Fermented Fruit Juice

ermented Fruit Juice or FFJ is made from sweet ripe fruits, fruit vegetables and root crops. Thoroughly blended with crude sugar or molasses and stored for a short period of time, the fermented extract is applied to the plants to promote flowering and fruit setting.



Choosing the materials for FFJ

You must choose materials that are:

- locally produced
- free from insect pests and diseases
- not fit for human consumption

Materials needed in making FFJ

1. Locally produced sweet ripe fruits like mango, banana,

papaya, strawberry and chico; ripe squash fruit and matured carrot; and root crops particularly camote, cassava and gabi. Citrus fruits are not recommended. You can make FFJ from single material or a combination of materials. The extract from the combination



of banana, papaya, and squash have been proven to be effective in flower induction and fruit setting by many organic farmers.

- You can use either crude sugar or molasses or whichever is available or can be purchased at lower cost.
- You will also need ceramic pots or plastic pail, basin, net bag or cloth bag, paper or cloth for cover, string, stone as weight, bolo, chopping board, marking pen, and glass jars for storage.

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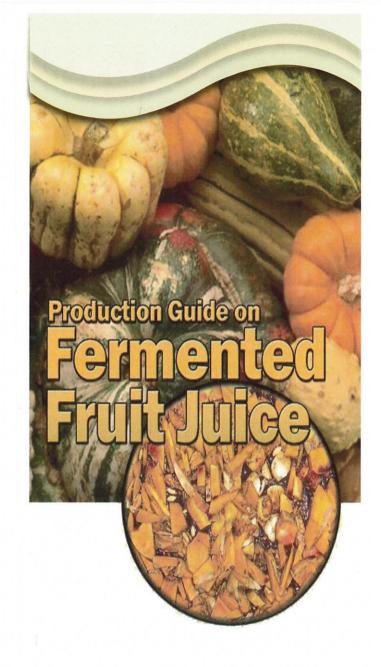
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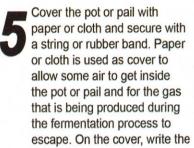
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Steps in Making FFJ

Collect ripe fruits or vegetables that are already available or in season, for example, if squash is available, then make fermented squash juice. There are plenty of materials to be used so you can make different kinds of FFJ. Use any materials that are free from insect pests and diseases.





date of processing and the expected date of harvest.

Chop the materials into small pieces so that the juice can be easily extracted.



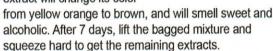
Put 1 kg chopped materials in a basin, add 1 kg crude sugar or molasses, and then mix thoroughly with your bare hands. You must make sure that all chopped materials are coated



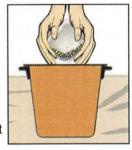
with sugar or molasses so that the juice can be extracted easily.

Put the mixture in a net bag or cloth bag. This is done so that the extracted juice will ooze from all sides of the bag. Put the bagged mixture in a ceramic pot or plastic pail, and put weight to compress the mixture. Stone is a good material used to weigh down the mixture.

Store the container with the bagged mixture for 7 days in a cool dry shady place. Make sure that the storage area is not infested with cockroaches or mice, because they might feed on the mixture and contaminate the extract. In 7 days, plant juice is extracted and fermented. The fruit extract will change its color



Collect the fermented extracts and preserve in dark colored glass jar. To cover the jar, use paper or cloth to allow the gas to escape during further fermentation, then, store in a cool, shady place. You may add the fruit residue to compost pile to hasten decomposition



or you can apply it to the garden plots as source of organic matter. You can use your FFJ more effectively if it is stored for another one week after completion.

Uses and rates of application of FFJ

As flower inducer and fruit setter – FFJ made from a combination of ripe fruits of banana, papaya and squash have been proven by many organic farmers to be effective when sprayed on the leaves at the rate of 2 to 4 tbsp/gallon of water at



the onset of flowering up to fruit setting. These ripe fruits contain phosphorous and potassium which are necessary during the flowering and fruit setting stage.

As soil microorganism activity accelerator – FFJ is applied directly to the soil at the rate of 1tsp/liter of water. The carbohydrates and sugar content of FFJ serve as source of energy of soil microorganism, thereby,



accelerating their activity. Increased microbial activities result to the availability of nutrients for plant's uptake.

- As spray to animal beddings to hasten manure decomposition – FFJ contains beneficial microorganisms that help in the decomposition process.
- As a nutritious drink a 20% FFJ solution makes an excellent drink for both human and livestock.