

**TESTING CENTER NATIONAL FERTILIZERS  
IMPORT EXPORT COMPANY GREEN LAND VIETNAM**

**REPORT  
TESTING WITH FERTILIZER EARTHCARE  
SUMAGROW INSIDE  
( For Broccoli at Yen Vien, Gia Lam District, Hanoi)**

Hanoi, 6/2014

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## PART I

### ABOUT PRODUCT TESTING

#### Brief Introduction

Agriculture Vietnam has made significant achievements in increasing crop yields, making Vietnam become the second largest exporter in the world. With the tremendous growth that inorganic fertilizers are used more and more by the use of inorganic fertilizers to land is significantly degraded, more pest-contaminated environment more and currently very difficult to meet the international standards of agricultural products rising.

In a new development trend, agriculture ago primarily based and inorganic fertilizers will be replaced by sustainable agriculture where fertilizer is used more efficiently, not to the nutrient excess of waste and polluting the environment, use of organic fertilizers, limited use of plant protection products, improve the quality of agricultural products.

Development trends and requirements to become a driving force for the development of the fertilizer.

#### Introducing the assay

Currently the US is one of the leading countries in the development and use of organic fertilizers, microbial ... These products are researched and produced based on the method, new achievements of biotechnology. The application of this new fertilizer has gained a lot of results, creating a global race for the quality of agricultural products. Countries using the new fertilizer can be produced agricultural products, crop quality and higher gain competitive advantage in the marketplace.

With the advice and assistance of the Centre National Fertilizer Assay, 2013 Limited Liability Company export the Dat Viet Xanh Farmers' Association in collaboration with Gia Lam District conducted fertilizer trials performed *EarthCare with SumaGrow Inside* Bio Soi Enhancers company, Inc. (BSEI, USA) on vegetables Broccoli at Yen Vien Commune, Gia Lam District, Hanoi.

**Some basic characteristics of the fertilizer trials:** Body dark gray liquid, odorless. (Composition *EarthCare with SumaGrow Inside* the certificate of the manufacturer).

No.	Category	Unit	Result
1	Humic Acid	%	12,0
2	<i>Bacillus subtilis</i>	CFU/ml	$2.10^9$
3	<i>Rhizobium meliloti</i>	CFU/ml	$2.10^9$
4	<i>Rhizobium trifoli</i>	CFU/ml	$2.10^9$
5	<i>Azospirillum lipoferum</i>	CFU/ml	$1.10^9$
6	<i>Trichoderma virens</i>	CFU/ml	$1.10^9$
7	<i>Trichoderma viride</i>	CFU/ml	$2.10^9$

## PART II

### CONTENT AND METHOD OF TESTING

#### A. GOAL

Evaluate the effects of EarthCare with SumaGrow Inside fertilizer to growth, development, productivity, quality, and efficiency of vegetable production on soil away from Gia Lam district to:

- Increase product yield clean, safe, capabilities and reliability of farming land.
- Get top quality products to supply products meeting high quality requirements for supermarkets and processing facilities.
- Producing environmentally friendly by using organic fertilizer micro partially replace chemical fertilizers.

#### B. CONTENTS AND METHODS OF TESTING

##### 1. Subject to the assay

**1.1. Soil:** Soil testing is arranged at Yen Vien Commune, Gia Lam District, Hanoi. Soil properties before testing as follows: pHKCi: 5:39, total organic carbon: 0465%, Fe digestion: 19.81 mg / 100g, total N: 0044% P2O5 total: 0351% P2O5 easy target: 181.84 mg / 100g, K2O total: 18.1%, K2O easy target: 6.81 mg / 100g, exchanging Ca = 6:47 meq / 100g, mg = 1.00 meq / 100g, K = 0:13 meq / 100g, Na = 0:24 meq / 100g, CEC = 11.9 meq / 100g.

**1.2. Fertilizer trials:** Fertilizer EarthCare with SumaGrow Inside

Table 1. Composition of the nutrient content of fertilizers assay (according to the results of laboratory analysis: LAS -NN 55 according to the standards of the Vietnamese . Centre National Fertilizers assay).

No.	Category	Unit	Result
1	Organic content	%	60,52
2	<i>Bacillus subtilis</i>	CPU/g	4,0.10 <sup>6</sup>
3	<i>Rhizobium spp.</i>	CPU/g	2,4.10 <sup>5</sup>
4	<i>Azospirillum spp.</i>	CPU/g	6,5.10 <sup>5</sup>
5	<i>Trichoderma spp.</i>	CPU/g	KPH

##### 1.3. Crops:

Vegetable Broccoli

##### 1.4. Local testing:

Assay alluvial soil in Yen Vien, Gia Lam District, Hanoi City.

