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Annual Supplement to
NBS Handbook 135 and
NBS Special Publication 709
1987 Edition

Barbara C. Lippiatt
Rosalie T. Ruegg



United States Department of Commerce
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NOTICE

Please note that this 1987 Edition of the Annual Supplement to NBS Handbook 135 and NBS Special Publication 709 is an interim version that may be partially revised at a later time. The data which may be revised are those based on EIA energy forecasts for the period 2001-2012. In this interim edition, it is assumed that energy prices over the period 2001-2012 will change at the same rate as general price inflation. It is expected that revised projections will show energy prices increasing somewhat faster than general price inflation in these future years. The effect would be to raise the values of the UPW* factors for study periods 14 years and longer and to raise the values of the price indices for years past 2000, thereby causing energy conservation and renewable energy projects to appear somewhat more cost effective than if evaluated with the data in this interim version. However, the effect is not expected to be large because it occurs in the out years where each cash-flow dollar has a greatly reduced present value due to discounting. Until revised data become available, the Federal Energy Management Program of the U.S. Department of Energy recommends the use of this interim edition.

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**ENERGY PRICES AND
DISCOUNT FACTORS FOR
LIFE-CYCLE COST ANALYSIS:**

Annual Supplement to
NBS Handbook 135 and
NBS Special Publication 709

1987 Edition

- APPENDICES A, B, AND C OF THE FEDERAL METHODOLOGY FOR LIFE-CYCLE COST ANALYSIS USING AVERAGE FUEL COSTS: For Energy Conservation Projects with Study Periods of up to 25 Years and Using a 7 Percent Discount Rate
- EXTENSIONS TO APPENDICES A, B, AND C OF THE FEDERAL METHODOLOGY FOR LIFE-CYCLE COST ANALYSIS USING AVERAGE FUEL COSTS: For Non-Energy Conservation Projects with Study Periods of up to 30 Years and Using a 10 Percent Discount Rate
- SUPPLEMENT FOR PRIVATE SECTOR LIFE-CYCLE COST ANALYSIS: Projected Average Fuel Price Indices for 25 Years with General Price Inflation Rates of 0, 5, 10, and 15 Percent

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ABSTRACT

This report provides the 1987 annual edition of the energy price and discount factor tables used to supplement both the Federal life-cycle costing methodology as described in NBS Handbook 135 (HB 135) and private sector life-cycle cost analysis as described in NBS Special Publication 709 (SP 709). Tables A (7%), Ba, and C represent revisions of appendices A, B, and C, respectively, of HB 135. They should be used in life-cycle cost analyses of Federal energy conservation projects. Tables A (10%), Bb, and C are for use in life-cycle cost analyses of Federal non-energy conservation projects that require energy price forecasts. The last section of this report, the supplement for private sector life-cycle cost analysis, represents revisions to appendix B, Part I of SP 709 and is provided for the convenience of private sector analysts wishing to make use of Federal energy price forecasts.

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1. SINGLE PRESENT WORTH AND UNIFORM PRESENT WORTH DISCOUNT FACTORS
(APPENDIX A OF THE FEDERAL METHODOLOGY FOR LIFE-CYCLE COST ANALYSIS, PLUS
EXTENSIONS)

Table A-1 of this section presents the single present worth (SPW) factors for finding the present value of future nonfuel nonannually recurring amounts, such as repair and replacement costs and salvage values. The formula for finding the present value (P) of a future amount (F) is the following:

$$P = F \cdot \frac{1}{(1+d)^N} = F \cdot \text{SPW}_N \text{ Factor,}$$

where d= the discount rate; and
N= the number of years until F occurs.

Table A-2 presents uniform present worth (UPW) factors for finding the present value of nonfuel annually recurring amounts, such as routine maintenance costs. The formula for finding the present value (P) of an annually recurring uniform amount (A) is the following:

$$P = A \cdot \frac{(1+d)^N - 1}{d(1+d)^N} = A \cdot \text{UPW}_N \text{ Factor,}$$

where N= the number of years over which A recurs.

In each table the factors are given for both 7 percent and 10 percent discount rates. The factors based on 7 percent are for use in evaluating amounts associated with energy conservation and renewable energy projects. The factors based on 10 percent are for use in evaluating amounts associated with most other Federal projects (except those specifically exempted from the 10 percent rate).

For further explanation of the use of these factors, see NBS Handbook 135, section 2.5.

Table A-1. SPW Factors for Finding the Present Value of Future
Nonfuel Nonannually Recurring Amounts

Number of Years Until Future Amount Occurs (N)	SPW Factor (d=.07)	SPW Factor (d=.10)
1	0.93	0.91
2	0.87	0.83
3	0.82	0.75
4	0.76	0.68
5	0.71	0.62
6	0.67	0.56
7	0.62	0.51
8	0.58	0.47
9	0.54	0.42
10	0.51	0.39
11	0.48	0.35
12	0.44	0.32
13	0.41	0.29
14	0.39	0.26
15	0.36	0.24
16	0.34	0.22
17	0.32	0.20
18	0.30	0.18
19	0.28	0.16
20	0.26	0.15
21	0.24	0.14
22	0.23	0.12
23	0.21	0.11
24	0.20	0.10
25	0.18	0.09
----- ***Extended Series***		
26		0.08
27		0.08
28		0.07
29		0.06
30		0.06

Table A-2. UPW Factors for Finding the Present Value of Future
Nonfuel Annually Recurring Amounts

Number of Years Over Which Amount Recurrs (N)	UPW Factor (d=.07)	UPW Factor (d=.10)
1	0.93	0.91
2	1.81	1.74
3	2.62	2.49
4	3.39	3.17
5	4.10	3.79
6	4.77	4.36
7	5.39	4.87
8	5.97	5.33
9	6.52	5.76
10	7.02	6.14
11	7.50	6.50
12	7.94	6.81
13	8.36	7.10
14	8.75	7.37
15	9.11	7.61
16	9.45	7.82
17	9.76	8.02
18	10.06	8.20
19	10.34	8.36
20	10.59	8.51
21	10.84	8.65
22	11.06	8.77
23	11.27	8.88
24	11.47	8.98
25	11.65	9.08
----- *** Extended Series ***		
26		9.16
27		9.24
28		9.31
29		9.37
30		9.43

2. MODIFIED UNIFORM PRESENT WORTH DISCOUNT FACTORS BASED ON SEVEN AND TEN PERCENT REAL DISCOUNT RATES, BY DoE REGION
 (UPDATE OF APPENDIX B OF THE FEDERAL METHODOLOGY FOR LIFE-CYCLE COST ANALYSIS, PLUS EXTENSIONS)

The tables in this section present "modified" uniform present worth (UPW*) discount factors for the 10 DoE regions and for the United States. The factors are modified in the sense that they take projected energy price changes into account. There are two sets of tables: the "a" tables present UPW* factors based on a seven percent real discount rate, and the "b" tables present UPW* factors based on a ten percent real discount rate. The factors presented in the "a" tables are for energy costs or savings accruing over 1 to 25 years and are to be used in life-cycle cost analyses of Federal energy conservation projects. The factors presented in the "b" tables are for energy costs or savings accruing over 1 to 30 years and are to be used for life-cycle cost analysis of the energy component of Federal projects that are not primarily energy conservation projects. For both sets of tables, the energy costs or savings are assumed to begin accruing in 1987.

For the period 1987-2000, the UPW* factors are derived from the Energy Information Administration's (EIA) output projections from the Intermediate Future Forecasting System found in the Annual Energy Outlook, 1986, DOE/EIA-0383(86). For the period 2001-2012, the UPW* factors are derived using the year 2000 prices for each subsequent year, as recommended by the EIA. Fuel price indices used to derive these UPW* factors are presented in tables Ca-1 through Ca-11 of section 3. The "Extended Series" of factors for energy costs or savings accruing over 26 to 30 years found in the "b" tables of section 2 are derived by assuming no real change in energy prices during the period 2013 through 2017.

The formula for finding the present value (P) of future energy costs or savings is the following:

$$P = A_0 \cdot \sum_{n=1}^N \frac{I(1987+n)}{(1+d)^n} = A_0 \cdot \text{UPW}_N^* \text{ Factor,}$$

- where A_0 = Base-year dollar amount of energy, the annual quantity of energy times its 1987 price;
- n = Counter used to designate each year, with $n=1$ for the year 1988;
- N = Number of years over which energy costs or savings accrue;
- $I(1987+n)$ = Projected average fuel price index given in tables Ca-1 through Ca-11 for the year 1987+n; and
- d = Discount rate.

For further explanation of the use of these factors, see NBS Handbook 135, section 2.5.

TABLE B-1a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL¹

DISCOUNT RATE = 7 PERCENT

DoE Region 1 (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.96	0.97	0.97	0.92	0.96	0.97	0.94	0.93	0.95	0.97	0.97	0.94	0.86	0.95	0.97	1
2	1.84	1.93	1.93	1.84	1.84	1.93	1.85	1.86	1.84	1.85	1.93	1.86	1.76	1.86	1.89	2
3	2.64	2.86	2.86	2.72	2.64	2.86	2.74	2.76	2.69	2.65	2.86	2.75	2.65	2.72	2.79	3
4	3.37	3.77	3.77	3.56	3.37	3.77	3.60	3.61	3.50	3.37	3.77	3.60	3.54	3.53	3.65	4
5	4.02	4.69	4.69	4.38	4.02	4.69	4.45	4.46	4.27	4.01	4.68	4.46	4.45	4.31	4.49	5
6	4.61	5.64	5.63	5.19	4.61	5.63	5.33	5.30	5.01	4.60	5.63	5.34	5.39	5.06	5.34	6
7	5.16	6.61	6.60	5.96	5.16	6.59	6.23	6.10	5.71	5.14	6.59	6.24	6.31	5.77	6.21	7
8	5.67	7.58	7.57	6.72	5.67	7.56	7.13	6.89	6.39	5.65	7.56	7.14	7.23	6.45	7.07	8
9	6.15	8.54	8.53	7.45	6.15	8.52	8.02	7.66	7.02	6.11	8.51	8.03	8.14	7.10	7.91	9
10	6.59	9.49	9.47	8.15	6.59	9.46	8.88	8.40	7.62	6.55	9.45	8.90	9.02	7.71	8.72	10
11	7.00	10.40	10.39	8.82	7.00	10.37	9.71	9.11	8.19	6.95	10.36	9.74	9.88	8.30	9.51	11
12	7.39	11.29	11.27	9.46	7.39	11.25	10.52	9.80	8.73	7.34	11.24	10.55	10.72	8.85	10.25	12
13	7.76	12.15	12.13	10.09	7.76	12.11	11.30	10.46	9.23	7.70	12.10	11.33	11.55	9.37	10.97	13
14	8.10	12.95	12.94	10.67	8.10	12.91	12.03	11.09	9.70	8.04	12.90	12.06	12.32	9.85	11.65	14
15	8.43	13.71	13.69	11.22	8.42	13.66	12.71	11.67	10.14	8.36	13.65	12.75	13.04	10.31	12.27	15
16	8.73	14.41	14.39	11.72	8.73	14.36	13.35	12.21	10.55	8.66	14.35	13.39	13.72	10.73	12.86	16
17	9.01	15.07	15.04	12.20	9.01	15.01	13.94	12.72	10.93	8.94	15.00	13.98	14.35	11.12	13.41	17
18	9.27	15.68	15.66	12.65	9.27	15.62	14.50	13.19	11.29	9.20	15.61	14.54	14.93	11.49	13.92	18
19	9.52	16.26	16.23	13.06	9.52	16.20	15.02	13.64	11.62	9.44	16.18	15.06	15.48	11.84	14.40	19
20	9.75	16.80	16.77	13.45	9.75	16.73	15.51	14.05	11.93	9.67	16.71	15.55	16.00	12.16	14.85	20
21	9.96	17.30	17.27	13.81	9.96	17.23	15.96	14.44	12.23	9.88	17.21	16.01	16.48	12.46	15.27	21
22	10.16	17.77	17.73	14.15	10.16	17.70	16.38	14.80	12.50	10.08	17.68	16.43	16.93	12.75	15.66	22
23	10.35	18.20	18.17	14.47	10.35	18.13	16.78	15.14	12.75	10.26	18.12	16.83	17.35	13.01	16.02	23
24	10.53	18.61	18.58	14.77	10.52	18.54	17.15	15.46	12.99	10.44	18.52	17.20	17.74	13.26	16.36	24
25	10.69	19.00	18.96	15.04	10.69	18.92	17.50	15.75	13.22	10.60	18.90	17.55	18.11	13.49	16.68	25

