

# GRAIN STORING

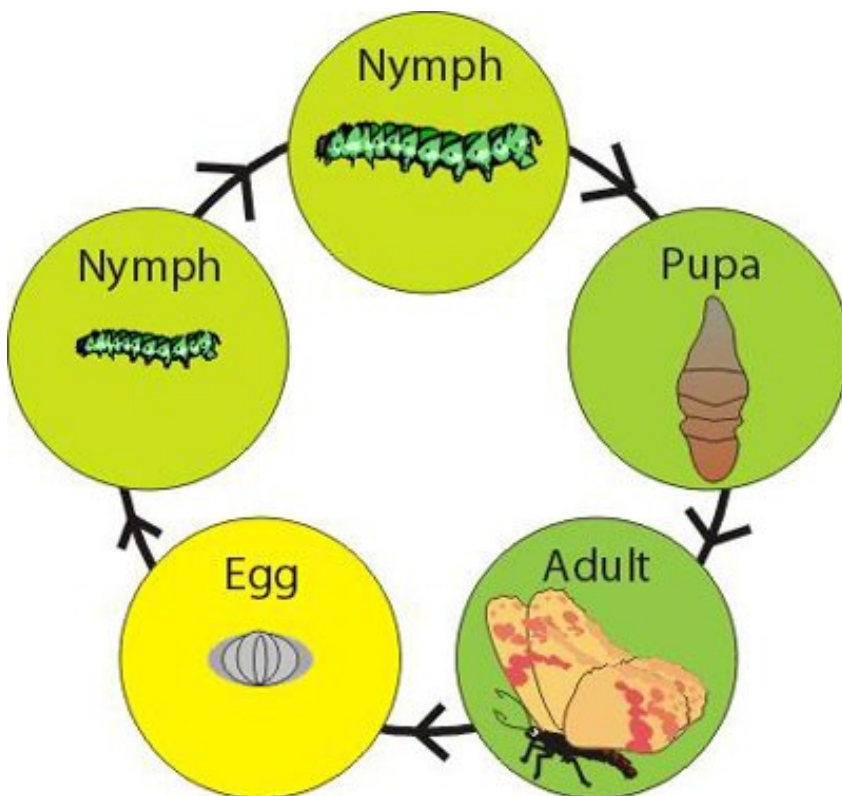
## Back ground:

Grain is a seed packed with nutrients, therefore insects, animals and humans are attracted by them and will eat them if an opportunity arises. We can store it away from animals, but insects have a special way of detecting them. Insects even invest and lay their eggs while the seed is on the field. Thus once it is harvested there is a big possibility that it already contain insects or their eggs. Normally grain is fumigated with chemicals like Phostoxin or Metyl bromide to ensure insects will not be interested in it or eat it. Go Natural obviously want to go the chemical and toxin free route in preserving food as there is a possibility that we can get some of those dangerous chemicals in our system that could cause a disease.

## Suggestion:

We must be clever in storing our grain/food to ensure that it is not eaten up by the insect nymphs or infected with dangerous chemicals.

The normal life cycle of insects, call them bugs or insect nymphs that feed on grains:



An insect cannot develop in the intestinal tract in less than 24 hours to become another type of insect or parasite. ± 24 Hours are the maximum amount of time a nymph part or insect egg will transit through the gut before it is eliminated That is why we saying, if you discovered you have just eaten a bug or two relax “don’t panic it is organic”.

In the olden days people groups used certain herbs in sealed areas to prevent insects from investing the grain. We do not yet know the ultimate procedure, but we will keep on searching for alternatives in order to get to a proven solution.

### **Go Natural's suggestion:**

At present, this is the storing procedure that we recommend using in order to ensure that your grain will keep fresh and unspoiled.

### **Equipment**

1. 70 Microns thick food grade plastic bags
2. 25l Buckets
3. Rope
4. Deepfreeze, that can freeze to -20 degC.

### **Preparation:**

1. Make up 10 kg bags of the grain in the bags and seal it with a goose-neck and tie it with a piece of rope.
2. Freeze for 7 days at -20deg C. This will kill all insect eggs or nymphs if present in the grain. In short we call it insect sterilisation. We have successfully sprouted wheat seeds after it was frozen for more than 6 months, that concludes it for us that the seed was still living and in a good/healthy state, thus not damaged by the low temperature.
3. Put 2x10kg bags in the bucket and seal it with the Bucket lid. This will ensure that no pests or insect can get to the grain and infecting the already sterilized grain. This double (the bucket material and the bag material) insulate the grain from the atmosphere.
4. Store the bucket in a cool, dry and dark (CDD) place.

Trust that this will help you to enjoy your grain trouble free.

Enjoy &



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