

Testimonial obtained from the highlands of Vietnam
AREA: City of Dalat
CROPS: Row Crops (Vegetables)

ORGANIC FERTILIZER CROPMASTER

Cropmaster is the name of a U.S. technically advanced organic fertilizer program recognized by The Vietnamese government that has been permitted to apply for agricultural yield in Vietnam by the Minister of Agriculture and Rural Development, Decision No.1189.

Cropmaster is a new generation fertilizer formulated by high technical advances and organic technologies. Applied widely in the U.S., Cropmaster is an organic agent extracted naturally which is condensed and compounded with pure mineral elements. It is 100% water soluble and immediately available to the plant.

Cropmaster not only plays a feeding nutrient role for the plant but also completely replaces the traditional fertilizers which we are using because Cropmaster includes a series of agents feeding equal nutrients to plants, from preparing the yield, to sowing, growing, blooming, fruiting, harvesting and preserving.

Cropmaster is very suitable to our company's operating objective and we've applied it to many different kinds of plants to test while performing new techniques. The results are very satisfactory to coffee, pepper, sugar cane, fruit trees, vegetables, rice, corn, bean and peas. We have summarized the effects as follows:

1) Immediate Effects (one cultivation season):

In most cases the cost of buying Cropmaster is equal or lower than that of buying traditional fertilizers.

The growers should use soil-improving products if the soil is compacted.

Decreases fertilizing and spraying time.

Results are the same or higher than using traditional fertilizers.

Significant increase in the quality of the product: more attractive, safer, longer shelf life and higher selling price.

2) Long Term Effects

Soil is more fertile, increasing mellow loose soil, organic matter and beneficial bacteria, balancing PH, minimizing diseases and pests.

Essential in providing healthy soil, harmless to environment, participating efficiently in producing stable agricultural development.

Fruit and vegetable products of growers in Vietnam would have the same quality standards as international products along with increased capabilities in world trade. These above things participate in improving and producing a stable agricultural export.

We have formulated a Cropmaster process for each kind of plant. Temporarily, it is three kinds of formulas as follows:

- 1 Applying Cropmaster with traditional fertilizer (reduces application of traditional fertilizer 50 to 70%).
- 2 Applying Cropmaster separately depending on kind of soil and plant.
- 3 Only using Cropmaster series.

We believe that farmers will increase higher in yield by using Cropmaster.

**EFFECTIVENESS AND APPLICATION
CROPMASTER SERIES FOR PLANTS**

No	NAME	EFFECTIVENESS	DOSAGE	
			1 Hecta (HA)	8 Liter Water
TREAT SEED, CUTTING, GRAFTING				
14	Growth*	Increases seed germination for more even stands (1g/250gseeds), increases root growth for grafting.	1-2 ltr.	40cc
2	Super Hume Plus	Improves grafting, cuttings and transplants.	1-2 ltr.	40cc
SPRAY APPLICATION TO SOIL (Mixes with a minimum of 500 liters of water)				
1	Super Hume	Supplies organic humate, helps increase root system, increases nutrient absorbability in soil. Compatible with fertilizer programs.	5-10 ltr.	125 – 250cc
4	SSP	Looses compacted soil and breaks up hardpan, a more mellow loose soil, improved root growth, plants absorb nutrients more efficiently and quickly.	1-2 ltr.	25 – 50cc
3	Super Cal	Applied to the soil it will raise the pH and supply calcium, builds cell walls which results in more beautiful, firmer, better taste.	5-10 ltr.	125 – 250cc
6	Super Fish Emulsion	Obtained by chemical liquification of whole fish, not just fish by-products, containing no formaldehyde.	5-10 ltr.	125 – 250cc
9	Super Sul	Decreases pH , supplies sulfur for plant.	5-10 ltr.	125 – 250cc
5	Nitro-Fix*	Gives the soil good supply of nitrogen - fixing bacteria.	100 g	2.5 g
10	NEMATAC *	Supplies many beneficial fungi to help eliminate nematodes.	250 g	
FOILAGE APPLICATION (Mixes with a minimum of 320 liters of water)				
1	Super Hume	Increases plant growth.	2 ltr	50cc
6	Super Fish Emulsion	Increases plant growth.	2-3 ltr.	50 – 70cc
7	Super NPK 10-8-8	Increases plant growth.	3 ltr.	75cc
15	Increase*	Promotes plant growth in height and thickness of foliage.	250 g	6.3 g
8	Bloom & Fruit`	Increases blossom production and blossoms are more concentrated. Increases fruiting, feeds young fruit.	2 ltr.	50cc
7	Super NPK 6-14-6	Increases blossom production and blossoms are more concentrated. Increases fruiting, feeds young fruit.	2 ltr.	50cc
7	Super NPK 3-18-18	Feeds fruits that has formed and begins to grow to harvest, improves quantity and quality.	2-4 ltr.	50 – 100cc
3	Super Cal	Increases the cell walls of fruit, seed, tuber. Reduces fruit diseases.	2 ltr.	50cc
12	Super Seaweed	Increases fruit color, brightness and taste.	2 ltr.	50cc
11	Micro Boost MZFe *	Supplies important and essential micro-nutrient for crop from planting to harvest, increases antibodies (inner defense system) resulting in healthier plants.	1 ltr.	25cc
16	Excel	Sticker – giving a more even spray on the leaf.	0.3 ltr.	7.5cc

Notes: Application to soil-Mix with a minimum of 500 liters of water per hectare.
 Application to foliage-Mix with a minimum of 320 liters of water (20 sprays/16 ltr,40 sprays/8 ltr).
 Mix with 200 liters of water if using machine sprayer.
 Use efficient water to mix Cropmaster products.
 Spray in early morning or late afternoon
 Do not spray two (2) hours before, during or two (2) hours after rain.
 Do not mix Cropmaster with insecticide.
 The products with and an asterick (*) must be sprayed separately.
 Carefully wash equipment before mixing these Cropmaster products.
 Store Cropmaster products in cool, dry place.

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Brief Information on Cropmaster

1) SUPER HUME

Super Hume is a humic acid concentrated agent and is necessary to any fertilization program (basal fertilizing, top dressing, annual plants, perennial plants). Super Hume will help to increase the CEC of the soil along with the transfer of fertilizer to plant as needed in each different growing time. Super Hume is the best kind of fertilizer which changes the physical and mechanical properties of the soil in structure. The important thing you have to know is that if there is enough in the soil it will make a zone isolating root from the pH.

One (1) liter Super Hume is equivalent to 1.5 – 2 tons cattle manure.

2) SUPER HUME PLUS

It is a humic acid agent similar to Super Hume but it is manufactured by higher technology standard. It contains a pre-eminent solution such as seaweed and vitamins and is a product, which can make soil softer. Super hume is very active, so it's used in small dosages. Your soil will be softer, increasing results of fertilizer, insecticides, herbicides and decreasing $\frac{1}{4}$ - $\frac{1}{2}$ insecticide/fertilizer dosages.

3) SUPER CAL

It is a chelated liquid calcium agent. Super Cal replaces lime, when Super Cal is directly applied to the soil, it will raise the pH, protect and improve root growth. If you apply Super Cal to the foliar, it will quickly attend to important metabolic processes of the plant. It builds cell walls, which result in a more beautiful, firmer, better tasting product. It also aids in prolonging of the shelf life of fruits and vegetables.

4) SSP

It is a super soil conditioning agent. It will change the physical and mechanical properties of the soil instructure. It is engineered to loosen compacted soil and break up hardpan by soil structure or by using chemical fertilizer at extended periods of time. SSP will increase water and air movement, improve root growth (by breaking up compaction), prevent from impoverishment, reduce in soil erosion, make more mellow loose soil. SSP will result in greater yield. This is the most effective way to improve soil (apply at the rate of one (1) liter per hecta, saving time, fuel and equipment wear and tear).

5) NITRO FIX

It is an aerobic and nitrogen fixing bacterial package agent. It is capable of converting nitrogen in the atmosphere to a useful form in the soil. With large scale chemical use, along with synthetic fertilizer application, natural bacteria is reduced almost to the point of sterile soil. Nitro fix is formulated to rapidly replace reduced bacteria counts, increase biological activity, improve plant growth, and to resist disease and insects.

6) SUPER FISH EMULSION

It is a condensed and hydrolyzed fish liquid. It is obtained by mechanical liquification of whole fish, not just fish by-products. Thus, it is absolutely pure containing no formaldehyde (acid formic) rather mostly high nutrient values. As we have known, this is the most effective organic fertilizer used for all of fruits and vegetables.

7) SUPER "NPK"

This is a NPK series manufactured from natural materials. These super products have micro compositions, organic and seaweed developed for different stages in the plant life cycle. NPK 10-8-8 is for growing time. NPK 6-14-6 is for blooming and fruiting time. NPK 3-18-18 is for nourishing to harvesting time. More over, there are some products such as: 10-10-10, 9-18-9, 16-4-8 and so on. To define the product for custom plant application foliar/soil analysis and refraction measurement is needed.

8) BLOOM & FRUIT

At some point, it becomes necessary for the plant to divert the energy is uses into producing blooms and eventually fruit, resulting in increased blooms (with a stronger binder holding the fruit). Bloom and Fruit is used in conjunction with the Super 6-14-6 spraying for plant blossom and fruiting stage.

- 9) **SUPER SUL: (12-0-0-26)**
It is a liquid sulfur concentrate. It is an enzyme activator necessary for the plant to induct nitrogen and is essential for protein syntheses throughout the growing season. It is effective in preparation of field and decreases pH.
- 10) **NEMATAC (CURRENTLY UNAVAILABLE)**
It is a mixed micro fungi agent. It helps mutually in recovering and re-establishment of natural beneficial fungi in the soil. It is used especially in soils having higher nematodes (nematodes devastate root systems and cause plants premature death).
- 11) **MICRO BOOST MZFe**
It is an agent that has a concentrated source of micro nutrients. It is used to correct the inadequate micro-nutrients of plants which cause disease and badly effect the quality. If it is period applied, it will result in increased antibodies; resisting disease and substantially improve the quality.
- 12) **SUPER SEAWEED**
It is an agent manufactured from several kinds of seaweed and mixed with micro-element fertilizers, organic carbon, vitamin, enzyme and natural chelate. Super Seaweed increases fruit color, brightness and taste. Super Seaweed also increases antibody substance and tolerance to stressful conditions.
- 13) **SSE**
It is similar to the Super Seaweed agent and contains more than sixty (60) important organic nutrients, acid amins and several micro-nutrients. SSE increases resistance to stress conditions such as drought, hear, cold and insect infestation. SSE increases the quantity and quality along with prolonging the shelf life.
- 14) **GROWTH**
It is a mixed agent which produces an almost perfect nutrient environment of any plant. It is specifically used for seeds, grafting and cutting. Growth is used directly and is similar to injecting nitrogen fixing matter which increases root development and seed germination for a more even stand and decreases premature plant death.
- 15) **INCREASE**
It is an agent that stimulates the plantlet in growing time. It helps the plants produce more leaves, having longer segments and aiding in synthesis to produce complex sugars which increase the quality of fruits and vegetables.
- 16) **EXCEL**
It is a moistening and sticking agent giving a more even spray layer on the leaf. To increase the results of fertilizers, insecticides, herbicides or any chemicals; farmers mix Excel with other agents of Cropmaster to enhance compatibility, maintain a better solution, give a more even spray layer and reduce water droplet formations on the leaf.