



Organic Farming

~ Utilizing Organic Fertilizer ~

Fertilizers

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**.

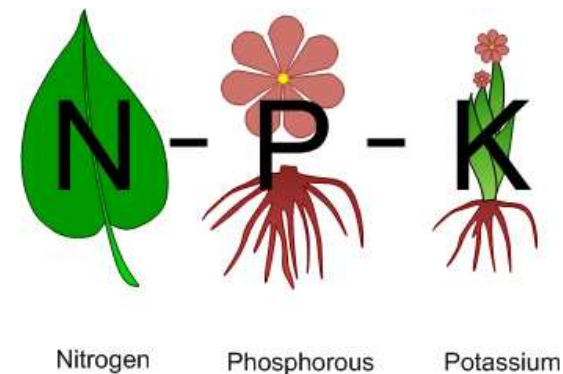


What is N-P-K?

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 5th year is Ok. However, it is recommended to reduce the amount from the 6th 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



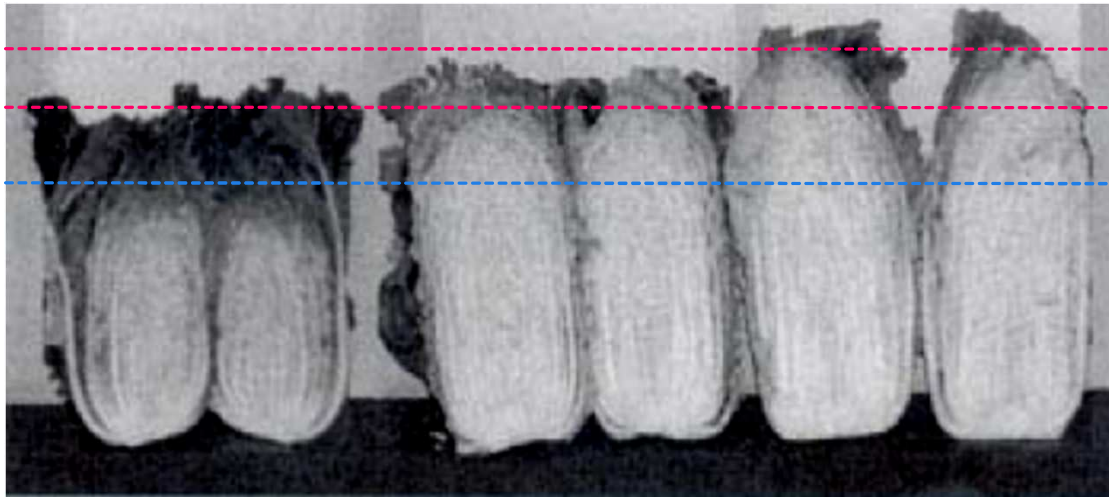
6kgs per tree/year

Note: Take distance between each tree 3.8mx0.7m,
3.8mx0.8m, or 3.7mx0.65m (Depends on the
easiness of mechanizing the plantation).

Results by applying organic fertilizer

Examples of Results using organic fertilizer.

Cabbage



Chemical Fertilizer

Organic Fertilizer
(2 Years)

Organic Fertilizer
(9 Years)

Picture:

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

*1: Data by Japanese Government

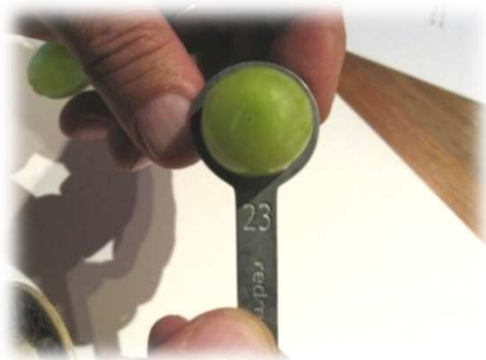
Results by applying organic fertilizer

Vineyard

Applying Organic Fertilizer



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.