Table 1. Energy Price and Expenditure Estimates by Source, Selected Years 1970-2000, Minnesota

Year	Primary Energy														Electric Utility Fuel [c,d]	Electricity Purchased by End-Users	Total Energy [c]
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Wood and Waste	Total [c,d]			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG [a]	Motor Gasoline	Residual Fuel	Other [b]	Total						
	Prices in Nominal Dollars per Million Btu																
1970	0.53	R 0.42	R 0.43	0.66	1.08	0.75	1.80	2.97	0.59	1.38	2.02	—	0.98	1.28	0.34	6.10	R 1.87
1975	1.80	R 0.68	0.83	1.17	2.51	2.09	3.67	4.63	1.80	2.97	3.59	0.24	1.32	2.13	0.52	8.64	3.18
1980	—	R 1.11	R 1.11	2.85	6.72	6.47	5.82	9.55	3.52	6.01	7.94	0.44	2.05	4.41	0.91	13.26	6.89
1985	—	1.51	1.51	5.13	7.59	5.93	8.36	9.73	4.05	7.05	8.49	0.50	2.11	R 5.26	1.09	15.81	8.38
1986	—	1.44	1.44	4.61	5.69	4.04	8.20	7.42	2.88	5.79	6.51	0.50	1.86	R 4.37	1.03	16.07	7.27
1987	—	1.26	1.26	3.72	6.01	4.15	6.96	7.71	2.43	5.28	6.71	0.51	1.76	R 4.04	0.99	15.72	7.26
1988	—	R 1.24	R 1.24	3.87	5.89	3.94	7.60	7.81	2.36	5.60	6.82	0.49	1.67	R 3.98	0.99	15.80	7.34
1989	—	R 1.25	R 1.25	3.87	6.57	4.47	8.85	8.72	2.38	4.92	7.52	0.49	R e 1.44	R e 4.27	R 0.99	15.57	R e 7.56
1990	—	R 1.31	R 1.31	3.87	8.05	5.68	9.13	9.56	2.50	4.82	8.34	0.48	R 1.45	4.51	1.02	15.68	R 8.05
1991	—	1.30	1.30	3.70	7.09	4.87	8.15	9.31	2.11	5.12	7.92	0.47	R 1.54	4.39	1.03	16.06	R 7.87
1992	—	1.24	1.24	3.99	6.94	4.64	7.24	9.11	1.79	5.02	7.64	0.44	1.44	R 4.42	0.98	16.23	R 7.81
1993	—	R 1.20	R 1.20	4.36	6.98	4.33	8.81	9.26	2.18	5.29	7.76	0.41	1.35	4.51	0.94	16.46	7.95
1994	—	1.22	1.22	4.16	7.00	3.96	7.95	9.46	2.17	5.54	7.79	0.47	R 1.34	4.48	0.97	16.55	7.95
1995	—	1.21	1.21	3.73	6.98	4.00	8.12	9.46	2.41	5.33	7.78	0.48	R 1.17	R 4.36	0.96	16.40	R 7.75
1996	—	R 1.11	R 1.11	4.38	7.94	4.79	10.06	10.50	2.98	5.15	8.70	0.48	1.36	R 4.92	0.93	16.30	8.34
1997	—	R 1.14	R 1.14	4.58	7.79	4.65	9.81	10.45	3.07	5.15	8.59	0.47	R 1.28	R 4.96	0.97	16.48	R 8.48
1998	—	1.12	1.12	4.15	6.67	3.54	8.23	9.11	2.04	4.99	7.46	0.47	R 1.27	R 4.40	0.94	16.78	R 7.97
1999	—	R 1.16	R 1.16	4.28	7.35	4.03	8.28	9.70	2.26	4.68	7.87	0.47	R 1.43	R 4.65	0.93	17.12	R 8.20
2000	—	1.16	1.16	5.86	10.01	6.53	11.87	12.33	4.20	5.86	10.37	0.44	1.63	6.01	0.98	17.26	9.92
	Expenditures in Million Nominal Dollars																
