

EPA Burn Wise Program Overview

Conference on Long-Range Transboundary Air Pollution (LRTAP) Working Group on Strategies and Review

Thematic Session on Solid Fuel Residential Heating as a Source of Air Pollution and Short-Lived Climate Forcers

Geneva, Switzerland May 24, 2018





What is Burn Wise?

- Key Message:
 Burn the right wood, the right way, in the right appliance
- Goal:
 - Promote upgrades to cleaner burning technologies
 - Educate users on how to properly use their wood burning appliance





Wood Burning Appliance Replacement Projects: Lessons Learned

- Need local champion or organization to lead changeout
- Seek out partners (hearth retailers, fire departments)
- Require professional installation
- Necessary funding incentive levels will vary from place to place
- Funding for administration is important (10%-15%)
- Verify destruction of stove
- Training on how to use new wood burning appliance is critical





What Burn Wise Materials are Available?

- Tip Sheet
- Posters
- Brochures
- Tear Pads
- Wood Shed Construction Plans
- Videos



LITTLE SECRET?

^{*} Free hard copies are currently available for most tools





Wood Moisture

19.5 kg of green sugar maple with approx. water content







Wet Wood Is A Waste Brochure



https://www.epa.gov/burnwise/burn-wise-brochures





Firewood Storage Shed - Construction Plans and Materials List





https://www.epa.gov/burnwise/burn-wise-other-materials

Link to video demonstrating how to build this shed: https://www.epa.gov/burnwise/burn-wise-videos





Test Your Wood with a Moisture Meter

Seasoned or Unseasoned?





"How-to" Burn Wise video also available

https://www.epa.gov/burnwise/burn-wise-other-materials

Burn Wise: Test Your Wood with a Moisture Meter Why should I use a wood moisture meter? Burning wet wood is a waste of energy. Wood burns most efficiently when the moisture content is between 15% - 20%. When a live tree is cut the moisture content can be greater than 50%, (i.e., half of the weight of the wood is water). Too much water in the wood reduces the temperature in the stove preventing the wood from completely burning Burn drier. Burn better.

(water puts out fires). Incomplete combustion results in smoke (wasted energy) going up the chimney and creates creosote (a fire hazard). The smoke can also negatively impact your air quality inside and outside your home.

How do I test my firewood with a wood moisture meter?

Split the firewood, then shortly after (less than 24 hours), stick the prongs of the wood moisture meter into the newly split side of the wood. This ensures you are testing the inside of the wood and not just the outer layer of the wood. Also, stick the wood so the prongs run parallel with the grain of the wood and test 2-3 different locations for the most accurate reading. If possible, test the wood when the outside temperature is 50°F - 90°F. Lower wood temperatures result in lower indicated moisture content. See correction table: http://www.delmhorst.com/correctiontables#temperature. You can purchase a basic moisture meter online or at most hardware stores for around \$15.00 - \$40.00.

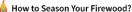
Step 1: Step 2: Test newly split side Split the wood











To season your wood split (split wood dries much faster), stack, cover the top and store your wood for at least 6-12 months.

For more information go to http://www.epa.gov/burnwise.

Burn Wise Split, Stack, Cover and Store Video- http://www.youtube.com/watch?v=yo1--Zrh11s.







Who is Sharing the Burn Wise Message?

- Hearth Retailers, Manufacturers and Trade Association
- States, Tribes and Local Agencies (S/L/T)
- Chimney Sweeps/Chimney Sweep Institute of America
- Non-profit Organizations (NGOs)
- EPA Headquarters & Regional Offices





Travis Industries – Moisture meter and Burn Wise message provided with every stove







Minnesota State Fair











Partnering with Chimney Sweeps

- Sweeps share Burn Wise message
 - Split, stack, cover and store
 - How to build a wood storage shed
 - How to use a wood moisture meter









Summary and Conclusions

- Supporting reduction in PM2.5
- Strong collaboration with S/L/T, industry & NGOs
- Building capacity of partners to implement Burn Wise Program





Questions/Comments?

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www.epa.gov/burnwise