

Integrated Pest Management (IPM)

What is a pest?

Why so many pests?

Natural environment

vs

Man-made environment

Pesticides

Globalization

IPM is a comprehensive approach to pest-control that uses multiple tactics to reduce damaging pests outbreaks and to reduce risks to human health and the environment.

Building blocks of IPM

Knowledge

- Pest life cycle
- Pest behavior
- Seasonal cycle
- Population dynamics
- Interactions
 - Allelopathy

Decisions making aids

- Proper pest ID
- Pest monitoring
- Environment monitoring
- Use of degree-day models (see Phenology module)
- Economic injury
- Action thresholds

Tactics

- Biological controls

- Cultural controls

- Mechanical controls

- Chemical controls

How do organic practices align with IPM strategies?

Pesticide Safety

Always use common sense

Protect your self

Personal Protective Equipment (PPE)

Protect the environment

Storage and disposal

Best practices for chemical control

Types of pesticides

_____icide

Pre-emergent vs Post-emergent

Selective (narrow spectrum) vs Non-selective (broad spectrum)

Preventative vs Curative

Contact vs Systemic

Concentrate vs Ready-to-use

Pesticide Label

Target pests

Active ingredient

Hazard level

- Danger
- Warning
- Caution

EPA registration #

More details...

Precautionary statements

First aid

Storage and disposal

Re-entry Interval (REI)

Directions for use

Conditions of sale and warranty