

# Vermont Fuels for Schools - - Wood Fuel Survey Results for 2006-2007 Heating Season

Presented by: The Vermont Department of Forests and Parks, Vermont Superintendents Association's School Energy Management Program and the Biomass Energy Resource Center

Total Tons of Wood Chips Used in Vermont Schools	17,275
Total Gallons of Oil Equivalent	965,579
Total CO2 avoided (in tons)	10,597

Summary Data		Bldg. Sq. Ft.	Boiler H.P.	Boiler H.P.	Chip Bin Tons	Chips Tons	Net MBTU	Net \$/Sq. Ft.	Net BTU/sq.ft.	% of BTUs from Wood	Total Cost if 100% fossil fuel	Actual Fuel Cost with wood	Savings	Percent Savings
Totals:		3,935,555	4,326		17,275		136,407	\$2,911,666	\$1,398,113	48%	\$2,911,666	\$1,398,113	\$1,513,553	48%
Average:		135,709	149	46	596		4,704	\$0.41	34,779	71%	\$100,402	\$52,191	\$48,211	48%

Range - Low:	23,000	30	20	42	881	\$	0.17	19,874	28%	\$	23,700	\$13,091	\$5,661	14%
Range - High:	390,000	332	90	1,902	11,138	\$	0.78	52,905	99%	\$	263,644	\$142,195	\$163,457	68%

Facility	Bldg. Sq. Ft.	Install Date [yyyymm]	Boiler H.P.	Boiler H.P.	Chip Bin Tons	Chips Tons	Net MBTU	Net \$/Sq. Ft.	Net BTU/sq.ft.	% of BTUs from Wood	Months on line	Chips Tons	Net MBTU	Actual Fuel Cost with wood	Estimated Savings	Percent Savings
1 Barre City Elementary	126,594	1994.09	180	35	Chiptec	Lmlaw	7.5	672	4,114	94%	\$0.31	32,498	\$39,782	\$60,275	60%	
2 Barre Town	158,000	1996.10	180	60	Messersmith	Lmlaw	6	847	5,417	90%	\$0.35	34,287	\$55,544	\$64,843	54%	
3 Berlin Elementary	37,058	1994.12	35	20	Sylvia Tech	A. Johnson	5.5	140	1,739	47%	\$0.78	46,925	\$28,948	\$15,408	35%	
4 Blue Mountain U.S.	77,000	1998.10	125	50	Messersmith	Lmlaw	6	419	3,117	78%	\$0.46	40,484	\$35,437	\$27,812	44%	
5 Brattleboro U.H.S.	390,000	2004.03	332	60	Messersmith	Cerosimo	6	1602	11,003	84%	\$0.24	28,212	\$92,680	\$156,073	63%	
6 Browns River Middle	100,000	1994.09	91	35	Chiptec	A. Johnson	5	239	3,317	42%	\$0.46	33,165	\$46,467	\$16,658	26%	
7 Burlington High School	240,000	2006 est.	322	90	Messersmith	Lathrop	2.5	486	8,930	31%	\$0.54	37,207	\$130,740	\$21,066	14%	
8 Calais Elementary	23,000	1986.10	30	30	Messersmith	A. Johnson	7	42	881	28%	\$0.78	38,322	\$18,038	\$5,661	24%	
9 Camels Hump Middle	87,000	1994.09	90	30	Chiptec	A. Johnson	5.5	297	2,127	81%	\$0.24	24,452	\$20,656	\$24,973	55%	
10 Champlain Valley Union	220,000	2005 est.	180	40	Messersmith	A. Johnson	10.5	1140	6,957	95%	\$0.21	31,623	\$45,500	\$62,050	58%	
11 East Montpelier	37,000	1989.08	30	35	BioFlame/Chiptec		0		0				\$0			
12 Grand Isle Elementary	42,500	1991.10	50	30	Chiptec	A. Johnson	4	62	1,292	28%	\$0.62	30,403	\$26,531	\$7,927	23%	
13 Hartford H.S.	157,580	1995.10	180	35	Chiptec	Cousineau	6	530	4,640	66%	\$0.35	29,445	\$55,344	\$50,006	47%	
14 Hazen Union School	80,000	1993.07	60	30	Chiptec	Manosh	7	303	2,240	78%	\$0.33	27,996	\$26,383	\$32,261	55%	
15 Johnson Elementary	50,500	1997.04	50	34	Messersmith	Lmlaw	9.25	262	2,075	73%	\$0.52	41,092	\$26,437	\$22,084	46%	
16 Leland & Gray U.H.S.	83,667	1992.07	45	30	Chiptec	Cerosimo	7	300	1,891	92%	\$0.17	22,599	\$43,843	\$14,100	68%	
17 Lyndon Town School	105,000	1991.03	30	30	Chiptec	Lmlaw	5	316	2,087	88%	\$0.21	19,874	\$21,964	\$25,196	53%	
19 Mt. Abraham H.S.	159,647	2006.11	180	60	Messersmith	Lathrop	12	754	5,355	81%	\$0.29	35,542	\$46,862	\$71,617	60%	
20 Mt. Anthony M.S.	150,000	2004.08	180	60	Messersmith	Northeast Lur	5.5	751	5,336	81%	\$0.37	35,572	\$55,806	\$44,209	44%	
21 Mt. Anthony H.S.	225,000	2007.01	332	60	Messersmith	Eagle Lumber	4	495	9,101	31%	\$0.63	40,450	\$142,195	\$28,397	17%	
22 Mt. Mansfield U.H.S	150,000	1997.01	180	50	Messersmith	Lathrop	7	800	5,127	90%	\$0.32	34,180	\$47,338	\$52,724	53%	
23 North Country U.H.S.	159,000	1998.10	180	70	Messersmith	Gerald Fortin	6	1043	7,477	81%	\$0.60	47,023	\$94,923	\$72,669	43%	
24 Randolph U.H.S.	140,672	1995.10	180	45	Chiptec	A. Johnson	6	750	6,453	67%	\$0.55	45,871	\$77,648	\$53,278	41%	
25 St. Albans Tn. Ed. Ctr.	120,815	1995.05	101	25	Chiptec	Gerald Fortin	5.5	302	3,546	49%	\$0.40	29,349	\$47,735	\$7,668	14%	
26 Spaulding H.S., Barre	210,522	2002.10	332	70	Messersmith	Lmlaw	10	1902	11,138	99%	\$0.48	52,905	\$100,187	\$163,457	62%	
27 Springfield H.S.	270,000	2001.11	330	60	Messersmith	Cousineau	5.5	1120	8,601	75%	\$0.32	31,855	\$86,965	\$106,660	55%	
28 U-32 High School	200,000	2001.04	180	70	Messersmith	A. Johnson	6.5	850	5,900	83%	\$0.28	29,498	\$55,655	\$94,828	63%	
29 Westford Elementary	50,000	1993.08	60	25	Chiptec	A. Johnson	4.5	180	1,480	70%	\$0.31	29,594	\$15,650	\$18,947	55%	
30 Westminster Center School	52,000	2006.03	81	50	Messersmith	Cousineau	9	246	1,569	91%	\$0.25	30,176	\$13,091	\$23,735	64%	
31 Williamstown	70,000	2006.11	125	45	Messersmith	Lmlaw	6.5	426	3,499	70%	\$0.64	49,992	\$44,948	\$57,888	46%	

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