



ORGANIC FERTILIZER CONCOCTIONS

AFA1E-C



FERMENTED PLANT JUICE (FPJ)

- Is a liquid fertilizer made from natural materials
- It is produced through fermentation of plant leaves, axillary buds and or your fruits.

BENEFITS OF FERMENTED PLANT JUICE

- Supply nutrient to plant that helps maintain vigor and resistance against pests.
- Promoted beneficial microbial activities in soil
- Helps to improve soil quality and fertility





FERMENTED PLANT JUICE (FPJ)

INGREDIENTS

- 1kg plants and leaves
 - bamboo shoots (labong)
 - Kangkong
 - Gabi
 - Alugbati
 - any green plant that grow fast that is abundant in your area
- 500g molasses or crude sugar

MATERIALS NEEDED

- Knife
- Chopping board
- Measuring cup
- Weighing scale
- Plastic container with cover
- Manila paper
- Tape/rope



Organic Fertilizer Concoctions

PROCEDURES

- Collect plant material
- Cut and weigh the plant material
- Put into the container
- Add molasses and water (optional)
- Place a rock on top of your plant material mixture
- Cover and put label on it
- place in a shaded area.
- After 14 days strain and get the liquid(FPJ) then store.

ADVANTAGES

- Raw materials for making FPJ are always available.
- You can make FPJ as many and as varied as possible anytime.
- You can produce at minimal cost since plant materials are free and only crude sugar or molasses will be purchased.
- You will have an adequate supply at the time of your need.
- The step-by-step procedure is very simple and easy to follow.
- You will have control over the quality and quantity of the product.

LIMITATIONS

- In areas where molasses or crude sugar may not be available, you will have to use white sugar which is more costly.
- FPJ cannot be stored for a long period of time because it is not effective when applied at one week after fermentation.
- Even though the step-by-step procedure is simple and easy to follow, the activities that starts from the early morning collection of plant material up to processing maybe time consuming for your part.

FERMENTED PLANT JUICE (FPJ)

APPLICATION:

- Dilute 2 tablespoons per liter of water
- Use weekly at the appropriate plant stage

When to Use	How to Use
Seedling stage up to pre-flowering stage	Spray or drench



FERMENTED FRUIT JUICE

- Is used as a foliar spray to enhance fruit quality, as a feed supplement for animals, and even as a food supplement for humans.



BENEFITS OF FERMENTED FRUIT JUICE

- Good source of potassium which can speed up plant's absorption and results to sweeter tasting fruits.
- Helps to improve soil quality and fertility.



FERMENTED FRUIT JUICE (FFJ)

INGREDIENTS:

- 1kg fruit and fruit peel
- 1kg molasses or crude sugar

MATERIALS NEEDED

- Knife
- Chopping board
- Measuring cup
- Weighing scale
- Plastic container with cover
- Manila paper
- Tape/rope



Organic Fertilizer Concoctions



PROCEDURES

- Collect fruits and peelings
- Cut and weigh
- Put into the container
- Add molasses and water (optional)
- Cover and put label on it
- Place in a shaded area.
- After 7 days strain and get the liquid (FFJ) then store.

APPLICATION

- Dilute 2 tablespoons per liter of water
- Use weekly at the appropriate plant stage

When to Use	How to Use
Flowering to fruit setting	Spray



FISH AMINO ACID

- Is a liquid made from fish which is of great value to plants because it contains good amounts of nutrients, especially amino acids which is a good source of nitrogen.

BENEFITS OF FISH AMINO ACID (FAA)

- Good source of nitrogen
- Provides growth hormones for plant growth and development
- Food for soil microorganisms





FISH AMINO ACIDS (FAA)

INGREDIENTS:

- 1kg fish and fish scraps
- 1kg molasses or crude sugar



MATERIALS NEEDED

- Knife
- Chopping board
- Measuring cup
- Weighing scale
- Plastic container with cover
- Manila paper
- Tape/rope



Organic Fertilizer Concoctions

PROCEDURES

- Collect fish scraps
- Cut and weigh
- Put into the container
- Add molasses and water (optional)
- Cover and put label on it
- Place in a shaded area.
- After 15 days strain and get the liquid (FFJ) then store.

ADVANTAGES

- Raw materials are always available.
- You can make as many FAA because the materials are always available.
- You can produce at minimal cost since these materials can be had free or can be purchased at low cost.
- You will have an adequate supply at the time of you need.
- The step-by-step procedure is very simple and easy to follow.
- You will have a control over the quality and quantity of the product.

LIMITATIONS

- In the absence of molasses or crude sugar, you will have to use white sugar, which is more costly.
- Procedures with pet owners may arise since spoiled fish and fish trash are being cooked and fed to the pets.
- The smell of the spoiled fish and fish trash may be offensive to the producer.
- The farmer may find the whole process time consuming even if the procedure is simple and easy to follow.