#### 2. Contents of the assay

##### 2.1. Recipe testing for Vegetables:

Formula 1 (CT1): 100% NPK fertilizer (5-10-3) + are not spray *EarthCare with SumaGrow Inside* (A / C).

Formula 2 (CT2): 50% NPK fertilizer (5-10-3) + spray *EarthCare with SumaGrow Inside* 20Lit / ha.

Note: NPK fertilizer NPK (5-10-3) Lam Thao.

##### 2.2. How to use fertilizers EarthCare with SumaGrow Inside :

Get volume *EarthCare with SumaGrow Inside* ratio formula injection experiments on each of the cultivated area. Fertilizer diluted with water so that 16-18 liters of spray evenly distributed 360 m<sup>2</sup>. Spray 2 times separated by 3-4 weeks.

Notice:

- Do not spray with fungicide disease.
- Can be sown 1-2 days before injection (injection into the ground) while other times normal spray, spray the cool evening to ensure optimal absorption.
- Gently shake the bottle before spraying.
- Loosen the lid on the container after receiving the product to the bacteria.
- Save at temperatures from 4.5 to 26.5 degrees C
- Term used best as recommended by the manufacturer.

### 2.3. Method according to local fertilizer to each crop:

Table 2. Location, object, background and seasonality of fertilizer trials.

No.	Crops	Similar	Locations	Background fertilizer	Seasonal	Noted
1	Vegetables	Broccoli	Gia Lam	15 kg of NPK (5-10-3)	12/16/2013	

### 2.4. Method of application:

For the vegetables: The amount of NPK fertilizer before sowing

### 2.5. Density, plant spacing trials.

Table 3. Density of plant spacing in the assay

No.	Crops	Locations	Method of sowing / transplanting	Density
1	Kale	Gia Lam	Sowing promoted	210-230/m <sup>2</sup>

## 3. Testing methods

### 3.1. Layout:

Large-scale demonstration trials 1 are not repeated in 1000 m<sup>2</sup> area.

### 3.2. The target tracking and analysis:

land:

Soil properties before and after the experiment (pH, organic carbon, P<sub>2</sub>O<sub>5</sub>ts & dt, Kt & dt, Ca, Mg, Na exchange).

Crops:

Indicators of growth and development: high trees, colorful leaves, harvest volume periods.

Yield and yield components, quality product.

Effective fertilizer.

### 3.3. Harvesting:

Each cell collection point represents 3-5, 1-2 m<sup>2</sup> per point to feature real interest revenue.

The volume of trees: Cut root weight at the farm, unit kg / m<sup>2</sup>.

### 3.4. Data processing:

The data were processed in EXCEL, IRRISTART.

### **PART III**

#### **ASSAY RESULTS**

##### **1. RESULTS OF TESTING FOR VEGETABLES**

###### **1.1. Location test:**

Yen Vien Commune, Gia Lam District, Hanoi.

###### **1.2. Seasonal assay**

Table 4. Seasonal assay

No.	Seasonal	Vegetables	Sowing time	Harvest time
1	Winter season	Broccoli	12/16/2013	01/19/2014

###### **1.3. Processing time Fertilizer EarthCare with SumaGrow Inside:**

- On 12/19/2013 spraying fertilizer EarthCare with SumaGrow Inside doses of 10 liters / ha. When spraying fertilizer plant leaves begin to appear, it did not rain, cold temperatures less than 20o C so the growing plants are not favorable.



*Test shots spraying fertilizer EarthCare with SumaGrow Inside (19/12/2013)*



-On 01/06/2014 spraying fertilizer EarthCare with SumaGrow Inside 2nd dose of 10 liters / ha. This period has seen the difference between the rows of vegetables using spray fertilizer formulations EarthCare with SumaGrow Inside and spray formulations. In spray formulations plant density of 220 plants / m<sup>2</sup>, healthy green leaves, green leaves characteristic of vegetables, fewer pests, thus reducing the number of sprays pesticide formulations ^ compared EarthCare with SumaGrow Inside spray. Spray formulations plant density less: Only 200 plants / m<sup>2</sup> green gold, green leaf nutrient deficiencies.



