

Against various pests,  
Grasshopper and beetles

### Ingredient

- BE5 water 1-2 spoons
- Tomato leaves juice 1 spoons
- Chromolaena odorata juice (Jack in the Bush)  
1 spoon
- Khadao cf 1 spoon
- Khueangkhaoho cf 1 spoon
- Eucalyptus juice 1 spoon
- Dokdaohueang 1 spoon
- Clean water 10 liters
- White lime for soil preparation

### Using

- Use properly proportion white lime to spread throughout the soil during soil preparation, approximately 500-1000 kg per hectare. Farmers had better check the acidic and alkaline soil.
- Dilute the herbal mixture with clean water : 1 liter with 3 liters of water
- If there are many insects spreading, use it ongoing 3 days.
- For protection, only use it 1 time per week

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### Advantages

1. Cost-effective of producers
2. No harmful to producers and consumers
3. Environmentally friendly
4. Productive & Good prices

### Recommendations

- Be careful when using these recipes, you should wear facemask to protect dizziness because some formulas have a strong odor.
- You should follow the recommendation of harvesting vegetables according recipes
- The more ingredients you use, while following the preparation and usage methods as closely as possible, the more effective it will be for your garden.

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## Technical Leaflet TECHNIQUES FOR PRODUCING INSECT REPELLENTS 2/2



Sndin, Hongngoua, Phonemuag, nakha  
and Nanard Village, Nasaythong District,  
Vientiane Capital, Lao PDR

### Agroecological system:

Zone	Main activities	Climate	Rainfalls	Temperature
Plain	rice/ vegetable	Seasonally tropical (rainy season: June to October)	~ 1300 mm/year	Avg max: 35°C - Avg min: 14°C

## Against Various types of pests



### Ingredients

- Kadao leaves or seeds, (*Azadirachta indica*) + kheua khao, (*Tinospora*): 1 kg
- *Blumea balsamifera*, ginger, Galangal Root, dry garlic 1kg
- Chili 1kg
- Blackberry leaves 1kg
- Phaknao ឆ្នាំង, Khueang tokma (ເຄືອດົດໝາ) 1kg

### Preparation Steps

- Crush the herbs into powder, tie them with gauze, put stones in them, tie them tightly,
- Put them in a container, pour water to soak the herbs
- Stir in it for 5-10 minutes in the morning and evening for 15 days.
- It can be used and stored for 6 months.

### Using

- Mix 1 liter of herbal water with 10 liters of water
- Water or spray in the evening for 3 consecutive days.

## Against Aphid



### Ingredients 1st recipe

- Water mixed with tobacco 1 spoon
- Water BE5 1-2 spoons
- Dok daoheuang 1 spoon
- *Azadirachta indica* 1 spoon
- Lemon grass juice 1 spoon
- Garlic juice 1 spoon
- Galangal Root juice 1 spoon
- Water 10 liters

### Ingredients 2nd recipe

- 1 glass of vegetable oil (soil bean oil)
- 10 liters of water
- Washing liquid soap 1 spoon

### Preparation Steps

- Mix together and apply immediately (cannot be stored)

### Using

- Mix 3 spoons herbal mixture with 5 clean liters of water
- Ongoing spray in the evenings

## Against Red Ants



### Ingredients 1st recipe (to prevent red ants)

- Use cheese to prevent or control red ants.
- Red chili 1 spoon
- Water BE5 1-2 spoon
- Clean water 10 liters
- Use to water gardens with red male ants.

### Ingredients 2nd recipe (to kill red ants)

- Dry garlic 0,5 kg (chop for smallest)
- Gasoline 0.05 liter
- 2 liter of water

### Preparation Steps - 2nd recipe

- Mix garlic and gasoline together and leave it for 2 hours. After, add 2 L of water to the mix.
- After 24 hours, filter the mix to keep only the liquid part.
- Leave for 1 week until the gasoline smell is gone

### Using - 2nd recipe

- 3 spoons of the solution/5 liters of clean water,
- Spray in the evenings consecutively
- Use it carefully and with an adapted facemask