



IWA Tiers of Performance Report

Stove Manufacturer	Envirofit
Stove Model	SmartSaver Wood (Econofire)
Testing Center	Colorado State University
Test Protocol	Water Boiling Test - Version 4.2.4
Fuel Used	Mawson Lumber - Whole pine 3/4" trim board
Pot Used	UNHCR 7-L
Test Dates	11/2016 - 12/2016

These results were obtained in accordance with the IWA and the Global Alliance for Clean Cookstoves' reporting requirements¹. This data and additional supporting data are shared publically through the Clean Cooking Catalog.

Name of Tester(s)	Andrew Andraski, Kelly Banta
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		Metric	Value	Unit	Sub-Tier
Efficiency / Fuel Use					
Tier	2	High power Thermal Efficiency	33.3	%	2
		Low power Specific Consumption	0.034	MJ/min/l	2
Emissions					
Tier	1	High power CO	4.8	g/MJd	4
		Low power CO	0.054	g/min/l	4
		High power PM 2.5	614.6	g/MJd	1
		Low power PM 2.5	3.92	mg/min/l	2
Indoor Emissions					
Tier	1	Indoor emissions CO	0.265	g/min	4
		Indoor emissions PM 2.5	34.2	mg/min	1
Safety					
Tier	3	10 weighted safety parameters	88.5	Points	3

Tier 0 → Improving Importance → Tier 4

¹ Interim Stove Performance Reporting Requirements:

<http://www.cleancookstoves.org/our-work/standards-and-testing/guidelines-and-standards/guidelines--standards-documents/interim-stove-performance.pdf>



Individual Scores for Safety Assessment Criteria

Please note this is a summary of the criteria evaluated by the Biomass Stove Safety Protocol. For the full protocol and data calculation sheet, visit: <http://www.cleancookstoves.org/our-work/standards-and-testing/learn-about-testing-protocols/>

Assessment Criteria	Score 1-4	Multiplier	Subtotal
Sharp Edges and Points	4	1.5	6.0
Cookstove Tipping	4	3.0	12.0
Containment of Fuel	4	2.5	10.0
Obstructions Near Cooking Surface	4	2.0	8.0
Surface Temperature	1	2.0	2.0
Heat Transmission to Surroundings	3	2.5	7.5
Temperature of Operational Construction	4	2.0	8.0
Chimney Shielding	4	2.5	10.0
Flames Surrounding the Cookpot	3	3.0	9.0
Flames/Fuel Exiting Fuel Chamber, Canister, or Pipes	4	4.0	16.0
Total			88.5

Stove Rating	Good
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Stove Safety IWA Tier	3
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