*Test shots spraying fertilizer EarthCare with SumaGrow Inside (01/06/2014)*

#### 1.4. Assay results:

Table 5: Effect of fertilizers with SumaGrow EarthCare Inside assay to yield components and yield of winter vegetables Broccoli 2013-2014

Formula	Fresh mass (kg/m <sup>2</sup> )	The proportion of commercial (%)	Marketable yields (tonnes/ha)	Bumper than (CT1)	
				Tonnes/ha	%
CT1	1,88	93,4	17,6	-	-
CT2	2,58	93,7	24,2	6,6	37,5
CV (%)					
LSD0,05					

**Comment:**

Results of fertilizer trials EarthCare with SumaGrow Inside (CT2) on vegetables Broccoli showed experimental formula fertilizer increased plant height, increase the rate of finished products, have contributed to a bumper yield of vegetables Broccoli CT1 compared to 6.6 t / ha respectively 37.5%.



*Photographs of vegetables assay results Restoration (01/18/2014)*

Table 6: Effects of fertilizers EarthCare with SumaGrow Inside assay to yield vegetable and economic efficiency in the assay points

Parameters	CT1	CT2
Yield (tonnes/ha)	17,6	24,2
CT1 increased compared to control ( (tonnes/ha)		6,6
Increased compared to control (%)		37,5
Incomes (1000 VND/ha)		19.800
Cost of fertilizer increased (1000 VND/ha)		10.000
Net Profit (1000 VND/ha)		9.800
VRC coefficient		0,98

**Note:** Estimated cost of fertilizer products:

Fertilizer prices EarthCare with SumaGrow Inside expected: 500,000 VND / liter.

Price NPK (5-10-3): 4400 VND / kg.

Prices of commercial vegetables some 3,000 VND / kg.

Fertilizer use experimental formula.



### **1.5. Net interest and index VCR:**

Net interest and VCRs are two important criteria in evaluating the economic efficiency of fertilizer use, to help producers decide whether to invest in production or not. Results of the study are shown in Table 6.

Table 6 shows: in comparison with CT1 CT2, spray EarthCare Inside SumaGrow with costs rising fertilizer use, but do not affect net income. If 50% of NPK fertilizer supplemented with EarthCare SumaGrow Inside, the net profit 9.8 million VND / ha.

### **1.6. Effect of fertilizer EarthCare with SumaGrow Inside assay with some chemical properties of the soil at the point of testing:**

Through the results of soil analysis in the planning and design institute of agriculture we have commented as follows:

#### **1.6.1. Nutrient elements in the soil:**

Element rich plant are mobilized and used well to levels tend to decrease. P<sub>2</sub>O<sub>5</sub> total decreased from 0.351 to 0.242% P<sub>2</sub>O<sub>5</sub> easy reduction from 181,84mg / 100 g to 178.53 mg / 100g, K<sub>2</sub>O<sub>5</sub> total has decreased 1.180% to 1.102%.

Elements in the soil poor, by contrast, after the experiment tends to increase.

Total N increased from 0.044 to 0.056% K<sub>2</sub>O digestion increased from 6.81 to 13.74 mg / 100g.

Particularly easy target elements Fe remained high and increased from 19.81 to 23.77 mg / 100g land.

#### **1.6.2. Effects reclamation**

The organic carbon content increased from 0.465 to 0.779%

pHKci increased from slightly acidic (5.39) to near neutral (5.74)

No base level rise due to Ca and Mg exchange rose: V% increased from 90% to 92%

### **1.7. Effects of fertilizers EarthCare with SumaGrow Inside assay quality vegetables at point assay**

Use of fertilizers affect the quality of the product. We analyzed several indicators Dam nitrate and heavy metals can affect the quality of vegetables. Initially we have commented as follows:

Protein nitrate reduced from 1165 mg / 100 g to 718 mg / 100g, fiber increased from 0.685% to 0.894% of the heavy metals arsenic elements: 0.19 mg / kg (provisions: 1.0), Lead: 0.19 mg / kg (regulation 0.3), Mercury: 0.0016 mg / kg (provisions: 0.05), Cadmium: 0.0038 mg / kg (regulation 0.1).

#### ***comment***

Thus the use of fertilizers with SumaGrow EarthCare Inside reduces Urea nitrate residue in the product (this is an important criteria for evaluating the product is safe or not before being used). In addition, heavy metal residues in the products was lower than the permissible level.

## **PART IV**

### **CONCLUSIONS AND RECOMMENDATIONS**

#### **1. CONCLUSION:**

From the assay results with SumaGrovv EarthCare Inside fertilizer on yield and quality of vegetables Broccoli strain on me to draw the following conclusions:

Soil improvement effects:

Clearly improve the situation of cultivated land as described above.

