

FORMULATIONS

Chapter XV

- Pesticides are rarely used as originally manufactured.
- Pesticides are often diluted with water, oil and chemically inert solids to ease application
- Usually, can't be added directly to water or mixed in the field with solids so manufacturer must modify the product by combining it with solvents, wetting agents, stickers, powders or granules.
- Final product is called the pesticide formulation.
- Pesticides are often sold in several different formulations.
- Applicator should choose what is best for a particular job depending on pest, treatment area, application equipment or danger of drift or runoff.
- Abbreviations are often used to denote the formulation

Aerosols (A)

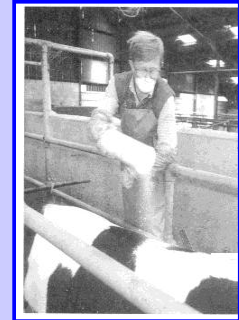
- Ready to use
 - Easy to store
 - Easy to buy small amounts
 - Do not lose efficacy in can
 - Practical for small areas
 - \$\$\$\$
 - Explode
 - Kids may be attracted
- House, backyards



DUSTS (D)

SPOT TRT AND HOME GARDEN

- Ready to use
- Easily applied
- Drift
- Highly visible
- Easy to dislodge



POISONOUS BAITS

Inside buildings, outside in gardens

- Small amount of pesticide
- Easily placed over large area
- Attractive to kids
- Need to dispose of large animals
- Other animals at risk

Used for ants, roaches, rats, mice, slugs



GRANULES (G)

- Like dusts but larger
- No drift
- Applied easily
- Used for soil treatments

READY TO USE (RTU)

- No mixing
 - Low concentrate
 - Fairly \$\$\$
- Used in household for mothproofing, flying or crawling insects

EMULSIFIABLE CONCENTRATES (EC)

- High concentrate of the pesticide, easy to transport
- Price per pound is low
- Do not need agitation in tank
- Not abrasive
- Low residue
- Variety of uses, adapted to many types of application equipment
- CORROSIVE! Easily absorbed through skin

FLOWABLES (F)

- Finely ground suspended in liquid

WETTABLE POWDERS (WP)

- Dry preparations with high concentration of pesticides mixed with water to form suspensions.
- Low cost, easy to store
- Most widely used of all the formulations
- Not easily absorbed through skin
- Dusty when mixing, require agitation
- Can be abrasive

FUMIGANTS

Pesticides in the form of poisonous gases

- Penetrates into cracks and crevices
- Toxic to many forms at once
- Must be enclosed
- Highly toxic

Soil treatments, dwellings, state borders.