

EFFECT OF ORGANIC FERTILIZER AND INTERCROPPING FOR COWPEA (*Vigna sinensis*) AND SWEET CORN (*Zea mays* var. *regosa*) IN GROWTH, YIELD AND LAND EQUIVALENT RATIO (LER)

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ABSTRACT

A field experiment was conducted during summer season (2009) to study the effect of four levels of organic fertilization (0, 3, 6, 9) ton/ha and intercropping for Cowpea and Sweet Corn. The experiment was factorial in R.C.B.D. with three replications. Results showed that significant increases in growth and yield characters when used organic fertilizer was applied at 9 ton/ha and gave highest seed yield for Cowpea and Sweet Corn plant (79.35 and 46.33 gm) respectively. Intercropping for Cowpea and Sweet Corn decreased almost all studied characters, while increased the land Equivalent Ratio (LER) and gave 1.64. The interaction treatment of organic fertilization and single planting for Cowpea or Sweet Corn gave the highest seed yield (96.33 and 49.42 gm/plant) respectively.