

Evaluation of Asiatic *Lilium* hybrids under shade net conditions

Jefferson Pyrtuh and U. Fatmi

Received October 14, 2017 and Accepted January 4, 2018

ABSTRACT : The experiment was carried to evaluate of ten Asiatic hybrids of *Lilium* viz., Courier, Blackout, Indian summer set, Pollyanna, Brindisi, Pavia, Velvet, Tracer, Sensation and Red Alert for their performance with respect to growth, flowering and bulb production during 2015-2016 under Allahabad conditions at the Experiment Field of the Department of Horticulture, Allahabad School of Agriculture, Sam Higginbottom Institute of Agriculture Technology and sciences. The genotype under study showed significant variation for different characters. The analysed data indicated that the variety *Blackout* recorded significantly maximum plant height (51.65 cm. Similarly maximum number of leaves per plant (45.27) was recorded in Velvet, Maximum plant spread (15.43 cm) was recorded in Blackout, Maximum leaf area index (3.42) was recorded in Red Alert, hybrid Blackout was found earliest to bud emergence from planting (71.47 days), Maximum bud length and diameter (11.84 cm and 2.26 cm, respectively) in Red Alert, Maximum flower length (12.01cm) was recorded in Red Alert and diameter (12.21 cm) in Velvet, first flowering (88.60 days) was recorded in blackout, Maximum stalk length and thickness (45.71 cm and 0.50 cm, respectively) in Blackout, Number of days taken to first flower senescence (3.33 days) was recorded in Blackout, Maximum vase life (6.67 days) was recorded in Blackout, Maximum number of bulb produced (3.00 bulbs) was recorded in Tracer, Maximum number of bulb per m² was recorded in Tracer (75 bulbs).

Key Words: *Lilium*, evaluation, hybrids, shade net, flower, flowering quality, bulb yield.