1970	8.6	R 68.2	R 76.9	220.6	140.5	14.7	60.1	688.9	14.9	67.2	986.3	—	3.8	R 1,287.5	-65.3	427.5	R 1,649.7
1975	45.4	R 113.9	R 159.3	381.4	355.7	66.5	124.8	1,172.9	38.4	137.2	1,895.6	25.5	5.7	R 2,467.5	-144.2	769.9	R 3,093.2
1980	—	R 269.7	R 269.7	785.0	837.2	188.3	163.0	2,319.4	56.3	209.9	3,774.0	48.6	15.8	R 4,893.1	-311.3	1,481.2	R 6,063.1
1985	—	R 340.7	R 340.7	1,283.0	856.7	261.4	159.2	2,314.7	15.8	305.7	3,913.4	R 61.4	17.7	R 5,616.2	R -354.4	2,062.8	R 7,324.7
1986	—	R 289.0	R 289.0	1,084.8	625.5	178.6	185.2	1,784.2	22.2	263.5	3,059.2	R 58.0	16.5	R 4,507.5	R -305.8	2,097.2	R 6,298.8
1987	—	R 322.7	R 322.7	856.2	639.4	132.8	136.6	1,903.7	13.6	256.0	3,082.0	R 61.2	15.8	R 4,338.0	R -360.6	2,211.9	R 6,189.3
1988	—	R 377.0	R 377.0	1,051.7	682.0	114.7	154.5	2,003.0	14.4	240.3	3,208.8	R 63.3	17.5	R 4,718.3	R -418.6	2,433.7	R 6,733.4
1989	—	R 404.3	R 404.3	1,108.8	734.0	118.0	194.3	2,225.9	12.4	232.2	3,516.8	R 56.6	R e 24.0	R e 5,079.2	R -400.8	2,409.9	R e 7,088.3
1990	—	R 426.4	R 426.4	1,066.5	866.5	164.0	193.7	2,399.4	12.2	259.4	3,895.2	R 61.2	R 28.4	R 5,473.4	R -448.1	2,491.4	R 7,516.8
1991	—	R 389.5	R 389.5	1,110.6	876.8	137.3	191.8	2,374.9	10.0	264.7	3,855.5	R 59.3	R 29.8	R 5,455.7	R -447.8	2,637.3	R 7,645.2
1992	—	R 370.8	R 370.8	1,170.0	874.6	173.8	207.9	2,379.3	9.2	272.6	3,917.5	R 50.9	R 30.3	R 5,560.6	R -422.0	2,592.1	R 7,730.8
1993	—	R 391.2	R 391.2	1,354.6	855.8	231.3	280.7	2,496.8	12.0	269.7	4,146.3	R 52.0	R 28.2	R 5,985.5	R -422.0	2,727.8	R 8,291.3
1994	—	R 404.0	R 404.0	1,270.4	965.1	219.2	267.9	2,599.5	10.2	281.7	4,343.6	R 59.9	R 32.8	R 6,139.3	R -452.6	2,851.7	R 8,538.4
1995	—	R 406.9	R 406.9	1,241.8	998.1	226.1	283.4	2,679.9	6.0	319.7	4,513.1	R 66.2	R 31.5	R 6,290.8	R -468.7	2,983.1	R 8,805.2
1996	—	R 384.1	R 384.1	1,536.3	1,136.2	288.7	432.3	3,004.9	8.6	314.4	5,185.1	R 60.4	R 36.2	R 7,234.6	R -446.0	3,017.3	R 9,805.9
1997	—	R 390.6	R 390.6	1,537.3	1,125.8	287.2	361.0	3,037.8	8.6	321.5	5,141.8	R 53.3	R 33.1	R 7,203.6	R -468.1	3,089.7	R 9,825.2
1998	—	R 390.6	R 390.6	1,273.0	970.1	214.8	216.6	2,760.1	3.5	314.2	4,479.4	R 57.4	R 27.2	R 6,253.4	R -450.8	3,206.1	R 9,008.7
1999	—	R 394.5	R 394.5	R 1,367.2	1,017.7	287.7	258.2	3,028.7	5.3	329.2	4,926.8	R 65.4	R 34.2	R 6,807.0	R -446.7	3,311.6	R 9,671.9
2000	—	434.3	434.3	1,954.1	1,476.2	492.2	419.2	3,925.0	20.3	389.6	6,722.5	60.1	42.7	9,245.6	-499.2	3,477.2	12,223.6

