



Novelgro Terra & Organic NPK

Application on Eucalyptus Plantation



Novelgro TERRA

What is Novelgro TERRA?

TERRA is soil revitalization substance to develop fertility of soil from negative effects of erosion, bad soil treatment, low pH and application of excessive chemical fertilizer.

With healthier soil environment, it will naturally permit plants to increase its resistance from insects, stress and illness therefore the yield can be expected to increase.

TERRA is so efficient, it takes only 400mL and diluted into 400L water to cover 1Ha land.

How TERRA works?

TERRA evidently increases the soil electrolyte capacity and increases organic carbon in form Humic and Fulvic Acids.

These acids have important role to let better ion exchange process between roots and fertilizer. They also, gradually let useful microbes to live in soil.

Benefits of TERRA

- increases quantity and quality of yield
- activates plant enzyme
- increases root volume
- increases plant resistance from insects, stress and illness
- Reduces negative effect of low pH soil on plants

- increases beneficial microbes population in soil



Novelgro Organic NPK

It is a Release-On-Demand (ROD) mineral fertilizer which works by ion exchange mechanism to make sure plant receive a right dose of nutrients thus to avoid deficiency or overdose. The fertilizer consists of macro and micro nutrients that are needed for general plants. It's also an environmental friendly fertilizer.

This technology enables effective and efficient agriculture system and can be observed on eucalyptus trial. In eucalyptus, the fertilizer had been applied at dose 750gr – 2,000gr for each plant. This amount of fertilizer was applied once at the beginning of planting process and required no further application of fertilizer.

Application of Novelgro TERRA and Novelgro Organic NPK on Eucalyptus Plantation

Trial Treatment:

CONTROL PLANT FERTILIZER DOSES	
APPLICATION TIMING	FERTILIZER TYPES AND DOSES PER PLANT (EUCALYPTUS)
at Seedling Planting	CIRP = 250 g 15-15-15 = 150g
6 months	urea = 100g
12 months	15-15-15 = 200g
18 months	15-15-15 = 250g
24 months	15-15-15 = 250g urea = 100g



TREATMENT PLANT FERTILIZER DOSES

APPLICATION TIMING	Produk NOVELGRO
Nursery	10kgs of Novelgro Organic NPK per metric cubic of potting mixes. Novelgro TERRA at 1:1000 dilution is sprayed on the potting mixes.
Treatment 1 Seedling Planting	Novelgro Terra = 400 cc/ha Novelgro NPK = 750 g/plant
Treatment 2 Seedling Planting	Novelgro Terra = 400 cc/ha Novelgro NPK = 1500 g/plant
Treatment 3 Seedling Planting	Novelgro Terra = 400 cc/ha Novelgro NPK = 2000 g/plant

A. Nursery Treatment





B. Field Treatment



Seedling ready to transplant



Novelgro TERRA application



Plant from seedling applied with 2000 grams of Novelgro Organic NPK at the age of 3 months after transplant.

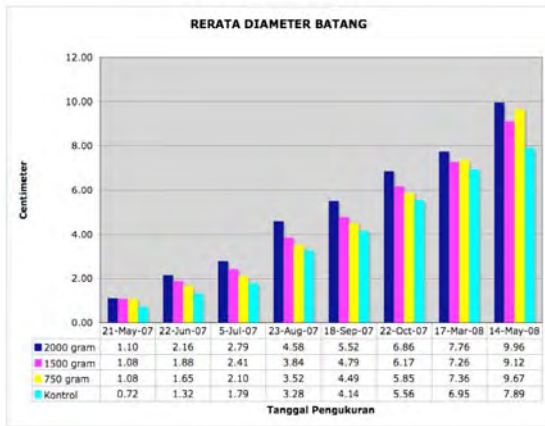


Application on grown plants





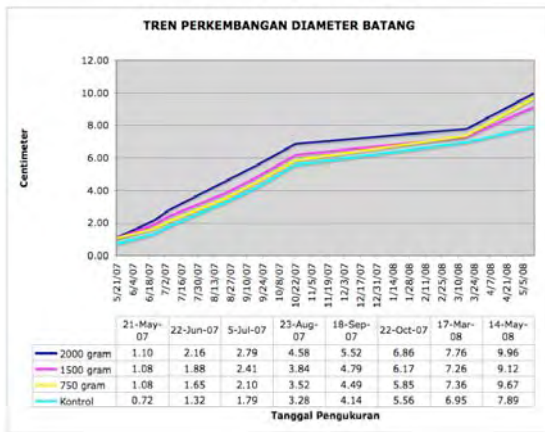
Average Trunk Diameter Comparison



Plants Height Growth Trends on Different Treatments and The Control Plant



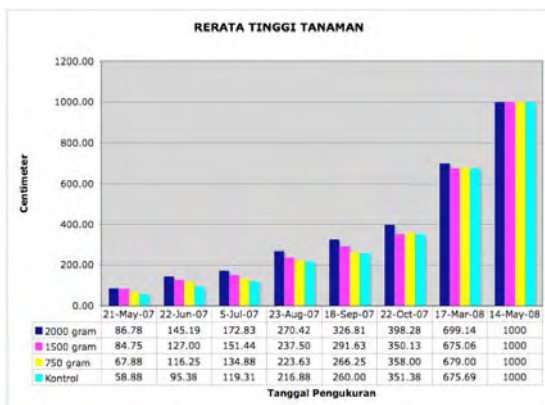
Trunk Diameter Growth Trends on Different Treatments and The Control Plant



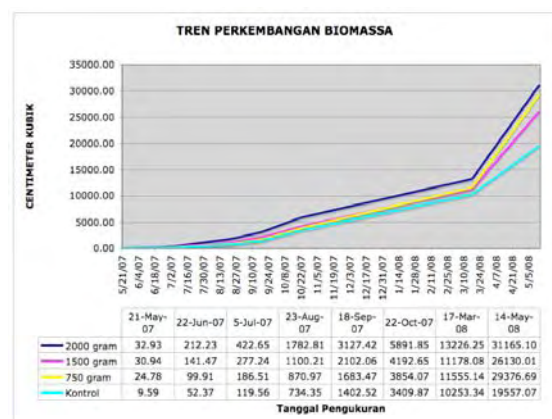
Average Biomass Volume Comparison



Average Plants Height Comparison



Biomass Growth Trends on Different Treatments and The Control Plant





Treatment plant after 3 months



Control plant after 3 months

SUMMARY

Benefits of using Organic NPK & TERRA are:

- Labor cost saving.
- Saving transportation cost to bring fertilizer from warehouse to location because in the current process they have to do 5 applications at the same location in 2 years time while our process only needs 1 application.
- Great increase in productivity.

Our product is the solution to manage big plantation efficiently and effectively with promising substantially increase in yield.