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Evaluation of Asiatic hybrid lily varieties under Bhubaneswar condition

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ABSTRACT : An experiment was carried out for evaluation of five Asiatic hybrid lily varieties viz., New Wave (V_1), Orange Matrix (V_2), Alaska (V_3), Nov Cento (V_4) and Mount Negro (V_5) to assess their performance with respect to growth, flowering and bulb production during 2012-13 at the Department of Floriculture and Landscaping, OUAT, Bhubaneswar. The genotype under study showed significant variation for different characters. The analysed data indicated that the variety Nov Cento recorded significantly maximum plant height (26.16 cm) as compared to others, whereas the minimum was recorded in Orange Matrix (13.16 cm). Similarly maximum number of leaves per plant (108.04) was recorded in Mount Negro (V_5), maximum leaf length (5.18 cm) and width (1.72 cm) in Alaska (V_3), numbers of flower bud per shoot (4.17) in Mount Negro, flower width and length (17.83 cm and 11.60 cm, respectively) in Orange Matrix (V_2), on the other hand the minimum number of leaves per plant (36.71) was recorded in Orange Matrix (V_2), leaf length (2.84 cm) and width (0.76cm) in New Wave and Mount Negro, respectively, numbers of flower bud per shoot (1.52) in Orange Matrix (V_2), flower width and length (14.27cm and 8.61 cm, respectively) in Mount Negro (V_5). Variety Mount Negro (V_5) was the earliest (20.00 days) to produce flower bud whereas Orange Matrix was latest (30.0days). Variety Mount Negro (V_5) was found earliest to bud break from planting (44.48 days) and from appearance of flower bud (24.62 days). Whereas the maximum days were recorded in Orange Matrix (57.87 days) to bud break from planting and in New wave (30.17 days) to bud break from appearance of flower bud.

KEY WORDS : Asiatic hybrid lily, Evaluation, Significant, Genotype, Flower bud, Bud break, Variety

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