

## EFFECT OF SOLID AND LIQUID ORGANICS ON GROWTH, YIELD AND ECONOMICS OF FINGER MILLET [*ELEUSINE CORACANA* (L.) GAERTN.] GROWN UNDER RAINFED CONDITION OF SOUTH GUJARAT

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**Abstract:** A field trial was conducted at Krishi Vigyan Kendra, Rajendrapur Farm, Navsari Agricultural University, Waghai to study the “Effect of organics on soil properties, yield and quality of finger millet [*Eleusine coracana* (L.) Gaertn.]” during *kharif* season of 2018 and 2019 under rainfed condition of south Gujarat. Treatments were laid out in a randomized block design (factorial concept) with three replications and compared with control recommended practice consisting of 40-20-0 NPK kg/ha. In *kharif* season, treatments were allotted to different experimental units of finger millet through solid organics (Factor - S viz., S<sub>1</sub>: 100 % RDN through biocompost, S<sub>2</sub>: 75 % RDN through biocompost and S<sub>3</sub>: 50 % RDN through biocompost) and foliar application of liquid organics (Factor - L viz., L<sub>1</sub>: Enriched Banana Pseudostem sap @ 1 %, L<sub>2</sub>: Jeevamrut @ 1 %, L<sub>3</sub>: Vermiwash @ 1 % and L<sub>4</sub>: Cow Urine @ 1 %). On the basis of pooled analysis, application of 100 % RDN through biocompost was found significantly higher and at par with 75 % RDN through biocompost superior in growth studies as well as yield and yield attributing characters in *kharif* finger millet. Among the liquid organics tested, application of enriched banana pseudostem sap @ 1 % was found statistically at par with application of *jeevamrut* @ 1 % in above parameters. However, different treatments were failed to express any significant influence on test weight and harvest index.

**Keywords:** *Eleusine coracana*, Finger millet, Rainfed

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