

## **Influence of jeevamrit and kunapajala on growth and herbage yield of sweet basil (*Ocimum basilicum* L.) under Mollisol region of Uttarakhand**

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### **ABSTRACT**

*A field experiment was carried out during the Kharif season of 2019 at the Medicinal Plants Research and Development Centre (MRDC), G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, to investigate the impact of jeevamrit and kunapajala on the herbage yield and quality of sweet basil (*Ocimum basilicum* L.). The experiment was laid out in Randomized Block Design with eight treatments replicated thrice. Treatments i.e. T<sub>1</sub>: Recommended dose of fertilizer (RDF) (120:60:40) kg/ha, T<sub>2</sub>: 15 t/ha farmyard manure (FYM), T<sub>3</sub>: 500 l/ha kunapajala, T<sub>4</sub>: 1000 l/ha kunapajala, T<sub>5</sub>: 500 l/ha kunapajala + 7.5 t/ha FYM, T<sub>6</sub>: 500 l/ha jeevamrit, T<sub>7</sub>: 1000 l/ha jeevamrit, T<sub>8</sub>: 500 l/ha jeevamrit+ 7.5 t/ha FYM. The results revealed that the treatment T<sub>1</sub> obtained highest plant height (109.67 cm), number of branches (20.50), leaf: stem ratio (0.85), fresh weight (615.74 g/plant), dry matter accumulation (116.71 g/plant), crop growth rate (10.29 g/m<sup>2</sup>/day) as well as herbage yield (271.86 q/ha) but was statistically at par with treatment T<sub>8</sub>. Keeping in view the harmful effects of chemical fertilizers, the use of these eco-friendly fermented organic liquid manures provides alternate production technologies.*

**Keywords:** Dry matter, jeevamrit, kunapajala, *Ocimum basilicum*, organic, yield.