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# Ontario's Residential Wood Combustion Program 2005-06

**Burn it Smart!**  
[www.burnitsmart.org](http://www.burnitsmart.org)





## *3 Pronged Approach to Reduce Emissions*

### 1. Good Equipment

- promote low emissions models including EPA-certified
- safe, professional installations

### 2. Good Fuel

- well seasoned, clean, dry wood
- no garbage burning

### 3. Smart Consumer & User

- public education workshops (Burn it Smart!)
- public displays
- brochures





# Campaign focus

## Good Practices

### Good practices

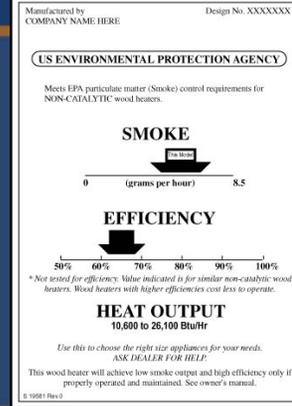
- Heat with wood only if you have to
- Be informed of the winter smog condition and follow advice regarding wood heating
- Don't burn garbage
- Burn only clean, dry wood
- Make a hot fire
- If you must heat with wood, switch to an EPA appliances

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## Pollution/ Health

Wood smoke is ...



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## Type of stove

Steel Stove



Cast Iron Stove



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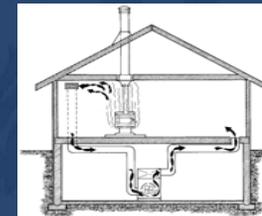


- unburned fuel / wasted energy
- what leads to dangerous creosote in chimneys
- unhealthy air pollution (more than 100 substances)...



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## Location, Location, Location.



- Locate stoves in the main living area
- Install the chimney inside, not up an outside wall
- Open floor plans are good for heat distribution
- Where possible, turn on the furnace fan to distribute heat

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## Detection Devices Save Lives!

- Install a smoke alarm and CO detector (as required by the National Fire Code of Canada)
- Keep a fire extinguisher nearby



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## Security



- Pictured here are three 16" face cords or one full cord
- Firewood length and diameter should be matched to the stove
- Store wood outside under cover

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## Good Wood

## Installation

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## *Ontario Results 2005*

- 7 workshops done in First Nation communities, including WETT training
- 22 workshops completed in rural areas in Ontario and two communities in the United States which were well received [professional workshops]
- 2 Mock-up Stoves of EPA design built for shows and displays
- Videos on “Woodstove Operation” and “Firewood Handling, Storage and Purchase” available





# Burn It Smart Workshops



# Burn It Smart!

In Eastern Ontario  
February 10 to 29, 2004



Above and below: Two views of the big crowd at the workshop in Perth.



Renewable Energy in Kingston's Brad Leonard delivers one of his animated burn display presentations in Belleville.



# *Ontario Results 2005 cont'd*

## Survey on impact of Change-out programs

### Key findings

- 73% said the workshops brought about positive change on how they burned wood
- 15% no longer burn wood.
- 34% have updated their wood burning appliance
- one switched to propane
- of those who changed out their old wood burning appliances 90% chose an EPA appliances.
- Another 13%, still have the intention to replace their wood burning appliance



# *Ontario Results 2005 cont'd*

## Survey on impact of Change-out programs

### Key findings

- 94% or 16 of the 17 respondents plan to replace their old appliance with an EPA certified appliance.
- those 16 when added to the 39 would mean that 55 persons or 41% of all those surveyed will have changed out or intend to change out their old woodburning appliances for cleaner EPA technology
- 91% of those surveyed think we should be offer another workshop in their area
- Those surveyed advised they had burned 104 fewer cords of wood per season





## *Ontario Results 2005 cont'd*

- Develop program to have retailers incorporate Burn It Smart into their stores – *Pilot project with Home Depot very successful. Six locations in Eastern Ontario experienced Burn It Smart events.*
- Attended numerous public events





## *Generated Interest*

- Municipalities considering by-laws requiring EPA stove in new installations. Greater Toronto Area (GTA) by-law incorporates EPA wood burning appliances in all new installations.
- Insurance companies endorsing WETT
- Aboriginal WETT training increasing
- Demand for WETT courses is up
- Attendance at major shows attracting public interest



## *Remaining Plans for 2005-06*

- Burn it Smart “Train the Presenter” workshop to increase “good” wood energy speakers – *planned to be done*
- Develop a distribution plan for materials made this year such as Good Firewood fact sheet, Wood burning in the City fact sheet, Don’t Burn Garbage fact sheet, and videos
  - *Working with municipalities and other non-government groups to promote the material and their events*



# What more could be done?

- Increasing public awareness of air pollution from improper wood burning practices
- Develop more contacts and possible partnerships to promote educational products
- Continue/expand research to verify and qualify hazard potential of numerous pollutants considered harmful



# Joint Environment Canada/EPA initiatives

- Research: Artificial Fire Log study – emissions and composition  
Emission verification - non-EPA woodstoves
- Public workshops in the US and possible Aboriginal communities



# 2006 Workplan

- Continue public workshops in rural areas as well as First Nation communities
- Explore more partnerships similar to Home Depot benefiting both business and the government
- Continue dialogue of distribution of materials with other governmental departments (provincial and municipal) and associations
- Review garbage burning issue in rural and urban settings. Check with local authorities for details.
- Look at wood boiler use in Ontario. Develop survey to measure the impact of these sources of heat and determine the significance of their presence.
- 2006 survey will update wood usage in Canada for home heating





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