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Evaluation of garlic (*Allium sativum* L.) genotypes for yield and yield attributing traits under semi arid zone of Haryana (Hisar)

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ABSTRACT : The investigation was carried out at Research Farm of the Department of Vegetable Science, C.C.S. Haryana Agricultural University, Hisar during spring *Rabi* season of 2014-15. The data exhibited significant variation in 25 genotypes for different characters. The maximum plant height (95.5 cm) was recorded in genotype HG 4 and lowest recorded (63.23 cm) in HG 8. The maximum number of leaves per plant was observed in GRS 1349 and minimum in CGSD 1249. The minimum polar diameter of the bulb was recorded with the genotype GRS 1330 and maximum polar diameter of bulb with genotype HG 2. The highest and lowest equatorial diameter of bulb was recorded with genotype BGSD 1232 and HG 6, respectively. The bulbs of genotype BGSD 1230 (51.6 g) were heaviest among the genotypes and HG 5 produced the lightest bulbs (18.5 g). Number of cloves per bulb ranged from 21.9-44.4 and general mean was 33.7. The genotype GRS 1340 produced the maximum number of cloves per bulb (44.4) and the minimum number of cloves per bulb was recorded with genotype GRS 1349 (21.9). Average weight of cloves was recorded maximum in genotype GRS 1349 (108.8 g) and minimum in genotype CGSD 1232 (30 g). The highest yield was recorded with genotype GRS 1349 (140.27 q), while the minimum yield was observed in genotype GRS 1328 (55.13 q).

KEY WORDS : Garlic, Genotype, Bulb yield

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