



# Aprovecho Research Center

Advanced Studies in Appropriate Technology Laboratory

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## Initial Development of a Charcoal-Burning Rocket Stove

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Insulated Rocket Stove for Charcoal:



Fuel Entrance Closed



Insulated Chimney (33 cm tall)



Grate under chimney to hold charcoal

Preliminary Fuel Use and Emissions Test Results:

		<b>Wood Stove Benchmark</b>	<b>Charcoal Rocket (Without Skirt)</b>	<b>Ghana Charcoal Stove</b>	<b>WFP Wood Rocket (with Skirt)</b>
Time to Boil	min	-	22	29	22
Fuel to Cook	g	850	604	675	733
Energy to Cook	kJ	15,000	23,983	26,089	12,579
CO to Cook	g	20	12	74	15

PM to Cook

mg

1500

81

85

1289