WATER BOILING TEST - DATA SHEET
These sheets should be <u>printed out</u> so that data can be recorded manually during the WBT and entered into spreadsheets after tests are complete

Name(s) of Tester(s) _____

Test Number _____   Location _____

Date _____   Wood species _____

Stove type/model _____   Wind conditions _____

Air temp	_____ ºC	Dry weight of Pot # 3 (grams) _____ g
Average dimensions of wood	_____ cm x cm x cm	Dry weight of Pot # 4 (grams) _____ g
Dry weight of Pot # 1 (grams)	_____ g	Weight of container for char (grams) _____ g
Dry weight of Pot # 2 (grams)	_____ g	Local boiling point _____ ºC

Wood moisture content - method used for calculation (circle one): Gravimetric, Moisture Meter, Other (describe) _____

If using gravimetric methods, record in the "Avg MC" space. If using moisture meter, use meter's averaging function and record in the "Avg MC" space. If you do not use the averaging function, record 9 measurements in the space provided to the right and calculate the average later using the data calculation spreadsheet. In any case, indicate if MC is on a wet or dry basis.

1 _____	4 _____	7 _____
2 _____	5 _____	8 _____
3 _____	6 _____	9 _____

Avg MC ....

dry   wet (circle one)

WBT TEST 1

Measurements	Units	HIGH POWER TEST (COLD START) Start data	label	Finish: when Pot #1 boils data	label	HIGH POWER TEST (HOT START) Start data	label	Finish: when Pot #1 boils data	label	SIMMER TEST Start:when Pot #1 boils data	label	Finish: 45 min after Pot #1 boils data	label
Time	min	_____	t_{ci}	_____	t_{cf}	_____	t_{hi}	_____	t_{hf}	_____	t_{si}	_____	t_{sf}
Weight of wood	g	_____	f_{ci}	_____	f_{cf}	_____	f_{hi}	_____	f_{hf}	_____	f_{si}	_____	f_{sf}
Water temperature, Pot # 1	ºC	_____	$T1_{ci}$	_____	$T1_{cf}$	_____	$T1_{hi}$	_____	$T1_{hf}$	_____	$T1_{si}$	_____	$T1_{sf}$
Water temperature, Pot # 2	ºC	_____	$T2_{ci}$	_____	$T2_{cf}$	_____	$T2_{hi}$	_____	$T2_{hf}$				
Water temperature, Pot # 3	ºC	_____	$T3_{ci}$	_____	$T3_{cf}$	_____	$T3_{hi}$	_____	$T3_{hf}$				
Water temperature, Pot # 4	ºC	_____	$T4_{ci}$	_____	$T4_{cf}$	_____	$T4_{hi}$	_____	$T4_{hf}$				
Weight of Pot # 1 with water	g	_____	$P1_{ci}$	_____	$P1_{cf}$	_____	$P1_{hi}$	_____	$P1_{hf}$	_____	$P1_{si}$	_____	$P1_{sf}$
Weight of Pot # 2 with water	g	_____	$P2_{ci}$	_____	$P2_{cf}$	_____	$P2_{hi}$	_____	$P2_{hf}$				
Weight of Pot # 3 with water	g	_____	$P3_{ci}$	_____	$P3_{cf}$	_____	$P3_{hi}$	_____	$P3_{hf}$				
Weight of Pot # 4 with water	g	_____	$P4_{ci}$	_____	$P4_{cf}$	_____	$P4_{hi}$	_____	$P4_{hf}$				
Fire-starting materials (if any)	--	_____											
Weight of charcoal+container	g			_____	c_c			_____	c_h			_____	c_s

$T1_{si}$ is set equal to T_b because the test starts after the pot has boiled.

$P1_{si}$ should be the mass of water after the pot comes to boil.

Continue on next page for tests 2 and 3

WBT TEST 2

Measurements	Units	HIGH POWER TEST (COLD START) Start data	label	Finish: when Pot #1 boils data	label	HIGH POWER TEST (HOT START) Start data	label	Finish: when Pot #1 boils data	label	SIMMER TEST Start: when Pot #1 boils data	label	Finish: 45 min after Pot #1 boils data	label
Time	min		t_{ci}		t_{cf}		t_{hi}		t_{hf}		t_{si}		t_{sf}
Weight of wood	g		f_{ci}		f_{cf}		f_{hi}		f_{hf}		f_{si}		f_{sf}
Water temperature, Pot # 1	ºC		$T1_{ci}$		$T1_{cf}$		$T1_{hi}$		$T1_{hf}$		$T1_{si}$		$T1_{sf}$
Water temperature, Pot # 2	ºC		$T2_{ci}$		$T2_{cf}$		$T2_{hi}$		$T2_{hf}$				
Water temperature, Pot # 3	ºC		$T3_{ci}$		$T3_{cf}$		$T3_{hi}$		$T3_{hf}$				
Water temperature, Pot # 4	ºC		$T4_{ci}$		$T4_{cf}$		$T4_{hi}$		$T4_{hf}$				
Weight of Pot # 1 with water	g		$P1_{ci}$		$P1_{cf}$		$P1_{hi}$		$P1_{hf}$		$P1_{si}$		$P1_{sf}$
Weight of Pot # 2 with water	g		$P2_{ci}$		$P2_{cf}$		$P2_{hi}$		$P2_{hf}$				
Weight of Pot # 3 with water	g		$P3_{ci}$		$P3_{cf}$		$P3_{hi}$		$P3_{hf}$				
Weight of Pot # 4 with water	g		$P4_{ci}$		$P4_{cf}$		$P4_{hi}$		$P4_{hf}$				
Fire-starting materials (if any)	--												
Weight of charcoal+container	g				c_c				c_h				c_s

