

Ideas for Integrated Pest Management

Insect / Pest	Helpful Plants
Ants	Mint, wood ashes
Aphids	Nasturtium, garlic, mint, petunias, wood ashes, basil
Beetles	Wood ashes
Cabbage butterfly	Garlic, rosemary, thyme, mint
Chewing insects	Hot peppers
Corn zarworms	Mint
Crawling insects	Wood ashes
Flea beetles	Tomato
Flies	Basil, tomato
Fruit flies, Mputsi flies	Garlic, onions (especially planted under fruit trees)
Insect larvae	Ginger juice
Mosquitoes	Lemon grass, legumes, basil, chanzi
Moths	Sage, lavender, mint, herbs
Nematodes	Marigold, mint
Tomato worms	Marigold
Weevils	Garlic
White cabbage moths	Mint
Wooly aphids	Nasturtium
Cucumber beetle	Radish
Black flea beetle	Mint
Plant lice	Castor bean
Potato beetle	Eggplant, green beans
Potato bugs	Eggplant
Squash bugs	Nasturtium
Worms in goats	Carrots
Worms in horses	Mulberry leaves
Worms in dogs	Pawpaw seeds

Permaculture “Recipes”

The recipes below are made from all “natural” ingredients, and are safer for humans and the environment than chemical pesticides. They should, however, still be treated as you would with manufactured chemicals. Many of the recipes can leave a residue on the plants that does not wash off very quickly. Plants that have been treated with these mixtures should be left at least 14 days before being eaten. Avoid inhaling the fumes from these mixtures or getting the liquid in your eyes. These recipes should be used on a trial basis—Too much will harm the plant and too little will not have any effect.

- Take a large amount of hot chillies and grind them. Add enough water to cover the chillies and a little soap powder or liquid soap. Mix well. (The soap is important because it helps the chilli water stick to the plant leaves.) The liquid can be sprayed directly or you can sprinkle it by pouring it through a tin that has several small holes punched in the bottom. This repellent is good for all green leafy vegetables and cabbages.
- Grind mint, tobacco leaves, hot peppers, garlic, onions, and tomato leaves to extract the juice. Mix with water in a one-to-one ratio. May be sprayed onto plants.
- In a bucket mix together: Tobacco from four cigarettes, ½-1 teaspoon of soapy water, and 5 liters of warm water. Allow to stand overnight. Spray onto plants, or splash it on using a bundle of grass dipped into the mixture. (Note: If a sprayer is used, the loose tobacco should be filtered out first.)