



Why Should I Use “Reduced Risk Pesticides”

UC Cooperative Extension in Fresno, UC Davis Small Farm Program, and
United States Environmental Protection Agency

The focus of these articles is on reduced risk pesticides; however, remember there are many non-chemical methods to control pests as well.

1. What makes some less risky and others more risky??

- Some pesticides are just very poisonous by their nature
- Some present other hazards such as cancer, reproductive problems, tumors
- Some cause more problems for honeybees and other beneficial insects
- Some last in the environment too long
- Some leach into the groundwater and end up in our drinking water

Selecting and using a reduced-risk pesticide is better for you, your family, and the environment!

2. Organic (biopesticides) vs. Synthetic?

Organic pesticides, sometimes called ‘biopesticides’, are made from natural once-living materials or from certain minerals from the earth. They may come from animal, plants, bacteria, or natural earth products. Examples are ‘rotenone’ (plant).....*Bacillus thuringiensis*/Dipel (bacteria).....and sulfur (mineral).

Synthetic pesticides are produced artificially in laboratories from non-living materials. Examples include malathion, diazinon, Asana, Lannate, and Roundup.

Just because a pesticide is organic does not mean it is not poisonous - it is, and some can be very poisonous, for example, Nicotine (from Tobacco).

3. How poisonous is the pesticide to me?

The front of the label will contain one of the following words to help you know –

Danger (and sometimes Poison)
Warning
Caution

A very poisonous pesticide (category 1) has the words **Danger/Poison**. A less toxic chemical will have the word **Warning**. And, the least toxic chemical (category 3) says **Caution**.

The label is the law - it tells you what to wear while spraying, and it must be followed!!

Next issue – Pesticide Families, What Are Some Reduced Risk Pesticides?

**Uas cas thiaj ho yuav siv tej tshuaj kom txhob muaj tej teeb meem tshwm sim hnyav?
UC Cooperative Extension thiab nrog rau
United States Environment Protection Agency**

Muab saib rau sab uas sawvdaws yuav siv cov tshuaj kom txhob muaj teebmeem ntau; Nco ntsoov tias kuj tseem muaj ntau yam los pab yus tej kev ua noj ua haus thiab tseem muaj lwm yam uas yeej tsis siv tej tshuaj los tswj hlo li thiab.

1. Ua cas muaj ib txhia tshuaj siv tsis muaj teebmeem loj, tabsis muaj tej yam ho yuav ua teebmeem loj heev ua luaj??
 - Ib txhia tshuaj nws yeej muaj zog heev nws yeej yog hom zoo li ntawv
 - Ib txhia tshuaj nws ua tau mob (cancer), ua rau xeeb tsis tau menyuum, tsis tas li ua mob tumors.
 - Ib txhia tshuaj ua rau tej mov ua zib tuag tas, hos muaj tej yam ua rau tej kab zoo puas tsuaj thiab.
 - Ib txhia tshuaj nws nyob ntawm thaj chaw siv ntawv ntev heev li.
 - Ib txhia nws nws mus rau tej dej hauv qhov av uas thaum kawg peb sawvdaws yuav tau siv tej dej no los haus.

Xaiv cov tshuaj kom txhob muaj ua teebmeem loj rau koj thiab koj tsev neeg thiab nrog rau ib cheeb tsam koj nyob ntawv!

2. Cov tshuaj organic (biopesticides) VS. cov tshuaj synthetic
Cov tshuaj tua kab organic, tej zaum luag hu hais tias biopesticide yog ua tawm los ntawm tej yam khoom muaj sia los yog muab tawm haub av los, Cov tshuaj thamabxaj nod yog muab tawm ntawm tej tsiaj, tej ntoo, tej yam uas muaj sia, los yog tawm hauv av los. Piv li cov tshuaj (rotenone) yog los ntawm tej ntoo los, cov (bacillus thuringiensis / Dipel) los ntawm cov kab bacteria thiab cov (sulfur) peb hu tias leejfaj yog los hauv av los.

Tshuaj synthetic luag ua tawm los nws tsis yog tej yam khoom muaj sia ua tawm los. Piv xam li cov malathion, diazinon, asana, lannate thiab cov roundup.
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3. Rau kuv ne cov tshuaj no nws muaj taug npaum licas?

Nyob ntawm daim label daim ntawv qhia cov tshuaj nws yeej muaj cov lus ceeb toom qhia rau koj kom paub txog li nod:

Danger (ntawv zaus los lus poison nod thiab)

Warning

Caution

Cov tshuaj uas muaj taug tshaj plaws yog cov (category 1) muaj lo lus tias **Danger/poison**. Cov tshuaj muaj zog ib nraw yog cov (category 2) **Warning**. Cov tshuaj muaj zog tsawg yog cov (category 3) lo lus ceeb toom tias **Caution**.

Daim <u>label</u> yog txoj cai nws yeej qhia meej rau koj thaum koj yuav txuam tshuaj thiab yam khoom koj hnab los tiv thaiv, koj yuav tau ua raws nraim li tau qhia!!
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