



UNITED ARAB EMIRATES
MINISTRY OF ENVIRONMENT & WATER



Pest Control Measures



Introduction

Pest is any living organism that causes health damage to humans, either directly or with the disease transmission of infectious diseases, or causes inconvenience or damage to stored food or property. Pests include many organisms such as rodents, reptiles, insects, spiders, fungi.

the control of these pests is to identify them and learn how to co-existence and then determine the best means to combat it with the least possible negative impact on human health .the prevention of pests and activity of such a combination of several ways to control and to achieve the best results in the long term.

For example:

- In order to prevent cockroaches and ants from entering through the holes of decomposed wooden doors, replacement of these doors and close of holes in necessary before spraying of pesticides.
- When the main crop on the farm was destroyed by plant viral wilt disease, it should be preferable to utilize seasonal climate date for harvesting. Conservation of soil and using protective grille for seedling is also necessary for plant growth and well ventilation.

Toxicity and Hazards of using pesticides:

There are many risks associated with the use of pesticides, which lies on humans, environment, plants and crops, as pesticides have the ability to cause poisoning. The results of the use of pesticides to combat the scourge of certain pest is generally regarded as provisional, and often require repeated sparring over time , besides pests tend to develop some resistance against these pesticides. These are some reasons why it is important to practice integrated pest management control.

The Ministry of Environment and Water ensures that all pesticides labels contain all of the data to ensure optimal use and safe handling of pesticides, and by following these instructions many risks and damages can be avoided.

There are some steps you can follow to reduce the risks of using pesticides:

- Select the proper type and less toxic pesticide after the identification of the disease.
- Follow the instructive data as written in the label and the bulletin, including the exact and safe amount of pesticide should be used.
- Proper and safe use of pesticide.
- Wear protective overall and tools including safe types of gloves , boots, long sleeve clothing and respirators and eye protection tools.
- Store and dispose of pesticides properly.



Steps of Successful integrated pest management

Integrated pest management program is a combination of several pest control methods. It is about identifying the best means to manage pest control with less impact on the people and environment

To achieve the desired results on the long term the following must be done:

- Identification of the pest.
- Prevent access of pests to food and water.
- Prevent access of pests to their hiding places.
- Eliminate the existing numbers of pests in their colonies whenever possible.
- Prevent the entry of insects to your house.



1-Inspection and investigation.

IPM includes 6 steps that must be abide by: start house periodic inspection to get rid of pests:

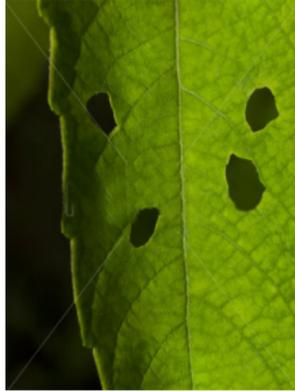
1-Search for:

- Pests
- Signs of pests and damage caused by them (droppings, cast skins and others).
- Suitable habitat for pests.

2-Find:

- Existing pests in your residence.
- Where are they coming from?
- What are they eating?

As an inspector find out evidences together with your family members and make this a family activity.



2-Identification of type and biology of pests

learn about cloning and transformation of pests and where they like to live, their favorite food. The above data will be used to select the best methods of IPM since some pests cause serious health problem and most of them are just a nuisance.

- Rats, mice and cockroaches may cause diseases such as asthma so you need to get rid of them.
- Other pests such as insects and bugs may cause diseases that can be tolerated to.

3- Monitor pests:

Monitoring is a key part of IPM. One way of controlling is to fix and place traps (for example: sticky traps) in the places that you think the pests prefer to live or move. Check the number of captured pests in different control.

4- Choose control method:

The aim behind controlling the pest shall be achieved without doing harm to people taking into consideration the effective pest management emphasizes prevention as follows:

1-Keep pests away from reaching food and water and hiding places

•Sewerage and sanitation:

Frequent cleaning will prevent pests from reaching to food and hiding places.

•Fixing, repairing and filling the holes:

Fixing water leak as a source of life for pests where they like to live in damp place.

•Eliminating clutter:

Clutter inside houses or plants and weeds around the buildings can provide suitable hiding places for pests and they can be used for food storing.

2 -Eliminate gathering of the existing pests.



•Traps

Traps are used for monitoring and controlling of pests such as sticking traps or glue boards, snap traps and live traps contribute in identifying the kind of pests you have.

•Biological control

Using natural enemies of the pests is one choice for controlling of a certain pest (using



•Pesticides

Chemical pesticides are used in IPM when the other control methods are not effective or practical. Choosing and using a registered pesticide as well as following the instruction written in the labels or other guidance bulletin taking into account to use the safest pesticides like pheromones to hinder mating of pests or through mechanical method of control like removing the harmful weeds.

3- Prevent the entry of pests to houses

•Filling up the holes and repair the damages doors and windows so that pests won't be able to enter.
Remember that crumb is a feast for pests.

5- Evaluation

Evaluation is necessary to investigate the success of the used control methods, it's also necessary to determine more effective methods if found necessary.

6-Educate others

-Teach others what they can do to keep pests away. Even children can take an important part when having food and water away from the hiding places of these pests.

Remember that most of pests are not a life threat and when you behave calmly this will help you to solve the problem in a savvy way since panic will lead to the over use or the misuse of pesticides.

The use of IPM properly needs great concern to ensure successful control.