

Solid Fuel Burning Devices And Washington Law

October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

What are solid fuel burning devices?

- Wood stoves
- Pellet stoves
- Manufactured fireplaces
- Masonry fireplaces
- Masonry heaters
- Wood burning furnaces
- Wood burning hydronic heaters

October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Wood Stoves

- Freestanding



- Insert



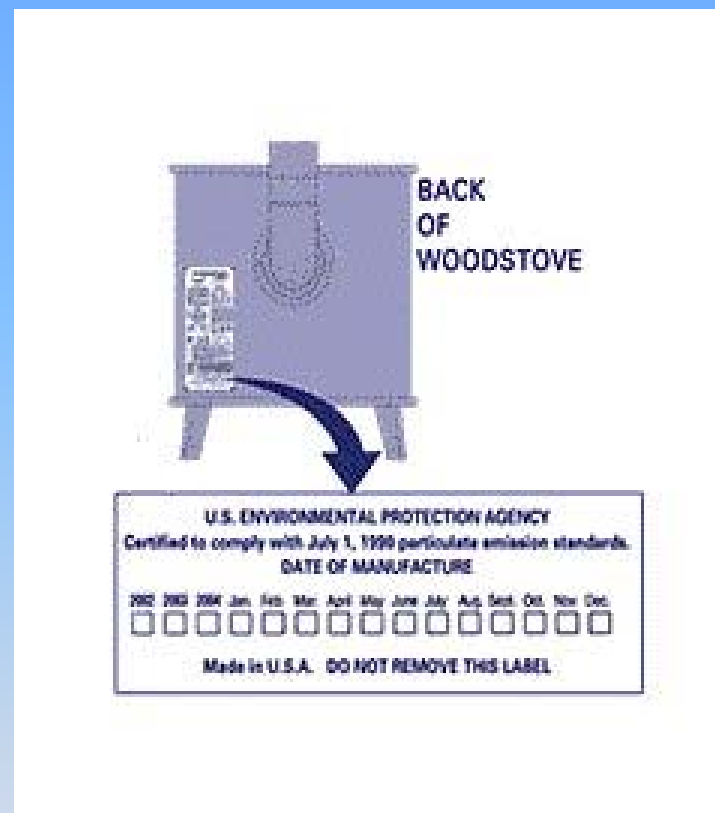
October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Wood Stoves

- EPA certified
 - 1988 to present
 - Limits fine particle pollution
 - tag on back
- WA Approved
 - Nearly 2X cleaner than EPA



Wood Stoves

- Uncertified – pre-1988 or Homemade



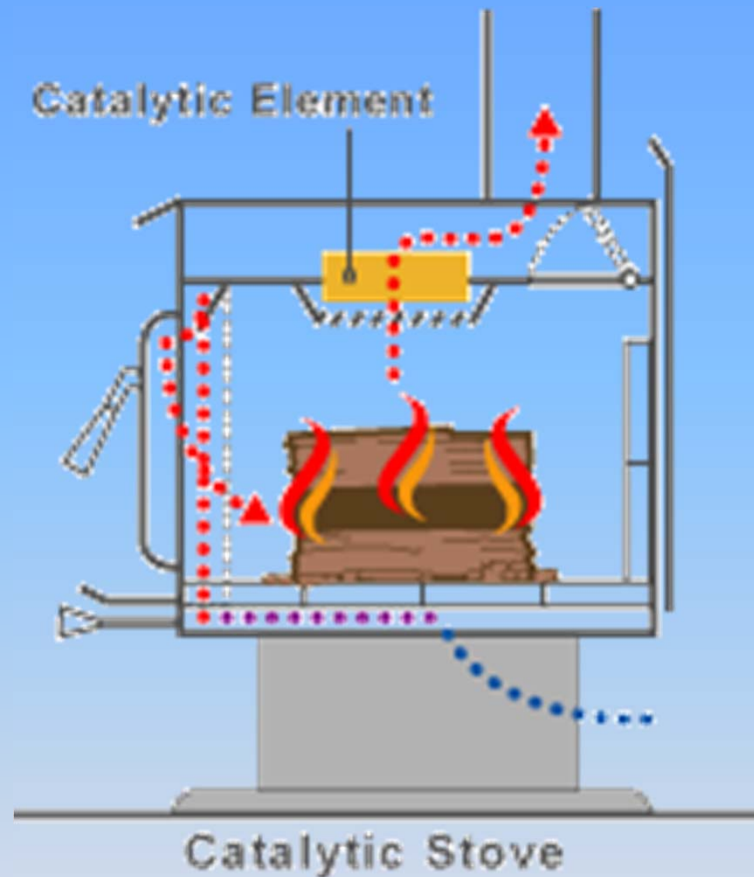
October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Wood Stoves