APPLICATION

- Use weekly at the appropriate plant stage
- Dilute 2 tablespoons per liter of water

When to Use	How to Use
Flowering to Fruiting	Spray or drench



CALCIUM PHOSPHATE (CALPHOS)

- Is a concoction which helps prevent overgrowth and promote development of sweet hard fruits. It is applied when the plant supply of nitrogen is excessive.

BENEFITS OF CALCIUM PHOSPHATE

- Helps prevent blossom end rot in tomatoes
- Induce flowering and prevents overgrowth
- Contributes to better utilization of carbohydrates and protein

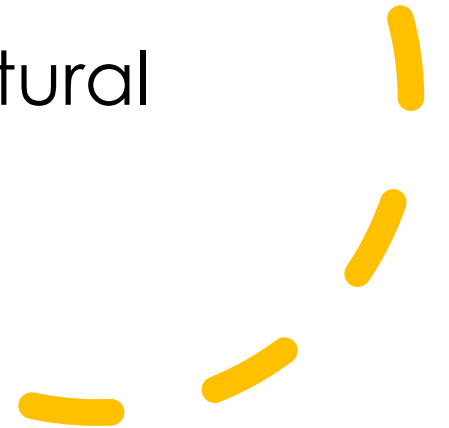




CALCIUM PHOSPHATE (CALPHOS)

INGREDIENTS:

1 cup eggshells : 5 cups natural
vinegar





Organic Fertilizer Concoctions



PROCEDURES

- Collect cow bone/eggshells
- Crush and roast over the fire
- In a container place the roasted/burnt bones/shells.
- Pour in 5 cups of coconut vinegar or any natural vinegar
- Cover the container and label it
- Ferment for 20 days.

APPLICATION

- Use weekly at the appropriate plant stage
- Dilute 2 tablespoons per liter of water

When to Use	How to Use
Before flowering and when fruits are large and mature	drench



ORIENTAL HERB NUTRIENT (OHN)

- Is a fermented product that is of great help to natural farming. In growing crops, OHN is commonly used as natural insect repellent. It is very much effective in enhancing the Immune System of both plants and animals.

BENEFITS OF ORIENTAL HERB NUTRIENT (OHN)

- Provides plants with micro-nutrients which may optimize their resilience to environmental stresses.
- Natural pest repellent
- Natural antibiotic for animals





ORIENTAL HERB NUTRIENT (OHN)

INGREDIENTS:

- 200g garlic
- 200g onions
- 200g ginger
- 2 tbsp hot pepper
- 600g molasses or crude sugar
- After 7 days, add 200mL natural vinegar





Organic Fertilizer Concoctions

PROCEDURE

- Collect all ingredients (even)
- Peel the garlic and onions (no need to peel the ginger) and chop well
- Once chopped and mixed, pour it in the fermentation container
- Add an equal amount of molasses and mix well
- Cover with paper and secure the paper with masking tape then, label the mixture
- Ferment for 7 days
- After the first 7 days, add 200mL of natural vinegar
- Ferment for another 7 days

APPLICATION

- Use weekly at the appropriate plant stage
- Dilute 2 tablespoons per liter of water

When to Use	How to Use
Vegetative stage to fruiting	Spray

HARVESTING

- Strainer or any fine mesh of cloth
- Pour the concoction through the container
- After extracting the liquid part of the concoction, pour the liquid in a storage bottle and label it with the Harvest Date and Expiration date.
- A concoction may last for up to 6 months



Organic Fertilizer Concoctions

APPLYING FERTILIZERS

FOLIAR

- Is spraying on leaves of growing plants. This can be beneficial when plant in your garden is suffering from certain nutrient deficiency.

DRENCH

- Refers to drenching of fertilizers directly to the soil. The soil then absorbs the supplemented minerals for root consumption.

SUMMARY OF ORGANIC FERTILIZER CONCOCTIONS

- Use weekly at the appropriate plant stage
- Dilute 2 tablespoons per liter of water

CONCOCTION	FERMENTATION PERIOD	WHEN TO USE	HOW TO USE
Fermented Plant Juice (FPJ)	7 days	Seedling stage to pre-flowering stage	Spray or drench
Fermented Fruit Juice (FFJ)	7 days	Flowering to fruit setting	Spray
Fish Amino Acid (FAA)	15 days	Flowering to fruiting	Spray or drench
Calcium Phosphate (CalPhos)	20 days	Before flowering and when fruits are large and mature	Drench
Oriental Herb Nutrient (OHN)	7 days + 7 days	Vegetative to fruiting stage	Spray