[a] Liquefied petroleum gases.
[b] "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Section 4 of the Technical Notes.
[c] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
[d] Net imports of electricity generated from nonrenewable energy sources are included in this total but not in any other columns.
[e] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and waste beginning in 1989.
R=Revised data.
— No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 2. Residential Sector Energy Price and Expenditure Estimates, Selected Years 1970-2000, Minnesota

Year	Primary Energy								Electricity	Total Energy [b]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Wood	Total [b]		
	Prices in Nominal Dollars per Million Btu									
1970	1.55	1.09	1.26	1.52	2.03	1.54	0.61	1.28	7.30	R 2.15
1975	3.04	1.57	2.55	2.91	4.22	3.12	1.20	2.14	9.90	3.36
1980	4.32	3.24	7.20	8.02	7.34	7.25	3.06	4.45	16.06	6.86
1985	4.10	5.78	7.79	8.00	7.79	7.79	3.46	R 6.17	19.01	R 9.27
1986	3.89	5.28	6.05	9.81	7.53	6.55	2.77	R 5.53	19.41	R 8.91
1987	3.81	4.58	5.70	8.77	7.40	6.25	2.64	R 4.98	19.38	R 8.90
1988	3.51	4.61	5.62	10.37	7.03	6.10	2.67	4.93	19.82	R 8.71
1989	3.49	4.54	6.30	9.12	10.03	7.50	2.95	5.23	19.71	R 8.70
1990	3.46	4.61	7.75	8.35	8.35	7.97	3.56	5.28	19.94	R 9.16
1991	3.81	4.47	6.96	8.73	7.42	7.12	3.41	5.04	20.27	8.88
1992	3.47	4.81	6.29	7.23	8.37	7.11	3.12	5.26	20.54	9.08
1993	3.28	5.25	6.36	6.37	8.24	7.21	3.05	5.62	20.77	R 9.35
1994	3.28	5.12	6.16	6.09	8.56	7.22	2.96	R 5.53	20.99	R 9.41
1995	3.48	4.74	6.15	5.04	8.56	7.22	2.90	R 5.22	21.01	R 9.22
1996	3.41	5.36	6.98	6.09	10.73	8.89	3.33	R 6.10	20.89	R 9.57
1997	3.57	5.66	6.90	5.70	10.17	8.61	3.31	6.28	21.20	R 10.04
1998	3.60	5.37	5.67	4.37	8.26	6.91	2.87	5.64	21.47	R 10.25
1999	3.55	5.46	5.94	3.40	8.31	7.37	2.95	5.78	21.73	10.35
2000	3.53	7.02	8.88	9.31	11.74	10.58	4.43	7.69	22.03	11.64
	Expenditures in Million Nominal Dollars									
1970	R 10.5	111.5	52.9	10.3	48.9	112.2	1.1	R 235.3	225.0	R 460.3
1975	R 4.1	179.5	107.6	9.2	94.8	211.6	2.2	R 397.4	344.1	R 741.5
1980	R 2.7	333.8	249.5	5.2	79.0	333.7	9.1	R 679.2	643.8	R 1,323.1
1985	R 3.4	618.7	173.6	6.2	67.4	247.2	9.8	R 879.1	860.3	R 1,739.4
1986	R 2.9	545.1	141.0	4.9	76.6	222.4	7.6	R 778.0	878.1	R 1,656.1
1987	R 2.3	411.9	129.1	3.7	73.2	206.0	6.6	R 626.9	914.7	R 1,541.5
1988	R 3.0	508.9	143.2	6.8	73.0	222.9	6.9	R 741.7	1,014.0	R 1,755.7
1989	R 3.2	534.3	164.9	13.9	115.4	294.2	8.0	R 839.6	994.0	R 1,833.6
1990	R 2.0	495.3	145.5	1.4	88.8	235.6	12.7	R 745.5	1,010.6	R 1,756.1
1991	R 1.0	529.5	166.2	2.0	85.4	253.6	12.7	R 796.9	1,082.9	R 1,879.8
1992	R 0.3	551.9	125.5	1.6	107.9	235.0	12.3	R 799.5	1,040.7	R 1,840.1
1993	R 1.1	655.3	118.9	1.3	130.0	250.2	10.1	R 916.7	1,105.3	R 2,022.0
1994	R 2.2	633.2	121.4	1.6	134.0	257.0	9.6	R 902.1	1,146.1	R 2,048.2
1995	R 2.4	617.9	119.5	1.4	137.8	258.7	10.5	R 889.5	1,216.6	R 2,106.2
1996	R 1.1	777.1	142.3	2.1	231.5	375.8	12.0	R 1,166.0	1,223.1	R 2,389.1
1997	R 0.8	742.3	124.9	1.7	207.8	334.3	8.4	R 1,085.8	1,235.0	R 2,320.8
1998	R 0.4	605.3	82.6	1.8	117.2	201.6	R 6.6	R 813.9	1,273.0	R 2,086.8
1999	R 0.1	661.3	66.3	0.6	145.9	212.8	R 7.3	R 881.5	1,334.3	R 2,215.8
2000	(s)	923.2	116.8	1.8	230.3	348.9	11.5	1,283.6	1,400.1	2,683.7

[a] Liquefied petroleum gases.
[b] There are no direct fuel costs for geothermal, photovoltaic, or solar thermal energy.
R=Revised data.