¹ELEC = Electricity; DIST = Distillate; LFG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASLINE = Gasoline.

TABLE B-2a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL¹
 DISCOUNT RATE = 7 PERCENT

DoE Region 2 (New York, New Jersey, Puerto Rico, Virgin Islands)

N	RESIDENTIAL			COMMERCIAL			INDUSTRIAL			TRANSPORTATION							
	ELEC	DIST	LPG	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	GASLINE	
1	0.95	0.97	0.97	0.93	0.93	0.94	0.92	0.94	0.96	0.97	0.94	0.89	0.94	0.97	0.97	0.97	1
2	1.83	1.93	1.93	1.82	1.82	1.86	1.81	1.83	1.84	1.92	1.86	1.76	1.82	1.90	1.90	1.90	2
3	2.65	2.87	2.86	2.66	2.66	2.75	2.67	2.67	2.66	2.86	2.75	2.62	2.66	2.79	2.79	2.79	3
4	3.40	3.78	3.77	3.47	3.47	3.60	3.49	3.46	3.40	3.76	3.61	3.47	3.46	3.65	3.65	3.65	4
5	4.06	4.69	4.69	4.25	4.25	4.47	4.30	4.22	4.05	4.68	4.47	4.32	4.22	4.49	4.49	4.49	5
6	4.67	5.64	5.63	5.02	5.02	5.35	5.09	4.93	4.64	5.62	5.35	5.16	4.95	5.34	5.34	5.34	6
7	5.23	6.61	6.60	5.76	5.76	6.25	5.87	5.61	5.19	6.58	6.25	6.01	5.64	6.21	6.21	6.21	7
8	5.76	7.59	7.58	6.48	6.48	7.15	6.64	6.26	5.71	7.55	7.15	6.85	6.29	7.07	7.07	7.07	8
9	6.27	8.55	8.54	7.18	7.18	8.04	7.40	6.87	6.21	8.50	8.04	7.69	6.92	7.91	7.91	7.91	9
10	6.74	9.50	9.48	7.87	7.87	8.91	8.14	7.44	6.67	9.44	8.91	8.52	7.51	8.72	8.72	8.72	10
11	7.19	10.41	10.40	8.53	8.53	9.75	8.86	7.99	7.11	10.34	9.75	9.32	8.07	9.50	9.50	9.50	11
12	7.62	11.30	11.28	9.17	9.17	10.56	9.56	8.49	7.54	11.22	10.56	10.10	8.60	10.25	10.25	10.25	12
13	8.02	12.16	12.14	9.78	9.78	11.34	10.23	8.97	7.94	12.08	11.34	10.86	9.10	10.96	10.96	10.96	13
14	8.40	12.97	12.95	10.35	10.35	12.08	10.87	9.42	8.31	12.88	12.08	11.58	9.56	11.63	11.63	11.63	14
15	8.75	13.72	13.70	10.89	10.89	12.76	11.46	9.83	8.66	13.63	12.76	12.25	10.00	12.26	12.26	12.26	15
16	9.08	14.43	14.40	11.39	11.39	13.40	12.01	10.22	8.99	14.33	13.40	12.87	10.41	12.85	12.85	12.85	16
17	9.39	15.09	15.06	11.86	11.86	14.00	12.53	10.58	9.29	14.98	14.00	13.45	10.79	13.39	13.39	13.39	17
18	9.67	15.70	15.67	12.30	12.30	14.56	13.01	10.92	9.58	15.59	14.56	14.00	11.14	13.91	13.91	13.91	18
19	9.94	16.28	16.25	12.70	12.70	15.08	13.46	11.24	9.84	16.16	15.08	14.51	11.47	14.38	14.38	14.38	19
20	10.19	16.81	16.78	13.09	13.09	15.57	13.88	11.54	10.09	16.69	15.57	14.98	11.78	14.83	14.83	14.83	20
21	10.43	17.32	17.28	13.44	13.44	16.03	14.27	11.82	10.33	17.19	16.03	15.43	12.07	15.25	15.25	15.25	21
22	10.65	17.79	17.75	13.78	13.78	16.45	14.64	12.07	10.54	17.66	16.45	15.84	12.34	15.64	15.64	15.64	22
23	10.85	18.22	18.19	14.09	14.09	16.85	14.99	12.32	10.75	18.09	16.85	16.23	12.60	16.00	16.00	16.00	23
24	11.04	18.63	18.60	14.38	14.38	17.23	15.31	12.54	10.94	18.50	17.22	16.59	12.83	16.35	16.35	16.35	24
25	11.22	19.02	18.98	14.65	14.65	17.57	15.61	12.75	11.11	18.88	17.57	16.93	13.05	16.66	16.66	16.66	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASLINE = Gasoline.

TABLE B-3a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL¹

DISCOUNT RATE = 7 PERCENT

DoE Region 3 (Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASOLINE	N
1	0.91	0.97	0.97	0.93	0.91	0.97	0.94	0.93	0.94	0.91	0.97	0.94	0.90	0.95	0.97	1
2	1.76	1.93	1.93	1.81	1.77	1.92	1.86	1.81	1.82	1.76	1.92	1.85	1.79	1.84	1.90	2
3	2.54	2.86	2.86	2.66	2.54	2.86	2.75	2.66	2.66	2.52	2.86	2.74	2.67	2.69	2.80	3
4	3.24	3.77	3.77	3.48	3.24	3.77	3.60	3.48	3.46	3.22	3.77	3.59	3.53	3.50	3.65	4
5	3.89	4.69	4.69	4.27	3.89	4.68	4.46	4.27	4.23	3.85	4.68	4.45	4.40	4.27	4.50	5
6	4.49	5.63	5.63	5.04	4.48	5.62	5.34	5.04	4.95	4.44	5.63	5.33	5.27	5.00	5.35	6
7	5.05	6.60	6.60	5.78	5.04	6.59	6.24	5.79	5.64	4.99	6.59	6.23	6.12	5.70	6.22	7
8	5.57	7.58	7.57	6.50	5.57	7.55	7.14	6.52	6.30	5.50	7.56	7.13	6.97	6.36	7.08	8
9	6.07	8.54	8.53	7.20	6.07	8.51	8.03	7.23	6.92	6.00	8.51	8.01	7.81	7.00	7.92	9
10	6.54	9.48	9.48	7.89	6.54	9.44	8.89	7.92	7.50	6.46	9.45	8.88	8.64	7.60	8.73	10
11	6.99	10.39	10.39	8.55	6.98	10.35	9.73	8.58	8.05	6.90	10.36	9.71	9.45	8.18	9.52	11
12	7.40	11.28	11.27	9.18	7.40	11.23	10.53	9.22	8.57	7.31	11.24	10.52	10.23	8.72	10.27	12
13	7.80	12.14	12.13	9.79	7.80	12.09	11.31	9.83	9.06	7.71	12.10	11.30	10.99	9.23	10.99	13
14	8.17	12.95	12.94	10.36	8.17	12.89	12.04	10.41	9.51	8.08	12.90	12.03	11.70	9.70	11.66	14
15	8.52	13.70	13.69	10.89	8.52	13.64	12.73	10.95	9.93	8.43	13.65	12.71	12.36	10.15	12.29	15
16	8.85	14.40	14.39	11.39	8.84	14.33	13.36	11.45	10.33	8.75	14.35	13.35	12.98	10.56	12.87	16
17	9.15	15.06	15.04	11.85	9.15	14.99	13.96	11.92	10.70	9.05	15.00	13.94	13.56	10.95	13.42	17
18	9.44	15.67	15.66	12.29	9.43	15.60	14.52	12.36	11.05	9.34	15.61	14.50	14.11	11.31	13.94	18
19	9.71	16.24	16.23	12.70	9.70	16.17	15.04	12.77	11.37	9.60	16.18	15.02	14.61	11.65	14.42	19
20	9.95	16.78	16.77	13.08	9.95	16.70	15.52	13.16	11.67	9.85	16.72	15.51	15.09	11.97	14.86	20
21	10.19	17.28	17.27	13.43	10.18	17.20	15.98	13.52	11.96	10.08	17.22	15.96	15.53	12.26	15.28	21
22	10.40	17.75	17.73	13.76	10.40	17.67	16.40	13.85	12.22	10.30	17.68	16.39	15.94	12.54	15.67	22
23	10.61	18.19	18.17	14.07	10.60	18.10	16.80	14.16	12.47	10.50	18.12	16.78	16.33	12.80	16.04	23
24	10.80	18.60	18.58	14.36	10.79	18.51	17.17	14.46	12.70	10.69	18.52	17.15	16.69	13.04	16.38	24
25	10.97	18.98	18.96	14.63	10.97	18.89	17.52	14.73	12.92	10.86	18.91	17.50	17.03	13.27	16.70	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASOLINE = Gasoline.

