

BOTANICAL PEST CONTROL

INSECTICIDAL PLANTS



Damong Maria (*Artemisia vulgaris*)

Parts to be used: Leaves

Mode of Preparation and Application

- ✓ Pound, extract juice and spray at a rate of 24 tablespoon per 16L of water.

Target Pest: Corn borer



Lantana (*Lantana camara*)

Parts to be used: Leaves

Mode of Preparation and Application

- ✓ Pound, extract juice and spray at a rate of 24 tablespoon per 16L of water.

Target Pest: Corn borer



Tubli (*Derris philippinensis*)

Parts to be used: Roots, Leaves and Bark

Mode of Preparation and Application:

- ✓ For extract juice and spray at a rate of 5 cups juice per gallon of water;
- ✓ For powder, mix with detergent and spray at a rate of 120 grams powder + 250 to 300 grams detergent per gallon of water.

Target Pest: Diamondback moth



Wild Sunflower (*Tithonia diversifolia*)

Parts to be used: Leaves

Mode of Preparation and Application:

- ✓ Pound, extract juice and use as spray at a rate of 1 part juice per 3 to 5 parts of water.

Target Pests: Diamondback moth, Hoppers



Marigold (*Tagetes erecta*)

Parts to be used: Roots and Leaves

Mode of Preparation and Application:

- ✓ Extract juice and spray at a rate of 24 tablespoon juice per liter of water

Target Pests: Rice green leafhopper, Diamondback moth, Brown planthoppers, Black bean aphid



Makabuhay (*Tinospora rumphii*)

Parts to be used: Vines

Mode of Preparation and Application:

- ✓ Extract juice and spray at a rate of 15-20 tablespoon juice per 5 gallons of water

Target Pests: Diamondback moth, Rice green leafhopper



Black Pepper (Paminta) (*Piper nigrum*)

Parts to be used: Fruits

Mode of Preparation and Application:

- ✓ Pulverize seeds, mix with water and spray; powder and spread around stored grains

Target Pests: Diamondback moth
Cotton stainer
Common cutworms
Corn weevil



Hot Pepper (Sili) (*Capsicum frutescens*)

Parts to be used: Fruits

Mode of Preparation and Application:

- ✓ Pound, extract juice and spray at a rate of 2 to 3 tbsp per liter of water.

Target Pests: Rice moth, aphids and other insects in larval stage

BOTANICAL PEST CONTROL

INSECTICIDAL PLANTS



Carrots

(*Daucus carota*)

Parts to be used: Roots and Tubers

Mode of Preparation and Application:

- ✓ Pound roots and tubers
- ✓ Soak in water
- ✓ Extract concoction and use as spray

Target Pest: Planthopper



Tomato

(*Lycopersicon esculentum*)

Parts to be used: Any parts of the plant

Mode of Preparation and Application:

- ✓ Pound fruits, leaves and stem to extract juice. Spray at a rate of 1 part tomato juice to 3-5 parts water.

Target Pests: Beetles, Aphids, Caterpillars



Madre de Cacao or Kakawate

(*Gliricidia sepium*)

Parts to be used: Leaves and Barks

Mode of Preparation and Application:

- ✓ Chopped thinly the leaves and bark, mix with water (ratio 1:1) leave the mixture for 12-24 hrs. Strain and spray.

Target Pests: Planthoppers, Cutworm, Caseworm, Diamondback moth



Sugar Apple or Atis

(*Annona squamosa*)

Parts to be used: Leaves, bark, seeds and fruit

Mode of Preparation and Application:

- ✓ Chopped thinly, mix with water (ratio 1:1) leave mixture for 12-24 hrs. Strain and spray.

Target Pests: Diamondback Moth, Cabbage Aphid, Green Scale, Cotton Stainer, White-backed Planthopper, Common Cutworm, Sawtooth Grain Beetle, Hairy Caterpillar, Tobacco Caterpillar



Kalingag

(*Cinnamoni mercadoi*)

Parts to be used: Leaves, bark and fruits

Mode of Preparation and Application:

- ✓ Oil extract from leaves, bark and fruit. Mix 2 tbsp with 1L of water and spray.

Target Pest: Fruit fly, weevil, beetle



China Berry

(*Melia azedarach*)

Parts to be used: Leaves, fruits and seeds

Mode of Preparation and Application:

- ✓ Leaves, fruits and seeds are pounded and mixed to small amount of water. Extract concoction and use as spray.
- ✓ Powdered dried leaves and seeds can be used for dusting infested plants.

Target Pests: Migratory Locust, Corn earworm, Yellow stem borer, Rice green leafhopper, Cabbage white butterfly, Brown planthopper



Custard Apple or Anonas

(*Annona reticulata*)

Parts to be used: Seeds

Mode of Preparation and Application:

- ✓ Chopped thinly, mix with water (ratio 1:1) leave mixture for 12-24 hrs. Strain and spray.

Target Pests: Rice pests
Fruit-fly repellent and oviposition deterrent



Trumpet Lily

(*Lilium longiflorum*)

Parts to be used: Leaves and under-developed flower

Mode of Preparation and Application:

- ✓ Pound, extract juice and spray at a rate of 24 tbsp per 16L of water.

Target Pest: Diamondback moth, Hoppers, Caterpillars