(s)=Value less than 0.05 million nominal dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 3. Commercial Sector Energy Price and Expenditure Estimates, Selected Years 1970-2000, Minnesota

Year	Primary Energy										Electricity	Total Energy [b]
			Petroleum									
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Wood	Total [b]		
	Prices in Nominal Dollars per Million Btu											
1970	0.47	0.69	1.05	0.89	1.20	2.97	0.58	1.13	0.61	R 0.77	7.72	R 1.44
1975	0.87	1.16	2.34	2.54	2.61	4.63	1.97	2.61	1.20	1.39	10.38	R 2.55
1980	1.77	2.89	6.60	—	4.87	9.55	4.48	6.73	3.06	R 3.46	12.95	R 5.35
1985	2.07	5.18	6.27	8.00	8.82	9.73	4.10	6.62	3.46	R 5.37	17.53	R 7.81
1986	1.93	4.62	3.98	9.81	8.75	7.42	2.86	5.04	2.77	R 4.59	17.81	R 7.57
1987	1.85	3.89	4.37	8.77	6.52	7.71	2.43	5.04	2.64	R 3.97	17.19	R 7.40
1988	1.84	4.00	3.84	10.37	8.19	7.81	2.37	4.75	2.67	R 4.01	17.52	R 7.19
1989	1.86	3.98	4.65	9.12	7.55	8.72	2.38	5.23	2.95	R 4.03	17.61	R 7.06
1990	1.97	3.96	5.57	8.35	9.92	9.56	2.50	7.66	3.56	R 4.56	17.70	R 7.63
1991	1.87	3.76	4.99	8.73	8.84	9.31	2.11	5.68	3.41	3.94	17.98	R 7.31
1992	1.92	4.06	4.95	7.23	6.33	9.11	1.79	5.17	3.12	4.15	18.15	7.64
1993	1.98	4.47	4.78	6.37	9.37	9.26	2.18	6.31	3.05	R 4.57	18.37	R 7.95
1994	1.93	4.31	4.40	6.09	8.22	9.46	2.17	5.44	2.96	R 4.32	18.51	R 7.89
1995	1.81	3.93	4.39	5.04	8.28	9.46	2.41	5.57	2.90	R 3.98	18.35	R 7.58
1996	1.51	4.55	5.51	6.09	10.07	10.50	2.98	6.99	3.33	R 4.72	18.22	R 8.02
1997	1.65	4.71	5.31	5.70	10.63	10.45	3.09	8.16	3.31	R 5.14	18.44	R 8.47
1998	1.60	4.30	4.20	4.37	9.49	9.11	2.04	6.84	2.87	4.63	18.64	R 8.52
1999	1.67	4.36	4.77	3.40	8.88	9.70	2.26	5.94	2.95	4.49	18.71	8.54
2000	1.58	5.90	7.25	9.31	11.83	12.33	3.97	8.66	4.43	6.16	18.84	9.74
	Expenditures in Million Nominal Dollars											
1970	R 2.5	53.2	10.7	1.3	5.1	3.7	1.4	22.3	(s)	R 78.1	83.7	R 161.8
1975	R 2.7	104.2	24.1	1.7	10.3	8.6	2.8	47.6	(s)	R 154.5	171.6	R 326.1
1980	R 4.2	183.6	55.5	—	9.3	17.1	0.9	82.7	R 0.2	R 270.7	252.8	R 523.5
1985	R 6.9	400.2	100.2	1.1	13.5	17.1	5.8	137.6	R 0.3	R 545.0	446.9	R 991.9
1986	R 5.7	343.8	25.0	R 0.2	15.7	12.7	5.5	59.2	R 0.2	R 408.9	463.3	R 872.2
1987	R 4.5	256.4	25.7	R 0.3	11.4	9.7	2.0	49.0	R 0.2	R 310.2	471.2	R 781.4
1988	R 6.3	322.4	24.6	R 0.3	15.0	9.9	4.4	54.2	R 0.3	R 383.1	514.0	R 897.2
1989	R 7.3	340.7	28.0	R 0.2	15.3	8.7	4.0	56.3	R 0.3	R 404.6	508.0	R 912.6
1990	R 5.2	310.5	30.5	R 0.2	18.6	78.8	4.1	132.2	0.8	R 448.8	532.2	R 981.0
1991	R 2.6	327.2	26.5	R 0.2	18.0	9.7	3.9	58.2	R 0.9	R 388.9	562.2	R 951.0
1992	R 0.7	337.8	21.9	R 0.3	14.4	5.6	2.2	44.4	0.8	R 383.7	557.7	R 941.4
1993	R 3.2	391.6	18.2	R 0.3	26.1	2.4	1.8	48.8	0.8	R 444.5	578.5	R 1,022.9
1994	R 7.4	365.9	23.2	R 0.5	22.7	2.4	2.2	51.0	0.8	R 425.1	612.4	R 1,037.5
1995	R 8.4	360.8	23.8	0.7	23.6	2.5	1.7	52.2	0.8	R 422.2	651.7	R 1,073.9
1996	R 3.6	456.2	33.0	0.9	38.3	2.7	2.6	77.6	1.0	R 538.4	674.5	R 1,212.9
1997	R 2.8	442.7	28.6	0.8	38.3	55.1	3.2	126.0	R 1.0	R 572.5	685.1	R 1,257.6
1998	R 1.4	361.5	20.3	0.8	23.8	46.9	2.2	94.0	0.8	R 457.7	709.5	R 1,167.2
1999	R 0.5	391.0	22.5	R 0.4	27.5	2.5	2.6	55.5	R 0.9	447.9	742.8	R 1,190.8
2000	0.1	566.2	37.0	2.9	40.9	3.2	4.2	88.2	1.4	656.0	791.5	1,447.4