TABLE B-4a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
BY END-USE SECTOR AND MAJOR FUEL¹

DISCOUNT RATE = 7 PERCENT

DoE Region 4 (Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION						
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	GASOLINE	N	
1	0.89	0.97	0.97	0.94	0.89	0.97	0.93	0.93	0.95	0.89	0.97	1.05	0.90	0.95	0.89	0.97	1.05	0.97	1
2	1.71	1.93	1.93	1.82	1.71	1.92	1.84	1.83	1.84	1.70	1.92	2.07	1.79	1.84	1.70	1.92	2.07	1.89	2
3	2.46	2.87	2.86	2.68	2.46	2.86	2.73	2.69	2.69	2.44	2.86	3.09	2.67	2.70	2.44	2.86	3.09	2.79	3
4	3.15	3.78	3.77	3.52	3.15	3.76	3.58	3.52	3.51	3.12	3.77	4.07	3.55	3.53	3.12	3.77	4.07	3.64	4
5	3.77	4.70	4.69	4.35	3.77	4.68	4.43	4.36	4.30	3.73	4.68	5.07	4.46	4.33	3.73	4.68	5.07	4.49	5
6	4.33	5.64	5.63	5.17	4.34	5.62	5.30	5.19	5.06	4.28	5.62	6.12	5.40	5.09	4.28	5.62	6.12	5.34	6
7	4.85	6.61	6.60	5.99	4.86	6.58	6.19	6.02	5.79	4.79	6.59	7.20	6.35	5.83	4.79	6.59	7.20	6.20	7
8	5.33	7.59	7.57	6.81	5.34	7.55	7.08	6.86	6.48	5.26	7.56	8.30	7.33	6.53	5.26	7.56	8.30	7.06	8
9	5.77	8.55	8.53	7.63	5.78	8.50	7.95	7.68	7.13	5.69	8.51	9.39	8.31	7.20	5.69	8.51	9.39	7.90	9
10	6.19	9.49	9.48	8.42	6.20	9.44	8.80	8.50	7.75	6.10	9.45	10.46	9.29	7.83	6.10	9.45	10.46	8.71	10
11	6.58	10.41	10.39	9.19	6.58	10.34	9.63	9.29	8.33	6.47	10.35	11.50	10.24	8.42	6.47	10.35	11.50	9.49	11
12	6.94	11.29	11.27	9.94	6.95	11.22	10.42	10.05	8.87	6.83	11.23	12.48	11.18	8.98	6.83	11.23	12.48	10.23	12
13	7.28	12.16	12.13	10.68	7.29	12.08	11.19	10.81	9.39	7.16	12.09	13.43	12.11	9.51	7.16	12.09	13.43	10.95	13
14	7.59	12.96	12.93	11.37	7.61	12.88	11.91	11.52	9.87	7.47	12.89	14.31	12.99	10.00	7.47	12.89	14.31	11.62	14
15	7.89	13.72	13.68	12.01	7.90	13.62	12.58	12.18	10.32	7.76	13.64	15.14	13.80	10.46	7.76	13.64	15.14	12.25	15
16	8.17	14.42	14.39	12.61	8.18	14.32	13.21	12.80	10.74	8.03	14.34	15.92	14.57	10.89	8.03	14.34	15.92	12.83	16
17	8.43	15.08	15.04	13.18	8.44	14.97	13.80	13.38	11.13	8.28	14.99	16.64	15.28	11.30	8.28	14.99	16.64	13.38	17
18	8.67	15.69	15.65	13.70	8.68	15.58	14.35	13.92	11.50	8.52	15.60	17.32	15.95	11.67	8.52	15.60	17.32	13.89	18
19	8.90	16.27	16.23	14.19	8.91	16.15	14.86	14.42	11.84	8.74	16.17	17.95	16.57	12.02	8.74	16.17	17.95	14.37	19
20	9.11	16.80	16.76	14.65	9.12	16.68	15.34	14.89	12.16	8.94	16.70	18.54	17.15	12.35	8.94	16.70	18.54	14.81	20
21	9.31	17.31	17.26	15.08	9.32	17.18	15.79	15.33	12.46	9.14	17.20	19.09	17.70	12.66	9.14	17.20	19.09	15.23	21
22	9.49	17.78	17.73	15.48	9.51	17.65	16.20	15.74	12.74	9.32	17.67	19.61	18.21	12.94	9.32	17.67	19.61	15.62	22
23	9.66	18.21	18.17	15.86	9.68	18.08	16.59	16.13	13.00	9.49	18.10	20.09	18.68	13.21	9.49	18.10	20.09	15.98	23
24	9.82	18.62	18.57	16.21	9.84	18.49	16.96	16.49	13.25	9.64	18.51	20.54	19.13	13.46	9.64	18.51	20.54	16.32	24
25	9.98	19.01	18.96	16.53	9.99	18.87	17.30	16.83	13.47	9.79	18.89	20.96	19.54	13.70	9.79	18.89	20.96	16.64	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASOLINE = Gasoline.

TABLE B-5a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL¹
 DISCOUNT RATE = 7 PERCENT

DoE Region 5 (Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION					
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	GASOLINE	N
1	0.93	0.97	0.97	0.93	0.93	0.97	0.94	0.92	0.94	0.93	0.97	1.05	0.92	0.93	0.93	0.97	0.97	1
2	1.78	1.93	1.93	1.81	1.78	1.93	1.85	1.81	1.82	1.78	1.93	2.08	1.82	1.81	1.78	1.93	1.90	2
3	2.55	2.86	2.86	2.67	2.55	2.86	2.74	2.66	2.65	2.54	2.86	3.10	2.71	2.65	2.54	2.86	2.80	3
4	3.25	3.77	3.77	3.50	3.25	3.77	3.60	3.49	3.44	3.23	3.77	4.08	3.59	3.43	3.23	3.77	3.65	4
5	3.87	4.69	4.69	4.33	3.87	4.69	4.46	4.33	4.19	3.84	4.69	5.08	4.50	4.19	3.84	4.69	4.50	5
6	4.43	5.63	5.63	5.15	4.43	5.63	5.34	5.16	4.91	4.39	5.63	6.14	5.42	4.90	4.39	5.63	5.35	6
7	4.94	6.60	6.60	5.97	4.94	6.59	6.24	5.99	5.59	4.88	6.60	7.23	6.35	5.58	4.88	6.60	6.22	7
8	5.42	7.58	7.57	6.77	5.42	7.56	7.14	6.82	6.24	5.34	7.57	8.33	7.29	6.24	5.34	7.57	7.08	8
9	5.87	8.54	8.53	7.57	5.86	8.51	8.02	7.63	6.85	5.78	8.52	9.43	8.23	6.86	5.78	8.52	7.92	9
10	6.29	9.48	9.47	8.34	6.28	9.45	8.89	8.42	7.43	6.18	9.46	10.51	9.16	7.44	6.18	9.46	8.74	10
11	6.67	10.39	10.39	9.09	6.67	10.35	9.72	9.19	7.97	6.56	10.37	11.55	10.06	8.00	6.56	10.37	9.53	11
12	7.05	11.28	11.27	9.82	7.04	11.23	10.53	9.93	8.49	6.92	11.25	12.53	10.95	8.52	6.92	11.25	10.28	12
13	7.39	12.14	12.13	10.53	7.38	12.09	11.31	10.66	8.96	7.26	12.11	13.49	11.82	9.01	7.26	12.11	11.00	13
14	7.71	12.95	12.93	11.19	7.71	12.89	12.04	11.34	9.41	7.57	12.91	14.38	12.63	9.48	7.57	12.91	11.68	14
15	8.02	13.70	13.68	11.81	8.01	13.64	12.73	11.98	9.83	7.86	13.66	15.21	13.39	9.91	7.86	13.66	12.31	15
16	8.30	14.40	14.39	12.39	8.29	14.34	13.36	12.57	10.22	8.14	14.36	15.99	14.10	10.31	8.14	14.36	12.90	16
17	8.56	15.06	15.04	12.93	8.55	14.99	13.96	13.12	10.59	8.39	15.01	16.72	14.76	10.69	8.39	15.01	13.45	17
18	8.81	15.67	15.65	13.44	8.80	15.60	14.52	13.64	10.93	8.63	15.62	17.40	15.38	11.04	8.63	15.62	13.97	18
19	9.04	16.25	16.23	13.91	9.03	16.17	15.04	14.13	11.25	8.85	16.19	18.04	15.96	11.37	8.85	16.19	14.45	19
20	9.25	16.78	16.76	14.35	9.24	16.70	15.52	14.58	11.55	9.06	16.72	18.63	16.50	11.68	9.06	16.72	14.90	20
21	9.45	17.28	17.26	14.77	9.44	17.20	15.98	15.00	11.83	9.26	17.22	19.19	17.01	11.96	9.26	17.22	15.32	21
22	9.64	17.75	17.73	15.15	9.63	17.67	16.40	15.40	12.09	9.44	17.69	19.70	17.48	12.23	9.44	17.69	15.71	22
23	9.81	18.19	18.17	15.51	9.80	18.10	16.80	15.77	12.34	9.61	18.12	20.19	17.92	12.48	9.61	18.12	16.08	23
24	9.98	18.60	18.58	15.85	9.97	18.51	17.17	16.12	12.56	9.77	18.53	20.64	18.34	12.72	9.77	18.53	16.42	24
25	10.13	18.98	18.96	16.16	10.12	18.89	17.52	16.44	12.78	9.92	18.91	21.07	18.72	12.94	9.92	18.91	16.74	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASOLINE = Gasoline.

