

PERFORMANCE OF CAULIFLOWER AS INTERCROP UNDER MORINGA BASED AGROFORESTRY SYSTEM

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Executive Summary

An experiment was conducted in Agroforestry Field Laboratory at Sher-e-Bangla Agricultural University, Dhaka to find out the effect of planting distances on growth, yield and yield attributing characters of Cauliflower with four year old of Moringa (*Moringa oleifera*) trees. The study was conducted by following Randomized Complete Block Design (RCBD) comprising of four treatments with four replications. Four treatments were T₁ (50 cm distance from tree base), T₂ (100 cm distance from tree base), T₃ (150 cm distance from tree base) and T₄ (open field condition as control). Significant variations were observed in respect of all characters at different days after Transplanting (DAT) with different planting distances. Maximum no. of leaves (15.20), leaf length (34.13cm), leaf breadth (14.53 cm), stem diameter (1.45 cm), full weight (753.68 g), curd weight (421.18 g), curd diameter (14.30 cm), fresh (308.05 g) and dry (19.9 8g) weight of leaves, fresh weight of root (24.45 g), root length (17.38 cm) found in T₄ treatment. Minimum no. of leaves (13.65), leaf length (31.23 cm), leaf breadth (12.33 cm), stem diameter (1.18 cm), full weight (459.03 g), curd weight (290.58 g), curd diameter (12.95 cm), curd height (13.68 cm), fresh (155.23 g) and dry (13.53 g) weight of leaves, fresh weight of root (13.23 g) and dry weight of root (4.20 g), root length (12.10 cm) found in T₁ treatment. The highest plant height (39.35 cm) and maximum curd initiation day (62.88 day), curd height (14.90 cm) found in T₃ treatment. But in all other parameters T₃ treatment showed the second best results. The results demonstrated that the proximity of cauliflower to Moringa trees significantly influenced its performance. These findings suggest that a closer association with Moringa trees inversely influenced cauliflower's vegetative growth and yield.

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