

Increased Plant Growth

- ✓ Higher Yield / Production
- ✓ Greater Root Mass
- ✓ Higher Nutrient Value (Ca, Si, Mg, trace elements)

Inputs with Vermicast

- ✓ Humus
- ✓ Carbon
- ✓ Nutrients (N, P, Ca, Mg, K, S, Na)
- ✓ Microorganisms
 - ✓ Fungi
 - ✓ Bacteria
 - ✓ Mycorrhiza
 - ✓ Beneficial Nematodes
- ✓ Enzymes
 - ✓ Phosphatase
- ✓ Plant Growth Promoters
 - ✓ Auxins
 - ✓ Gibberellins
 - ✓ Indole Acetic Acid (IAA)
- ✓ Trace Nutrients
- ✓ Silicate
- ✓ Earthworms

Higher CO₂ Uptake

- ✓ Increase Biomass (Yield & Roots)
- ✓ "Sequester Carbon"
- ✓ Feed Soil Organisms
- ✓ Build Soil Humus

Reduce Emissions

- ⊘ Nitrous Oxides (NO_x)
- ⊘ Ammonia (NH₃)

Reduce Surface Runoff

- ⊘ Sediment
- ⊘ Phosphate
- ⊘ Nitrate

Humus Increases:

- ✓ Nutrient Storage
- ✓ Water Holding Capacity
- ✓ Aggregate Stability
- ✓ Food for Soil Organisms

Enzymes Unlock Nutrients

- ✓ Phosphates
- ✓ Trace Elements

Beneficial Microorganisms

- ✓ Mobilise Nutrients
- ✓ Suppress Diseases and Pests
- ✓ Mycorrhiza 'extend' root zone
- ✓ Stabilise Soil Aggregates

Reduce Nutrient Leaching

- ⊘ Nitrate
- ⊘ Potassium
- ⊘ Phosphate

Plant Growth Promoters Increase:

- ✓ Root Growth (density, depth)
- ✓ Root Activity (nutrient uptake)
- ✓ Carbon Sequestration