TABLE B-6a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL¹
 DISCOUNT RATE = 7 PERCENT
 DoE Region 6 (Texas, New Mexico, Oklahoma, Arkansas, Louisiana)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASOLINE	N
1	0.94	0.97	0.97	0.94	0.94	0.97	0.94	0.93	0.94	0.94	0.97	1.05	0.94	0.95	0.97	1
2	1.82	1.93	1.93	1.76	1.82	1.92	1.86	1.79	1.83	1.83	1.93	2.08	1.88	1.84	1.90	2
3	2.65	2.86	2.86	2.55	2.65	2.86	2.75	2.60	2.66	2.66	2.86	3.10	2.82	2.69	2.80	3
4	3.43	3.77	3.77	3.31	3.43	3.76	3.60	3.39	3.46	3.46	3.77	4.09	3.75	3.49	3.65	4
5	4.15	4.69	4.68	4.07	4.15	4.68	4.46	4.18	4.21	4.21	4.69	5.09	4.73	4.27	4.49	5
6	4.83	5.64	5.63	4.83	4.83	5.62	5.34	4.97	4.93	4.93	5.63	6.14	5.74	5.04	5.35	6
7	5.48	6.60	6.59	5.60	5.48	6.59	6.24	5.77	5.61	5.61	6.59	7.24	6.80	5.78	6.21	7
8	6.10	7.57	7.56	6.37	6.10	7.55	7.14	6.58	6.26	6.26	7.56	8.35	7.91	6.49	7.07	8
9	6.69	8.53	8.51	7.13	6.69	8.50	8.03	7.38	6.86	6.86	8.52	9.45	9.04	7.16	7.91	9
10	7.25	9.47	9.45	7.89	7.25	9.44	8.90	8.17	7.43	7.43	9.45	10.53	10.17	7.80	8.72	10
11	7.77	10.38	10.36	8.62	7.78	10.35	9.73	8.94	7.97	7.97	10.36	11.57	11.28	8.40	9.50	11
12	8.28	11.27	11.24	9.34	8.29	11.23	10.54	9.70	8.47	8.47	11.24	12.55	12.38	8.96	10.24	12
13	8.75	12.12	12.09	10.04	8.76	12.08	11.33	10.44	8.94	8.94	12.10	13.51	13.46	9.49	10.96	13
14	9.19	12.93	12.89	10.69	9.21	12.88	12.06	11.12	9.38	9.38	12.90	14.40	14.47	9.99	11.63	14
15	9.61	13.68	13.64	11.30	9.62	13.63	12.74	11.77	9.79	9.79	13.64	15.24	15.42	10.45	12.26	15
16	9.99	14.38	14.34	11.88	10.01	14.33	13.38	12.37	10.18	10.18	14.34	16.02	16.30	10.88	12.84	16
17	10.36	15.03	14.99	12.41	10.37	14.98	13.98	12.93	10.54	10.54	15.00	16.75	17.12	11.29	13.39	17
18	10.69	15.65	15.60	12.91	10.71	15.59	14.53	13.46	10.87	10.87	15.61	17.43	17.90	11.66	13.90	18
19	11.01	16.22	16.17	13.38	11.03	16.16	15.06	13.95	11.19	11.19	16.18	18.07	18.62	12.02	14.37	19
20	11.31	16.75	16.70	13.81	11.33	16.70	15.54	14.41	11.48	11.48	16.71	18.66	19.29	12.35	14.82	20
21	11.58	17.25	17.20	14.22	11.60	17.19	16.00	14.83	11.75	11.75	17.21	19.22	19.92	12.65	15.24	21
22	11.84	17.72	17.67	14.60	11.86	17.66	16.42	15.24	12.01	12.01	17.67	19.74	20.51	12.94	15.63	22
23	12.08	18.16	18.10	14.96	12.10	18.09	16.82	15.61	12.25	12.25	18.11	20.22	21.06	13.21	15.99	23
24	12.31	18.56	18.51	15.29	12.33	18.50	17.19	15.96	12.47	12.47	18.51	20.68	21.57	13.46	16.33	24
25	12.52	18.94	18.89	15.60	12.54	18.88	17.54	16.29	12.68	12.68	18.89	21.10	22.06	13.70	16.65	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASOLINE = Gasoline.

TABLE B-7a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
BY END-USE SECTOR AND MAJOR FUEL¹

DISCOUNT RATE = 7 PERCENT

DoE Region 7 (Kansas, Missouri, Iowa, Nebraska)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.92	0.97	0.97	0.93	0.92	0.97	0.94	0.93	0.93	0.92	0.97	1.04	0.91	0.93	0.97	1
2	1.76	1.93	1.93	1.84	1.76	1.93	1.86	1.85	1.81	1.76	1.93	2.07	1.82	1.81	1.90	2
3	2.53	2.86	2.86	2.73	2.53	2.86	2.75	2.75	2.62	2.52	2.86	3.08	2.73	2.64	2.80	3
4	3.23	3.77	3.77	3.61	3.22	3.77	3.60	3.63	3.39	3.21	3.77	4.06	3.65	3.41	3.65	4
5	3.87	4.69	4.69	4.50	3.86	4.69	4.47	4.54	4.12	3.84	4.68	5.05	4.61	4.14	4.50	5
6	4.46	5.63	5.63	5.38	4.45	5.63	5.35	5.45	4.82	4.42	5.63	6.09	5.58	4.84	5.35	6
7	5.01	6.60	6.60	6.26	5.00	6.60	6.25	6.36	5.48	4.96	6.59	7.18	6.56	5.49	6.21	7
8	5.53	7.57	7.57	7.13	5.51	7.56	7.15	7.26	6.10	5.47	7.56	8.27	7.55	6.11	7.07	8
9	6.01	8.53	8.53	8.00	6.00	8.52	8.04	8.17	6.68	5.95	8.51	9.36	8.53	6.70	7.91	9
10	6.47	9.47	9.47	8.86	6.46	9.45	8.91	9.06	7.23	6.40	9.45	10.43	9.52	7.25	8.73	10
11	6.91	10.39	10.38	9.69	6.89	10.36	9.75	9.93	7.75	6.83	10.36	11.46	10.49	7.79	9.51	11
12	7.32	11.27	11.27	10.50	7.30	11.24	10.56	10.78	8.23	7.24	11.24	12.43	11.44	8.28	10.25	12
13	7.71	12.13	12.12	11.29	7.69	12.09	11.34	11.60	8.68	7.62	12.10	13.38	12.36	8.75	10.97	13
14	8.07	12.93	12.93	12.03	8.05	12.90	12.08	12.37	9.10	7.98	12.90	14.27	13.22	9.19	11.64	14
15	8.40	13.68	13.68	12.71	8.38	13.64	12.76	13.08	9.49	8.31	13.64	15.09	14.02	9.60	12.27	15
16	8.72	14.39	14.38	13.35	8.70	14.34	13.40	13.75	9.86	8.62	14.34	15.87	14.77	9.98	12.86	16
17	9.01	15.04	15.03	13.95	8.99	15.00	14.00	14.38	10.20	8.91	15.00	16.59	15.47	10.34	13.41	17
18	9.29	15.66	15.65	14.52	9.27	15.61	14.56	14.97	10.52	9.19	15.61	17.27	16.13	10.67	13.92	18
19	9.54	16.23	16.22	15.04	9.52	16.18	15.08	15.51	10.82	9.44	16.18	17.90	16.74	10.99	14.40	19
20	9.78	16.76	16.75	15.53	9.76	16.71	15.57	16.02	11.10	9.68	16.71	18.49	17.31	11.28	14.84	20
21	10.01	17.26	17.25	15.99	9.99	17.21	16.03	16.50	11.36	9.90	17.21	19.04	17.85	11.55	15.26	21
22	10.22	17.73	17.72	16.42	10.20	17.68	16.45	16.95	11.60	10.11	17.68	19.55	18.35	11.80	15.65	22
23	10.41	18.17	18.16	16.82	10.39	18.11	16.85	17.37	11.83	10.30	18.12	20.04	18.82	12.04	16.02	23
24	10.60	18.58	18.56	17.19	10.57	18.52	17.23	17.76	12.04	10.48	18.52	20.49	19.25	12.27	16.36	24
25	10.77	18.96	18.94	17.54	10.75	18.90	17.57	18.12	12.24	10.65	18.90	20.91	19.66	12.47	16.68	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASLINE = Gasoline.

TABLE B-8a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
BY END-USE SECTOR AND MAJOR FUEL¹

DISCOUNT RATE = 7 PERCENT

DoE Region 8 (Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.90	0.97	0.97	0.91	0.90	0.97	0.94	0.91	0.93	0.90	0.97	1.06	0.90	0.94	0.97	1
2	1.72	1.93	1.93	1.80	1.72	1.93	1.86	1.78	1.81	1.71	1.93	2.10	1.80	1.82	1.90	2
3	2.47	2.87	2.86	2.66	2.46	2.86	2.75	2.62	2.63	2.44	2.86	3.13	2.69	2.64	2.79	3
4	3.15	3.78	3.77	3.49	3.14	3.78	3.60	3.44	3.40	3.11	3.77	4.13	3.58	3.42	3.65	4
5	3.76	4.69	4.69	4.33	3.75	4.69	4.47	4.26	4.13	3.70	4.69	5.15	4.51	4.15	4.49	5
6	4.32	5.64	5.63	5.15	4.31	5.64	5.35	5.08	4.81	4.24	5.63	6.21	5.47	4.84	5.35	6
7	4.86	6.61	6.60	5.97	4.84	6.60	6.25	5.89	5.45	4.76	6.60	7.32	6.45	5.48	6.21	7
8	5.37	7.58	7.57	6.78	5.35	7.57	7.15	6.69	6.05	5.26	7.57	8.44	7.44	6.09	7.07	8
9	5.85	8.54	8.53	7.59	5.82	8.52	8.04	7.51	6.62	5.73	8.52	9.55	8.46	6.66	7.92	9
10	6.30	9.48	9.48	8.40	6.28	9.46	8.91	8.32	7.15	6.17	9.46	10.64	9.48	7.20	8.73	10
11	6.72	10.40	10.39	9.16	6.70	10.36	9.75	9.09	7.66	6.58	10.37	11.70	10.46	7.71	9.52	11
12	7.11	11.28	11.27	9.89	7.09	11.25	10.56	9.82	8.13	6.97	11.25	12.69	11.41	8.18	10.27	12
13	7.47	12.14	12.13	10.61	7.45	12.10	11.34	10.55	8.57	7.32	12.11	13.66	12.34	8.63	10.99	13
14	7.81	12.95	12.93	11.28	7.79	12.90	12.08	11.22	8.98	7.65	12.91	14.56	13.21	9.04	11.66	14
15	8.13	13.70	13.69	11.90	8.10	13.65	12.76	11.85	9.37	7.96	13.66	15.41	14.02	9.43	12.29	15
16	8.43	14.40	14.39	12.49	8.40	14.35	13.40	12.44	9.73	8.25	14.36	16.19	14.79	9.79	12.88	16
17	8.70	15.06	15.04	13.03	8.67	15.00	14.00	12.99	10.07	8.52	15.02	16.93	15.50	10.13	13.43	17
18	8.96	15.67	15.66	13.54	8.93	15.61	14.56	13.51	10.38	8.77	15.63	17.62	16.16	10.45	13.94	18
19	9.20	16.25	16.23	14.02	9.17	16.19	15.08	13.99	10.68	9.01	16.20	18.26	16.78	10.74	14.42	19
20	9.43	16.78	16.76	14.46	9.40	16.72	15.57	14.44	10.96	9.23	16.74	18.86	17.36	11.02	14.87	20
21	9.64	17.29	17.26	14.88	9.61	17.22	16.03	14.86	11.21	9.44	17.24	19.43	17.91	11.28	15.29	21
22	9.84	17.75	17.73	15.27	9.80	17.68	16.45	15.25	11.45	9.63	17.70	19.95	18.41	11.52	15.69	22
23	10.02	18.19	18.17	15.63	9.99	18.12	16.85	15.62	11.68	9.81	18.14	20.44	18.89	11.75	16.05	23
24	10.20	18.60	18.58	15.97	10.16	18.53	17.23	15.96	11.89	9.98	18.55	20.90	19.33	11.96	16.39	24
25	10.36	18.98	18.96	16.29	10.32	18.91	17.57	16.28	12.09	10.13	18.93	21.33	19.74	12.16	16.72	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASLINE = Gasoline.