[a] Liquefied petroleum gases.
[b] There are no direct fuel costs for geothermal, photovoltaic, or solar thermal energy.
R=Revised data.
— No consumption.

(s)=Value less than 0.05 million nominal dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 4. Industrial Sector Energy Price and Expenditure Estimates, Selected Years 1970-2000, Minnesota

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Wood and Waste	Total [c]		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Other [b]	Total				
	Prices in Nominal Dollars per Million Btu																
1970	0.53	0.47	0.49	0.42	0.68	0.83	0.89	1.20	5.08	2.97	0.55	1.28	1.18	1.43	0.79	4.17	1.12
1975	1.80	0.87	1.33	0.83	2.19	2.39	2.54	2.61	7.48	4.63	1.74	2.31	2.67	1.43	1.73	6.73	2.34
1980	—	1.77	1.77	2.51	3.31	5.66	5.92	4.87	14.36	9.55	2.97	7.34	5.23	1.39	3.58	11.22	5.07
1985	—	2.07	2.07	4.04	4.99	6.37	7.21	8.82	17.61	9.73	4.10	7.03	6.65	1.39	4.97	12.65	6.93
1986	—	1.93	1.93	3.42	3.86	4.22	4.99	8.75	15.59	7.42	2.86	10.73	5.05	1.44	4.07	12.76	6.23
1987	—	1.85	1.85	2.55	3.53	4.62	4.84	6.52	13.58	7.71	2.43	10.73	4.76	1.44	3.54	12.50	5.93
1988	—	1.84	1.84	2.79	3.60	4.33	4.59	8.19	14.62	7.81	2.37	10.84	4.90	1.44	3.65	12.32	6.15
1989	—	1.86	1.86	2.84	3.01	4.85	5.73	7.55	14.48	8.72	2.38	10.00	4.89	R d 1.19	R d 3.52	12.02	R d 5.94
1990	—	1.97	1.97	2.96	3.31	6.51	6.88	9.92	14.60	9.56	2.50	9.71	5.66	R 1.06	R 3.89	12.14	R 6.14
1991	—	1.87	1.87	2.75	3.19	5.33	6.04	8.84	16.80	9.31	2.11	7.77	5.51	1.18	R 3.83	12.47	R 6.22
1992	—	1.92	1.92	3.02	2.71	5.45	5.59	6.33	18.32	9.11	1.79	9.40	5.17	1.16	3.80	12.69	R 6.10
1993	—	1.98	1.98	3.17	2.93	5.16	5.05	9.37	18.96	9.26	2.18	8.07	5.54	1.14	3.92	12.89	6.27
1994	—	1.93	1.93	2.84	2.93	5.18	5.10	7.21	19.11	9.46	2.17	9.01	5.41	1.20	3.72	12.91	6.15
1995	—	1.81	1.81	2.42	3.13	5.21	5.21	7.59	19.41	9.46	2.41	9.31	5.37	R 0.97	R 3.51	12.61	R 5.83
1996	—	1.51	1.51	2.92	2.99	6.31	6.12	9.24	20.08	10.50	2.98	14.85	5.94	1.17	3.90	12.50	R 6.11
1997	—	1.65	1.65	3.22	3.32	6.01	5.75	9.01	17.98	10.45	3.09	14.50	6.02	R 1.18	R 4.10	12.70	R 6.33
1998	—	1.60	1.60	2.82	2.98	4.72	4.05	7.87	19.07	9.11	2.04	11.44	4.96	R 1.26	R 3.47	13.05	R 6.08
1999	—	1.67	1.67	2.92	3.16	5.06	5.19	8.05	16.75	9.70	2.26	11.80	5.04	R 1.44	R 3.49	13.37	R 6.10
2000	—	1.58	1.58	4.38	4.40	7.93	8.28	12.09	17.99	12.33	3.97	13.01	7.18	1.47	4.82	13.40	7.13
	Expenditures in Million Nominal Dollars																
1970	8.6	12.2	20.8	40.6	20.0	37.5	1.2	5.6	9.1	56.3	9.4	2.6	141.9	2.5	205.7	118.8	324.5
1975	45.4	22.2	67.6	83.5	67.2	111.0	2.5	18.8	11.4	76.1	19.0	7.0	313.2	3.4	467.7	254.2	721.9
1980	—	31.9	31.9	251.7	78.4	188.2	3.3	73.5	28.2	67.1	22.0	16.7	477.3	6.5	767.4	584.6	1,351.9
1985	—	43.8	43.8	259.4	165.1	177.6	0.9	74.4	31.4	87.8	6.2	15.8	559.3	7.6	870.1	755.7	1,625.7
1986	—	39.1	39.1	190.8	140.3	138.6	0.9	88.9	27.2	62.0	15.8	13.4	487.1	8.6	725.7	755.8	1,481.4
1987	—	31.3	31.3	176.0	137.2	127.3	R 0.3	50.3	26.8	61.1	11.5	15.0	429.5	8.6	645.5	826.1	1,471.5
1988	—	27.9	27.9	210.1	117.1	132.8	0.9	64.2	27.8	52.2	9.9	11.9	416.8	9.0	663.7	905.7	1,569.5
1989	—	35.5	35.5	224.2	98.5	130.9	1.6	61.9	28.3	57.4	8.2	10.3	397.2	R d 13.5	R d 670.3	907.9	R d 1,578.3
1990	—	47.0	47.0	250.7	132.5	178.9	R 0.3	84.3	29.3	56.1	8.0	10.0	499.4	R 12.3	R 809.4	948.6	R 1,758.0
1991	—	28.5	28.5	243.8	106.6	174.2	R 0.3	86.7	30.2	70.5	6.0	38.5	513.0	R 13.2	R 798.5	992.2	R 1,790.7
1992	—	37.7	37.7	271.2	95.9	196.3	R 0.3	84.3	33.6	67.8	6.9	48.2	533.4	R 14.6	R 856.9	993.8	R 1,850.7
1993	—	49.1	49.1	298.1	93.2	172.9	R 0.5	121.2	35.4	59.4	10.1	41.9	534.5	R 14.8	R 896.6	1,044.0	R 1,940.6
1994	—	51.9	51.9	258.7	92.2	193.2	2.2	107.0	37.3	62.0	8.0	47.2	549.0	R 20.0	R 879.6	1,093.1	R 1,972.7
1995	—	48.3	48.3	248.3	132.8	197.2	0.9	117.3	37.2	58.8	4.2	46.4	595.0	R 18.0	R 909.5	1,114.8	R 2,024.3
1996	—	47.6	47.6	291.3	132.3	242.1	1.2	157.8	37.4	36.7	5.9	38.7	652.1	R 21.5	R 1,012.5	1,119.7	R 2,132.3
1997	—	46.3	46.3	337.2	146.8	237.1	0.8	110.6	35.3	100.6	5.2	37.8	674.2	R 22.0	R 1,079.7	1,169.6	R 2,249.3
1998	—	48.8	48.8	288.0	136.1	170.3	0.6	75.2	39.2	58.9	1.3	31.4	513.1	R 17.9	R 867.8	1,223.7	R 2,091.5
1999	—	60.6	R 60.6	R 297.1	162.5	141.8	2.2	84.6	34.8	51.9	2.6	32.0	512.4	R 24.2	R 894.4	1,234.5	R 2,128.9
2000	—	63.7	63.7	440.1	216.7	220.9	0.2	147.7	36.8	63.9	8.3	31.2	725.7	28.2	1,257.7	1,285.6	2,543.3

[a] Liquefied petroleum gases.
[b] "Other" is the "other petroleum products" category described in Section 4 of the Technical Notes.
[c] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
[d] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and waste beginning in 1989.

