SHORT COMMUNICATION

PERFORMANCE OF DIFFERENT MULCHES ON GROWTH AND YIELD OF CHILLI

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Abstract: The present experiment was conducted during summer, 2018 at the Horticulture research scheme, Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani. The experiment was laid out in randomized block design with 7 treatments viz; black, white, silver, red, yellow polythene mulch, soyabean straw, and control with replicated three times. The results indicated to the maximum plant height was reported at 60 and 90 DAT in silver polythene mulch (45.03cm, 58.06cm) respectively, while lowest plant height was recorded in control. The maximum plant spread in East-West direction was recorded in silver polythene mulch (66.11cm) and the maximum plant spread in North-South direction in silver polythene mulch (59.17cm). The maximum number of branches at 45 and 90 DAT in silver polythene mulch (10.40cm, 18.08cm) respectively. The maximum number of leaves in silver polythene mulch (413.55). The minimum days to first flowering and 50 per cent flowering (65.63days) was recorded in silver polyethylene mulch. The highest fruit girth (2.29cm) and fruit length (8.23 cm) was recorded in treatment silver polyethylene mulch, as compare to control. The highest average yield per plot (32.18kg) and per hectare (218.91qt) was recorded in treatment silver mulch.

Keywords: Chilli, Growth, Yield, Soybean straw, Plastic mulch

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