TABLE B-9a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
BY END-USE SECTOR AND MAJOR FUEL¹

DISCOUNT RATE = 7 PERCENT

DoE Region 9 (California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION								
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.92	0.97	0.97	0.93	0.92	0.97	0.94	0.90	0.93	0.91	0.97	0.94	0.89	0.93	0.97	0.97	0.94	0.89	0.93	0.97	1
2	1.74	1.93	1.93	1.81	1.74	1.93	1.86	1.73	1.80	1.74	1.92	1.85	1.75	1.81	1.92	1.92	1.85	1.75	1.81	1.90	2
3	2.50	2.86	2.87	2.67	2.49	2.86	2.75	2.51	2.62	2.48	2.85	2.74	2.58	2.62	2.85	2.85	2.74	2.58	2.62	2.80	3
4	3.18	3.77	3.78	3.50	3.18	3.77	3.60	3.25	3.38	3.16	3.76	3.59	3.39	3.38	3.76	3.76	3.59	3.39	3.38	3.65	4
5	3.79	4.69	4.69	4.33	3.79	4.69	4.46	3.96	4.10	3.77	4.68	4.45	4.20	4.09	4.68	4.68	4.45	4.20	4.09	4.50	5
6	4.35	5.63	5.64	5.15	4.35	5.63	5.34	4.66	4.78	4.32	5.62	5.33	5.01	4.76	5.62	5.62	5.33	5.01	4.76	5.35	6
7	4.88	6.60	6.60	5.96	4.87	6.59	6.24	5.33	5.42	4.84	6.58	6.23	5.83	5.38	6.58	6.58	6.23	5.83	5.38	6.22	7
8	5.37	7.57	7.58	6.77	5.36	7.56	7.14	6.00	6.02	5.32	7.55	7.13	6.66	5.96	7.55	7.55	7.13	6.66	5.96	7.08	8
9	5.84	8.54	8.54	7.57	5.83	8.51	8.03	6.65	6.58	5.78	8.50	8.02	7.48	6.51	8.50	8.50	8.02	7.48	6.51	7.92	9
10	6.27	9.48	9.48	8.36	6.26	9.44	8.89	7.28	7.11	6.21	9.44	8.88	8.29	7.02	9.44	9.44	8.88	8.29	7.02	8.74	10
11	6.68	10.39	10.39	9.12	6.67	10.35	9.73	7.88	7.60	6.62	10.34	9.71	9.07	7.51	10.34	10.34	9.71	9.07	7.51	9.52	11
12	7.07	11.27	11.27	9.87	7.07	11.23	10.53	8.48	8.06	7.01	11.22	10.52	9.86	7.96	11.22	11.22	10.52	9.86	7.96	10.27	12
13	7.44	12.13	12.13	10.60	7.43	12.08	11.31	9.04	8.50	7.37	12.08	11.30	10.62	8.38	12.08	12.08	11.30	10.62	8.38	10.99	13
14	7.79	12.94	12.93	11.27	7.78	12.88	12.05	9.56	8.90	7.71	12.88	12.03	11.34	8.78	12.88	12.88	12.03	11.34	8.78	11.66	14
15	8.11	13.69	13.69	11.90	8.10	13.63	12.73	10.05	9.28	8.03	13.62	12.71	12.00	9.15	13.62	13.62	12.71	12.00	9.15	12.29	15
16	8.41	14.39	14.39	12.49	8.40	14.33	13.37	10.51	9.63	8.33	14.32	13.35	12.62	9.49	14.32	14.32	13.35	12.62	9.49	12.88	16
17	8.69	15.05	15.04	13.05	8.68	14.98	13.96	10.94	9.97	8.60	14.97	13.95	13.20	9.81	14.97	14.97	13.95	13.20	9.81	13.43	17
18	8.95	15.66	15.66	13.56	8.94	15.59	14.52	11.34	10.27	8.86	15.58	14.50	13.74	10.12	15.58	15.58	14.50	13.74	10.12	13.94	18
19	9.19	16.24	16.23	14.04	9.18	16.16	15.04	11.72	10.56	9.11	16.15	15.02	14.25	10.40	16.15	16.15	15.02	14.25	10.40	14.42	19
20	9.42	16.77	16.76	14.49	9.41	16.69	15.53	12.06	10.83	9.33	16.68	15.51	14.72	10.66	16.68	16.68	15.51	14.72	10.66	14.87	20
21	9.64	17.27	17.26	14.92	9.62	17.19	15.98	12.39	11.09	9.54	17.18	15.96	15.17	10.91	17.18	17.18	15.96	15.17	10.91	15.29	21
22	9.84	17.74	17.73	15.31	9.82	17.65	16.40	12.70	11.32	9.74	17.65	16.39	15.58	11.14	17.65	17.65	16.39	15.58	11.14	15.68	22
23	10.02	18.18	18.17	15.68	10.01	18.09	16.80	12.98	11.54	9.93	18.08	16.79	15.97	11.35	18.08	18.08	16.79	15.97	11.35	16.05	23
24	10.20	18.59	18.58	16.02	10.18	18.49	17.17	13.25	11.75	10.10	18.49	17.16	16.33	11.55	18.49	18.49	17.16	16.33	11.55	16.39	24
25	10.36	18.97	18.96	16.34	10.35	18.87	17.52	13.50	11.94	10.26	18.87	17.50	16.67	11.74	18.87	18.87	17.50	16.67	11.74	16.71	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASLINE = Gasoline.

TABLE B-10a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL¹

DISCOUNT RATE = 7 PERCENT

DoE Region 10 (Washington, Oregon, Idaho, Alaska)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.94	0.97	0.97	1.00	0.94	0.97	0.93	1.03	0.93	0.95	0.97	0.93	1.30	0.93	0.97	1
2	1.82	1.93	1.93	2.02	1.82	1.93	1.84	2.05	1.80	1.82	1.93	1.84	2.58	1.81	1.90	2
3	2.64	2.87	2.86	2.99	2.64	2.86	2.72	3.04	2.61	2.64	2.86	2.71	3.85	2.63	2.80	3
4	3.40	3.78	3.77	3.92	3.40	3.77	3.57	3.98	3.37	3.40	3.77	3.56	5.10	3.44	3.65	4
5	4.11	4.70	4.68	4.83	4.11	4.69	4.41	4.92	4.08	4.11	4.69	4.41	6.37	4.20	4.50	5
6	4.77	5.64	5.63	5.72	4.77	5.64	5.28	5.85	4.75	4.77	5.63	5.27	7.65	4.92	5.35	6
7	5.39	6.61	6.60	6.59	5.39	6.60	6.16	6.76	5.37	5.38	6.59	6.15	8.94	5.61	6.22	7
8	5.98	7.59	7.57	7.43	5.98	7.57	7.04	7.66	5.95	5.98	7.56	7.03	10.22	6.28	7.08	8
9	6.54	8.55	8.53	8.27	6.54	8.52	7.91	8.57	6.50	6.55	8.52	7.90	11.54	6.93	7.92	9
10	7.08	9.50	9.47	9.08	7.08	9.46	8.76	9.45	7.01	7.10	9.45	8.75	12.84	7.62	8.74	10
11	7.60	10.41	10.38	9.85	7.60	10.37	9.57	10.28	7.50	7.62	10.36	9.56	14.08	8.35	9.53	11
12	8.09	11.30	11.26	10.58	8.09	11.25	10.36	11.07	7.95	8.12	11.24	10.35	15.27	9.03	10.28	12
13	8.57	12.16	12.12	11.28	8.57	12.11	11.13	11.84	8.37	8.63	12.10	11.11	16.43	9.67	11.00	13
14	9.03	12.96	12.92	11.94	9.03	12.91	11.84	12.57	8.77	9.10	12.90	11.83	17.52	10.26	11.67	14
15	9.45	13.72	13.67	12.55	9.45	13.66	12.51	13.24	9.13	9.54	13.65	12.49	18.54	10.82	12.30	15
16	9.85	14.42	14.38	13.12	9.85	14.36	13.13	13.87	9.48	9.95	14.35	13.12	19.49	11.34	12.89	16
17	10.22	15.08	15.03	13.66	10.22	15.01	13.71	14.46	9.80	10.33	15.00	13.70	20.38	11.82	13.44	17
18	10.57	15.69	15.64	14.16	10.57	15.62	14.25	15.01	10.10	10.69	15.61	14.24	21.21	12.28	13.95	18
19	10.89	16.27	16.22	14.63	10.89	16.19	14.76	15.52	10.39	11.03	16.18	14.75	21.98	12.70	14.44	19
20	11.19	16.80	16.75	15.07	11.19	16.73	15.24	16.00	10.65	11.34	16.72	15.22	22.71	13.10	14.88	20
21	11.48	17.30	17.25	15.48	11.48	17.23	15.68	16.45	10.89	11.64	17.22	15.67	23.39	13.47	15.30	21
22	11.74	17.77	17.72	15.86	11.74	17.69	16.10	16.87	11.12	11.91	17.68	16.08	24.02	13.81	15.70	22
23	11.99	18.21	18.15	16.22	11.99	18.13	16.49	17.26	11.34	12.17	18.12	16.47	24.61	14.13	16.06	23
24	12.22	18.62	18.56	16.55	12.22	18.54	16.85	17.63	11.54	12.41	18.52	16.83	25.17	14.44	16.41	24
25	12.43	19.00	18.94	16.86	12.44	18.92	17.19	17.97	11.73	12.63	18.90	17.17	25.68	14.72	16.73	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASLINE = Gasoline.

TABLE B-11a. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL¹
 DISCOUNT RATE = 7 PERCENT
 United States Average