R=Revised data.
— No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 5. Transportation Sector Energy Price and Expenditure Estimates, Selected Years 1970-2000, Minnesota

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	0.47	—	2.17	1.24	0.75	1.20	5.08	2.97	0.57	2.64	2.64	—	2.64
1975	0.87	—	3.45	2.67	2.09	2.61	7.48	4.63	1.70	4.13	4.13	—	4.13
1980	—	—	9.02	7.16	6.47	4.87	14.36	9.55	3.81	8.88	8.88	—	8.88
1985	—	—	9.99	8.68	5.93	8.82	17.61	9.73	3.91	9.15	9.15	—	9.15
1986	—	—	8.41	6.78	4.04	8.75	15.59	7.42	3.65	6.98	6.98	—	6.98
1987	—	—	7.55	7.15	4.15	6.52	13.58	7.71	2.25	7.36	7.36	—	7.36
1988	—	—	7.41	7.21	3.94	8.19	14.62	7.81	1.83	7.48	7.48	—	7.48
1989	—	—	8.28	7.83	4.47	7.55	14.48	8.72	1.84	8.33	8.33	—	8.33
1990	—	—	9.32	9.19	5.68	9.92	14.60	9.56	—	9.23	9.23	—	9.23
1991	—	—	8.71	8.28	4.87	8.84	16.80	9.31	1.98	8.85	8.85	—	8.85
1992	—	—	8.54	8.12	4.64	6.33	18.32	9.11	1.32	8.58	8.58	—	8.58
1993	—	6.01	8.24	8.22	4.33	9.37	18.96	9.26	1.51	8.51	8.51	—	8.51
1994	—	1.88	7.96	8.32	3.96	9.20	19.11	9.46	1.65	8.61	8.61	—	8.61
1995	—	1.80	8.36	8.23	4.00	9.59	19.41	9.46	—	8.60	8.60	—	8.60
1996	—	3.36	9.29	9.22	4.79	9.35	20.08	10.50	—	9.56	9.56	—	9.56
1997	—	3.44	9.39	9.07	4.65	8.82	17.98	10.45	2.43	9.43	9.43	—	9.43
1998	—	2.35	8.11	7.79	3.54	8.70	19.07	9.11	—	8.20	8.20	—	8.20
1999	—	3.35	8.81	8.38	4.03	10.95	16.75	9.70	2.30	8.67	8.67	—	8.67
2000	—	4.56	10.48	10.92	6.53	13.88	17.99	12.33	4.62	11.19	11.19	—	11.19
	Expenditures in Million Nominal Dollars												
1970	(s)	—	3.0	36.6	14.7	R 0.4	19.3	628.9	R 0.1	703.1	703.1	—	703.1
1975	(s)	—	3.7	104.1	66.5	0.9	34.1	1,088.1	6.2	1,303.7	1,303.8	—	1,303.8
1980	—	—	8.8	338.4	188.3	1.2	69.3	2,235.3	23.2	2,864.5	2,864.5	—	2,864.5
1985	—	—	7.8	403.6	261.4	3.9	77.4	2,209.8	3.8	2,967.7	2,967.7	—	2,967.7
1986	—	—	9.6	319.6	178.6	4.0	67.0	1,709.5	0.8	2,289.1	2,289.1	—	2,289.1
1987	—	—	6.8	354.7	132.8	1.7	65.9	1,832.9	R 0.1	2,394.9	2,394.9	—	2,394.9
1988	—	—	6.2	378.6	114.7	2.2	68.4	1,940.8	R 0.1	2,511.1	2,511.1	—	2,511.1
1989	—	—	6.6	408.2	118.0	1.7	69.6	2,159.7	(s)	2,763.8	2,763.8	—	2,763.8
1990	—	—	10.0	508.9	164.0	2.0	72.2	2,264.5	—	3,021.7	3,021.7	—	3,021.7
1991	—	—	8.3	507.6	137.3	1.7	74.3	2,294.6	(s)	3,023.7	3,023.7	—	3,023.7
1992	—	—	5.8	529.2	173.8	1.2	82.6	2,305.9	(s)	3,098.5	3,098.5	—	3,098.5
1993	—	(s)	5.5	543.6	231.3	3.4	87.0	2,435.0	(s)	3,305.8	3,305.8	—	3,305.8
1994	—	R 0.1	5.0	624.7	219.2	4.2	91.7	2,535.0	(s)	3,479.9	3,479.9	—	3,479.9
1995	—	(s)	5.4	654.5	226.1	4.7	91.6	2,618.6	—	3,600.8	3,600.8	—	3,600.8
1996	—	R 0.1	5.8	714.9	288.7	4.7	91.9	2,965.5	—	4,071.6	4,071.7	—	4,071.7
1997	—	R 0.1	6.5	730.1	287.2	4.4	86.9	2,882.1	R 0.1	3,997.3	3,997.5	—	3,997.5
1998	—	R 0.1	3.8	693.2	214.8	R 0.4	96.5	2,654.3	—	3,663.0	3,663.1	—	3,663.1
1999	—	R 0.1	6.3	782.2	287.7	R 0.3	85.6	2,974.4	(s)	4,136.4	4,136.5	—	4,136.5
2000	—	(s)	7.2	1,093.2	492.2	0.3	90.6	3,857.8	7.8	5,549.1	5,549.2	—	5,549.2

[a] Liquefied petroleum gases.
R=Revised data.
—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.

