



Section 6

Get the Best Results

Grower Pesticide Safety Course Manual © 2006

The page number at the top right corner of each slide tells you where to find the information in the Grower Pesticide Safety Course Manual. Follow along in your manual as you review each slide.

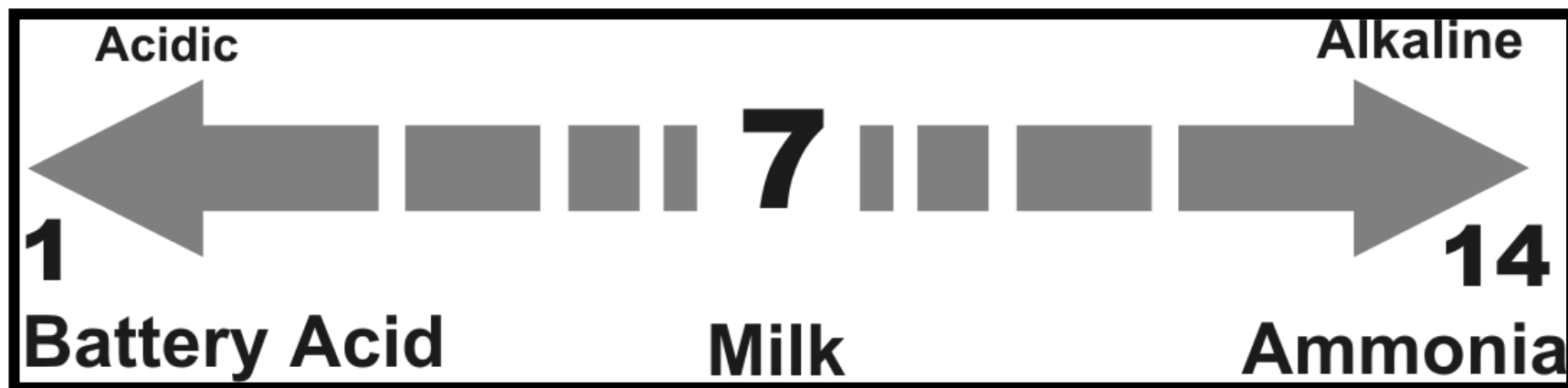


Get the Best Results

- **characteristics of the pesticide**
- **environmental conditions at the site**
- **quality of water to dilute the pesticide**



pH Scale



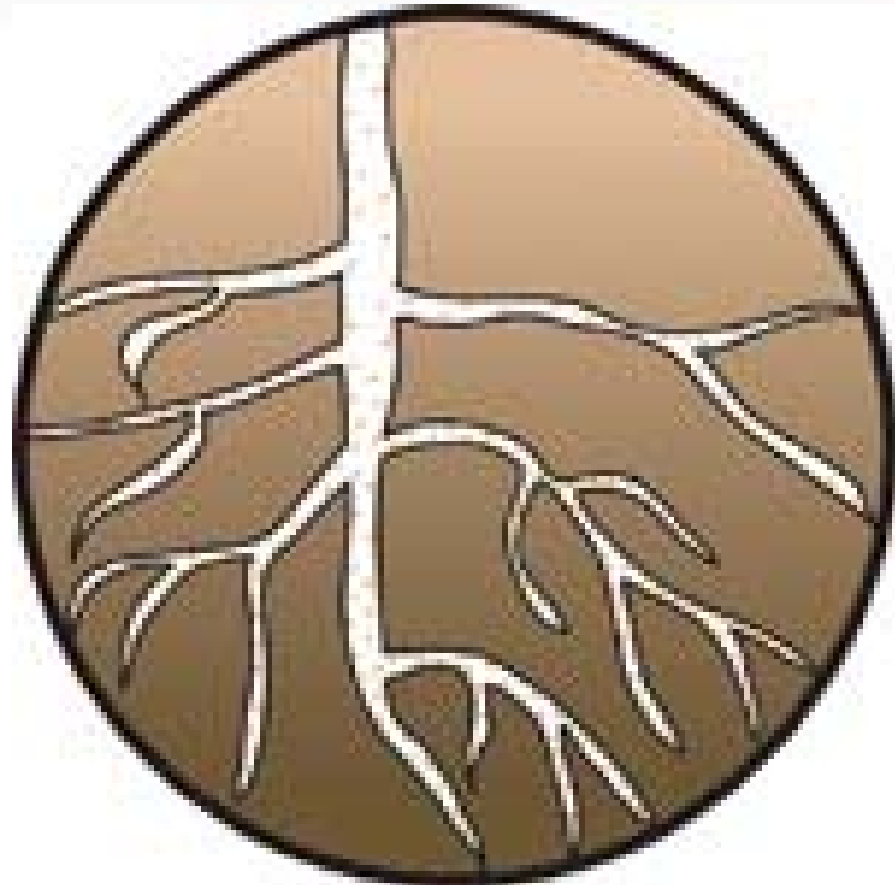
Examples of pesticides that break down in alkaline water, noted by their half life.

