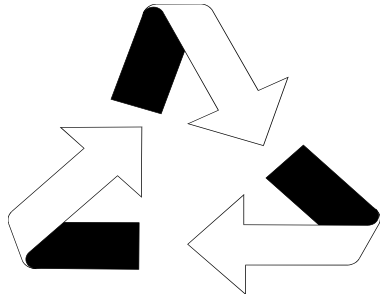


**We must work together to  
create a healthy city for  
everyone.**

**Together, we can bring  
nature to life.**

# **C.A.L.M. Clear Alternatives for Landscape Management**

**An Initiative of the  
Best Management  
Practices Committee**



Produced by Corporate Communications with the  
Department of Parks & Recreation  
Revised March 2006

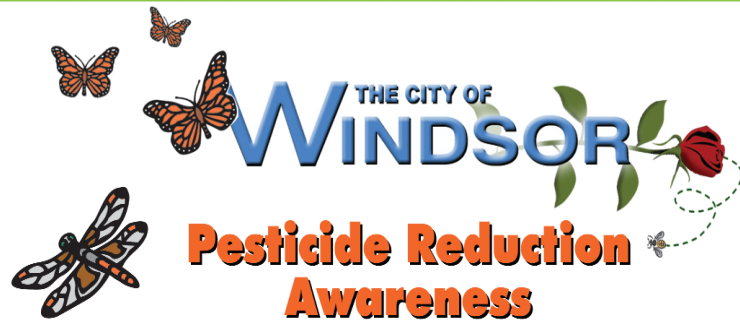
Visit our website:  
[www.citywindsor.ca](http://www.citywindsor.ca)



Windsor Essex County Environment Committee







## Do You Use Pesticides?

### Pesticide By-law 35-2006

The City of Windsor By-law 35-2006 is committed to a two-stage process which will reduce the use of pesticides. The City of Windsor recommends alternative methods, but if pesticides have been chosen, the following conditions apply:

Pesticides warning notices must be posted 24 hours before the use of pesticides and remain for 3-10 days following the application.

Pesticide notices are available free-of-charge in community centres, pools and arenas and libraries. Or click on [www.citywindsor.ca](http://www.citywindsor.ca) to print your own. Remember, it is a two sided sign and both sides must be displayed.

Pesticides cannot be used if the winds exceed 10 kilometres per hour or if the temperature exceeds 25° C.

Pesticides cannot be used within 10 metres of bodies of water.

Pesticides cannot be used on **Smog Alert** or **Smog Advisory Days**.

You must have an agreement with your neighbour before using pesticides or remain within two metres from the property line.

Complete details on **By-law 35-2006** and helpful tips on alternative pest control can be reviewed on [www.citywindsor.ca](http://www.citywindsor.ca). or call 311.



## Pesticide By-law 35-2006

Windsor became one of the few communities in Ontario with a Pesticide Bylaw when Windsor City Council accepted By-law No. 35-2006 in the spring 2006.

Following public consultations and meetings with the Windsor Essex County Environment Committee, the Department of Parks and Recreation emphasized its commitment to continued public education on the use of pesticides, and its ongoing practice of reduction of the use of pesticides.

The new by-law encourages residents to use alternative methods but if pesticides are chosen it stipulates restrictions on pesticide use:

Pesticides warning notices must be posted 24 hours before the use of pesticides and remain for 3-10 days following the application.

You must have an agreement with your neighbour before using pesticides or remain within two metres from the property line.

In addition, the by-law determines wind, weather and temperature conditions that restrict usage: pesticides cannot be used if the winds exceed 10 kilometres per hour or if the temperature exceeds 25° C. Pesticides cannot be used within 10 metres of a body of water. In addition, pesticides cannot be used on Smog Alert or Smog Advisory Day

Pesticide notices are available free-of-charge in community centres, pools and arenas and libraries. Or click on [www.citywindsor.ca](http://www.citywindsor.ca) to print your own. Remember, it is a two-sided sign and both sides must be displayed.

Complete details on By-Law 35-2006 can be reviewed on [www.citywindsor.ca](http://www.citywindsor.ca). or call 311.

## Nature First

The City of Windsor has developed an Integrated Plant Health Program which encourages the growth of healthy plants that can better resist pest infestations. Physical, mechanical and natural alternatives are the methods of choice. Pesticides are only used as a last resort.

Healthy lawns and gardens are the best defense against weeds and insects. This doesn't take much work if you follow our natural methods.

- N** Nature First
- A** Arm Yourself with Knowledge
- T** Take Time to Evaluate Your Lawn and Garden
- U** Use Natural Methods First
- R** Respond to the Problem
- A** Assess the Outcome
- L** Live with Your Environment

## Some Helpful Tips

### Garden Friends

Beneficial insects and predators such as ladybugs, lacewings, worms, bees, birds, and spiders are attracted to your garden if you provide water, food and a place to live. These creatures will help control your pest populations.

