

# 2025 - 2026



## MAIZE TRIAL

To determine the effectiveness of Nature's **Kos** line of Organic chicken manure fertilisers on Maize, (yellow).

### Crop & Seed Information

- Trial Location: Maize Triangle, Hopestad, Free State
- Seed Variety/Type Used: Yellow Maize
- Seed Source: Local supplier
- Plot
- Plot 1: 100m<sup>2</sup> (Nutri-Groei+ @ 2nd & 6th weeks)
- Plot 2: 100m<sup>2</sup> (Control, no fertiliser)
- Plot 3: 100m<sup>2</sup> (Nutri-Groei @ planting & then Nutri-Groei+ @ 2nd & 6th weeks)
- Plot 4: 100m<sup>2</sup> (Nutri-Groei+ @ planting & then again @ 2nd & 6th weeks)
- Soil Type: Sand
- Soil Preparation Details: Uncultivated
- Planted date: 21 December (P1 & P2) & 11 Jan 2025 (P3 & P4)
- Seed Rate: 50cm apart
- Seeds planted: by hand
- Plants germinated:
- Plot 1: 248/260 (95%), avg. cob weight 243g
- Plot 2: 216/260 (83%), avg. cob weight 200g
- Plot 3: 250/260 (96%), avg. cob weight 299g
- Plot 4: 190/260 (73%), avg. cob weight 275g
- Harvest Date: 19 & 30 May 2025
- Mixer Ratio: 75g per plant or 1/10 (1L fertiliser to 9L of water)
- Application: backpack sprayer
- Quantity: 2L mixer (20L/hectare)

### Fertilizing Schedule

### Observations

- Plot 1, 3 & 4, having being fertilized with NG & NG+ produced a stronger healthier plants
- Plot 1, 3 & 4, plants grew faster and achieved a heights between 1,4 to 1,6m
- Plot 1, 3 & 4, higher percentage of 3 cobs per plant
- Plot 1, 3 & 4, produced higher yields than Plot 2
- Plot 3, planted 11 Jan 2025 and only germinated after 4 weeks, grew faster and stronger than Plot 2, plant 23 Dec 2024. The picture above shows the different in plant development between the two plots.



### Proven Performance

Nature's Kos organic fertilisers have demonstrated clear advantages in maize production, **delivering stronger, healthier plants with faster growth** and improved overall performance. Trials showed significantly **higher germination rates** compared to untreated crop. Fertilised plants also produced a **higher percentage of multiple cobs with higher weight per plant** and consistently outperformed control plot in yield. Even under delayed germination conditions, treated crops grew faster and stronger, highlighting the flexibility and effectiveness of the Nature's Kos range. It must be noted that the NK range of fertilizers also **increase the yield of Maize** across the fertilized plots.

