

## **Wood Heating**

A GUIDE TO:

**BURN LESS WOOD,** MAKE LESS SMOKE,

**BE MORE COMFORTABLE** 

## Canada

### Think Safety

No wood heating system is complete without these essential devices.

Install a smoke detector AND a carbon monoxide detector-follow the manufacturer's instructions. Carbon monoxide is a colourless and odourless gas, a deadly byproduct of a smokey wood fire. Do not choose between a smoke detector or a carbon monoxide detector—BOTH are equally important!

Keep an ABC fire extinguisher handy in case your fire gets out of control.

## Time for a New Stove?

The best way to improve wood burning efficiency is to replace your stove with an advanced technology, EPA-certified model. They cost a little more, but your community will be healthier, your home safer and you will save time and money on wood-they're worth it.

**Conventional Wood Stove** Overall efficiency: 40-50%. 40-60 grams/hour of smoke/ pollutants are released.



Finally, don't reuse your old stove. Ask at your band office where to dispose of it.

Your smoke detector is

your first defense against fire.

If your stove is smoking,

fix the problem, don't disconnect. Maintenance

be tight so the door

closes properly.

Replace missing

or worn door

gaskets.

Adjust the door

latch so the door

will tightly seal.

Inspect your stove for wear or damage.

Replace any

cracked or

damaged

firebrick.

Creosote is evidence of poor wood burning.

It is a shiny black substance that accumulates in

the chimney and fluepipe—it is very flammable.

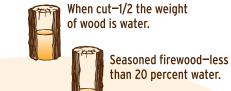
The poorer the burning habits,

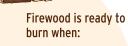
the more often you need to clean.

Using your old stove elsewhere defeats the very reasons you bought the new one: improved efficiency, cost savings and pollution reduction.

### **Good Firewood**

Cut, split and stack it a year ahead of time. Seasoned or dry wood burns hotter and makes less smoke.





- it has cracks in the end grain
- it does not hiss or sizzle in the fire (wet wood means smokey fires and results in creosote)
- it is lighter to carry than when it was cut

Inspect the chimney regularly

Clean as often as needed to avoid creosote

Replace rusty flue pipes

with new black ones-

no galvanized pipe.

Put three screws in

each pipe joint.

build-up that can lead to chimney fires.

 it has darkened to brown or grey

# Dry, Seasoned Wood

- · Household garbage,

When burning garbage,

# Burn Only Clean,

## Don't burn:

- especially plastics
- Salt water driftwood

Store

firewood

outside, and

bring it in

as needed.

you're making poison!

- Treated or painted wood
- Particle board
- Railroad ties

## Reloading Your Wood Stove

Wood burns best in a batch, several logs at a time rather than adding one piece every hour or so.

**Building a Better Wood Fire** 

Good fires flame brightly and don't smolder.

To start a wood fire, place

two split logs alongside

each other-about 10 cm

or small kindling pieces

between the logs. Place

more kindling and larger

smaller logs on top.

Make sure your fire is burning well and the chimney is warm,

creating good draft before closing the damper.

pieces across the two logs,

(4 inches) apart. Put some crumpled newspaper, bark



Before adding wood, rake hot coals to the front, near the air inlet.



pieces of wood on the coals.



Close door.

Open the air control fully and/or crack the door to get the wood flaming quickly.

**NEVER** use gasoline or

oil to start a fire. This

may cause an explosion.

**NEVER** leave a stove with an open door unattended.

Once the fire has fully engaged, close and latch the door and adjust the air inlet.

When wood is burning properly, there will be less smoke from the chimney—light and white, not black. What colour is the smoke coming from your chimney?

## **Dealing with Wood Ash**

It's a good habit to remove a small amount of wood ash every morning, before reloading your stove.



Too much ash will smother the live



embers.



embers that stay hot for days. Put ashes in a metal bucket with a lid and place it outside and away from the house. NEVER store ashes on a wooden porch or deck.

Ashes often contain



Ashes can be spread in the garden to improve the soil.

### **Did You Know?**

- EPA-certified stoves means reduced clearances from combustible wallsoften 30-40 cm (12-16 inches) compared to as much as 120 cm (48 inches) for older stoves.
- Double-wall flue pipes only require 15 cm (6 inches) clearance while single wall pipes require 45 cm (18 inches) clearance.
- Chimneys located inside the house remain warmer, have better draft and reduced creosote.
- · Combination smoke and carbon monoxide detectors are now available.
- Your wood heating system should be inspected by a professional, someone who is trained and certified. Look for the logo-WETT (or APC in Quebec).
- Wood smoke contains many of the same toxic substances found in cigarette smoke. Whether the smoke is found indoors or out, young children, the elders and those who suffer from breathing or heart problems are affected by these pollutants.





For more information, visit www.ec.gc.ca/cleanair-airpur