$T1_{si}$ is set equal to T_b because the test starts after the pot has boiled.

$P1_{si}$ should be the mass of water after the pot comes to boil.

WBT TEST 3

Measurements	Units	HIGH POWER TEST (COLD START) Start data	label	Finish: when Pot #1 boils data	label	HIGH POWER TEST (HOT START) Start data	label	Finish: when Pot #1 boils data	label	SIMMER TEST Start: when Pot #1 boils data	label	Finish: 45 min after Pot #1 boils data	label
Time	min		t_{ci}		t_{cf}		t_{hi}		t_{hf}		t_{si}		t_{sf}
Weight of wood	g		f_{ci}		f_{cf}		f_{hi}		f_{hf}		f_{si}		f_{sf}
Water temperature, Pot # 1	ºC		$T1_{ci}$		$T1_{cf}$		$T1_{hi}$		$T1_{hf}$		$T1_{si}$		$T1_{sf}$
Water temperature, Pot # 2	ºC		$T2_{ci}$		$T2_{cf}$		$T2_{hi}$		$T2_{hf}$				
Water temperature, Pot # 3	ºC		$T3_{ci}$		$T3_{cf}$		$T3_{hi}$		$T3_{hf}$				
Water temperature, Pot # 4	ºC		$T4_{ci}$		$T4_{cf}$		$T4_{hi}$		$T4_{hf}$				
Weight of Pot # 1 with water	g		$P1_{ci}$		$P1_{cf}$		$P1_{hi}$		$P1_{hf}$		$P1_{si}$		$P1_{sf}$
Weight of Pot # 2 with water	g		$P2_{ci}$		$P2_{cf}$		$P2_{hi}$		$P2_{hf}$				
Weight of Pot # 3 with water	g		$P3_{ci}$		$P3_{cf}$		$P3_{hi}$		$P3_{hf}$				
Weight of Pot # 4 with water	g		$P4_{ci}$		$P4_{cf}$		$P4_{hi}$		$P4_{hf}$				
Fire-starting materials (if any)	--												
Weight of charcoal+container	g				c_c				c_h				c_s

$T1_{si}$ is set equal to T_b because the test starts after the pot has boiled.

$P1_{si}$ should be the mass of water after the pot comes to boil.

WBT TEST 4		HIGH POWER TEST (COLD START)				HIGH POWER TEST (HOT START)				SIMMER TEST			
		Start		Finish: when Pot #1 boils		Start		Finish: when Pot #1 boils		Start:when Pot #1 boils		Finish: 45 min after Pot #1 boils	
Measurements	Units	data	label	data	label	data	label	data	label	data	label	data	label
Time	min		t_{ci}		t_{cf}		t_{hi}		t_{hf}		t_{si}		t_{sf}
Weight of wood	g		f_{ci}		f_{cf}		f_{hi}		f_{hf}		f_{si}		f_{sf}
Water temperature, Pot # 1	ºC		$T1_{ci}$		$T1_{cf}$		$T1_{hi}$		$T1_{hf}$		$T1_{si}$		$T1_{sf}$
Water temperature, Pot # 2	ºC		$T2_{ci}$		$T2_{cf}$		$T2_{hi}$		$T2_{hf}$					
Water temperature, Pot # 3	ºC		$T3_{ci}$		$T3_{cf}$		$T3_{hi}$		$T3_{hf}$					
Water temperature, Pot # 4	ºC		$T4_{ci}$		$T4_{cf}$		$T4_{hi}$		$T4_{hf}$					
Weight of Pot # 1 with water	g		$P1_{ci}$		$P1_{cf}$		$P1_{hi}$		$P1_{hf}$		$P1_{si}$		$P1_{sf}$
Weight of Pot # 2 with water	g		$P2_{ci}$		$P2_{cf}$		$P2_{hi}$		$P2_{hf}$					
Weight of Pot # 3 with water	g		$P3_{ci}$		$P3_{cf}$		$P3_{hi}$		$P3_{hf}$					
Weight of Pot # 4 with water	g		$P4_{ci}$		$P4_{cf}$		$P4_{hi}$		$P4_{hf}$					
Fire-starting materials (if any)	--												
Weight of charcoal+container	g				c_c				c_h				c_s

$T1_{si}$ is set equal to T_b because the test starts after the pot has boiled.

$P1_{si}$ should be the mass of water after the pot comes to boil.

Comments: