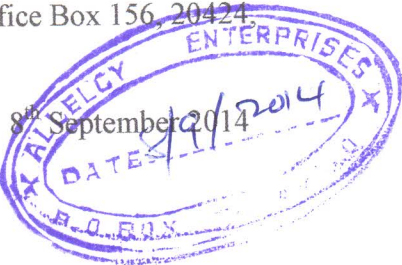


Alleley enterprises
Post office Box 156, 20424
Amalo

Date



8th September 2014

«Nanoagricole», Ltd

signature

Fertilizer test protocol

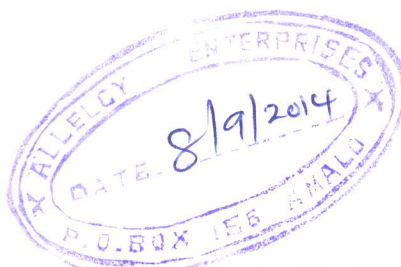
Concentrated micronutrient fertilizers with biostimulant complex Nanoagricole

TC C 24.1-36626417-002:2009

Nanoagricole, 2014

1. Subject: concentrated chelated micronutrient fertilizers Nanoagricole.

2. The purpose of the test: to determine the effect of foliar application of plants with the micronutrients Nanoagricole in terms of Narok South (Kenya) climate and soil.



3. Methods of research:

3.1 Field method- to determine interaction of object of the test with natural factors;

3.2 Measurement and weight - to determine the biometric parameters of plant growth and development;

3.3 Mathematics and Statistics - for the evaluation of the received results which shows the impact of fertilizers on productivity of Irish Potato and general scientific methods.

Determining the efficacy of micronutrient Nanoagricole has been conducted in the following way:

1) Crop: Irish *Potato*

2) (Treatments) Application of fertilizers: There were two treatments;

- i. No treatment control (Plants not applied Nanoagricole);
- ii. Crop treatment with Nanoagricole

3) The crop was planted on 24th May 2014, basal application of DAP fertilizer was done during planting. First emergence was observed on 22nd June 2014. There were three replications of each treatment. These replicates basically formed the "Blocks" see illustration below, the two treatments randomized completely within each block. These would take care of variations of soils in the field. (Hence, there were six observations).

R1	R2	R3
Nanoagricole	Control	Control
Control	Nanoagricole	Nanoagricole

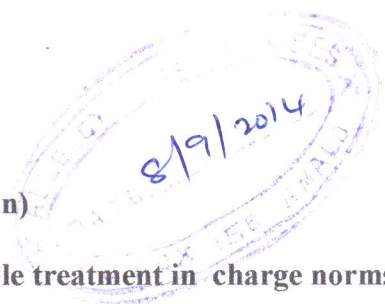
4. Trials have been carried out by: (Kirui k. Rickson)

5. Application process:

Foliar nutrition of Potato one hectare was performed with the solution Nanoagricole potato in the initial stage of vegetation (4-6 leaves) in charge norm 2l/1ha deluting the solution 1:100 to concentration of 1%. No treatment control areas were not applied with Nanoagricole. The temperature of s the spray solution was about +10°C), and air temperature was +17°C. The nutrition was performed Late in the evening. Retreatment was done in 3 weeks.

Plant protection products used: Mistress (800 g/ha), Milraz (1kg/ha) Nurel D – 0.5l/ha. Application of Chemical pesticides was based on disease and pest scouting facts.

(Results and Discussion)



The comparative characteristics of crop yields after double treatment in charge norms 2l/1ha.

Crop	Kind, hybrid (variety)	Area, ha	Crop Yield (Tons/ha)			Notes
			Non treated control area	Nanoagricole	Increase (t/ha)	
Irish Potato	Dutch Robjin	1	23.396	27.500	4.104	Plant vigor was generally improved, The size of Tuber was greatly enhanced following treatment

Analysis of variance

Variate: Yield_T_ha

Source of variation	d.f.	s.s.	m.s.	v.r.	F pr.
Rep stratum	2	76.891927	38.445964	4542.54	
Rep.*Units* stratum					
Treatment	1	25.266276	25.266276	2985.31	<.001
Residual	2	0.016927	0.008464		
Total	5	102.175130			

Tables of means

Variate: Yield_T_ha

Grand mean 25.448

Treatment	Control	Nanoagricole
	23.396	27.500

The above two outputs (Analysis of variance and table of means) are obtained from running the data using Genstat Statistical software (VSNI). The ANOVA shows us that the observed differences are statistically significant (F pr <.001) and the mean yields obtained based on respective treatment are 23.396t/ha and 27.5 t/ha.

In areas where nanoagricole was applied, there was generally increased plant vigor and development; and the tuber sizes from these areas were generally bigger (hence improved overall yield). More research would indicate if indeed the foliar fertilizer increases the number of tubers per plant. Overall, there was an increase of yield by 17.5% in the areas treated with Nanoagricole fertilizer.

Consequently, chelated micronutrient fertilizer Potato Nanoagricole has positive impact on the yield of treated Potato crop.

6. Conclusion:

- Double spraying of vegetation with Chelated micronutrient fertilizer Nanoagricole on the crop contributed to higher productivity of Irish Potato from an average of 23.39t/ha to 27.5 t/ha (17.5 % increase) in areas of Narok South/Kenya.
- The microfertilizer Nanoagricole gives obvious effect on crops, yield increase is received, therefor application of the product is profitable.

Affirmation has been performed and issued by:

Company name: Alleley Entreprises

Position: Business development

first name/last name Rickson Kipngetich Kirui

Signature:

