

## “ The Living Environment Agriculture”



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## The Problems in Traditional Agriculture

### 1. Decrease in Fertility Power

The soil is becoming unfertilized(or deserted) due to continuous use of chemical insecticide, chemical herbicide, and chemical fertilizer.

### 2. Harmful Effects on Environment

Those Chemical things used in tradition agriculture go into the stream and the sea(not dissolved for a long time)

### 3. Harmful Effects on Human body

Food made from those farm products has harmful effects on human body(atopic skin, fatness, sterility)

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## General Environmental Friendly Agriculture

- Was introduced to solve these problems in traditional agriculture.

- Not widely used because of

: Low Productivity

→ Not enhance soil power and Not supply plants with proper circumstances.

: High Cost

→ Use friendly things maded by factory, High cost.

-The only one change is the switch of chemical things into environmental friendly things.

: Manufacturers make Environmental Friendly things and Farmers just buy and use them as directed.

→ Farmers are just workers.(hired by manufacturers)

→ They don't have to think about farming method themselves.

: Farmers are not happy due to low profit.

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## General Environmental Friendly Agriculture

Low Productivity and High Cost  
should be broken to make agriculture successful .

### In order to succeed in Agriculture

- : Farmers should be the masters, not just workers.
- : They should be able to think themselves  
and also they should have science  
and philosophy

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## Counterproposal “Living Environment Agriculture”

### Dead Environment ↔ Living Environment

#### 1. Farmers are the masters

- : They don't buy the insecticide, herbicide, fertilizer at all.
  - They make natural insecticide, natural fertilizer themselves.
  - Natural materials are made from various plants, cattle bones, fish.
  - **Low Cost.**

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## Living Environment Agriculture

### 2. The Use of Local Microorganism

: Local Microorganism give soil life

and make earthworm live in soil

→ The soil becomes fertilized more and more

→ High Productivity

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## Living Environment Agriculture

### 3. We make farm plant happy

- For farm plant to be happy, they should have

(1) Sufficient Sunlight

(2) Sufficient Air

(3) Clean Water

(4) Natural Fertilizer(suitable amount in adequate time)

- 45 bundles instead of 75 bundles in 3.3 m<sup>2</sup>.

- 2-3 roots instead of 7-10 roots in one bundle.

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## Herbicide used by Snail

A kind of snail to get rid of various weeds is "Golden apple snail"



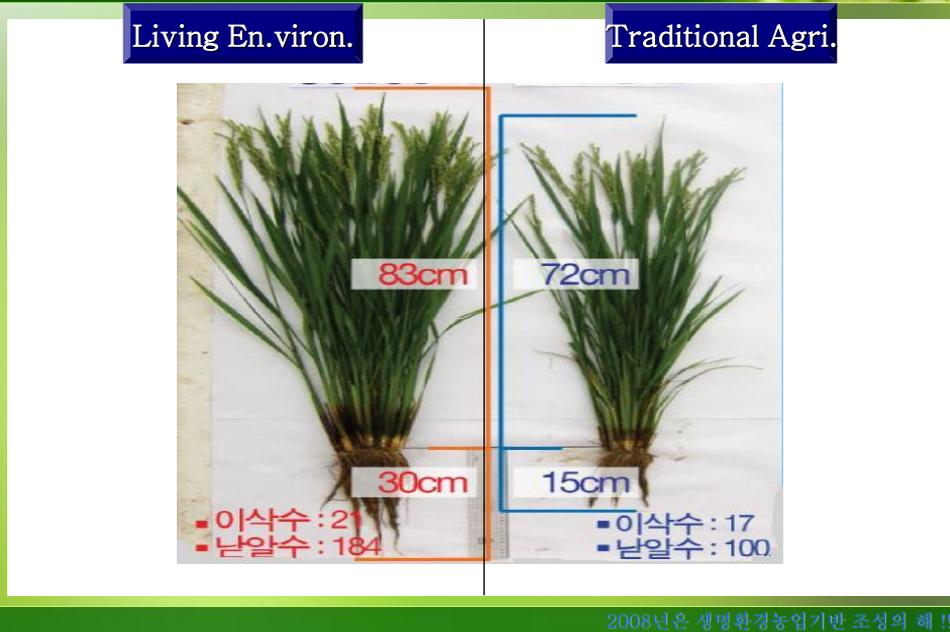
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## Status of Rice in Living Environment Agriculture



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## Comparison Living Environment with Traditional Agriculture



## Using materials for Living Environment Agriculture

- For farming Living Environment Agriculture, We use various natural materials instead of chemical materials.
- There are natural materials around our life, for example plants like mugwort, dropwort, cattle bones, shells and fish.
- In order to extract useful components from these natural materials, we use a few solvents like sugar, alcohol, vinegar and water according to using material.
- Farmers themselves make natural materials . This is an important merit of "Living Environment Agriculture".
- We can eat these materials which are made of natural materials because they have no any poisons to a human being.

생명환경농업에 병충해정관습기초과학연구회!!

## Natural fertilizer, hormone, useful microorganism

Local microorganism	Fermentation of plants	Extract of oriental medicine materials
		
Acquire diverse microorganism using boiled rice	Mugwort, Dropwort, ..	Licorice, Garlic, Ginger, ..
Promote soil power	<ul style="list-style-type: none"> <li>-Supply plants with nutrients</li> <li>-Develop potential power of plants</li> </ul>	<ul style="list-style-type: none"> <li>-Strengthen plants</li> <li>-Insecticide by way of prevention</li> </ul>

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## Natural fertilizer, hormone, useful microorganism

Fermentation of fish	Extract of livestock bones	Natural Calcium
		
Mackerel, anchovy, ..	Cattle bones, Pig bones..	Skin pf eggs, shells, ..
<ul style="list-style-type: none"> <li>- Supply plants with nitrogen</li> <li>- Activate microorganism</li> </ul>	<ul style="list-style-type: none"> <li>- Supply plants with phosphate</li> <li>- Assist blooming</li> </ul>	<ul style="list-style-type: none"> <li>- Improve fruit quality</li> <li>- Enhance storage by strengthen cell wall</li> </ul>

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## Natural germicide, insecticide



Ginkgo, Cosmos, Big corn pine,...

In plants like Ginkgo, Cosmos, Big corn pine etc, there are useful components for germicide, insecticide of farm products.

So, we use these natural materials instead of chemical materials.

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## Expected Effects of Living Environment Agriculture

Low cost, High productivity

Increase in Competitive Power of Agriculture

Decrease in Environmental Pollution

Increase in Safety of Agricultural Products

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