

# AUTHORS MADE CLEAR ERRORS REGARDING CONVENTIONAL INDOOR WOODSTOVES AND OTHER WOOD HEATING APPLIANCES AND MADE INCORRECT COMPARISONS

from *New York - AG Spitzer Report "Smoke Gets in Your Lungs"* - Table 2

**Table 2: Comparison of Emissions from Various Wood Combustion Units**

Type of Wood Combustion Unit	Particulate Matter, Average (grams per hour)	Polycyclic Aromatic Hydrocarbons, Average (grams per hour)
OWB	71.6 <sup>ii</sup>	0.96 <sup>ii</sup>
Conventional (non-EPA Certified) Wood Stove <sup>i</sup>	18.5 <sup>iii</sup>	0.36 <sup>iv</sup>
EPA Certified Catalytic Wood Stove <sup>i</sup>	6.2 <sup>iii</sup>	0.15 <sup>iv</sup>
EPA Certified Non-Catalytic Wood Stove <sup>i</sup>	6.0 <sup>iii</sup>	0.14 <sup>iv</sup>
EPA Phase-II Certified Woodstove <sup>v</sup>	4.1: EPA limit for catalytic woodstoves 7.5: EPA limit for non-catalytic woodstoves	Not Available

Value in this table is given as grams per hour but value referenced in report is in grams per kilogram.  
→ See below for proper EPA unit of measure for conventional indoor woodstoves.

<sup>iii</sup> Houck, J. and Tieg, P., *Residential Wood Combustion Technology Review, Volume 1. Technical Report, EPA-600/R-98-174a.* (1998).

Houck, J. and Tieg, P., *Residential Wood Combustion Technology Review, Volume 1. Technical Report, EPA-600/R-98-174a - Table 2.1-1*

“Best Professional Judgement” Particulate Emissions Factors and Their Reduction by the Use of Alternatives to Conventional Stoves and Cordwood

Appliance	Particulate Emissions Factor		
	Pounds/Ton	Grams/Kilogram	Reduction (%)
Conventional Stove	37	18.5	--
Non-Catalytic Stove	12	6	68
Catalytic Stove *	13	6.2	65
Pellet Stove	4	2	89
Masonry Heater	6	3	84
Conventional Stove with Densified Fuel	25	14	24

Unit of measure from referenced table is given in grams per kilogram (not grams per hour)

Federal Register Part II Environmental Protection Agency 40 CFR Part 60; Standards of Performance for New Stationary Sources; New Residential Wood Heaters; Final Rule. “Based upon total particulate catch using EPA’s modified Method (MM5) discussed in the Emission Measurement Methods section in the proposal preamble (52 FR 5003) and testing procedures and protocols described in Method 28, **a typical conventional wood heater emits about 60 to 70 g/hr of PM.**”