



National Agricultural Research Institute

## **INFORMATION ON NEEM INSECTICIDE**



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## USE NEEM EXTRACT AS AN INSECTICIDE TO CONTROL VEGETABLE PESTS.

### Insect pest of vegetables

Neem insecticide is an effective method of controlling caterpillars, larvae of moths, beetles, grasshoppers, leafhoppers of cabbages, bean, tomato, capsicum, aibika and other leafy vegetables.

### Preparation of Neem Insecticide

Before preparing the extract you must have the following materials;

Two big Besta tinfish tins



One household bucket (10L)

## THE INSTITUTE

The National Agricultural Research Institute (NARI) was established by an Act of National Parliament of Papua New Guinea in July 1996 as a publicly funded, statutory research organisation, to conduct applied and development oriented research on food crops, alternative food and cash crops, livestock and resource management issues. Besides applied and adaptive research, NARI is responsible for providing authoritative technical, analytical and diagnostic services and up-to-date information to the entire agriculture sector in PNG. The major targets are the smallholder semi-commercial farmers in the country.

The mission of NARI is to contribute, through applied research and technical services, to the development of the agriculture sector and realization of the national goals by identifying, adapting and transferring agricultural technologies and information, so as to:

- Enhance the productivity, efficiency and sustainability of the smallholder agriculture, and
- Improve farmer income, food security and welfare of Papua New Guineans and the Nation.

This toktok was written by  
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## Spray intervals

- Spray weekly if pest is a problem
- Spray fortnightly if pest is not a problem

## Things to remember

- After spraying neem on vegetables you can harvest after 3-6 days
- Neem insecticide is cheap and easy to make, easy to use, does not cause damage to the environment, very safe to handle.

Knapsack CPI 5L



Wooden bowl and grinding wood/stone



Piece of fine cloth (old mosquito net)



Dry neem seeds



Bucket and home made straw



Applying neem solution using home made straw



## Application

To use a knapsack, strain the solution using a fine cloth to remove debris. The extract is ready for use .

If no knapsack, use a bucket. Make a home-made brush using a tree branch. Dip into solution and splash evenly over all the leaves of vegetables

## Time to Spray

- Early morning (6.00 am - 9.00 am)
- Late afternoon (5.00 pm - 6.00 pm)

## Water



## Box of Soap flakes



## Procedure involved in processing neem extract

Remove the dry skin and use only the kernel (eg. like removing peanut shells)



Weigh kernels enough to fill (2) Besta tinned fish tins.



Fill a bucket of water (10L) and set aside for the extract.

Pour kernel into the wooden bowl, using the grinding wood/stone pound into small pieces until the oily substance is removed. Continue until all weighed kernel has been pounded.



Pour the mixture in a bucket (10L) of water. Add four (4) box of soap flakes, stir well using the stick and leave for 6 hours before use.