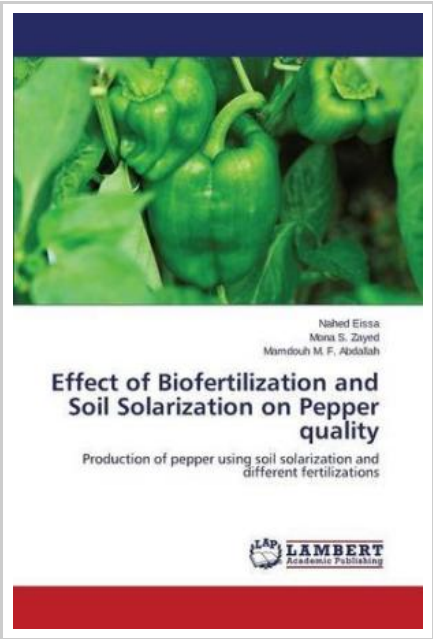

Effect of Biofertilization and Soil Solarization on Pepper quality

By Nahed Eissa

LAP Lambert Academic Publishing Nov 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - This investigation was designed to determine the effect of organic fertilizer, soil solarization and Bio-fertilization with vesicular arbuscular mycorrhizae (VAM) on plant growth, yield and quality of pepper fruit and to control soil-borne fungi and weed seed. Solarization combined with chicken manure increased maximum soil surface temperature 3.0 C° than solarized treatment alone as average of both seasons. Solarization 100% reduced the emergence of weeds, by killing or inhibiting the germination from the upper 15 cm. Solarization treatment significantly increased number of infected roots by VAM/100 roots of pepper. Concerning organic fertilizer and soil solarisation, gave significant increase in plant length, stem thickness and leaves number per plant when compared to pepper without organic fertilizer. Inoculation of pepper with VAM didn't show any significant effect neither on plant length (cm) nor stem thickness (cm). However the number of leaves per plans was significantly increased due to inoculation. Addition of organic fertilizer significantly increased pepper s early yield, total yield, total number of fruits per plot and significantly increased fruit length and diameter. 80 pp. Englisch.

Reviews

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