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# Organic amendment, biocontrol agents and soil solarization practice in management of Fusarium wilt of carnation caused by *Fusarium oxysporum* Schledit. f.sp. *dianthi* (Prill. and Del.) Syd. and Hans.

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## ABSTRACT

Carnation is severely affected by *Fusarium oxysporum* f.sp. *dianthi* which considerably affect the yield and quality of the flowers. Use of organic amendments, biological control agents and soil solarization alone and in combination with antagonists was tried in the present investigation. The results revealed that neem cake and pine needles out of nine organic amendments gave 77.49 and 72.49 per cent disease control with minimum disease incidence. Combined application of two antagonists *Trichoderma viride* and *T.harzianum* after 60 days of soil solarization practices registered minimum incidence (16.25%) of the disease followed by *T. viride* and *T. harzianum*. The growth characteristics stem length, number of flowers and flower size per plant also increased significantly in these treatments.

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