Captan	pH 7 = 8 hrs	pH 8 = 10 min	pH 10 = 2 min
Dimethoate (Lagon)	pH 2 = 21 hrs	pH 6 = 12 hrs	pH 9 = 1 hr
Phosmet (Imidan)	pH 7 = 12 hrs	pH 8 = 4 hrs	pH 10 = 1 min

Plant Stress

Pesticides must enter the plant tissue --

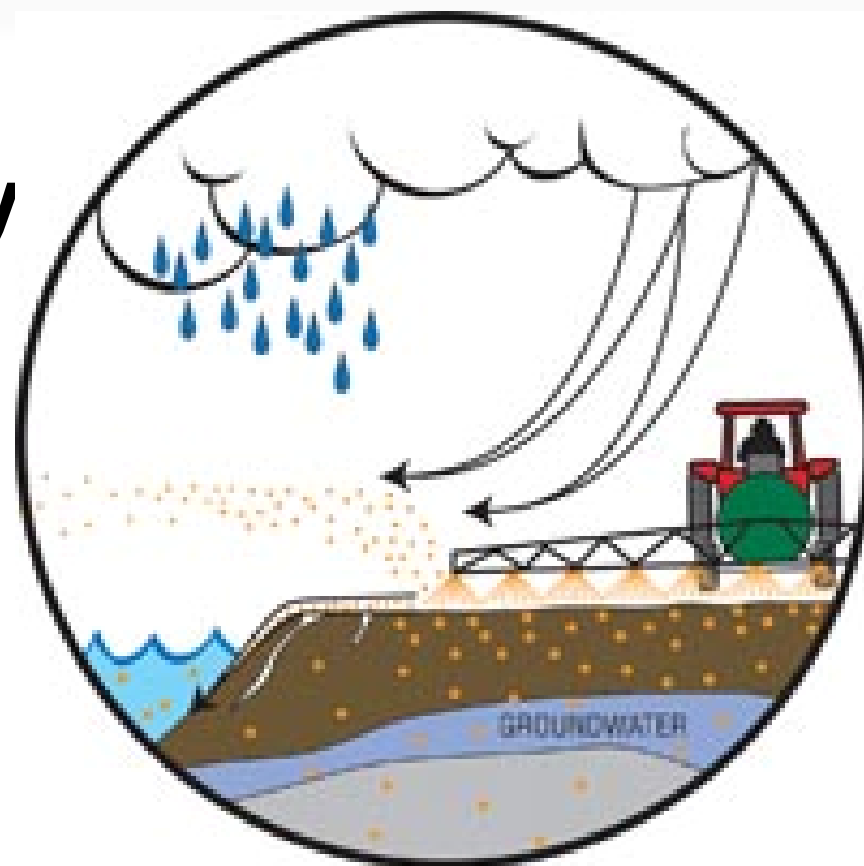
- **difficult when plants are**
 - older
 - under stress from dry/wet conditions





Environmental Conditions

- **temperature**
- **relative humidity**
- **precipitation**
- **air movement**
- **topography**
- **sensitive areas**



Selecting Pesticides

Pesticides should:

- be effective**
- be registered by PMRA**
- be classified in Ontario**
- fit the work schedule**
- fit the harvest date**
- present the least hazard to workers**

Selecting Pesticides

Pesticides should:

- have the least risk to environment**
- have the least effect on beneficials**
- discourage pest resistance**
- be compatible**
- minimize exposure to applicator**
- be right for application equipment**
- control secondary pests**

Always Read the Label First!

