Organic Farming

~ Utilizing Organic Fertilizer ~
All fertilizers supply plants with the nutrients the soil needs to be in good shape. However, organic and inorganic fertilizers (chemical) supply nutrients to soil in different ways. Every soil and crops needs enough nutrients to grow healthy and tasty – among many kinds of nutrients, the most well known is what called N-P-K.
What is N-P-K?

Organic fertilizers and chemical fertilizers show their nutrient content with three bold numbers on the package. These numbers represent three different compounds: Nitrogen, Phosphorous, and Potash (Potassium), which we can also describe with the letters N-P-K. The three numbers listed on fertilizer labels correspond to the percentage of these materials found in the fertilizer.

What does each nutrient do?

- **Nitrogen** - For Leaf Growth (Strength)
- **Phosphorus** - For Root Formation, Stem Growth, and Fruiting
- **Potassium (Potash)** - For Overall Plant Health
Advantage of Organic Fertilizer

1. Creates a healthy environment for the soil over a long period of time
2. Feeds your plants while building the soil's structure
3. Helps the soil to hold moisture and nutrients
4. Fosters growth of soil organisms
5. Builds a healthy and sustainable soil
How much Organic Fertilizer to use

Examples of “how much organic fertilizer to use”.

Rice

**Amount: 4tons per 1/10ha**

Note: To apply 6 tons until the 5\textsuperscript{th} year is Ok. However, it is recommended to reduce the amount from the 6\textsuperscript{th} year as the nutrient amount exceed the required amount.

Sugarcane

**Amount: 6tons per ha**
How much Organic Fertilizer to use

**Orange**

**Amount**: 50kgs per tree/year  
Note: Take distance between each tree 7mx2.5m (Depends on Variety).  
Be careful of when (season) to apply.

**Coffee**

**6kgs per tree/year**  
Note: Take distance between each tree 3.8mx0.7m, 3.8mx0.8m, or 3.7mx0.65m (Depends on the easiness of mechanizing the plantation).
Examples of Results using organic fertilizer.

Cabbage

Picture:
Showing the difference of results using chemical fertilizer and organic fertilizer. (*1)

*1: Data by Japanese Government
By applying organic fertilizer, the bunch has grown larger and became sweeter than before.

This year they have succeeded to grow the kernel up to 23mm, which was normally only 18mm before they used organic fertilizer. This was the largest grape to be cropped in his country this year.