Yield:

Formula Fertilizer experiments with SumaGrow EarthCare Inside (CT2) on vegetables Broccoli showed increased plant height, increase the rate of finished products has contributed to a bumper yield of vegetables Broccoli than 6.6 tons CT1 / ha, respectively up 37.5%.

Profit:

The reduction of 50% NPK fertilizer supplemented with EarthCare Inside SumaGrow did yield 6.6 t / ha, equivalent to 37.5% and net income of 9.8 million VND / ha along with ensuring quality higher product. This will be more evident when the vegetable production area is recognized as the safe vegetable production and selling cost will increase.

Some spend the following products chemistry experiments:

The use of fertilizers EarthCare Inside SumaGrow do with Urea nitrate residue in the fall, this is an important criteria for evaluating the product is safe or not before being used. In addition, heavy metal residues in the products was lower than the permissible level.

#### **2. MOTION:**

Through the testing results we find with Fertilizer EarthCare Inside effectively SumaGrow very good for local vegetables assay. We suggest the Council of Science and Technology - Ministry of Agriculture and Rural Development and the Department of Agriculture recommends Rural Development and the Provincial and City propaganda used for short-term crops and other crops in agricultural production.

**UNIT TESTING ADVICE**  
**TESTING STUDY CENTRE NATIONAL**  
**FERTILIZERS**  
**Deputy Superintendent of**



**Pham Trung Hoa**

**UNIT TESTING**  
**LIABILITY COMPANY IMPORT AND**  
**EXPORT CLASSES DAT VIET XANH**  
**Directors**



**Nguyen Le Thanh**



**PLANNING AND DESIGN INSTITUTE OF AGRICULTURE**  
**Analysis Department of Land and Environment**  
**Chuoi 61 - Hai Ba Trung – Ha Noi**  
**Tel : (84-04)38210623 Fax : (84-04)38210623**

## BOND PAYMENT ANALYSIS RESULTS

**Unit sent samples: Rating liability company import and export of Dat Viet Xanh**

**Quantity: 02**

**Receipt form: 12/20/2013**

**Requirements Analysis: Spending soil**

**Loại mẫu: Đất**

No.	Notation	pH (KC1)	The total organic carbon (%)	Fe digestion (mg/100 g)	Total (%)			Digestion (mg/100g)		Exchange (meq/100g)			
					N	p <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	P205	K20	Ca	Mg	K	Na
1	Grazing land for cattle	4.81	1.499	29.15	0.123	0.122	2.30	36.15	5.10	10.90	2.17	0.11	0.21
2	Placed in vegetables	5.39	0.465	19.81	0.044	0.351	1.18	181.84	6.81	6.47	1.00	0.13	0.24

Hanoi, January 7, 2014

Chief

Master. Tong Thi Thanh Thuy

*Note: The results stated in the ballot is only valid for samples submitted to the laboratory area.  
Sample storage time and to resolve all questions shall not exceed 15 days from the date indicated on the coupon payment date results*

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### RESULTS ANALYSIS FORM

**Unit sent samples:** Rating liability company import  
and export of Dat Viet Xanh

**Address:** 23 - Hamlet Ha Hoi, Hoan Kiem, Hanoi **Date sent samples:**  
01/24/2014; **Type of samples:** Soil; **Number of samples:** 01 samples

No.	Spend analysis	Unit	Levels	Noted
1	pH (KCl)		5.74	
2	The total organic carbon	%	0.779	
3	Total nitrogen	%	0.056	
4	Total P <sub>7</sub> O <sub>5</sub>	%	0.242	
5	Total K <sub>7</sub> O	%	1.102	
6	P <sub>7</sub> O <sub>5</sub> digestion	mg/1 00r	178.53	
7	K <sub>2</sub> O digestion	mg/iOOR	13.74	
8	Ca exchange	meq/100Ou	7.003	
9	Mg exchange	meq/100On	1.133	
10	CHC	meq/10()g	8.785	
	II Fe digestion	mg/100g	23.77	

**Planning and Designing Institute of  
Agriculture**  
Chief TCHC



**Hoang Thi Le Giang**

Hanoi, February 12, 2014  
Chief

**Master. Tong Thi Thanh Thuy**

*Note: The results stated in the ballot is only valid for samples submitted to the laboratory area.  
Sample storage time and to resolve all questions shall not exceed 15 days from the date indicated on the  
coupon payment date results*

## **COMMENT RESULTS ANALYSIS OF LAND BEFORE AND AFTER THE EXPERIMENT OF GROWING VEGETABLES**

### **I. nutritional elements in the soil:**

1. The element rich plant are mobilized and used well to levels tend to decrease.

- P2O- total decreased from 0.351% to 0.242%.
- P2O5 digestion decreased from 181.844 mg / 100g to 178,53mg / 100g.
- K2O total book also decreased from 1,180% to 1,102%.

