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## Effect of organic fertigation on yield and quality of bell pepper (*Capsicum annuum* var. *Grossum* Sendt.)

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**ABSTRACT :** Investigation on effect of organic fertigation on growth and yield of bell pepper (*Capsicum annuum* var. *grossum* Sendt.) was carried out at vegetable unit, Department of Horticulture, Faculty of Agriculture, Annamalai University, Annamalai Nagar, Tamil Nadu, during 2016-2017. There were nine treatment combinations including organic manures *viz.*, farm yard manure, vermicompost, bio-stimulants (Humic acid and Sea weed extract) and organic fertigation with *Neem* cake (two levels *viz.*, 1:20 and 1:40 dilution). Among the nine treatments, the treatment T<sub>7</sub> (Humic acid granules @ 5g plant<sup>-1</sup> + fertigation with *Neem* cake 1:20) exhibited the highest yield of 580.18 g plant<sup>-1</sup>, and it was followed T<sub>1</sub> (RDF 250 :150:150 kg NPK ha<sup>-1</sup>) with 561.5 g plant<sup>-1</sup>. However, the lowest yield was recorded under T<sub>8</sub>(FYM @125 g plant<sup>-1</sup> + fertigation with *Neem* cake 1:40) with 319.6 g plant<sup>-1</sup>. Among the nine treatments, the *per se* effect of organic basal supplements derived from the treatment combinations revealed the superiority of humic acid over other organic supplements.

**KEY WORDS :** Bell pepper, Organic fertigation, FYM, Vermicompost, Sea weed extract, Humic acid

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