### Natural Sprays

Natural sprays can be made right in your own kitchen. Here are some simple recipes:

Natural Fungicide: 1 tbsp of baking soda in a gallon of water controls powdery mildew.

Natural Insecticidal Soap: 1 tbsp of dish detergent in 1 gallon of water is effective when applied on the top and underside of leaves. Leave on for 1/2 hour and then rinse.

Garlic Insecticidal Spray: in a blender combine 1 garlic bulb and 2 cups of water. Set aside for 1 day, then strain the liquid. Mix the liquid with 1 gallon of water and apply to the tops and undersides of leaves.

### Trapping

Jars filled with a water/molasses mix (10 parts water to 1 part molasses) lure flying insects and cause them to drown.

For slugs and snails, put 1 tsp yeast, 1 tsp sugar, 2 tbsp flour, and 2 cups of warm water in a plastic container. Bury the container in the ground 1/2" above the soil. Wood ashes sprinkled around choice plants, act as a deterrent.

To trap earwigs, flatten paper towel rolls or rolled up newspaper and moisten them. Leave them out at night and in the morning shake the rolls out over soapy water.

## **ONTARIO CLEAN WATER AGENCY**

1 Yonge Street, Suite 1700

Toronto, Ont. M5E 1E5

Phone: 1-800-667-6292

[www.ocwa.com](http://www.ocwa.com)

Booklet, " Beautiful Lawns and Gardens through-  
Water-Efficient Landscaping"

## **PEST MANAGEMENT REGULATORY AGENCY**

C/O Health Canada

2250 Riverside Dr.

OTTAWA, Ont. K1A 0K9

CONTACT: Pest management Information Service

Phone: 1-800-267-6315

[www.healthylawns.net](http://www.healthylawns.net)

### **Pamphlets entitled:**

"Lawn Maintenance"

"Lawn Problems"

"Lawn Establishment"

"Pesticide Use in and Around the House"

## **RIVER VALLEY FORESTRY AND ENVIRONMENTAL SERVICES**

12304-107 Street

Edmonton, Alberta

Phone: (780) 496-8733

[www.edmonton.ca](http://www.edmonton.ca)

Search for

Booklet, "Backyard Beneficial Insect Guide"

## **CANADIAN WILDLIFE SERVICE**

C/O Environment Canada

Ottawa, Ontario

K1A 0H3

Phone: (819) 997-1095

[www.cws-scf.ec.gc.ca](http://www.cws-scf.ec.gc.ca)

## **ONTARIO COLLEGE of FAMILY PHYSICIANS**

Environmental Health Committee

Newsletter: "Pesticides & Health"

## **The Best Management Practices Committee**

### **Who We Are**

This committee was established by a resolution of the Windsor City Council to assist the Department of Parks and Recreation in implementing an aggressive reduction program in the use of chemical pesticides for non-essential and cosmetic purposes, on municipally owned properties. The committee consists of representatives of the private and public sector, and Labour who are knowledgeable and experienced landscapers, gardeners, horticulturists, commercial lawn care specialists and two employees, as consultants, from the Department of Parks and Recreation. This committee is co-chaired by Don Sadler, Director of Parks, Windsor Parks and Recreation, and Pat Schincariol, Coordinator of the Windsor Windsor Pesticide Task Force.

### **(C.A.L.M.) Clear Alternatives for Landscape Management**

C.A.L.M. is an initiative of the Best Management Practices Committee.

### **Mission Statement**

This committee is dedicated to reduce or eliminate the use of pesticides for cosmetic purposes by providing accessible solutions that are proven, practical and environmentally sustainable.

### **Our Purpose**

Our goal is to increase public awareness of the effect of pesticides on the health of all living things and the environment. We will demonstrate that there are natural alternatives that adequately replace the need to use pesticides. We are dedicated to providing guidance, through example and written information, to encourage people in our community to make environmentally responsible choices that guarantee clean air and clean water.

### **Integrated Pest Management**

*"A properly conceived IPM program should treat the landscape as a mini-ecosystem, seek to maximize natural balances, and avoid practices, such as poor maintenance and excessive or improper pesticide use, that create more problems than they solve."*

*Michael Talbot, Principles of Ecological Landscaping*

### **Why is A Pesticide Reduction Program Important?**

Recently, people have become aware of the potential harm from the exposure to the types of chemicals found in synthetic chemical fertilizers and pesticide products when they are not applied properly or used in excess. Over use at the time of application can release them into the atmosphere and penetrate through the soil into the water table, eventually ending up in the local drinking water supply. This increases the high level of contamination to both air and water that already exists.