2. The element of poverty, by contrast, tend to rise after TN:

- N total tang.tu 0.044 to 0.056%.
- K2O digestion increased from 6.81 to 13.74 mg / 100g.

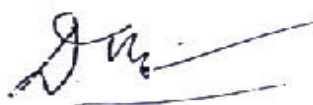
3. Particularly easy target elements Fe remained high and increased from 19.81 to 23.77 mg / 100g land.

### **II. Effect of soil improvement.**

1. CHC concentrations increased from 0.465 to 0.779%.
2. pH (KCl) increased from slightly acidic (5.39) up near the crystal (5.74)
3. The no base increase due to Ca and Mg exchange increases.

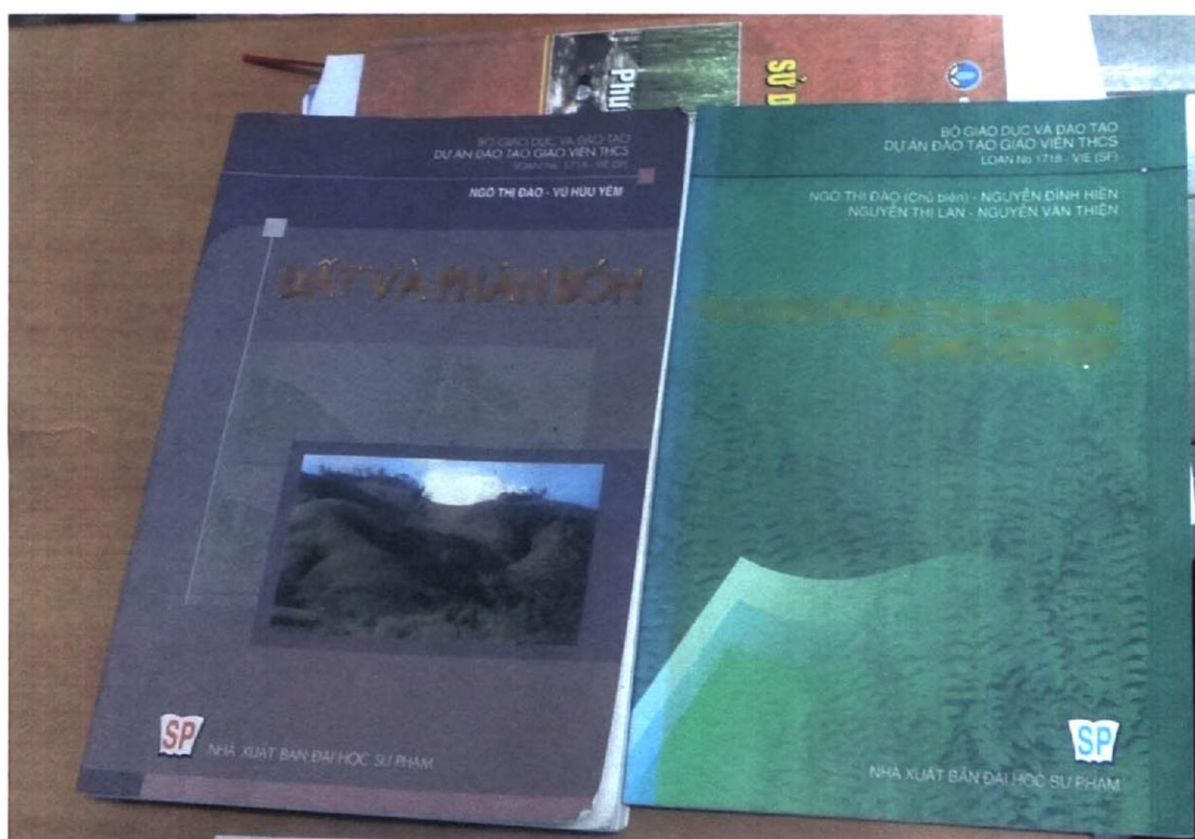
V% increased from 90% to 92.6%

### **Written comments**



**Dr. Ngo Thi Dao**

**Former Head, Department of  
Soils University of Pedagogy I  
Hanoi**



Two books by Dr. Ngo Thi Dao as Editor



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## RESULTS ANALYSIS FORM

Unit sent samples: Rating liability company import  
and export of Dat Viet Xanh

Address: **23 - Hamlet Ha Hoi, Hoan Kiem, Hanoi** Date sent samples:  
**01/24/2014; Type of samples:Vegetables; Number of samples: 02 samples**

