



Pesticides and Human Health (from NPIC)
Pesticides have a specific purpose in society.
Pesticides are intended to:

Kill organisms that cause disease and threaten public health Control insects, fungus, and weeds that damage crops Control pests that damage homes and structures vital to public safety

Because people use pesticides to kill, prevent, repel, or in some way adversely affect some living organism (the pest), pesticides by their nature are toxic to some degree.

Even the least-toxic products, and those that are natural or organic, can cause health problems if someone is exposed to enough of it.

People come into contact with pesticides in many ways, including:

When pesticides are used in and around our homes and gardens
When pesticides are used on our pets
When we work with pesticides
When pesticides are used in our communities or in our environment
When pesticides are used on the food we eat

The risk of health problems depends not only on how toxic the ingredients are
(Pesticide Ingredients), but also on the amount of exposure to the product.

In addition, certain people like children, pregnant women and sick or aging populations may be more sensitive to the effects of pesticides than others. To reduce the risk of health problems from pesticides there are several things you can do:

Identify the least-toxic way to control your pest;

learn about Integrated Pest Management (IPM).

Always read the pesticide label first!

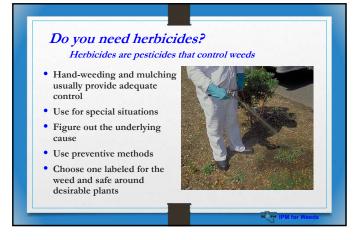
Select the appropriate product for your site, method and goals.

Read all precautions and warnings on the label prior to use.

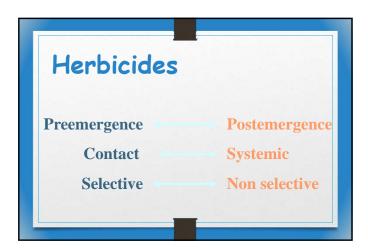
These are intended to help you prevent harmful exposures.

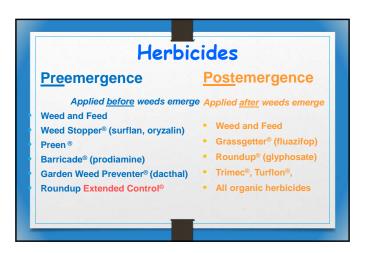
Take steps to minimize your exposure, even when using low toxicity pesticides

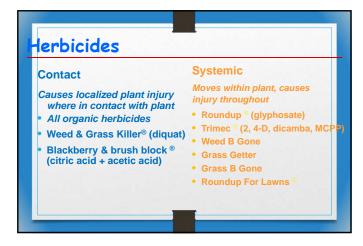
References
UCIPM website- pest notes and PMG's
National Pesticide Information Center
http://npic.orst.edu

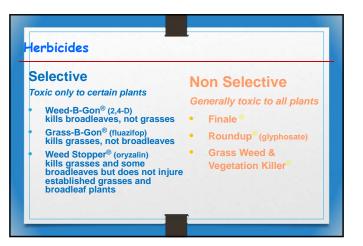


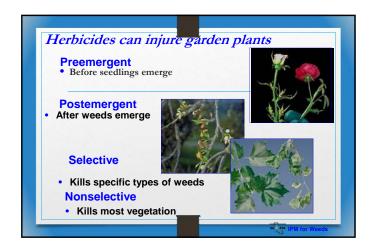
Selecting the Best Herbicide Identify the weed species to be controlled and life cycle What is the crop or desired plant? Determine the soil characteristics Environmental conditions Herbicide application equipment available Duration of weed control desired Is a pre- or postemergence herbicide best?

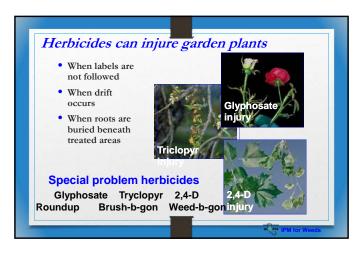




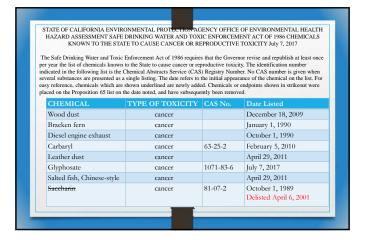


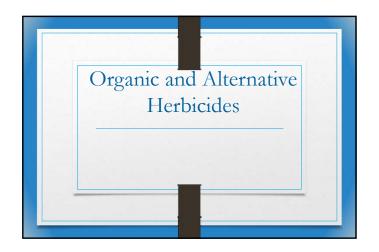












Organic Herbicides Good spray coverage is essential 70 GPA?- suppress lower 40? Work best on clear sunny days. Some work better in warm weather (80°F+) Organic surfactants improve weed control Treat when weeds are small Repeat applications are needed for larger weeds



Product	Signal word	Active ingredient		Cost	Unit	
Roundup Pro	Caution	48.7% glyphosate		\$69.99	2.5 gal	\$0.87
Suppress	Warning	32% capric acid 47	47% caprylic acid		2.5 gal	\$7.49
Finale	Warning	11.33% glufosinate-ammonium		\$175	2.5 gal	\$2.17
WeedPharm	Danger	20% acetic acid		\$29.95	gal	\$7.80
AvengerAG	Caution	55% limonene			2.5 gal	\$18.53
AXXE	Warning	40% ammonium nonanoate		\$195.02	2.5 gal	\$4.84
WeedZap	25 (b)	45% clove oil 45% cinnamon oil		\$124.35	gal	\$12.84
Burnout II	Danger 25 (b)	8% clove oil 24% citric acid		\$135.00	2.5 gal	\$27.91
Scythe	Warning	3% nonanoic acid, other related 57% nonanoic acid		\$178.98	2.5 gal	\$7.39
Fiesta	Caution	26.52% iron hedta		\$250.95	2.5 gal	\$8.15
FinalSan*	Warning	22% free fatty acids and/or amine salts		\$94	2.5 gal	\$12.94













