

ASSESSMENT OF GROWTH AND DEVELOPMENT OF HYBRID MAIZE COMBINATIONS IN YEN BAI CITY

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Summary

The experiments were conducted to evaluate the performance of six hybrid maize combinations (H0271, H7142, H7154, H41142, H65675, VS686) with a check DK6919 variety in summer-autumn and spring season at Yen Bai city. The results showed that all hybrid maize combinations gave the average time growth from 95-96 days and 101-104 days in summer autumn and spring season, respectively. Plant height of all hybrid maize combinations range 220,9 cm to 252,07 cm, in which the lowest plant height was recorded in H41142 and VS686 hybrid maize combinations. The highest leaf area index was obtained in VS686 hybrid maize combinations with value of 3.82 m²leaf/m²soil and 4.28 m²leaf/m²soil in summer autumn and spring season, respectively. Potential yield of hybrid maize combinations ranged from 7.20 – 9.41 tons/ha (Summer-Autumn season) and from 6.82 – 9.37 tons/ha (Spring season). Moreover, the actual yield of all hybrid maize combinations range 5.94 - 8.00 tons/ha (Summer–Autumn season) and 6.09 – 7.45 tons/ha (Spring season). It could be concluded that in both seasons, H7154 hybrid maize combinations showed the highest yield.

Keywords: Growth, hybrid maize combinations, YenBai city, yield.