- Catalytic stoves
- Required to be almost 2X cleaner than non-catalytic stoves

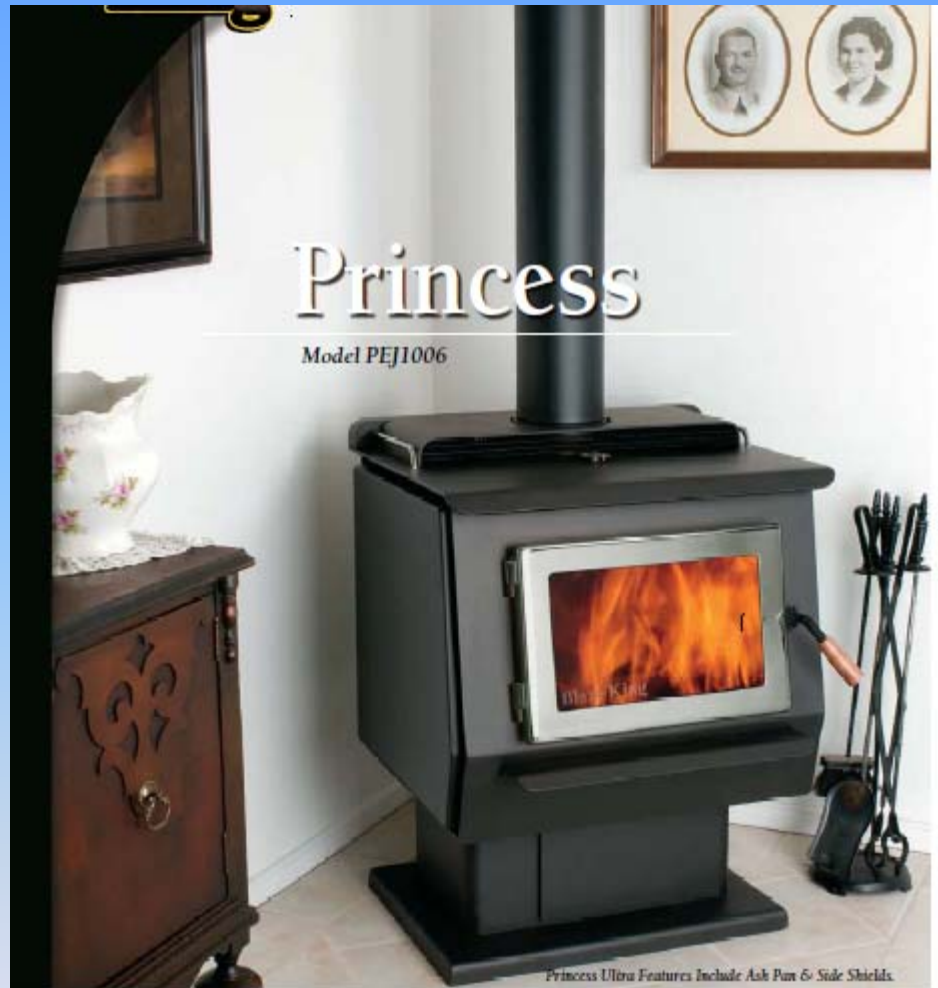


October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

- Catalytic stove
- Made in WA



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Wood Stoves

- Non-catalytic
- Must burn hot with enough air to be clean



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Pellet stoves

- Same emission standard as non-catalytic stoves
- Designed for complete combustion



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Pellet stoves

- Free standing

Insert



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Masonry fireplaces

- Currently exempt from air emission standards
- May heat a room but net heat loss