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.92	0.97	0.97	0.93	0.93	0.97	0.94	0.92	0.94	0.92	0.97	1.00	0.93	0.95	0.97	1
2	1.77	1.93	1.93	1.81	1.77	1.93	1.86	1.80	1.82	1.77	1.93	1.97	1.86	1.83	1.90	2
3	2.54	2.87	2.86	2.66	2.55	2.86	2.75	2.65	2.66	2.54	2.86	2.92	2.78	2.68	2.79	3
4	3.26	3.78	3.77	3.49	3.27	3.77	3.61	3.47	3.45	3.25	3.77	3.84	3.69	3.49	3.65	4
5	3.90	4.70	4.69	4.30	3.91	4.68	4.47	4.29	4.21	3.88	4.68	4.77	4.63	4.26	4.49	5
6	4.49	5.64	5.63	5.10	4.50	5.62	5.35	5.09	4.92	4.47	5.62	5.74	5.59	5.00	5.34	6
7	5.04	6.61	6.60	5.90	5.05	6.59	6.25	5.89	5.61	5.01	6.59	6.73	6.56	5.71	6.21	7
8	5.56	7.59	7.57	6.68	5.56	7.55	7.15	6.69	6.26	5.51	7.55	7.73	7.56	6.39	7.07	8
9	6.04	8.55	8.53	7.45	6.05	8.51	8.04	7.47	6.87	5.99	8.51	8.72	8.57	7.03	7.91	9
10	6.50	9.50	9.47	8.21	6.50	9.44	8.91	8.24	7.44	6.44	9.44	9.69	9.57	7.64	8.72	10
11	6.93	10.42	10.38	8.94	6.93	10.35	9.74	8.98	7.99	6.87	10.35	10.62	10.55	8.22	9.51	11
12	7.33	11.31	11.27	9.65	7.34	11.23	10.55	9.70	8.50	7.27	11.23	11.51	11.50	8.76	10.25	12
13	7.72	12.17	12.12	10.33	7.72	12.09	11.33	10.40	8.98	7.64	12.08	12.37	12.45	9.27	10.97	13
14	8.07	12.98	12.93	10.97	8.08	12.89	12.07	11.05	9.42	8.00	12.88	13.18	13.33	9.75	11.64	14
15	8.41	13.73	13.68	11.57	8.41	13.64	12.75	11.66	9.84	8.33	13.63	13.93	14.15	10.20	12.27	15
16	8.72	14.44	14.38	12.13	8.72	14.34	13.39	12.23	10.23	8.64	14.33	14.64	14.92	10.62	12.86	16
17	9.01	15.10	15.03	12.66	9.01	14.99	13.98	12.77	10.60	8.93	14.98	15.29	15.64	11.01	13.40	17
18	9.28	15.71	15.65	13.15	9.29	15.60	14.54	13.27	10.94	9.19	15.59	15.91	16.31	11.38	13.92	18
19	9.54	16.29	16.22	13.60	9.54	16.17	15.06	13.73	11.26	9.45	16.16	16.48	16.94	11.72	14.40	19
20	9.78	16.83	16.75	14.03	9.78	16.71	15.55	14.17	11.56	9.68	16.70	17.02	17.53	12.04	14.84	20
21	10.00	17.33	17.25	14.43	10.00	17.20	16.00	14.58	11.84	9.90	17.19	17.52	18.08	12.34	15.26	21
22	10.21	17.80	17.72	14.80	10.21	17.67	16.43	14.96	12.10	10.11	17.66	17.99	18.59	12.62	15.65	22
23	10.40	18.24	18.16	15.15	10.40	18.11	16.83	15.31	12.34	10.30	18.09	18.43	19.07	12.88	16.02	23
24	10.58	18.65	18.57	15.48	10.59	18.51	17.20	15.65	12.57	10.48	18.50	18.84	19.51	13.12	16.36	24
25	10.75	19.03	18.95	15.78	10.76	18.89	17.55	15.96	12.78	10.65	18.88	19.22	19.93	13.35	16.68	25

¹ELEC = Electricity; DIST = Distillate; LPG = Liquefied Petroleum Gas; NATGAS = Natural Gas; RESID = Residual; COAL = Steam Coal and GASLINE = Gasoline.

TABLE B-1b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT
 DoE Region 1 (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island)

N	RESIDENTIAL					COMMERCIAL					INDUSTRIAL					TRANSPORTATION		
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	GASLINE	N
1	0.94	0.95	0.95	0.90	0.94	0.95	0.91	0.91	0.92	0.94	0.94	0.92	0.84	0.93	0.94	0.94	0.94	1
2	1.77	1.85	1.85	1.77	1.77	1.85	1.78	1.79	1.77	1.77	1.85	1.78	1.69	1.78	1.77	1.85	1.82	2
3	2.51	2.71	2.71	2.58	2.51	2.71	2.60	2.61	2.55	2.51	2.71	2.60	2.51	2.57	2.51	2.71	2.65	3
4	3.16	3.53	3.52	3.33	3.16	3.52	3.36	3.38	3.27	3.15	3.52	3.37	3.30	3.30	3.15	3.52	3.41	4
5	3.72	4.32	4.32	4.04	3.72	4.32	4.11	4.11	3.95	3.72	4.32	4.12	4.10	3.98	3.72	4.32	4.14	5
6	4.22	5.13	5.12	4.73	4.22	5.12	4.85	4.82	4.57	4.21	5.12	4.86	4.89	4.61	4.21	5.12	4.87	6
7	4.68	5.92	5.92	5.36	4.68	5.91	5.59	5.49	5.15	4.66	5.91	5.60	5.65	5.20	4.66	5.91	5.58	7
8	5.09	6.71	6.70	5.97	5.09	6.69	6.31	6.12	5.69	5.06	6.69	6.33	6.39	5.75	5.06	6.69	6.27	8
9	5.46	7.46	7.45	6.54	5.46	7.44	7.00	6.72	6.19	5.43	7.43	7.02	7.09	6.25	5.43	7.43	6.92	9
10	5.79	8.17	8.16	7.07	5.79	8.15	7.66	7.28	6.64	5.76	8.14	7.68	7.77	6.72	5.76	8.14	7.54	10
11	6.10	8.85	8.84	7.57	6.09	8.82	8.27	7.81	7.06	6.06	8.81	8.30	8.40	7.15	6.06	8.81	8.12	11
12	6.38	9.48	9.47	8.03	6.37	9.45	8.85	8.30	7.44	6.33	9.45	8.88	9.00	7.54	6.33	9.45	8.66	12
13	6.63	10.08	10.07	8.46	6.63	10.05	9.40	8.76	7.80	6.59	10.04	9.42	9.58	7.91	6.59	10.04	9.16	13
14	6.87	10.63	10.62	8.86	6.87	10.59	9.89	9.18	8.11	6.82	10.59	9.92	10.10	8.24	6.82	10.59	9.61	14
15	7.08	11.13	11.11	9.22	7.08	11.09	10.34	9.57	8.40	7.03	11.08	10.37	10.58	8.54	7.03	11.08	10.03	15
16	7.27	11.58	11.56	9.55	7.27	11.54	10.75	9.92	8.67	7.22	11.53	10.78	11.01	8.81	7.22	11.53	10.41	16
17	7.45	11.99	11.97	9.84	7.45	11.95	11.12	10.24	8.91	7.39	11.94	11.16	11.41	9.05	7.39	11.94	10.75	17
18	7.61	12.37	12.35	10.11	7.61	12.32	11.46	10.52	9.12	7.55	12.31	11.50	11.77	9.28	7.55	12.31	11.06	18
19	7.75	12.70	12.68	10.36	7.75	12.66	11.77	10.79	9.32	7.70	12.65	11.80	12.09	9.48	7.70	12.65	11.34	19
20	7.89	13.01	12.99	10.58	7.89	12.97	12.05	11.03	9.50	7.83	12.96	12.08	12.39	9.67	7.83	12.96	11.60	20
21	8.01	13.29	13.27	10.79	8.01	13.25	12.30	11.24	9.66	7.95	13.23	12.34	12.66	9.84	7.95	13.23	11.84	21
22	8.12	13.55	13.53	10.97	8.11	13.50	12.54	11.44	9.81	8.05	13.49	12.57	12.90	9.99	8.05	13.49	12.05	22
23	8.22	13.78	13.76	11.14	8.21	13.73	12.75	11.62	9.95	8.15	13.72	12.78	13.12	10.13	8.15	13.72	12.24	23
24	8.31	13.99	13.97	11.29	8.30	13.94	12.94	11.78	10.07	8.24	13.93	12.97	13.33	10.26	8.24	13.93	12.42	24
25	8.39	14.18	14.16	11.43	8.39	14.13	13.11	11.93	10.18	8.32	14.12	13.15	13.51	10.37	8.32	14.12	12.58	25
*** Extended Series ***																		
26	8.46	14.36	14.33	11.56	8.46	14.30	13.27	12.06	10.28	8.40	14.29	13.31	13.68	10.48	8.40	14.29	12.72	26
27	8.53	14.52	14.49	11.67	8.53	14.46	13.41	12.19	10.38	8.46	14.45	13.45	13.83	10.57	8.46	14.45	12.86	27
28	8.59	14.66	14.64	11.78	8.59	14.61	13.54	12.30	10.46	8.52	14.59	13.58	13.97	10.66	8.52	14.59	12.98	28
29	8.65	14.79	14.77	11.87	8.65	14.74	13.66	12.40	10.54	8.58	14.72	13.70	14.09	10.74	8.58	14.72	13.09	29
30	8.70	14.91	14.88	11.96	8.70	14.85	13.77	12.49	10.61	8.63	14.84	13.81	14.21	10.81	8.63	14.84	13.18	30

TABLE B-2b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT
 DoE Region 2 (New York, New Jersey, Puerto Rico, Virgin Islands)

N	RESIDENTIAL					COMMERCIAL					INDUSTRIAL					TRANSPORTATION	
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N	
1	0.93	0.95	0.95	0.90	0.93	0.95	0.92	0.90	0.92	0.93	0.94	0.92	0.86	0.91	0.94	1	
2	1.76	1.85	1.85	1.74	1.76	1.85	1.78	1.74	1.76	1.77	1.85	1.78	1.69	1.75	1.82	2	
3	2.51	2.71	2.71	2.52	2.52	2.71	2.60	2.52	2.53	2.52	2.70	2.60	2.48	2.52	2.65	3	
4	3.18	3.53	3.52	3.24	3.18	3.53	3.37	3.26	3.24	3.18	3.52	3.37	3.24	3.24	3.41	4	
5	3.76	4.33	4.32	3.93	3.76	4.33	4.12	3.97	3.90	3.75	4.31	4.12	3.98	3.90	4.14	5	
6	4.27	5.13	5.12	4.57	4.27	5.13	4.87	4.64	4.50	4.25	5.11	4.87	4.70	4.51	4.87	6	
7	4.74	5.93	5.92	5.18	4.73	5.92	5.61	5.28	5.06	4.71	5.90	5.61	5.39	5.08	5.58	7	
8	5.16	6.71	6.70	5.76	5.16	6.70	6.33	5.90	5.58	5.12	6.68	6.33	6.07	5.61	6.27	8	
9	5.56	7.46	7.45	6.31	5.55	7.45	7.03	6.49	6.06	5.51	7.42	7.03	6.72	6.10	6.92	9	
10	5.92	8.18	8.17	6.83	5.91	8.16	7.69	7.05	6.49	5.86	8.13	7.69	7.35	6.54	7.54	10	
11	6.25	8.86	8.84	7.32	6.24	8.83	8.30	7.58	6.89	6.19	8.80	8.31	7.94	6.96	8.12	11	
12	6.55	9.49	9.48	7.78	6.55	9.47	8.88	8.08	7.26	6.49	9.43	8.89	8.50	7.34	8.65	12	
13	6.84	10.10	10.08	8.20	6.83	10.07	9.43	8.55	7.59	6.77	10.03	9.43	9.04	7.69	9.15	13	
14	7.09	10.64	10.63	8.59	7.08	10.61	9.93	8.98	7.89	7.02	10.57	9.93	9.52	8.00	9.61	14	
15	7.32	11.14	11.12	8.95	7.31	11.11	10.38	9.37	8.17	7.25	11.07	10.38	9.96	8.29	10.02	15	
16	7.53	11.59	11.57	9.27	7.53	11.56	10.79	9.73	8.42	7.46	11.51	10.79	10.36	8.55	10.40	16	
17	7.73	12.00	11.98	9.56	7.72	11.97	11.17	10.05	8.64	7.65	11.92	11.17	10.73	8.79	10.74	17	
18	7.90	12.38	12.36	9.83	7.89	12.34	11.51	10.34	8.85	7.83	12.29	11.51	11.06	9.00	11.05	18	
19	8.06	12.72	12.70	10.07	8.05	12.68	11.82	10.61	9.04	7.98	12.63	11.82	11.36	9.20	11.33	19	
20	8.20	13.03	13.00	10.29	8.20	12.99	12.10	10.85	9.21	8.13	12.94	12.10	11.63	9.38	11.59	20	
21	8.34	13.31	13.28	10.49	8.33	13.27	12.35	11.07	9.36	8.26	13.22	12.35	11.88	9.54	11.82	21	
22	8.46	13.56	13.54	10.67	8.45	13.52	12.59	11.27	9.50	8.38	13.47	12.59	12.11	9.69	12.04	22	
23	8.56	13.80	13.77	10.84	8.55	13.76	12.80	11.46	9.63	8.48	13.70	12.80	12.31	9.82	12.23	23	
24	8.66	14.01	13.98	10.99	8.65	13.97	12.99	11.62	9.75	8.58	13.91	12.99	12.50	9.94	12.41	24	
25	8.75	14.20	14.17	11.12	8.74	14.16	13.16	11.77	9.86	8.67	14.10	13.16	12.67	10.06	12.56	25	
*** Extended Series ***																	
26	8.83	14.37	14.35	11.25	8.82	14.33	13.32	11.91	9.95	8.75	14.27	13.32	12.82	10.16	12.71	26	
27	8.91	14.53	14.50	11.36	8.90	14.49	13.47	12.03	10.04	8.83	14.43	13.47	12.96	10.25	12.84	27	
28	8.98	14.68	14.65	11.46	8.96	14.63	13.60	12.15	10.12	8.89	14.57	13.60	13.09	10.33	12.96	28	
29	9.04	14.81	14.78	11.56	9.03	14.76	13.72	12.25	10.19	8.95	14.70	13.72	13.21	10.41	13.07	29	
30	9.09	14.93	14.90	11.64	9.08	14.88	13.82	12.34	10.26	9.01	14.82	13.82	13.31	10.48	13.17	30	

