Farmer-Training Materials on Indigenous Microorganisms (IM)

Source:

Korean Natural Farming: Indigenous Microorganisms and Vital Power of Crop/Livestock

Han Kyu Cho and Atushi Koyama Korean Natural Farming Association, 1997

172 pages



Add crude sugar(same amount as the liquid) to stop microbial activities for preservation keep the pot in a cool place

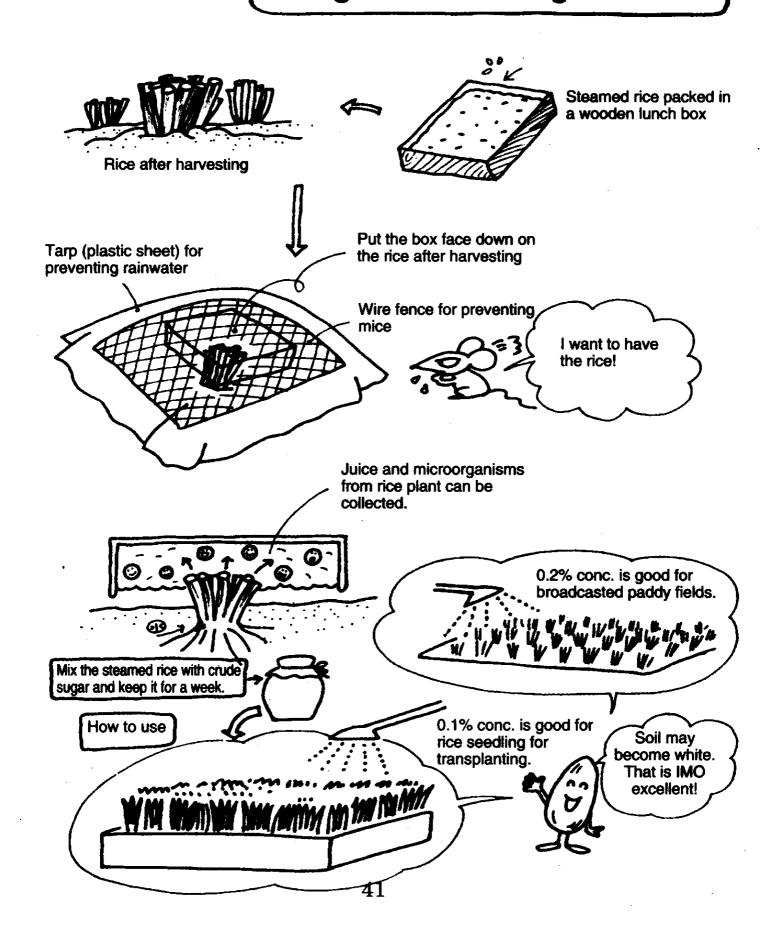


ΛN

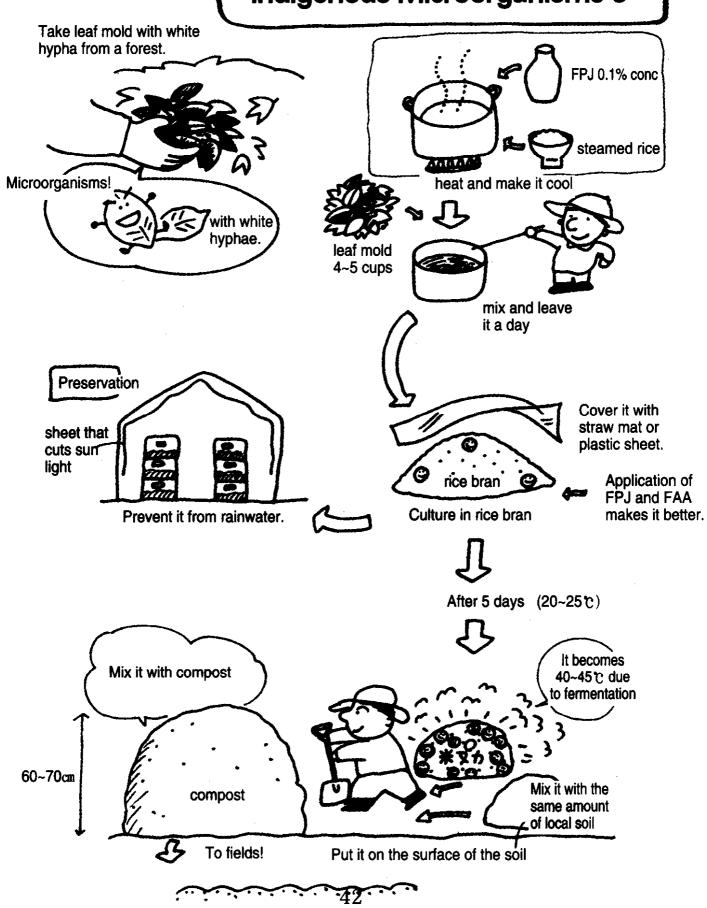
Rice remains to

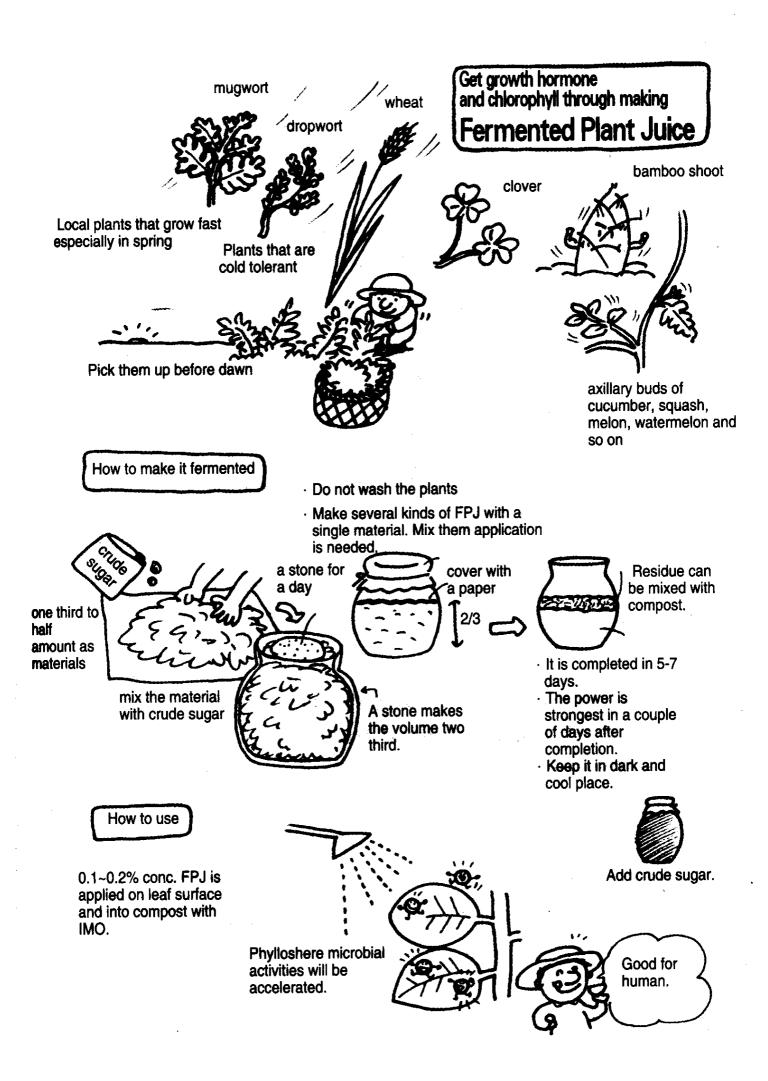
some extent.

