











#	Stove	Test type and performance measure		Results			% difference against baseline stove*	Reference	Remark
				High Power, cold start	High Power, hot start	Low power			
1	Mirt stove (slim) 	CCT	Specific fuel consumption (g/kg)	511			-50%	Memo, Result of stove testing, Hiwote Teshome, Internal report, GTZ-SUN: Energy, 06.06.2007	- Injera baking stove - In both stoves here, scoria (red-ash) is used as a constituent raw material together with cement (alternatively, river sand or pumice could be used to replace scoria)
			Time to bake (min.)	129			7%		
2	Mirt stove (classic) 	CCT	Specific fuel consumption (g/kg)	508			-51%		
			Time to bake (min.)	127			5%		
		IAP	Kitchen Carbonmonoxide (CO) concentration (8hours average, ppm)	6.09			-92%		
			Kitchen particulate matter (PM) concentration (8hours average, mg/m ³)	0.68			-31%		
3	Three stones/ open fire (For injera baking) 	CCT	Specific fuel consumption (g/kg)	1031			Baseline stove (for comparisons against stoves in #1, 2)		
			Time to bake (min.)	121					
		IAP	Kitchen Carbonmonoxide (CO) concentration (8hours average, ppm)	78.9					
			Kitchen particulate matter (PM) concentration (8hours average, mg/m ³)	0.98					

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4	Mirt stove with integrated chimney 	CCT	Specific fuel consumption (g/kg)	596			-42%	Stove testing results, A report on controlled cooking test results performed on 'Mirt with integrated chimney' and 'Institutional mirt' stoves, Report by: Anteneh Gulilat, May 23, 2011.	- Injera baking stoves - stoves here are compared against three stones open fire whose performance reported in #3 above.
			Time to bake (min.)	102			-16%		
5	Institutional mirt 	CCT	Average specific fuel consumption (g/kg)	528			-49%		
			Time to bake (min.)	101			-17%		
6	Metal charcoal stove 	WBT	Time to boil (min.)	31			Baseline stove (for comparisons against stove in #7)	Memo, Result of stove testing, Hiwote Teshome, internal report, GTZ-SUN: Energy, 06.06.2007	Cook stove
			Thermal efficiency (%)	23					
			Specific fuel consumption (g/liter)	550					
7	Lakech charcoal stove 	WBT	Time to boil (min.)	32			3%		Cook stove
			Thermal efficiency (%)	38			65%		
			Specific fuel consumption (g/liter)	290			-47%		

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8	Tikikil stove (single skirt) 	WBT	Time to boil (min.)	21.3	15.3	-	25%, -15%**	Water Test Results of Various Types of Household Wood Stoves for Non-injera cooking, Ethio Resource Group PLC. (for GTZ-SUN:E), June, 2009.	Cook stove
			Thermal efficiency (%)	26	25	41	117%, 118%, 141%		
			Specific fuel consumption (g/liter)	75	74.8	64.1	-47%, -58%, -59%		
9	Three stones/open fire 	WBT	Time to boil (min.)	17	18	-	Baseline stove (for comparison against stoves in #8)	Cooking	
			Thermal efficiency (%)	12	9	17			
			Specific fuel consumption (g/liter)	143	177	155			

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10		WBT	Time to boil (min.)	23.9	16.8	-	-3%, -23%	Water Boiling Test Results of Various Types of Household and Institutional Wood Stoves for Non-Injera Cooking (Draft), Ethio Resource Group PLC. (for GTZ-SUN:E), December 2009	
			Thermal efficiency (%)	28	29	28	154%, 190%, 211%		
			Specific fuel consumption (g/liter)	77.8	69.5	106.1	-58%, -65%, -71%		
11		WBT	Time to boil (min.)	41	28.1	-	67%, 28%		
			Thermal efficiency (%)	34	30	30	209%, 200%, 233%		
			Specific fuel consumption (g/liter)	68.1	62	55.1	-63%, -69%, -85%		
12		WBT	Time to boil (min.)	24.6	21.9	-	Baseline stove (for comparison against stoves in #10 and 11)	note the difference in the results against similar stove in #9.	
			Thermal efficiency (%)	11	10	9			
			Specific fuel consumption (g/liter)	184.3	197.6	368.5			

#	Stove	Test type and performance measure		Results			% difference against baseline stove*	Reference	Remark
				High Power, cold start	High Power, hot start	Low power			
13	Institutional rocket stove (10 liter)	WBT	Time to boil (min.)	34.7	21.7	-		Water Boiling and Field Test Results of Institutional Rocket Stove (Draft), Ethio Resource Group-ERG (for GTZ SUN E Project), Hilawe Lakew, September 2008	
			Thermal efficiency (%)	26.9	31	26			
			Specific fuel consumption (g/liter)	86.6	73.9	114			
14	Institutional rocket stove (20 liter)	WBT	Time to boil (min.)	42.1	27.5	-			
			Thermal efficiency (%)	35	41	34			
			Specific fuel consumption (g/liter)	60	48.9	52.6			
15	Institutional rocket stove (30 liter)	WBT	Time to boil (min.)	42.5	28.2	-			
			Thermal efficiency (%)	30	40	28			
			Specific fuel consumption (g/liter)	59.2	52.5	56.7			
16	Institutional rocket stove (100 liter)	WBT	Time to boil (min.)	54.1	41.2	-			
			Thermal efficiency (%)	42	48	27			
			Specific fuel consumption (g/liter)	48.7	46.2	42.7			

*Percent difference against baseline stove is calculated by subtracting the value of a stove performance measure from the corresponding value of the baseline stove, dividing the difference by the latter and finally multiplying the result by 100. Furthermore, positive percentage for thermal efficiency difference means that the stove is better than the baseline stove. On the other hand, percentage differences of positives for specific fuel consumption, time to boil/bake and IAP concentration means that the stove is worse than the baseline stove.

** The two or the three values are corresponding to the different phases of WBT (i.e. High power cold start, High power hot start and simmering phases).