TABLE B-3b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT

DoE Region 3 (Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware)

N	RESIDENTIAL					COMMERCIAL					INDUSTRIAL					TRANSPORTATION				
	ELEC	DIST	LPG	NATGAS	N	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	GASLINE	N	
1	0.89	0.95	0.95	0.90	0.90	0.89	0.95	0.92	0.90	0.91	0.89	0.94	0.91	0.87	0.92	0.89	0.94	0.94	1	
2	1.69	1.85	1.85	1.74	1.74	1.69	1.85	1.78	1.74	1.75	1.69	1.85	1.78	1.72	1.77	1.69	1.85	1.82	2	
3	2.41	2.71	2.71	2.52	2.52	2.41	2.71	2.60	2.52	2.52	2.39	2.71	2.60	2.52	2.55	2.39	2.71	2.65	3	
4	3.04	3.52	3.52	3.25	3.25	3.04	3.52	3.37	3.25	3.24	3.02	3.52	3.36	3.30	3.27	3.02	3.52	3.41	4	
5	3.60	4.32	4.32	3.94	3.94	3.60	4.32	4.12	3.95	3.90	3.57	4.32	4.11	4.06	3.94	3.57	4.32	4.15	5	
6	4.11	5.12	5.12	4.59	4.59	4.10	5.11	4.86	4.60	4.52	4.06	5.12	4.85	4.79	4.56	4.06	5.12	4.87	6	
7	4.57	5.92	5.92	5.20	5.20	4.56	5.91	5.60	5.21	5.09	4.52	5.91	5.59	5.49	5.14	4.52	5.91	5.59	7	
8	4.99	6.70	6.70	5.78	5.78	4.98	6.68	6.32	5.79	5.61	4.93	6.69	6.31	6.17	5.67	4.93	6.69	6.28	8	
9	5.38	7.45	7.45	6.33	6.33	5.38	7.43	7.02	6.35	6.09	5.32	7.43	7.00	6.83	6.17	5.32	7.43	6.93	9	
10	5.74	8.17	8.16	6.85	6.85	5.73	8.14	7.67	6.87	6.54	5.67	8.14	7.66	7.46	6.62	5.67	8.14	7.55	10	
11	6.06	8.84	8.84	7.34	7.34	6.06	8.81	8.29	7.36	6.94	5.99	8.81	8.27	8.06	7.05	5.99	8.81	8.13	11	
12	6.36	9.48	9.47	7.79	7.79	6.36	9.44	8.86	7.82	7.32	6.28	9.45	8.85	8.61	7.44	6.28	9.45	8.67	12	
13	6.64	10.08	10.07	8.21	8.21	6.64	10.04	9.41	8.25	7.66	6.56	10.04	9.40	9.14	7.79	6.56	10.04	9.17	13	
14	6.89	10.62	10.62	8.60	8.60	6.89	10.58	9.91	8.64	7.96	6.81	10.59	9.89	9.63	8.11	6.81	10.59	9.63	14	
15	7.12	11.12	11.11	8.95	8.95	7.12	11.07	10.36	9.00	8.24	7.04	11.08	10.34	10.07	8.41	7.04	11.08	10.04	15	
16	7.33	11.57	11.56	9.27	9.27	7.33	11.52	10.77	9.32	8.50	7.25	11.53	10.75	10.47	8.67	7.25	11.53	10.42	16	
17	7.52	11.98	11.97	9.56	9.56	7.52	11.93	11.14	9.61	8.73	7.44	11.94	11.12	10.83	8.92	7.44	11.94	10.76	17	
18	7.70	12.36	12.35	9.83	9.83	7.69	12.30	11.48	9.88	8.94	7.61	12.31	11.46	11.16	9.14	7.61	12.31	11.07	18	
19	7.85	12.70	12.68	10.07	10.07	7.85	12.64	11.78	10.12	9.13	7.77	12.65	11.77	11.46	9.34	7.77	12.65	11.36	19	
20	8.00	13.00	12.99	10.29	10.29	7.99	12.95	12.06	10.34	9.31	7.91	12.96	12.05	11.73	9.52	7.91	12.96	11.61	20	
21	8.13	13.28	13.27	10.49	10.49	8.12	13.22	12.32	10.54	9.47	8.04	13.24	12.30	11.98	9.69	8.04	13.24	11.85	21	
22	8.25	13.54	13.53	10.67	10.67	8.24	13.48	12.55	10.73	9.61	8.16	13.49	12.54	12.20	9.84	8.16	13.49	12.06	22	
23	8.35	13.77	13.76	10.83	10.83	8.35	13.71	12.76	10.89	9.74	8.27	13.72	12.75	12.41	9.97	8.27	13.72	12.26	23	
24	8.45	13.98	13.97	10.98	10.98	8.45	13.92	12.95	11.04	9.86	8.36	13.93	12.94	12.59	10.10	8.36	13.93	12.43	24	
25	8.54	14.17	14.16	11.11	11.11	8.54	14.11	13.12	11.18	9.97	8.45	14.12	13.11	12.76	10.21	8.45	14.12	12.59	25	
*** Extended Series ***																				
26	8.62	14.35	14.33	11.24	11.24	8.62	14.28	13.28	11.31	10.07	8.53	14.29	13.27	12.92	10.31	8.53	14.29	12.74	26	
27	8.69	14.50	14.49	11.35	11.35	8.69	14.44	13.43	11.42	10.15	8.60	14.45	13.41	13.06	10.41	8.60	14.45	12.87	27	
28	8.76	14.65	14.64	11.45	11.45	8.76	14.58	13.56	11.52	10.24	8.67	14.59	13.54	13.18	10.49	8.67	14.59	12.99	28	
29	8.82	14.78	14.77	11.54	11.54	8.82	14.71	13.68	11.62	10.31	8.73	14.72	13.66	13.30	10.57	8.73	14.72	13.10	29	
30	8.88	14.90	14.88	11.63	11.63	8.87	14.83	13.78	11.70	10.38	8.79	14.84	13.77	13.40	10.64	8.79	14.84	13.20	30	

TABLE B-4b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT

DoE Region 4 (Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone)