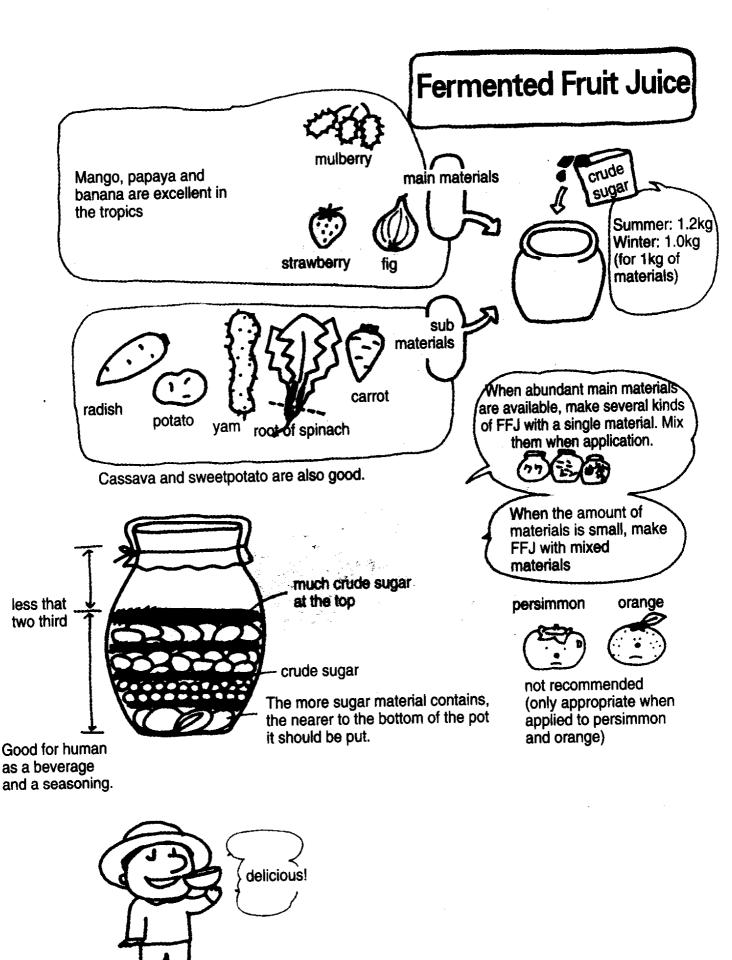
(from rice straw) Indigenous Microorganisms 2

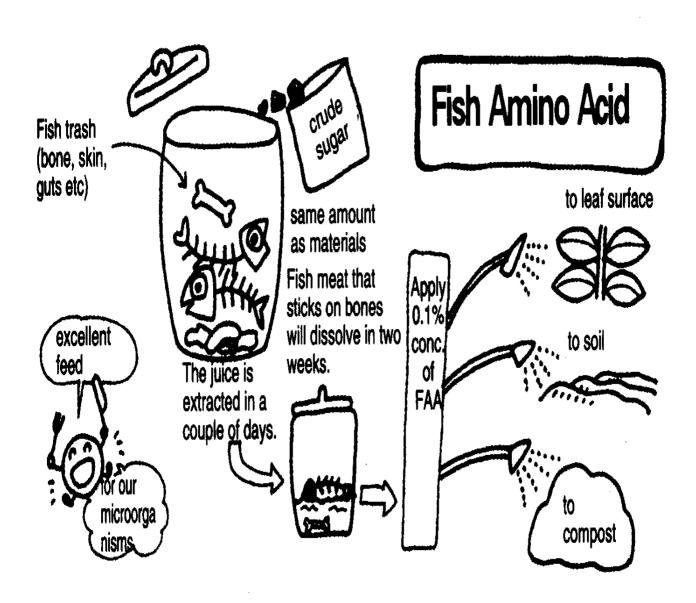


(through mixing leaf mold with rice bran)
Indigenous Microorganisms 3









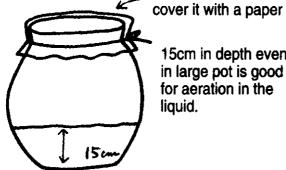
rice wash water

Lactic Acid Bacteria Serum, which defend plants





Secondary culture



in large pot is good for aeration in the liquid.

