

LOPEZ LABS EMISSIONS TEST CALCULATOR										Notes			
Revised Jan 26/14										1 [1]	46 [2]	91 [3]	
RUN No.	BR-1402		<b>Instructions:</b>		Enter data only into fields that are shaded like this box					2 [4]	47 [5]	92 [6]	
Wood Moisture %	2.5									3 [7]	48 [8]	93 [9]	
Total Weight lbs	58.3									4 [10]	49 [11]	94 [12]	
Kindling Weight lbs	9.56		Heater ID	HK	DATE					5 [13]	50 [14]	95 [15]	
Number of Pieces	1		Time since last burn	24	Outdoor Temperature	60f				6 [16]	51 [17]	96 [18]	
Fuel Surface/Vol	#DIV/0!		Firebox temp, start	?	Weather	Sunny clear slight wind				7 [19]	52 [20]	97 [21]	
Average Pc. Wt. lbs	48.8									8 [22]	53 [23]	98 [24]	
Run Length hrs	4.75		AVERAGES FROM TESTO TEMPLATE					9 [25]	54 [26]	99 [27]			
Av. Stack Temp F	447		StackTemp	O2%	ppm CO	Air Temp	Start Time		10 [28]	55 [29]	100		
Av. O2%	12.77		447	12.77	1305.7		11:33		11 [31]	56 [32]	101		
Av. CO%	0.13		adj							12 [34]	57 [35]	102	
Stack Temp Factor	0.76		FUELING					13 [37]	58 [38]	103			
Stack Dilution Factor	2.57							14 [40]	59 [41]	104			
Burn Rate dry kg/hr	5.44		Fuel Type	Oak	Stove Challenge			15 [43]	60 [44]	105			
Boiling of Water Loss%	12.46				Kiwi firebox			16 [46]	61 [47]	106			
CO Loss %	2.26		Kindling Weight	9.56	high gradient oak kiln dried			17 [49]	62 [50]	107			
HC Loss %	0.14		Unburned Fuel						18 [52]	63 [53]	108		
Dry Gas Loss %	16.92							19 [55]	64 [56]	109			
Filter Catch gm	0.0676		DETAILED FUEL INFORMATION					20 [58]	65 [59]	110			
Combustion Effic	97.60		Piece #	Weight	Moisture	Length	Circumf	Species	Shape	21 [61]	66 [62]	111	scratch
Heat Trans. Effic	70.62		1	48.75				Oak		22 [64]	67 [65]	112	0
<b>g/kg Condar</b>	<b>0.36</b>		2					Oak		23 [67]	68 [68]	113	0
<b>g/kg CO</b>	<b>19.90</b>		3					Oak		24 [70]	69 [71]	114	0
<b>Overall Efficiency</b>	<b>68.93</b>		4					Oak		25 [73]	70 [74]	115	0
Filter	Clean	Dirty	Wt. of	5				Oak		26 [76]	71 [77]	116	0
Number	Filter Wt.	Filter Wt.	Particulat	6				Oak		27 [79]	72 [80]	117	0
1	1.0165	1.0169	0.0004	7				Oak		28 [82]	73 [83]	118	0
2	0.9984	1.0032	0.0048	8				Oak		29 [85]	74 [86]	119	0
3	1.0114	1.0109	-0.0005	9				Oak		30 [88]	75 [89]	120	0
4	1.0112	1.0132	0.0020	10				Oak		31 [91]	76 [92]	121	0
5	1.0220	1.0216	-0.0004	11				Oak		32 [94]	77 [95]	122	0
6	1.0181	1.0229	0.0048	12				Oak		33 [97]	78 [98]	123	0
7	1.0010	1.0550	0.0540										
8	1.0091	1.0116	0.0025										
9		0.0000	0.0000										
10		0.0000	0.0000										
Ctrl 1	0.0000	0.0000	0.0000	13						34 [100]	79	124	0
Ctrl 2	0.0000	0.0000	0.0000	14						35 [103]	80	125	0
	Adjust		0.0000	15						36 [106]	81	126	0

	Total	0.0676	16							37 [109]	82	127	0
			17							38 [112]	83	128	0
			18							39 [115]	84	129	0
			19							40 [118]	85	130	0
			20							41 [121]	86	131	0
					Shape key		1round			42 [124]	87	132	
							2half			43 [127]	88	133	
			Total	48.75			3quarter			44 [130]	89	134	
							4smaller than quarter			45 [133]	90	135	
							5other						

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