

CHARITY & JAMES MURIUNGI KIRERA

MERU COUNTY | SISTEMA 8 | INSTALLATION DATE: 11/11/2018



“Biofertilizer leaves the soil healthy, reduces cost of inputs and doubles yields“

ABOUT CHARITY & JAMES

Charity and James Muriungi own a 1-acre farm at Kathiranga in Githongo, Meru. They grow a diverse mixture of crops commercially and for subsistence including potatoes, tree tomatoes, cabbage, maize, kales and arrow roots that he grows on a rotational basis. Their major commercial crops are potatoes and cabbage. They keep 8 cows and 15 chicken which provide them with milk and eggs that they sell as well as biogas and 190 liters of biofertilizer from their Sistema 8 biodigester. They are a proactive biofertilizer user, using it to fertilizer all parts of their farm through an underground piping system.

LIFE BEFORE BIOFERTILIZER

Charity and James first started using biofertilizer in 2018. Before getting their biodigester, the highest seasonal potato yield they could expect was 10 bags from 1/8 of an acre. Their chickens weighed 2.5kg on average and they were regular users of synthetic fertilizers such as TSP.

LIFE AFTER BIOFERTILIZER

After only one and half years of using biofertilizer, they report that their seasonal potato production has doubled to 20 bags on the same area, and they have been able to stop using synthetic fertilizer on all his crops. This means Charity and James are able to make more money and cut their costs! They feed the chickens with a mixture of biofertilizer and feed, a practice that has doubled the chicken weight to 5kg and boosted their health. They also use biofertilizer as a foliar feed for his crops which serves as an additional nutrient supply. Lastly, They have noticed how combining undigested cow dung and biofertilizer speeds up the process of decomposition and provides them with material for mulching his crops which helps conserve water in their farm's soil.





IMPACT



100% increase in potato production from 10 to 20 bags on 1/8 of an acre.



100% increase in chicken meat weight from 2.5 to 5kg, thanks to using biofertilizer as a feed supplement.



Complete replacement of synthetic fertilizers with biofertilizer = less costs!



Reduced chicken feed costs through using biofertilizer as a feed supplement.

