

## **Comparative study on growth and yield of corn cultivars collected in Sabah**

### **ABSTRACT**

Environmentally friendly soil amendments are becoming increasingly popular currently. This experiment was conducted in the insect-proof rain shelter from 15th August until 1st December 2020. This study compares the growth and yield of five local corn cultivars collected in Sabah. The corns were cultivated on the same planting medium consisting of 25% dairy farm effluent (DFE) compost and 75% Silabukan soil. The experiment was laid in a Completely Randomized Design (CRD) for five cultivars with five replications. Corn cultivars had significant influence ( $p < 0.05$ ) on all growth and yield parameters except for flag leaf width and number of cobs per plant. Jagung Manis Telupid (C4) outperformed other cultivars on plant height (296.5 cm) and number of leaves per plant (13.75). Highest flag leaf length (67.67 cm) was recorded by Jagung Kampung Telupid (C2). While Jagung Manis Sandakan (C5) had the highest cob length (16.24 cm), cob diameter (38 mm) and cob weight (106.63 g). Therefore, planting of Jagung Manis Telupid (C4) is highly recommended for silage purpose while Jagung Manis Sandakan (C5) for its cob yields. Further study in the open field is suggested as the growth and yield performance might be different due to existence of other variables.