

Appendix B

Historical Data on Fuel Consumption and Prices for the Residential Sector in the Northeast Region

Table B1. National Summary: Space Heating Equipment
(Million Households)

Year	Distillate Heating, No Gas			Distillate Heating, With Gas			Total Distillate Heating	Total Natural Gas Heating			Total Electric Heating		
	Single Family	Multi-Family	Total Distillate	Single Family	Multi-Family	Total With Gas		Single Family	Multi-Family	Total Gas	Single Family	Multi-Family	Total Electric
1978	9.2	0.7	9.9	2.1	3.4	5.5	15.5	30.7	11.2	41.8	8.0	4.1	12.1
1979	8.2	0.4	8.6	1.9	3.0	4.9	13.5	31.1	11.3	42.4	8.4	4.5	12.8
1980	6.9	0.9	7.8	1.7	3.0	4.8	12.6	33.4	11.2	44.6	9.2	5.1	14.3
1981	5.9	1.0	6.9	1.5	2.9	4.4	11.3	35.5	10.7	46.2	8.1	6.1	14.2
1982	6.0	1.0	7.0	1.6	2.7	4.3	11.3	34.3	13.2	47.5	8.4	4.9	13.4
1984	5.3	0.7	6.1	1.7	2.9	4.6	10.7	33.8	14.1	47.8	9.3	5.2	14.5
1987	6.2	1.0	7.2	1.3	2.5	3.7	10.9	36.0	14.0	50.0	10.9	7.0	17.9
1990	6.6	0.8	7.4	1.1	1.9	3.0	10.4	38.7	13.0	51.7	13.3	8.2	21.5
1993	6.8	0.6	7.4	1.1	1.7	2.7	10.2	39.6	11.8	51.4	15.6	9.3	25.0
1997	6.2	0.6	6.8	1.0	1.7	2.7	9.5	44.6	8.9	53.5	20.1	9.5	29.6

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B2. Northeast Summary: Space Heating Equipment
(Million Households)

Year	Distillate Heating, No Gas			Distillate Heating, With Gas			Total Distillate Heating	Natural Gas Space Heating			Electric Heating		
	Single Family	Multi-Family	Total Distillate	Single Family	Multi-Family	Total With Gas		Single Family	Multi-Family	Total Gas	Single Family	Multi-Family	Total Electric
1978	3.4	0.6	4.0	1.4	3.2	4.7	8.6	4.3	2.6	7.0	0.6	0.9	1.4
1979	2.8	0.3	3.1	1.2	2.9	4.1	7.2	3.9	3.2	7.1	0.6	1.1	1.7
1980	3.3	0.6	3.9	1.3	2.8	4.1	8.0	4.0	2.6	6.6	1.0	0.6	1.6
1981	2.9	0.8	3.7	1.2	2.8	4.0	7.8	4.2	2.8	7.0	0.7	0.9	1.5
1982	2.9	0.8	3.6	1.3	2.5	3.8	7.4	4.6	2.9	7.5	0.7	0.6	1.3
1984	2.9	0.6	3.5	1.4	2.8	4.3	7.8	4.6	2.6	7.2	0.8	0.6	1.4
1987	3.4	0.9	4.3	1.0	2.4	3.4	7.7	5.2	2.9	8.1	1.1	1.0	2.1
1990	3.9	0.7	4.6	0.9	1.9	2.8	7.4	5.4	3.4	8.7	1.2	0.8	2.0
1993	4.0	0.6	4.5	0.8	1.7	2.5	7.0	5.7	3.8	9.4	1.0	0.9	1.9
1997	4.1	0.5	4.7	0.7	1.7	2.4	7.1	6.8	2.3	9.2	1.5	0.9	2.3

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B3. New England Summary: Space Heating Equipment
(Million Households)

Year	Distillate Heating, No Gas			Distillate Heating, With Gas			Total Distillate Heating	Total Natural Gas Heating			Total Electric Heating		
	Single Family	Multi-Family	Total Distillate	Single Family	Multi-Family	Total With Gas		Single Family	Multi-Family	Total Gas	Single Family	Multi-Family	Total Electric
1980	1.2	0.3	1.5	0.2	0.5	0.7	2.2	0.3	0.8	1.1	0.2	0.2	0.3
1981	1.0	0.4	1.4	0.2	0.5	0.7	2.1	0.6	0.6	1.2	0.1	0.3	0.4
1982	1.0	0.3	1.3	0.4	0.4	0.8	2.1	0.5	0.7	1.2	0.0	0.3	0.3
1984	0.9	0.3	1.2	0.4	0.4	0.8	2.0	0.6	0.6	1.2	0.1	0.2	0.3
1987	1.4	0.4	1.8	0.2	0.3	0.5	2.3	0.5	0.7	1.2	0.1	0.3	0.4
1990	1.4	0.3	1.7	0.2	0.3	0.5	2.2	0.5	0.8	1.3	0.2	0.4	0.6
1993	1.8	0.3	2.0	0.2	0.3	0.5	2.6	0.7	0.9	1.6	0.2	0.3	0.5
1997	2.0	0.3	2.3	0.3	0.1	0.4	2.7	0.8	0.6	1.5	0.4	0.3	0.6