The majority of pesticide product used is for the agriculture industry, but, we can all play our part in reducing the amount of pesticide we use by making a conscious effort to only use a pesticide when other alternatives are not effective.

*The Best Management Practices Committee recommends -*

### **An Integrated Plant Health Care (IPHC) Program**

This is an approach that uses a combination of pest and plant management techniques to manage pest damage by the most economical means and with the least possible hazard to people, animals and the environment (i.e. air, water and soil).

It relies on a combination of common sense practices.

To manage pest damage an IPHC Program emphasizes the importance of establishing a well designed landscape by putting the right plants in the right places. A simple way to ensure that all your plantings remain healthy. If pests do occur, there are a variety of ways to manage pests safely and effectively, many of which require no application of toxic chemicals.

Follow the simple steps of a successful and safe IPHC Program

#### **1. Monitor and Identify**

a) One of the best things you can do for your garden is LOOK AT IT! You should become the expert in your own yard and notice if anything is amiss.

#### **2. Prevention**

a) Choose native plants that thrive in the climate of this region. They thrive because nature has provided them with a built-in resistance to the pests that are common to this region.

b) Many annual weeds thrive in bare, compact soil. These weeds will

### **N.I.C. - Natural Insect Control**

Phone: (905) 382-2904

RR 2

Stevensville, Ont. L0S 1S0

[www.natural-insect-control.com](http://www.natural-insect-control.com)

free catalogue

### **CANADIAN HOUSING INFORMATION CENTRE**

A division of Can. Mortgage & Housing Corp.

700 Montreal Road

Ottawa, Ont. K1A 0P7

Phone: 1-800-668-2642

"Water-Saving Tips for your Lawn and Garden"(CE23)

[www.cmhc-schl.gc.ca/en/co/maho/la/la\\_006.cfm](http://www.cmhc-schl.gc.ca/en/co/maho/la/la_006.cfm)

"Definitely in my Backyard: Making the best choices for you and the environment" Under HOME MAINTENANCE

### **GREEN COMMUNITIES ASSOCIATION**

BOX 928

Peterborough, Ont. K9J 7A5

Phone: (705) 745-7479

[www.gca.ca](http://www.gca.ca)

Action kit with factsheets, "Pesticide free naturally"

### **MINISTRY of NATURAL RESOURCES**

Queen's Printer of Ontario

Public Information Centre, Room 1640, Whitney Block

99 Wellesley St.

Toronto, Ont. M7A 1W3

Phone: (416) 314-2225

[www.mnr.gov.on.ca](http://www.mnr.gov.on.ca)

Booklet, "Landscaping for Wildlife" (1990)

### **NATIONAL AUDUBON SOCIETY**

700 Broadway

New York, N. Y. 10003

Phone: (212) 979-3000

[www.audubon.org](http://www.audubon.org)

Pamphlet, "Guide for a Healthy Yard and Beyond"

## **SOURCES for FREE INFO on ALTERNATIVES**

**"GO for GREEN"** (The Active Living and Environment Program)

30 Stewart St.

Ottawa, ON. K1N 6N5

Phone: (613) 562-5313 FAX: (613) 562-5314

[www.goforgreen.ca](http://www.goforgreen.ca)

**They offer free factsheets on the following topics:**

The health benefits of gardening

The environmental benefits of natural gardening

Organic alternatives to herbicides & pesticides

Water-wise gardening

Gardening with native plants: General Information

Gardening with native plants: Woodland Gardens

Gardening with native plants: Meadow & Prairie Grasses

Gardening with native plants: Wetland Gardens

Internet Resources for Organic Gardening

## **REGION of WATERLOO, Water Efficiency Section**

150 Frederick Street, 7th Floor

Kitchener, Ont. N2G 4J3

Phone: (519) 575-4423

[www.region.waterloo.on.ca/water](http://www.region.waterloo.on.ca/water)

**They offer free factsheets on the following topics:**

Naturescaping - the practical & beautiful alternative to the traditional lawn

Naturescaping Plant Guide

Naturescaping Plant & Mulch Guide

Info on Rain Barrels

Healthy lawns & gardens with less water

## **ONTARIO MINISTRY of the ENVIRONMENT**

Phone: 1-800-565-4923

[www.ene.gov.on.ca](http://www.ene.gov.on.ca)

Free pamphlet on "Beneficial Insects"

## **CITY of TORONTO Pesticide Information**

and tips on alternatives (available in a number of languages)

[www.toronto.ca/pesticides/index.htm](http://www.toronto.ca/pesticides/index.htm)

often grow when water and nutrients are lacking in the soil. Eventually they will squeeze out the desired plants that require healthy soil.

c) Incorporate a variety of different types of plants. Most types of plants have one or two specific enemies that feed only on that kind of grass plant or flower. Plant a mix of grass seed and/or a variety of flowering plants. Better yet, have a majority of plantings that are native species of trees, bushes and flowering plants.

