijira, V₁₆= Badshabhog, V₁₇= Modhumala to study on growth and yield of some aromatic rice varieties. The experiment was laid out in a Randomized Complete Block Design (RCBD) with three replications. Regarding growth and yield parameters, the highest number of total tillers hill⁻¹ (23.33), leaf area index (5.38), flag leaf length (30.12 cm), number of effective tillers hill⁻¹ (21.67), panicle length (32.00 cm), number of grains panicle⁻¹ (230.3), number of filled grains panicle⁻¹ (212.7), grain yield (3.42 t ha⁻¹), straw yield (6.19 t ha⁻¹) and number of biological yield (9.610 t ha⁻¹) were found in var. BRRI dhan37 but the highest 1000- grains weight (22.80 g) and harvest index (37.48%) were found Modhumala followed by BRRI dhan34, respectively. The lowest number of effective tillers hill⁻¹ (13.33), panicle length (24.67 cm), grain yield (1.583 t ha⁻¹), straw yield (4.083 t ha⁻¹), biological yield (5.667 t ha⁻¹) and harvest index (27.89%) were found in the var. Modhumala.