No.	For analysis	Unit	M1( Don't spray)	M2(Spray)
<b>1</b>	Total sugar	%	3,375	3.425
<b>1</b>	N( <sub>3</sub> )	mg 100g	1165.0	718.0
3	Fiber	%	0.685	0.894
4	/n	<b>mg/kg</b>	10.995	8.275
5	Pb	mg/kg	0.018	0.01 y
6	Cd	mg/kg	0.0034	0.0038
7 /	<b>Cu</b>	mg/kg	1.39	0.65
8	As	mg/kg	0.1 86	<b>0.190</b>
9	<b>llg</b>	mg/kg	<b>0.0018</b>	0.0016

**Planning and Designing Institute of  
Agriculture**  
Chief TCHC



**Hoang Thi Le Giang**

Hanoi, February 12, 2014  
Chief

Master. Tong Thi Thanh Thuy

*Note: The results stated in the ballot is only valid for samples submitted to the laboratory area.  
Sample storage time and to resolve all questions shall not exceed 15 days from the date indicated on the  
coupon payment date results*



**Photo taken on 01/18/2014**

**Harvest vegetables a month after planting.**

**Beds left:** no wife Earthcare with Sumagrow inside

**Beds right:** Spray Earthcare with Sumagrow inside

**SOCIALIST REPUBLIC OF VIETNAM**  
**Independence - Freedom - Happiness**

**LEASE AGREEMENT, LENDING CHESTS EXPERIMENT**  
**(Number    / HD)**

Pursuant to Civil Code No. 33/2005 / QH11 dated 14 / 6/2005 of the National Assembly of the Socialist Republic of Vietnam;

Based on the needs and capabilities of the two sides;

Today, December 10, 2013, we include:

**1. Parties fields leased, borrowed (known as Party A)**

By Mr. (Ms.): Hoang Thi Thao Position: Family farmers

Address: Phu Dong commune

Phone: Fax:

CMT: 010695984

Hanoi police due August 16, 2012

**2. The lease, lend fields are: Company Rating liability Dat Viet Xanh (known as Party B)**

By Ms. Nguyen Le Thanh Position: Director

Address: Hamlet 23 - House of Islam - Hoan Kiem - Ha Noi

Phone: 0989653902 Fax:

CMT: 010438324

Hanoi police due February 7, 2014

The two sides agreed to sign the contract in accordance with the following terms:

**Article 1: The contents of the contract.**

Party A and Party B agrees to lend land to farm is producing fertilizer assay as follows:

Fields of:.....

Land belonging to the same address:.....

An area of: 1000 m2

Write in words:.....

Purpose of Party B: Apply or spray fertilizer on current crop production that party A is recommended measuring, counting, collecting data on fertilizer experiments.

Term: In production for each crop by Party A, Party B that needs testing.

**Article 2: The responsibilities of each party**

**Responsibilities party A:**

Carry out planting and care of trees planted in a normal manner.

- Arrangement of experiments requested by Party B.
- Spray or apply fertilizers under the guidance of Party B.
- Regularly check and proactive pest control.
- Harvesting, using the whole plant products brought on experimental area.

**Responsibilities of Party B:**

- Providing free (free of charge), the fertilizers that party B will experiment with

plant area of side A.

- Announcements, Party A guide to the types of fertilizer used laboratory (features, effects, dosages used, the influence of fertilizers on the quality of plant products if any ...)
- Support Party A arising in the course of the experiment, if any (specific agreement, based on the specific situation where two parties agree)
- Announcement of test results for party A (by exchanging text or specific depending on the situation)
- Be responsible and compensate all losses and crop on an area of experimental versus control acreage or yield crops remaining in the same type of household most near field experiments.

**Article 3: Method of payment**

Based on the fact that Party B will pay Party A cash payment arising out of labor or loss of crop yield.

**Article 4: Effect of Contract**

This contract expires after the end of production on plant experiments that the two sides have no idea what suggestions.

**Article 5: Commitment**

Both parties commit to the terms stated in this agreement. During the implementation process, if requirements change or supplement the contract, both parties shall promptly agree in writing to be valid supplemented with contract.

