

Crib Testing at Lopez Lab Co-Operative 2008 - 2014 - all test runs

HK tests by Masonry Stove Builders. TL tests by Stovemaster

Full description including data for HK series tests is available online at: <http://www.heatkit.com/research/2006/lopezm02.htm>

Updated Apr 3/14

Test	Species	Ignition method		PM	Fuel load	Efficiency	PM Limit
				g/kg	lbs	%	0.32 lb/MMBtu
HK-J12	Doug Fir 10%	CO bottom crib	HK-J12	3.60	53.4	74.70	0.676
HK-J13	Doug Fir 10%	CO crib, side ign.	repeat HK-J12 - side ignition	1.00	44.6	75.10	0.187
HK-L04	Spruce 12%	kindl crib under	HK-L04	1.45	38.5	70.50	0.288
HK-L05	Spruce 12%	kindl crib under	HK-L04 + 35% weight	2.94	51.6	70.00	0.589
HK-L07	Spruce 19.7%	coal bed + reload	HK-L07	1.55	52.8	71.47	0.304
HK-L08	Spruce 20.2%	coal bed + reload	repeat HK-L07	1.63	51.8	71.83	0.318
HK-L09	Spruce 16.0%	coal bed + reload	HK-L09	1.79	55.3	73.27	0.343
HK-L10	Spruce 16.1%	coal bed + reload	repeat HK-L09	2.28	55.0	72.92	0.438
HK-L11	Spruce 16.1%	coal bed + reload	HK-L11	1.71	39.4	73.00	0.328
HK-L12	Spruce 16.7%	coal bed + reload	repeat HK-L11	1.98	38.8	73.13	0.380
HK-L14	Spruce 19.1%	coal bed + reload	HK-L12	1.30	57.8	72.28	0.252
HK-L15	Spruce 19.4%	coal bed + reload	repeat HK-L12	1.13	58.0	72.06	0.220
TLC-01	Oak 24.6%	bottom kindling	smoldering start	3.80	36.0	63.57	0.838
TLC-02	Oak 24.1%	bottom kindling	smoldering start	3.05	36.2	63.52	0.673
HK-M01	Hard maple 4x4	coal bed, too small		1.68	57.0	73.95	0.319
HK-M02	Hard maple 4x4	coal bed, too small		1.82	57.5	73.36	0.348
HK-M03	Hard maple 4x4	coal bed, too small		2.35	57.0	71.54	0.461
HK-M04	Hard maple 4x4	coal bed, too small		1.28	56.6	73.49	0.244
HK-M05	Hard maple 4x4	coal bed, too small		2.60	58.3	73.27	0.498
HK-M06	Hard maple 4x4	coal bed, bigger		1.45	57.1	74.09	0.274
HK-M07	Hard maple 4x4	coal bed final	HK-M07	0.73	61.1	74.57	0.137
HK-M08	Hard maple 4x4	coal bed final	repeat HK-M07	0.72	57.1	73.62	0.137
HK-M09	Hard maple 4x4	coal bed final	repeat HK-M07	1.00	59.5	73.26	0.191
HK-M10	Hard maple 4x4	coal bed final	repeat HK-M07	1.50	61.9	73.29	0.287
HK-M11	Hard maple 4x4	coal bed final	repeat HK-M07	1.23	55.6	72.64	0.237
HK-M22	Wh Birch 15.7%	normal orientation	Austrian Eco-firebox	2.68	40.6	71.70	0.524
HK-M23	Wh Birch 15.1%	turn crib 90 degrees	Austrian Eco-firebox	0.93	37.1	72.63	0.180

Sheet1

TL-021	Hard maple 4x3	top kindling crib		0.96	51.0	74.31	0.181
TL-020	Hard maple 4x4	top kindling crib		1.07	51.0	70.64	0.212
TL-019	Hard maple 4x4	side kindling, loose		1.12	55.3	72.25	0.217
TL-018	Hard maple 4x4	side kindling, loose		0.93	53.1	74.68	0.175
TL-017	Hard maple 4x4	side kindling, loose		0.91	51.0	69.62	0.183
TL-016	Hard maple 4x4	kindling crib under main crib		1.96	53.3	72.08	0.381
TL-015	Hard maple 4x4	kindling crib under main crib		1.93	54.9	72.37	0.374
TL-014	Hard maple 4x4	coal bed from 5lbs @ 70% recovery		1.66	54.2	76.63	0.304
HK-M12	Tamarack 3.5x3.5	bottom kindling	HK-M12	1.47	37.1	70.38	0.293
HK-M13	Tamarack 3.5x3.5	bottom kindling	repeat HK-M12	1.48	35.1	71.55	0.290
HK-M15	Tamarack 3.5x3.5	bottom kindling	repeat HK-M12	1.52	35.4	71.52	0.298
HK-M14	Wh Birch	bottom kindling	HK-M14	2.41	35.2	71.14	0.475
HK-M17	Wh Birch	bottom kindling	repeat HK-M14	2.60	33.5	70.24	0.519
HK-M16	Wh Birch	Side kindling	repeat HK-M14 w. side ignition	1.37	35.2	71.41	0.269
HK-M19	Red Oak	Side kindling	repeat HK-M16 change species	1.22	41.8	73.52	0.233
HK-M18	Wh Birch	Side kindling	repeat HK-M16 use cordwood	1.06	23.1	73.87	0.201