

# **Nutrient uptake and quality parameters of sweet corn as influenced by liquid organic manures**

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## **ABSTRACT**

A field experiment entitled “Effect of liquid organic manures on the performance of sweet corn” was conducted during *rabi*, 2022-23 at Agricultural College farm, Naira to evaluate the performance of different liquid organic manures at various nutrient levels. The experiment was laid out in split-plot design in which different fertilizer levels are taken in main plots and different liquid organic manures are taken on subplots to assess the performance of sweet corn. Among the treatments, higher uptake of nutrients in both the kernel and stover was recorded with 100% RDF+ FYM @ 10 t ha<sup>-1</sup> which was on par with 75% RDF+ FYM @ 10 t ha<sup>-1</sup> and among the liquid organic manures highest uptake was recorded with application of liquid azospirillum+PSB+KRB +ZnSB@ 1.25 L ha<sup>-1</sup>. Significantly higher values of quality parameters were recorded with application of 100% RDF+ FYM @ 10 t ha<sup>-1</sup> and among the liquid organic manures application of liquid azospirillum+PSB+KRB +ZnSB@ 1.25 L ha<sup>-1</sup> recorded higher values which was on par with Panchagavya spraying @ 3%. There was no interaction between fertilizer levels and liquid manures for the parameters studied.

**Keywords:** *Liquid organic manures, Panchagavya, Phosphate solubilizing bacteria, Potassium releasing bacteria, Azospirillum.*