This contract shall be effective from the date of signing. Made of 04 copies of the same value (each 02 pages) each hold 02.

**CONFIRMATION OF THE  
PEOPLE'S COMMITTEE PHU  
DONG COMMUNE**



PHÓ CHỦ TỊCH  
Nguyễn Văn Hưng

**REPRESENTED BY A**  
(Signature with name)

*Chào*  
Hồng Thị Chào

**REPRESENTED BY A**  
(Signature with name)

*TMB*  
Ng Lê Thang





Photo taken on 02/15/2014 at grass plantations Phu Dong Commune, Gia Lam

- Inside the goal line with Sumagrow Earthcare grass sprayed 3 times starting from 12/19/2013.
- Outside goal line untreated



Photo taken on 02/15/2014 at Phu Dong commune grass field

Earthcare grass sprayed with Sumagrow 3 times

Photo taken on 02/15/2014 at Phu Dong commune grass field

Earthcare grass sprayed with Sumagrow



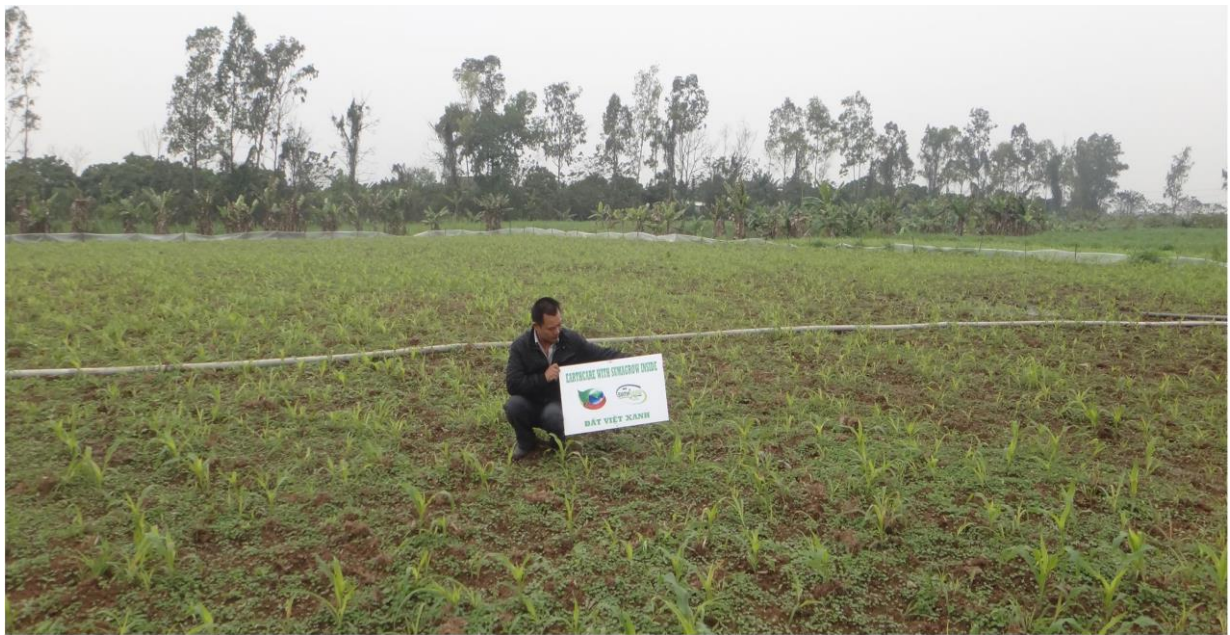


Photo taken on 02/15/2014 at grassland by planting people in Phu Dong  
Grass field was sprayed 3 times with Sumagrow Earthcare started on 12/19/2013

