









ORGANIC PEST MANAGEMENT

To protect organic crops from pest infestation, plants which contain substance and odor unfavorable to target pests and insects may be used. Plants such as citronella, marigold, chives, chilli, alagao and guyabano seeds may be utilized to minimize some pests infesting on crops such as aphids, leaf miners, and armyworms. Perla soap (coconut-based soap) may also be used to control and minimize aphids. These organic pesticides are sprayed on crops when initial signs of target pests are observed.

ORGANIC PESTICIDE	TARGET PESTS	METHOD OF PREPARATION AND ]=[‘DOSAGE	FREQUENCY OF APPLICATION
<b>Citronella extract</b>  <b>Curry leaves</b> 	Leafminers and other sucking insects	1. Gather and chop citronella leaves and stalks or curry leaves 2. Blend chopped leaves and stalks 3. Mix with water and spray to crops using a knapsack sprayer  Dosage: 250 g leaves and stalk (blend in 1L water): 2 knapsack sprayers (16 L/knapsack) ❖ Perla soap dissolved in water or liquid detergent may be added to solution.	as needed
<b>Chilli/Strawberry hot chilli</b>  	Aphids and a variety of pests	1. Gather and chop/blend chillies/Strawberry hot chillies 2. Mix with water and spray to crops using a knapsack sprayer (very early in the morning/late in the afternoon)  Dosage: 30g strawberry hot chillies/50g chilli pepper : 1 knapsack sprayers (16 L/knapsack) ❖ Perla soap dissolved in water or liquid detergent may be added to solution.	As needed
<b>Chives extract +</b>  	Aphids	1. Gather and blend stalks of chives 2. Mix blended stalk in vinegar (250 g:0.5 L vinegar:2 L H2O) 3. Spray to crops (Late in the afternoon and immediately water the next morning	As needed

<b>Guyabano seed extract</b> 	Chewing insects like caterpillar	1. Soak 70-100 guyabano seeds overnight in 1L water 2. Blend soaked seeds 2. Mix with water and spray to crops using a knapsack sprayer Dosage: 70-100 seeds: 1 knapsack sprayer (16 L/knapsack) ❖ Perla soap dissolved in water or liquid detergent may be added to solution.	as needed
<b>Citronella + kakawate + Alagao leaves</b>	White flies Mites (seed storage)	1. Gather and blend citronella, kakawate and alagao leaves 2. Mix with water and spray to crops using a knapsack sprayer Dosage: 100 gms leaves of each plant : 1 knapsack sprayers (16 L/knapsack)	As needed
<b>Fish kale</b> 	Chewing and sucking insects	1. Gather and chop fish kale leaves, then soak overnight in 1L water 2. Mix with water and spray to crops using a knapsack sprayer Dosage: 200 gms leaves of plant : 1 knapsack sprayers (16 L/knapsack)	As needed

Note: aside from perla soap, gumamela flowers may be used as sticker

Insect repellent crops such as spearmint, peppermint, chives and other crops which has strong odor may be planted around planting area to discourage harmful pests from attacking main crops. Marigold and celosia may also be planted to serve as breeding area for beneficial insects.



spearmint



peppermint



marigold



celosia

## VISION

BPI-LBNCRDPSC is a recognized and leading Research Development and Production center for lowland vegetables.

## MISSION

We generate crop farming technologies and produce quality seeds of lowland vegetables to ensure sustainable food production.

## CORE VALUES

### SPICE IT!

**Service – orientation:** BPI is proactive who values its clients.

**Professionalism:** BPI is competent abiding by the government's Code of Ethics. BPI is fair and just in the delivery of its services to its clients and personnel.

**Integrity:** BPI is transparent, honest, and accountable for its action.

**Commitment:** BPI works with passion and commitment.

**Excellence:** BPI produces the best results.

**Innovation:** BPI finds new solutions.

**Teamwork:** BPI exercises partnership and camaraderie.

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