

TECHNICAL NOTES

U.S. DEPARTMENT OF AGRICULTURE

BOISE, IDAHO

SOIL CONSERVATION SERVICE

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The attached table of "Relative Energy Costs" was excerpted from the Georgia Forestry Commission publication Wood Energy in Georgia. The range of cost figures, as well as the idea and the format of the chart, make it useful in other parts of the country.

RELATIVE ENERGY COSTS CALCULATIONS \$/MILLION BTU

FUEL	PRICE	ENERGY COST	AVERAGE COST ROME - OCT. 1980
<u>WHOLE TREE</u> <u>WOOD CHIPS</u> 8 Million BTU/ton	<u>PER TON</u>	<u>PER MIL. BTU</u>	WHOLE TREE WOOD CHIPS (delivered to Rome) Per Ton \$16.32 (\$2.04)*
	\$10.00	\$ 1.25	
	15.00	1.87	
	20.00	2.50	
	25.00	3.12	
	30.00	3.75	
<u>NATURAL GAS</u> 1,000 BTU/Cu.Ft.	<u>PER THERM</u>	<u>PER MIL. BTU</u>	NATURAL GAS Per Therm. \$.35 (\$3.50)*
	\$.25	\$ 2.50	
	.30	3.00	
	.40	4.00	
	.50	5.00	
	.60	6.00	
<u>NO. 2 FUEL OIL</u> 140,000 BTU/Gal.	<u>PER GALLON</u>	<u>PER MIL. BTU</u>	NO. 2 FUEL OIL Per Gal. \$.86 (\$6.20)*
	\$.60	\$ 4.29	
	.70	5.00	
	.80	5.71	
	.90	6.43	
	1.00	7.14	
<u>ELECTRICITY</u> 3,415 BTU/KWH	<u>PER KWH</u>	<u>PER MIL. BTU</u>	ELECTRICITY Per KWH \$.045 (\$13.18)*
	\$.030	\$ 8.78	
	.035	10.25	
	.040	11.71	
	.045	13.18	
	.050	14.64	
<u>PROPANE</u> 92,000 BTU/Gal.	<u>PER GALLON</u>	<u>PER MIL. BTU</u>	PROPANE Per Gal. \$.68 (\$7.40)*
	\$.45	\$ 4.89	
	.50	5.43	
	.55	5.98	
	.60	6.52	
	.65	7.07	

*Per Million BTU

Prepared by Rodney M. Alt, State Resource Conservationist, from material contained in Utah Technical Note - Ecological Sciences, dated June 1981.