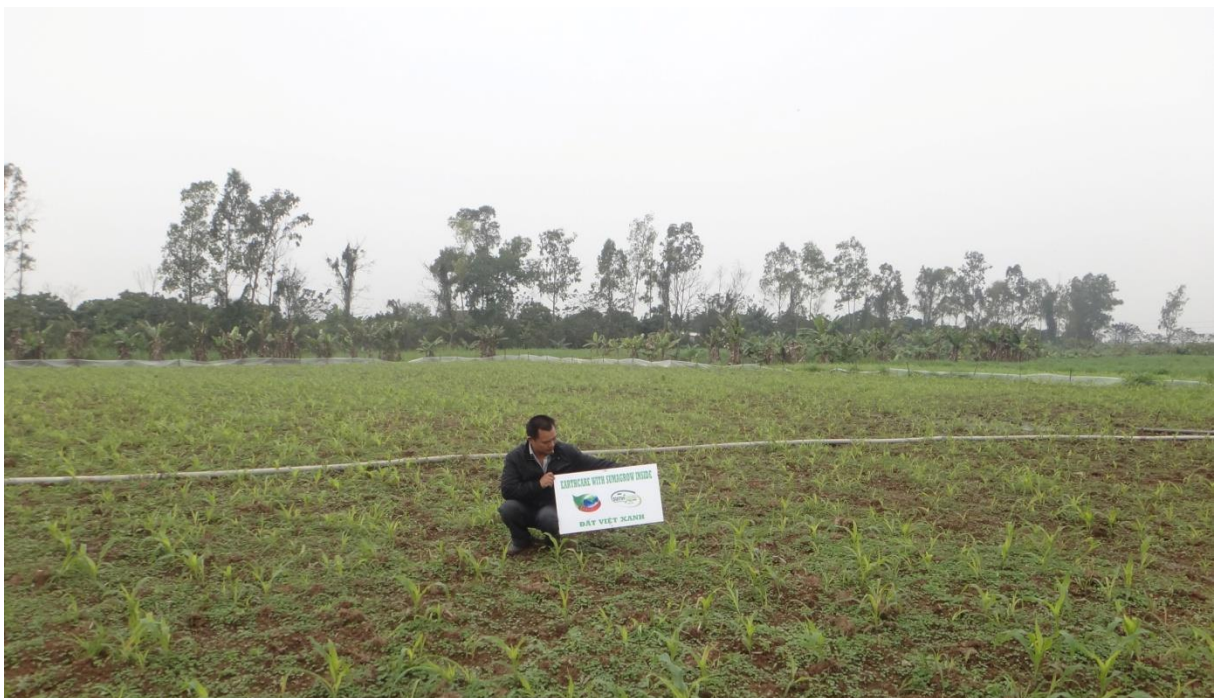


Photo taken on 02/15/2014 at grassland by planting people in Phu Dong  
- Do not spray grass fields with Sumagrow Earthcare





- Photo taken on 02/15/2014 at the field planting corn, Phu Dong commune.
- Corn is sprayed 2 times with Sumagrow Earthcare starting 01/06/2014



- Photo taken on 02/15/2014 at the field planting corn, Phu Dong commune.
- Corn is not sprayed Earthcare with Sumagrow.





**Grass for cattle in Phu Dong commune**





**Harvesting grass for cattle in Phu Dong commune**





Use Sumagrow yield 9kg / m<sup>2</sup>  
Do not use Sumagrow yield 6.5kg / m<sup>2</sup>



Untreated corn Sumagrow



Corn puff Sumagrow





Shrubbery at the Vinh Phu Vinh Lac-made materials to produce diabetes drug

Figure 1: There used Sumagrow

Figure 2: Do not use Sumagrow





1. The roots of strawberry plants using Sumagrow
2. The roots are not used Sumagrow



Results using Sumagrow on rice in Phu Dong commune,  
productivity gains 80kg / 01 perches.  
No disease, no death galvanized cold, not spilled rice after tornado





There used Sumagrow



Do not use Sumagrow









### **1. Results after fertilization Sumagrow:**

Bake tea after fertilization development Sumagrow 15 days better than no fertilizer Sumagrow tea cultivation, thick plump buds. Just over an area of 1,300 m<sup>2</sup> this tea for one (no fertilizer Sumagrovv) harvest was 214 kg, for 2 (after fertilization Sumagrovv) harvested 318 kg - an increase: 104 pounds (48.60%). Currently to have sex for 3 well tea gardens, tea leaves fat and uneven development

### **Conclude**

After testing fertilizer on tea tree Sumagrow see remarkably effective as productivity, quality and environmental improvement of land for sustainable development of tea tree special offers Ihu high income for tea growers. This is a reliable product for tea plantation company was rated commercial liability Hung Cuong seriously investigated some farmers of Vietnam Forest Town, Vi Xuyen District, Ha Giang Province.



**1**



**2**

Experiment with Sumagrow Earthcare coffee tree in Son La (photo dated 06/28/2014)

Figure 1: Do not spray Sumagrow

Figure 2: There are sprayed Sumagrow

Experimental 5000m<sup>2</sup> of land

Dated 05.19.2014: 1st spray Sumagrow

Dated 06.24.2014: 2nd injection Sumagrow

**Results: There is a green spray well, no sandals.**