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Manufactured fireplaces

- Must meet our state fireplace standard
- Limited features to reduce smoke



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Uncertified fireplaces

- Not legal for sale

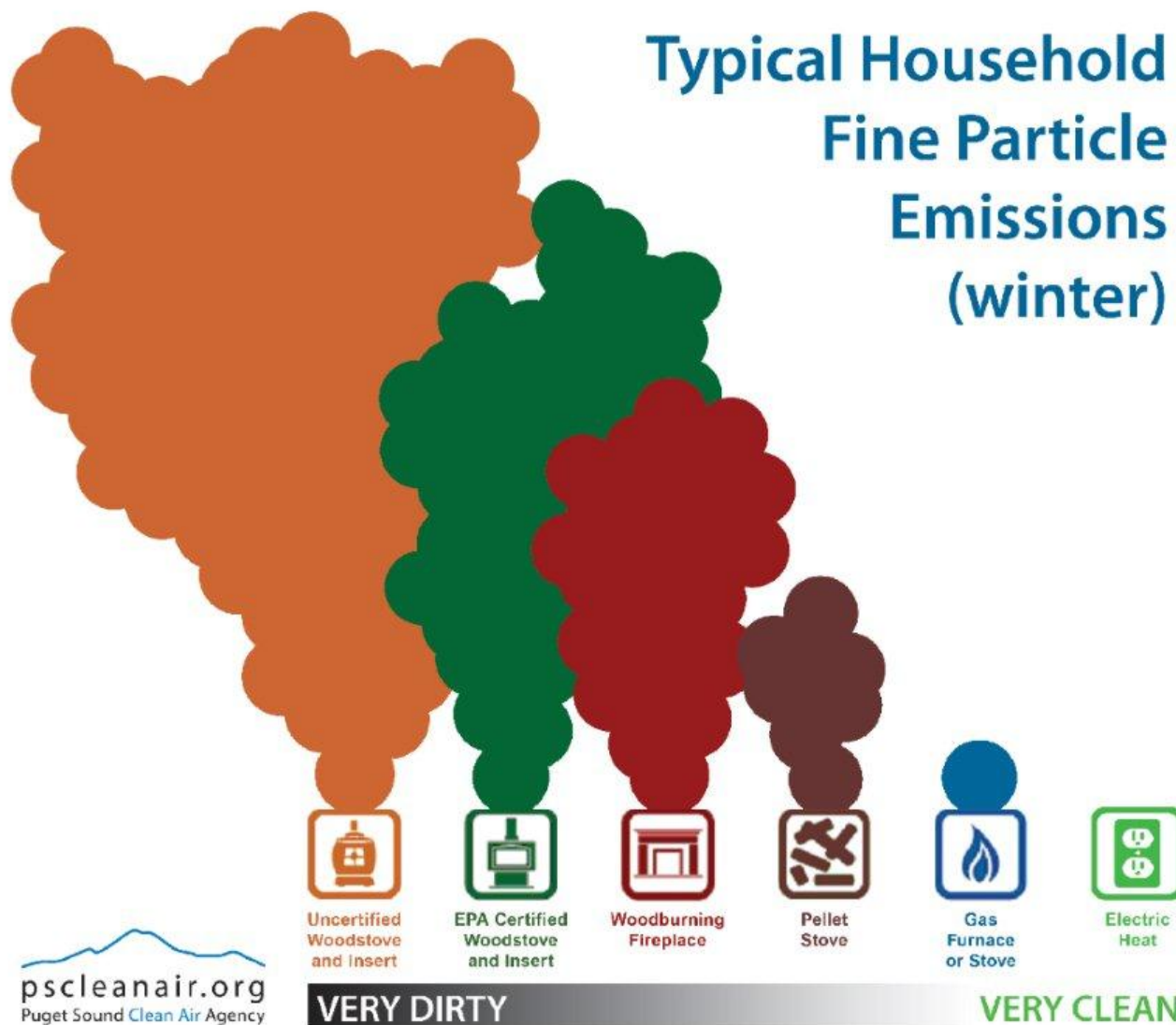


October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Typical Household Fine Particle Emissions (winter)



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

What does the law say about what you can buy and install?

- Law restricts the seller
- Local air agencies and Ecology can issue fines for illegal sales
- Must be both EPA certified and WA approved

October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

What does the law say about smoke?

- Limited Emissions
- Limited Smoke density



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Certified, WA approved, but not legally operated



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

What does the law say about fuel?

- No garbage, treated or painted wood
- No plastics or petroleum products
- Nothing that emits dense smoke or obnoxious odors
- Properly seasoned fuel wood



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

What does the law say about burn bans?

- Based on weather and collected air samples
- Stage 1
 - No uncertified, no fireplaces
- Stage 2
 - No wood burning
 - Exempt: no other source of adequate heat



October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

What happens if I don't follow these laws and rules?

- Air agencies have authority to issue fines
- Air quality may become unhealthy
- The community may take a financial hit

October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

What is being done to address wood smoke?

- High standards
- Innovation
- Improved test methods
- Grants for vulnerable communities
- National dialogue
- Green Label

October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington

Questions?

Rod Tinnemore

Wood Stove Coordinator

Washington State Department of Ecology

360-407-6978

rod.tinnemore@ecy.wa.gov

October, 2013



DEPARTMENT OF
ECOLOGY
State of Washington