

# USING IMPROVED SWEETPOTATO VARIETIES TO CLOSE YIELD GAPS: AN AGRONOMIC APPROACH

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- To narrow yield gaps and attain potential yields, this study determined the impact in yield of the ten improved sweetpotato varieties against 4 local checks (GXE) over three seasons (2016-2018) in farmers' plots and under low input agricultural practices.
- The study design was randomized complete block design (RCBD) with three replications.
- Highly Interactive Data Analysis Platform (HIDAP) was used to compute coefficient of variations (CV), stability analysis for GXE interaction and additive main effects multiplicative interaction (AMMI).
- Root yield of the improved varieties was significant ( $P < 0.05$ ), a 2 fold increase in yield when compared the national average of 5 t/ha. Farmers selected the most preferred varieties
- When basic management practices are applied to the improved sweetpotato varieties, they can address the future demands for foods and nutrition in the country.