



BRIEF REPORT ON THE USE OF PLANT CATALYST FOR SOYBEAN PRODUCTION AT ESTATE 81

SoyBean Crop

The Soybeans were planted on 24th December 2019. The crop production was all under rain fed. After germination, Plant Catalyst application commenced – which was one week after planting.

Application:

1. This was a foliar spray once per week for 8weeks. After 8weeks (2months), the foliar application was stopped.
2. Dosage was at 150mls in 200Litres of water and knapsacks were used for spraying

Below are pictures of the Soybean Crop



Without Plant Catalyst



With Plant Catalyst

At Mid stage, this is how the crop looked like:



Without Plant catalyst but after NPK



With Plant Catalyst after NPK

After Plant Catalyst withdrawal at 2 months, pictures were taken after a couple of days:



Without Plant catalyst

With Plant Catalyst totally covered spaces

Results:

- At vegetative stage, it was clear that plant health and crop stand for the one that had plant catalyst foliar sprays was much healthier than the one that had no foliar spray as can be seen in the pictures above.
- After withdrawal of sprays at 8 weeks, pictures taken after a couple of days after spray stoppage, the crop that received sprays had better canopy – totally covering spaces than the one without sprays.

Yield comparison was done for the Soybean without Plant catalyst and with plant catalyst use at 13% moisture.

Variety was Tikolore – a DARS variety.

Below is a table of results calculated at Average metric tonne per hectare:

Without Plant Catalyst	With Plant Catalyst
1.44MT	1.91MT

This was despite a slight dry spell at the maturity stage.

M Nkhoma
Three N Agriculture