(s)=Value less than 0.05 million nominal dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 6. Price and Expenditure Estimates for Energy Input at Electric Utilities, Selected Years 1970-2000, Minnesota

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Wood and Waste	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	0.34	0.26	0.74	0.85	0.28	0.73	—	0.65	0.34
1975	0.62	0.64	1.95	2.26	0.54	2.03	0.24	0.92	0.52
1980	1.04	1.99	4.46	5.80	—	4.86	0.44	1.74	0.91
1985	1.43	3.69	3.99	5.97	—	5.96	0.50	—	1.09
1986	1.36	2.95	—	3.91	—	3.91	0.50	—	1.03
1987	1.21	2.08	2.39	4.47	—	4.46	0.51	0.95	0.99
1988	1.20	1.98	2.06	3.69	0.82	2.07	0.49	0.87	0.99
1989	1.20	2.15	2.13	4.42	0.77	1.16	0.49	0.88	R 0.99
1990	1.25	1.92	1.86	5.33	0.76	1.25	0.48	0.62	1.02
1991	1.26	1.70	2.16	4.63	0.77	1.09	0.47	0.72	1.03
1992	1.19	1.84	1.47	4.51	0.70	0.90	0.44	0.61	0.98
1993	1.13	2.45	1.65	4.42	0.71	0.99	0.41	0.55	0.94
1994	1.14	2.13	—	4.20	0.69	1.03	0.47	0.54	0.97
1995	1.14	1.76	—	4.07	0.69	1.17	0.48	0.51	0.96
1996	1.07	2.17	2.34	4.87	0.64	1.12	0.48	0.41	0.93
1997	1.10	2.44	2.30	4.83	0.65	1.17	0.47	0.38	0.97
1998	1.07	2.34	1.64	3.53	0.64	1.04	0.47	0.40	0.94
1999	1.10	2.66	2.12	4.21	0.63	1.11	0.47	0.40	0.93
2000	1.11	4.49	3.56	6.60	0.33	1.36	0.44	0.40	0.98
	Expenditures in Million Nominal Dollars								
1970	43.1	15.3	3.9	2.7	R 0.2	6.9	—	R 0.1	65.3
1975	84.9	14.2	10.4	8.9	R 0.2	19.5	25.5	(s)	144.2
1980	230.9	16.0	10.1	5.6	—	15.8	48.6	(s)	311.3
1985	286.5	4.7	(s)	1.7	—	1.7	R 61.4	—	R 354.4
1986	241.4	5.1	—	1.4	—	1.4	R 58.0	—	R 305.8
1987	284.5	11.8	(s)	2.6	—	2.6	R 61.2	R 0.4	R 360.6
1988	339.9	10.4	R 0.1	2.8	0.8	3.7	R 63.3	1.4	R 418.6
1989	358.3	9.5	R 0.1	2.1	3.2	5.4	R 56.6	2.3	R 400.8
1990	372.2	10.1	(s)	2.8	3.3	6.2	R 61.2	2.6	R 448.1
1991	357.4	10.1	(s)	2.4	4.4	6.9	R 59.3	3.0	R 447.8
1992	332.1	9.1	(s)	1.6	4.5	6.1	R 50.9	2.6	R 422.0
1993	337.8	9.7	(s)	2.3	4.6	6.9	R 52.0	2.4	R 422.0
1994	342.5	12.5	—	2.7	4.1	6.8	R 59.9	2.3	R 452.6
1995	347.9	14.7	—	3.2	3.2	6.3	R 66.2	2.3	R 468.7
1996	331.8	11.5	(s)	4.0	4.0	8.0	R 60.4	1.8	R 446.0
1997	340.7	14.9	R 0.1	5.0	4.9	10.0	R 53.3	1.7	R 468.1
1998	340.0	18.2	(s)	3.6	4.0	7.6	R 57.4	1.8	R 450.8
1999	333.2	17.8	(s)	4.9	4.8	9.7	R 65.4	1.7	R 446.7
2000	370.3	24.5	(s)	8.4	2.2	10.6	60.1	1.7	499.2

[a] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy. Net imports of electricity generated from nonrenewable energy sources are included in this total but not in any other columns.

R=Revised data.

— No consumption.

(s)=Value less than 0.05 million nominal dollars.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.