15cm in depth even



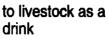
3% conc. of LAS



Put the pot in shade for 5~7 days



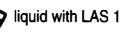
liquid with LAS



to compost



Primary culture

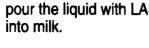


milk 10



pour the liquid with LAS

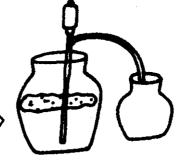
after 5~7 days





fat, protein and carbohydrate

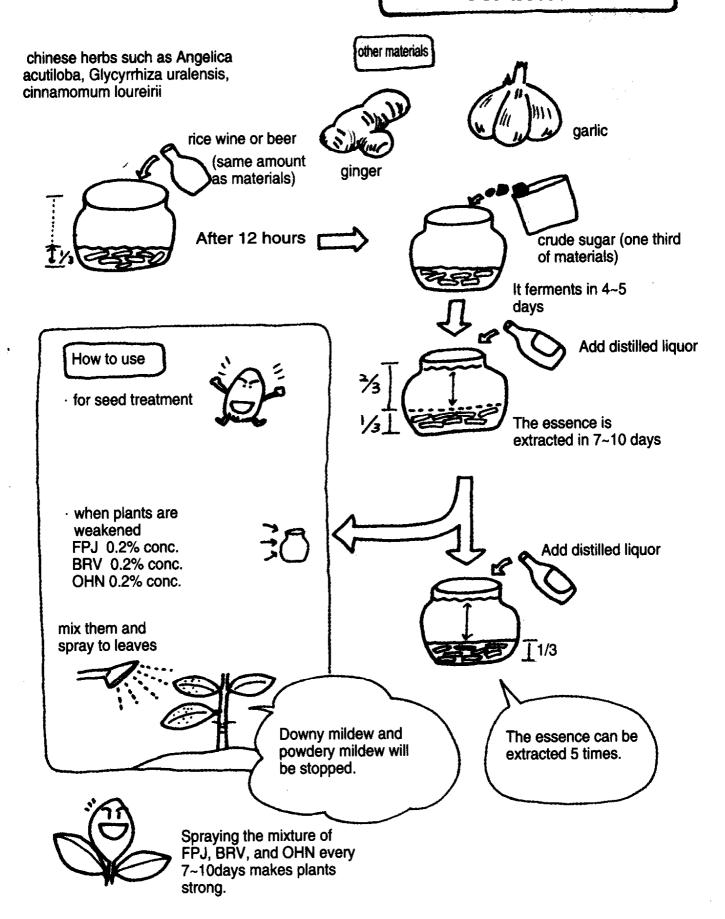
Lactic Acid Bacteria Serum(light yellow)



Add crude sugar (same amount as LAS) to keep it at room temperature.

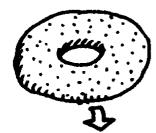


Oriental Herbal Nutrients



Catch indigenous microorganisms to make "koji" or malt

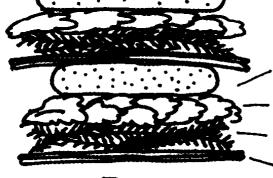
Rice wine for farming



Make two "doughnut" with whole ground wheat (raw, 65~70% water contents)



Put them where neither sun light nor rain for 5 days



"doughnut"

dried mugwort ceder leaves

rice straw



a lot of indigenous microorganis ms for "koji"



mix "doughnut" with cooked rice



cook and cool down(20~ 25°C)



Add water to make the stoff muddy

It ferments in 5~7 days, becoming sweet.





Preservation

Bury the pot or keep it in cool place. Use it before it becomes vinegar.

Modern seeds are weak

Seed and seedling Treatment





A strainer and gauze are useful.

Treatment Liquid

FPJ 0.2%

BRV 0.2%

OHN 0.2%

Soak 4-8hours. The slower seeds germinate, the longer they should be soaked.

Treatment Liquid



After soaking, sow before getting dried. (not good for a sower)