### **3. Set an Action Threshold**

The mere presence of a pest, weed or insect does not always indicate a problem. Even if plants develop some damage, if they are growing in healthy soil, they will be fortified to outgrow the damage over the growing season and become healthy again. BE PATIENT!

### **4. Control**

Less risky types of pest controls should be chosen first.

a) hand removal b) barriers c) traps d) biological control, such as beneficial insects e) commercial, natural alternative products f) companion planting and g) ONLY AS A LAST RESORT - the least toxic chemical control.

## **Keeping the FUTURE of Canada productive with HEALTHY CHILDREN**

In the report, *"Your Child and the Environment"* by the American Academy of Physicians it is suggested AND supported by the Canadian Association of Physicians for the Environment.

### **What Should Be Done**

1. Keep all pesticides out of children's reach to avoid accidental poisoning.
2. Wash all fruits and vegetables with water.
3. Use in-season produce as they are less likely to be heavily sprayed to maintain freshness.
4. If possible, eat foods that are grown without the use of chemical pesticides or a minimum of chemical pesticides.
5. Where possible, use natural pest control methods in your home and garden.
6. Notify neighbours before any outdoor spraying.

**For more Responsible (Integrated) Pest Management Information check out these websites:**

1. Bio-Integral Resource Center (BIRC)  
BOX 7414  
Berkeley, CA 94707  
Phone: (510) 524-2587  
[www.birc.org](http://www.birc.org)
2. Integrated Pest Management with Michigan State University  
[www.msue.msu.edu/ipm/](http://www.msue.msu.edu/ipm/)
3. Windsor Department of Parks & Recreation  
[www.citywindsor.ca](http://www.citywindsor.ca)  
To download a copy of the "EASY LAWN & GARDEN CARE-Natural Alternatives to Pesticides" go to [www.citywindsor.ca](http://www.citywindsor.ca). Then GO TO "Parks" on the side menu and when that web page opens click on the booklet title contained in the text. Branches of the public library throughout Essex County also allow you to download a copy of the booklet from their computer system.
4. Pest Management Regulatory Agency (PMRA)  
c/o Health Canada; 2250 Riverside Dr.;Ottawa, Ont. K1A 0K9  
Phone: 1-800-267-6315  
[www.hc-sc.gc.ca](http://www.hc-sc.gc.ca)
- 4a) A "Healthy Lawns Working Group" has been struck to help Canadians reduce their reliance on pesticides in the urban setting. The strategy of this working group is being developed through a partnership between Health Canada's Pest Management Regulatory Agency(PMRA) and provincial governments who are responsible for pesticide issues.  
[www.healthylawns.net](http://www.healthylawns.net)
5. Responsible Pest Management  
Canadian Centre for Pollution Prevention  
100 Charlotte Street  
Sarnia, Ont. N7T 4R2 Phone: (519) 337-3480  
[www.pestinfo.ca](http://www.pestinfo.ca)  
This initiative is supported by both the Federation of Canadian Municipalities and Environment Canada (National Office of

Pollution Prevention). This web-site provides municipal governments and communities with access to information, tools and networks that maximize opportunities for pesticide reduction. Access to the booklet, "EASY LAWN & GARDEN CARE-Natural Alternatives to Pesticides" is provided through this web-site.

6. Pesticide Action Network North America  
[www.panna.org](http://www.panna.org)
7. Pesticide Free Ontario  
formerly Campaign for Pesticide Reduction in Ontario- CPR-O  
[www.pesticidefree.ca](http://www.pesticidefree.ca)
8. Rachel Carson Council  
8940 Jones Mill Road  
Chevy Chase, MD 20815  
Phone: (301) 652-1877  
A Green Mantle publication called, "Ecoheal IPM for Outdoors - A Homeowner's Guide ". By Diane Post & Martha Collins. Send a written request or call to get information about how to get this helpful publication.  
<http://hometown.aol.com/rccouncil/ourpage/index.htm>

**One Last Word of Advise**

If you choose to use a chemical pesticide handle it properly and safely. Follow these recommendations.\*

1. Read and follow the label directions.
2. Wear protective clothing.
3. Don't smoke or eat during preparation and application.
4. Mix and apply only the amount you need for the identified problem.
5. Store and dispose pesticides properly and safely.

Essex Windsor Solid Waste Authority will provide information about safe disposal methods. Just call 1-800-563-3377.

\*U.S.-EPA Publication,"Citizen's Guide to Pest Control & Pesticide Safety", #EPA 730-K-95-001, Sept., 1995- Single copy-FREE