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B4. Mid-Atlantic Summary: Space Heating Equipment
(Million Households)

Year	Distillate Heating, No Gas			Distillate Heating, With Gas			Total Distillate Heating	Total Natural Gas Heating			Total Electric Heating		
	Single Family	Multi-Family	Total Distillate	Single Family	Multi-Family	Total With Gas		Single Family	Multi-Family	Total Gas	Single Family	Multi-Family	Total Electric
1980	2.1	0.3	2.4	1.1	2.3	3.4	5.8	3.7	1.8	5.5	0.8	0.4	1.3
1981	2.0	0.4	2.4	1.0	2.3	3.3	5.7	3.6	2.2	5.9	0.6	0.6	1.1
1982	1.9	0.4	2.3	0.9	2.1	3.0	5.3	4.1	2.2	6.3	0.7	0.3	1.0
1984	2.0	0.3	2.3	1.1	2.4	3.5	5.8	4.0	2.1	6.0	0.7	0.3	1.0
1987	2.0	0.4	2.4	0.8	2.1	2.9	5.4	4.7	2.2	6.9	1.0	0.7	1.7
1990	2.5	0.4	2.9	0.7	1.5	2.3	5.2	4.9	2.5	7.4	1.0	0.4	1.4
1993	2.2	0.3	2.5	0.6	1.4	1.9	4.5	5.0	2.9	7.9	0.8	0.6	1.4
1997	2.2	0.2	2.4	0.4	1.5	2.0	4.4	6.0	1.7	7.7	1.1	0.6	1.7

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B5. Midwest Summary: Space Heating Equipment
(Million Households)

Year	Distillate Heating, No Gas			Distillate Heating, With Gas			Total Distillate Heating	Total Natural Gas Heating			Total Electric Heating		
	Single Family	Multi-Family	Total Distillate	Single Family	Multi-Family	Total With Gas		Single Family	Multi-Family	Total Gas	Single Family	Multi-Family	Total Electric
1980	1.3	0.1	1.4	0.1	0.0	0.1	1.5	11.0	4.0	15.0	1.2	0.9	2.1
1981	1.4	0.1	1.5	0.1	0.0	0.1	1.6	11.9	3.5	15.4	0.6	1.0	1.6
1982	1.2	0.2	1.4	0.1	0.1	0.2	1.5	10.9	4.6	15.5	1.3	0.8	2.1
1984	1.0	0.1	1.0	0.1	0.0	0.1	1.1	11.0	5.4	16.4	1.0	0.3	1.3
1987	1.3	0.0	1.3	0.1	0.0	0.1	1.5	11.5	5.0	16.5	1.1	0.3	1.5
1990	1.1	0.0	1.1	0.1	0.0	0.1	1.2	12.4	4.1	16.5	1.4	1.3	2.6
1993	1.1	0.0	1.2	0.1	0.0	0.1	1.3	12.8	4.1	16.9	1.8	1.1	2.9
1997	1.0	0.0	1.0	0.0	0.0	0.0	1.0	14.9	3.0	17.9	1.5	1.2	2.7

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B6. Regional Fuel Consumption for Residential Space Heating
(Quadrillion Btu)

Year	Oil Heating					Gas Heating					Electric Heating				
	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA
1980 ..	0.254	0.607	0.861	0.137	1.233	0.096	0.533	0.629	1.486	3.302	0.008	0.034	0.042	0.061	0.276
1981 ..	0.204	0.532	0.736	0.155	1.032	0.117	0.611	0.728	1.746	3.782	0.013	0.043	0.056	0.052	0.299
1982 ..	0.202	0.474	0.677	0.137	0.964	0.107	0.559	0.666	1.327	3.277	0.008	0.025	0.033	0.069	0.266
1984 ..	0.215	0.512	0.726	0.105	0.948	0.110	0.528	0.638	1.563	3.472	0.009	0.029	0.038	0.047	0.263
1987 ..	0.205	0.461	0.666	0.120	0.912	0.099	0.625	0.725	1.399	3.345	0.010	0.038	0.047	0.045	0.283
1990 ..	0.213	0.415	0.629	0.109	0.828	0.098	0.614	0.712	1.421	3.339	0.011	0.030	0.041	0.058	0.303
1993 ..	0.248	0.380	0.629	0.123	0.885	0.125	0.646	0.771	1.558	3.645	0.010	0.031	0.040	0.074	0.407
1997 ..	0.271	0.372	0.642	0.100	0.834	0.121	0.618	0.738	1.650	3.579	0.012	0.031	0.042	0.054	0.380