-thick cotyledon

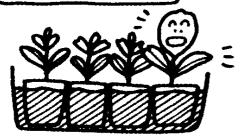
-good root development

-torelable to diseases

Seedling treatment

Treatment

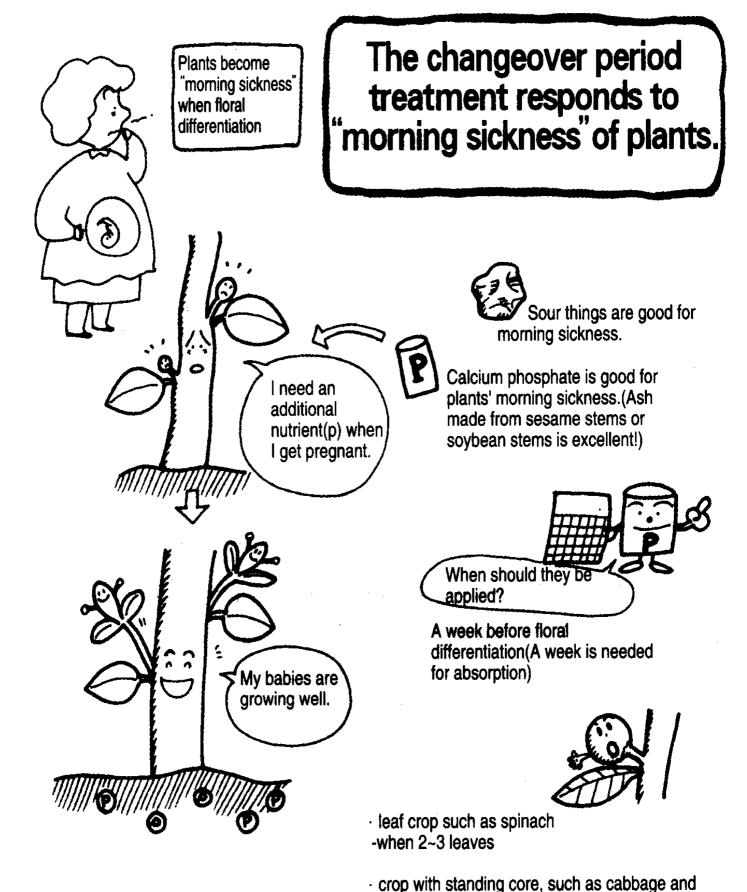
Liquid



soak 15 seconds



Apply the treatment liquid after transplanting

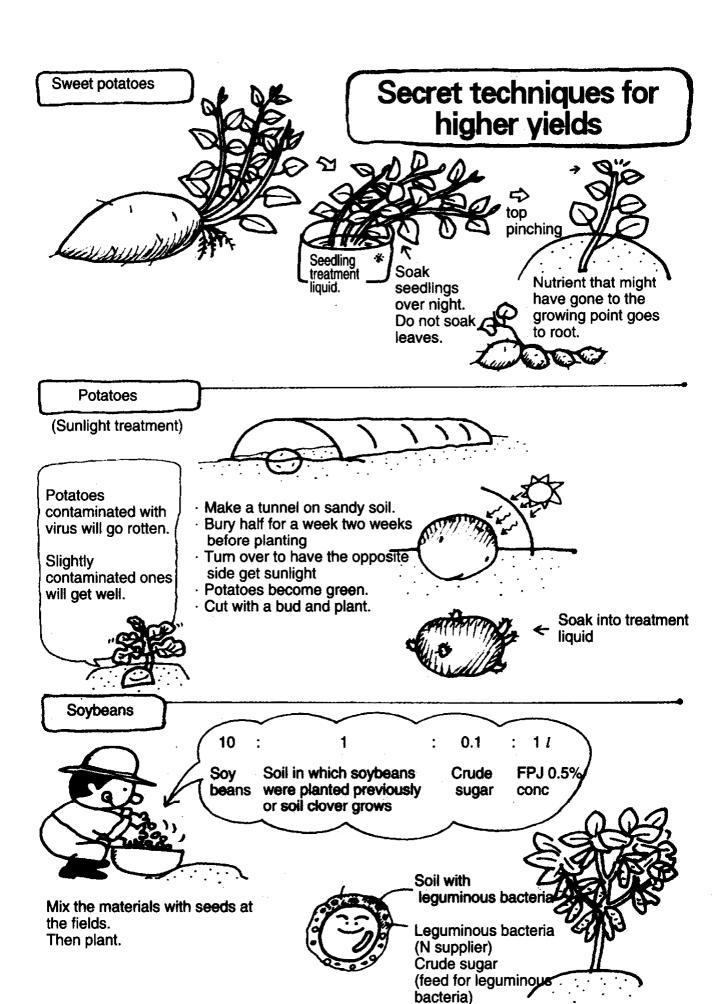


