



IWA Tiers of Performance Report

Cookstove	Manufacturer	Institutional Stove Solutions
	Model	100L stove
Testing Center	Aprovecho Research Center, Cottage Grove, OR, USA	
Protocol	WBT 4.2.2	
Fuel Used	Wood (Douglas Fir)	
Pot Used	100L Aluminum stock pot	
Test Dates	March 28 – April 10, 2013	

These results were obtained in accordance with the IWA and the Global Alliance for Clean Cookstoves' reporting requirements.¹ This data and additional supporting data are shared publicly through the Stove Performance Inventory.

Signature	
Name	Sam Bentson

		Metric	Value	Unit	Sub-Tier
Efficiency/Fuel Use					
Tier	4	High power Thermal Efficiency	46.7	%	4
		Low power Specific Consumption	0.00883	MJ/min/l	4
Emissions					
Tier	3	High power CO	1.25	g/MJ _d	4
		Low power CO	0.00771	g/min/l	4
		High power PM 2.5	102	mg/MJ _d	3
		Low power PM 2.5	0.475	mg/min/l	4
Indoor emissions					
Tier	4*	High power Indoor emissions CO	N/A	g/min	4
		Low power Indoor emissions CO	N/A	g/min	4
		High power Indoor emissions PM 2.5	N/A	Mg/min	4
		Low power Indoor emissions PM 2.5	N/A	Mg/min	4
Safety					
Tier	3	Points from 10 weighted safety parameters	84.5	points	

* Indoor emissions were not measured, as this product is a chimney stove and vents all emissions to the outdoors. This category has been rated as tier 4 since there were no visible indoor emissions.

Tier 0 → Improving Importance → Tier 4

¹ Interim Stove Performance Reporting Requirements: <http://community.cleancookstoves.org/files/318>



Individual Scores for Safety Assessment Criteria

Assessment Criteria	Score (1 – 4)	Multiplier
Sharp Edges and Points	4	1.5
Cookstove Tipping	4	3.0
Containment of Fuel	3	2.5
Obstructions Near Cooking Surface	3	2.0
Surface Temperature	1	2.0
Heat Transmission to Surroundings	4	2.5
Temperature of Operational Construction	4	2.0
Chimney Shielding	2	2.5
Flames Surrounding the Cookpot	4	3.0
Flames/Fuel Exiting Fuel Chamber, Canister, or Pipes	4	4.0