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B7. Regional Fuel Expenditures for Residential Space Heating
(1998 Dollars per Household)

Year	Oil Space Heating					Natural Gas Space Heating					Electric Space Heating				
	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA
1980...	1640	1511	1547	1271	1414	890	803	817	632	510	924	851	866	708	466
1981...	1439	1369	1388	1354	1326	1118	895	933	771	602	1257	1171	1193	814	530
1982...	1261	1159	1187	1139	1109	1145	921	957	690	598	945	887	900	821	514
1984...	1178	942	1004	997	960	1021	882	905	763	612	938	1028	1006	898	481
1987...	696	652	665	632	645	729	735	734	549	471	730	700	706	782	408
1990...	887	756	796	822	743	666	663	663	502	422	577	676	645	524	339
1993...	693	599	633	643	619	711	661	670	542	463	693	631	646	582	378
1997...	716	606	648	670	637	772	693	705	549	452	571	529	540	410	273

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B8. Regional Fuel Prices
(1998 Dollars per Million Btu)

Year	Oil Space Heating					Natural Gas Space Heating					Electric Space Heating				
	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA
1980...	14.5	14.4	14.4	14.2	14.4	10.2	8.3	8.6	6.4	6.9	36.6	31.1	32.2	24.6	24.1
1981...	14.7	14.6	14.6	14.3	14.6	11.3	8.6	9.0	6.8	7.4	37.1	31.4	32.8	25.1	25.2
1982...	13.1	13.0	13.0	12.8	13.0	12.8	10.5	10.8	8.1	8.7	36.8	35.7	35.9	25.0	25.8
1984...	11.2	10.6	10.8	10.9	10.9	10.8	10.0	10.2	8.0	8.4	36.0	36.1	36.1	25.7	26.6
1987...	7.8	7.6	7.7	7.7	7.7	8.7	8.1	8.2	6.5	7.0	31.5	31.2	31.3	25.3	25.8
1990...	9.4	9.4	9.4	9.1	9.3	9.1	8.0	8.1	5.8	6.5	33.8	30.8	31.6	23.7	24.1
1993...	7.1	7.0	7.1	6.8	7.1	9.0	8.0	8.2	5.9	6.5	34.1	29.6	30.6	22.7	23.2
1997...	7.2	7.1	7.1	6.9	7.2	9.3	8.6	8.7	6.0	6.7	31.8	29.3	30.0	20.2	21.3

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B9. Regional Fuel Consumption for Residential Space Heating If All Households With Oil Heat and Gas Service Switched to Gas Heat
(Quadrillion Btu)

Year	Oil Space Heating					Natural Gas Space Heating				
	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA
1980	0.173	0.259	0.432	0.126	0.745	0.177	0.881	1.058	1.497	3.791
1981	0.142	0.226	0.368	0.141	0.627	0.180	0.916	1.096	1.760	4.187
1982	0.122	0.210	0.332	0.121	0.579	0.187	0.823	1.010	1.342	3.662
1984	0.126	0.213	0.339	0.096	0.533	0.199	0.826	1.025	1.572	3.887
1987	0.161	0.238	0.398	0.112	0.620	0.144	0.849	0.993	1.407	3.637
1990	0.167	0.254	0.421	0.102	0.600	0.145	0.775	0.920	1.428	3.567
1993	0.196	0.253	0.449	0.108	0.678	0.177	0.774	0.951	1.573	3.852
1997	0.229	0.238	0.467	0.097	0.638	0.163	0.751	0.914	1.653	3.775

Source: Energy Information Administration, using 1978-1997 RECS data.

Table B10. Regional Fuel Expenditures for Residential Space Heating If All Households With Oil Heat and Gas Service Switched to Gas Heat
(1998 Dollars per Household)

Year	Oil Space Heating					Natural Gas Space Heating				
	New England	Mid-Atlantic	Northeast	Midwest	USA	New England	Mid-Atlantic	Northeast	Midwest	USA
1980	1650	1561	1596	1248	1371	986	821	849	633	545
1981	1538	1388	1443	1320	1309	1060	859	893	772	621
1982	1222	1173	1191	1136	1073	1204	922	972	691	629
1984	1147	1016	1061	1007	965	1084	877	913	762	638
1987	684	754	724	650	672	751	700	708	548	483
1990	907	834	862	815	760	701	640	650	502	433
1993	691	715	704	627	652	754	635	656	543	470
1997	723	736	729	671	687	796	671	691	549	460

Source: Energy Information Administration, using 1978-1997 RECS data.