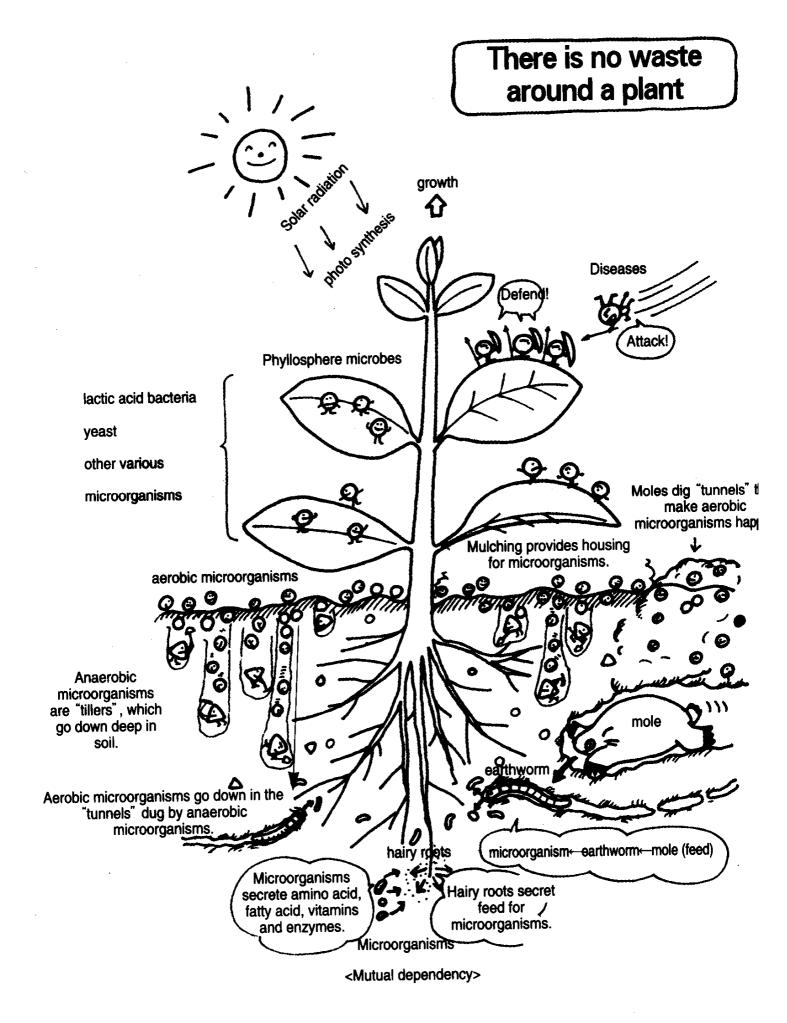
raddish

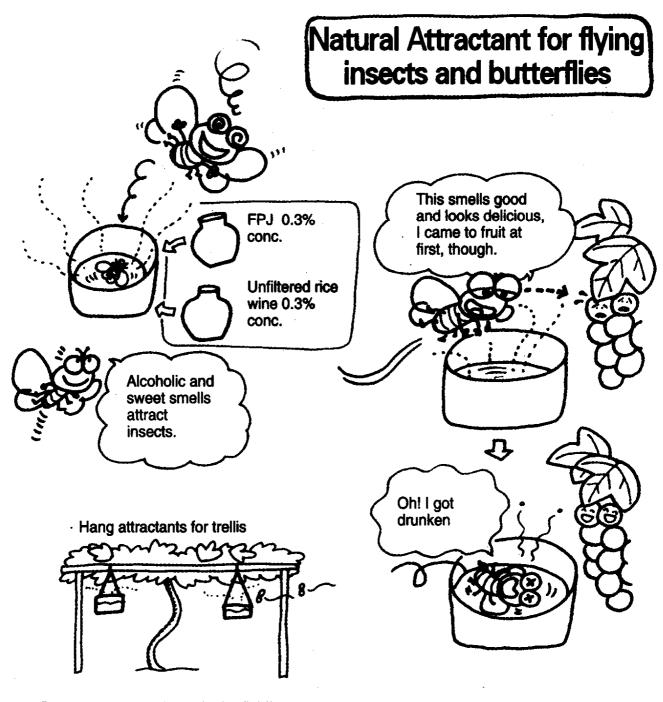
-standing →lying →when standing again

· fruit crop such as tomato and cucumber

-when the first flower comes out







· Put attractants in places in the fields



Rain water is no problem.