N	RESIDENTIAL					COMMERCIAL					INDUSTRIAL					TRANSPORTATION									
	ELEC	DIST	LPG	NATGAS	N	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	GASLINE	N	
1	0.87	0.95	0.95	0.91	0.91	0.87	0.94	0.91	0.91	0.92	0.86	0.95	1.02	0.87	0.92	0.86	0.95	1.02	0.87	0.92	0.92	0.86	0.95	0.94	1
2	1.64	1.85	1.85	1.75	1.77	1.64	1.85	1.77	1.75	1.76	1.63	1.85	1.99	1.71	1.77	1.63	1.85	1.99	1.71	1.77	1.77	1.63	1.85	1.82	2
3	2.33	2.71	2.71	2.54	2.58	2.33	2.70	2.58	2.55	2.55	2.31	2.71	2.92	2.53	2.56	2.31	2.71	2.92	2.53	2.56	2.56	2.31	2.71	2.65	3
4	2.95	3.53	3.52	3.29	3.34	2.95	3.52	3.34	3.29	3.28	2.92	3.52	3.80	3.31	3.30	2.92	3.52	3.80	3.31	3.30	3.30	2.92	3.52	3.41	4
5	3.49	4.33	4.32	4.01	4.09	3.49	4.31	4.09	4.02	3.97	3.45	4.32	4.67	4.11	3.99	3.45	4.32	4.67	4.11	3.99	3.99	3.45	4.32	4.14	5
6	3.97	5.13	5.12	4.71	4.82	3.97	5.11	4.82	4.73	4.61	3.92	5.11	5.56	4.90	4.64	3.92	5.11	5.56	4.90	4.64	4.64	3.92	5.11	4.86	6
7	4.39	5.93	5.92	5.39	5.55	4.40	5.91	5.55	5.41	5.21	4.34	5.91	6.45	5.69	5.25	4.34	5.91	6.45	5.69	5.25	5.25	4.34	5.91	5.57	7
8	4.78	6.71	6.70	6.04	6.27	4.78	6.68	6.27	6.08	5.77	4.72	6.68	7.34	6.47	5.82	4.72	6.68	7.34	6.47	5.82	5.82	4.72	6.68	6.26	8
9	5.12	7.46	7.45	6.68	6.95	5.13	7.42	6.95	6.73	6.28	5.05	7.43	8.19	7.23	6.33	5.05	7.43	8.19	7.23	6.33	6.33	5.05	7.43	6.91	9
10	5.44	8.18	8.16	7.28	7.60	5.45	8.13	7.60	7.34	6.74	5.36	8.14	9.00	7.98	6.81	5.36	8.14	9.00	7.98	6.81	6.81	5.36	8.14	7.53	10
11	5.72	8.85	8.84	7.85	8.20	5.73	8.80	8.20	7.92	7.17	5.64	8.81	9.76	8.68	7.25	5.64	8.81	9.76	8.68	7.25	7.25	5.64	8.81	8.11	11
12	5.98	9.49	9.47	8.39	8.77	5.99	9.43	8.77	8.47	7.56	5.89	9.44	10.46	9.35	7.65	5.89	9.44	10.46	9.35	7.65	7.65	5.89	9.44	8.64	12
13	6.22	10.09	10.07	8.90	9.31	6.23	10.03	9.31	9.00	7.92	6.12	10.04	11.13	10.00	8.02	6.12	10.04	11.13	10.00	8.02	8.02	6.12	10.04	9.14	13
14	6.44	10.64	10.61	9.37	9.80	6.44	10.57	9.80	9.48	8.25	6.33	10.58	11.73	10.60	8.35	6.33	10.58	11.73	10.60	8.35	8.35	6.33	10.58	9.59	14
15	6.63	11.14	11.11	9.80	10.24	6.64	11.06	10.24	9.92	8.55	6.52	11.07	12.28	11.14	8.66	6.52	11.07	12.28	11.14	8.66	8.66	6.52	11.07	10.01	15
16	6.81	11.59	11.56	10.18	10.65	6.82	11.51	10.65	10.32	8.82	6.70	11.52	12.77	11.63	8.93	6.70	11.52	12.77	11.63	8.93	8.93	6.70	11.52	10.38	16
17	6.97	12.00	11.97	10.53	11.01	6.98	11.92	11.01	10.68	9.06	6.86	11.93	13.23	12.07	9.19	6.86	11.93	13.23	12.07	9.19	9.19	6.86	11.93	10.73	17
18	7.12	12.37	12.34	10.85	11.35	7.13	12.29	11.35	11.01	9.28	7.00	12.30	13.64	12.48	9.41	7.00	12.30	13.64	12.48	9.41	9.41	7.00	12.30	11.04	18
19	7.25	12.71	12.68	11.14	11.65	7.26	12.63	11.65	11.31	9.49	7.13	12.64	14.01	12.85	9.62	7.13	12.64	14.01	12.85	9.62	9.62	7.13	12.64	11.32	19
20	7.37	13.02	12.99	11.41	11.92	7.39	12.93	11.92	11.58	9.67	7.25	12.95	14.35	13.18	9.81	7.25	12.95	14.35	13.18	9.81	9.81	7.25	12.95	11.57	20
21	7.49	13.30	13.27	11.65	12.18	7.50	13.21	12.18	11.82	9.84	7.36	13.23	14.66	13.49	9.98	7.36	13.23	14.66	13.49	9.98	9.98	7.36	13.23	11.81	21
22	7.59	13.56	13.52	11.87	12.40	7.60	13.46	12.40	12.05	9.99	7.45	13.48	14.94	13.77	10.14	7.45	13.48	14.94	13.77	10.14	10.14	7.45	13.48	12.02	22
23	7.68	13.79	13.76	12.06	12.61	7.69	13.69	12.61	12.25	10.13	7.54	13.71	15.20	14.02	10.28	7.54	13.71	15.20	14.02	10.28	10.28	7.54	13.71	12.21	23
24	7.76	14.00	13.97	12.24	12.80	7.77	13.90	12.80	12.44	10.26	7.62	13.92	15.43	14.25	10.41	7.62	13.92	15.43	14.25	10.41	10.41	7.62	13.92	12.39	24
25	7.84	14.19	14.16	12.41	12.97	7.85	14.09	12.97	12.61	10.37	7.70	14.11	15.64	14.45	10.53	7.70	14.11	15.64	14.45	10.53	10.53	7.70	14.11	12.55	25

26	7.90	14.37	14.33	12.56	13.13	7.92	14.27	13.13	12.76	10.47	7.77	14.28	15.83	14.64	10.63	7.77	14.28	15.83	14.64	10.63	10.63	7.77	14.28	12.69	26
27	7.97	14.53	14.49	12.69	13.27	7.98	14.42	13.27	12.90	10.57	7.83	14.44	16.01	14.82	10.73	7.83	14.44	16.01	14.82	10.73	10.73	7.83	14.44	12.82	27
28	8.02	14.67	14.63	12.82	13.40	8.04	14.57	13.40	13.02	10.65	7.88	14.58	16.17	14.97	10.82	7.88	14.58	16.17	14.97	10.82	10.82	7.88	14.58	12.94	28
29	8.08	14.80	14.76	12.93	13.51	8.09	14.70	13.51	13.14	10.73	7.93	14.71	16.31	15.11	10.90	7.93	14.71	16.31	15.11	10.90	10.90	7.93	14.71	13.05	29
30	8.12	14.92	14.88	13.03	13.62	8.13	14.81	13.62	13.24	10.80	7.98	14.83	16.44	15.24	10.97	7.98	14.83	16.44	15.24	10.97	10.97	7.98	14.83	13.15	30

*** Extended Series ***

TABLE B-5b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT

DoE Region 5 (Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio)

N	RESIDENTIAL					COMMERCIAL					INDUSTRIAL					TRANSPORTATION	
	ELEC	DIST	LPG	NATGAS	N	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASINE	N
1	0.91	0.95	0.95	0.90	0.90	0.91	0.95	0.91	0.90	0.91	0.91	0.95	1.02	0.90	0.91	0.94	1
2	1.71	1.85	1.85	1.74	1.74	1.78	1.85	1.78	1.73	1.74	1.71	1.85	2.00	1.75	1.74	1.82	2
3	2.42	2.71	2.71	2.53	2.53	2.60	2.71	2.60	2.52	2.51	2.41	2.71	2.93	2.56	2.51	2.65	3
4	3.04	3.53	3.53	3.27	3.27	3.36	3.52	3.36	3.26	3.22	3.03	3.53	3.81	3.36	3.21	3.41	4
5	3.59	4.32	4.32	4.00	4.00	4.11	4.32	4.11	4.00	3.87	3.56	4.32	4.69	4.15	3.87	4.15	5
6	4.06	5.12	5.12	4.69	4.69	4.85	5.12	4.85	4.70	4.48	4.02	5.12	5.58	4.92	4.47	4.87	6
7	4.48	5.92	5.92	5.36	5.36	5.60	5.91	5.60	5.38	5.04	4.43	5.92	6.48	5.69	5.04	5.59	7
8	4.86	6.70	6.70	6.01	6.01	6.32	6.69	6.32	6.04	5.56	4.80	6.69	7.36	6.45	5.56	6.28	8
9	5.21	7.45	7.45	6.63	6.63	7.01	7.43	7.01	6.68	6.04	5.14	7.44	8.22	7.18	6.04	6.94	9
10	5.53	8.17	8.16	7.22	7.22	7.67	8.14	7.67	7.28	6.48	5.44	8.15	9.04	7.88	6.49	7.56	10
11	5.82	8.84	8.83	7.77	7.77	8.28	8.81	8.28	7.84	6.88	5.72	8.82	9.80	8.55	6.90	8.14	11
12	6.08	9.48	9.47	8.29	8.29	8.86	9.44	8.86	8.38	7.25	5.98	9.45	10.51	9.18	7.27	8.68	12
13	6.32	10.08	10.07	8.79	8.79	9.41	10.04	9.41	8.89	7.58	6.22	10.05	11.18	9.79	7.62	9.18	13
14	6.54	10.62	10.61	9.24	9.24	9.90	10.58	9.90	9.35	7.89	6.43	10.60	11.78	10.34	7.93	9.64	14
15	6.74	11.12	11.11	9.65	9.65	10.36	11.08	10.36	9.77	8.16	6.62	11.09	12.33	10.84	8.21	10.06	15
16	6.92	11.57	11.56	10.02	10.02	10.76	11.52	10.76	10.15	8.41	6.80	11.54	12.83	11.30	8.47	10.44	16
17	7.09	11.98	11.97	10.36	10.36	11.14	11.93	11.14	10.50	8.64	6.96	11.95	13.29	11.71	8.71	10.78	17
18	7.24	12.36	12.34	10.66	10.66	11.48	12.30	11.48	10.81	8.85	7.10	12.32	13.70	12.09	8.92	11.09	18
19	7.37	12.70	12.68	10.94	10.94	11.78	12.64	11.78	11.10	9.04	7.24	12.66	14.08	12.43	9.12	11.38	19
20	7.50	13.00	12.99	11.20	11.20	12.06	12.95	12.06	11.36	9.21	7.36	12.96	14.42	12.75	9.29	11.64	20
21	7.61	13.28	13.27	11.43	11.43	12.32	13.23	12.32	11.60	9.37	7.46	13.24	14.73	13.03	9.46	11.87	21
22	7.71	13.54	13.53	11.64	11.64	12.55	13.48	12.55	11.81	9.51	7.56	13.50	15.01	13.29	9.60	12.09	22
23	7.80	13.77	13.76	11.83	11.83	12.76	13.71	12.76	12.01	9.64	7.65	13.73	15.27	13.52	9.73	12.28	23
24	7.89	13.98	13.97	12.00	12.00	12.95	13.92	12.95	12.18	9.76	7.74	13.94	15.50	13.73	9.86	12.46	24
25	7.96	14.17	14.16	12.16	12.16	13.12	14.11	13.12	12.35	9.86	7.81	14.13	15.72	13.93	9.96	12.62	25
*** Extended Series ***																	
26	8.03	14.35	14.33	12.30	12.30	13.28	14.28	13.28	12.49	9.96	8.03	14.30	15.91	14.10	10.06	12.76	26
27	8.10	14.51	14.49	12.43	12.43	13.43	14.44	13.43	12.63	10.05	7.94	14.46	16.08	14.26	10.16	12.90	27
28	8.16	14.65	14.63	12.55	12.55	13.56	14.58	13.56	12.75	10.13	8.00	14.60	16.24	14.41	10.24	13.02	28
29	8.21	14.78	14.76	12.66	12.66	13.68	14.71	13.68	12.86	10.20	8.05	14.73	16.39	14.54	10.31	13.13	29
30	8.26	14.90	14.88	12.76	12.76	13.78	14.83	13.78	12.96	10.27	8.09	14.85	16.52	14.66	10.38	13.23	30

TABLE B-6b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT
 DoE Region 6 (Texas, New Mexico, Oklahoma, Arkansas, Louisiana)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.91	0.95	0.95	0.91	0.91	0.94	0.92	0.91	0.92	0.91	0.95	1.02	0.91	0.92	0.94	1
2	1.74	1.85	1.85	1.69	1.74	1.85	1.78	1.72	1.75	1.74	1.85	2.00	1.80	1.77	1.82	2
3	2.51	2.71	2.71	2.42	2.51	2.70	2.60	2.47	2.52	2.51	2.71	2.93	2.67	2.55	2.65	3
4	3.21	3.53	3.52	3.10	3.21	3.52	3.37	3.17	3.23	3.21	3.52	3.82	3.51	3.27	3.41	4
5	3.84	4.33	4.32	3.76	3.84	4.31	4.11	3.86	3.89	3.84	4.32	4.69	4.36	3.95	4.15	5
6	4.41	5.13	5.12	4.40	4.41	5.11	4.86	4.53	4.50	4.42	5.12	5.58	5.21	4.59	4.87	6
7	4.94	5.92	5.91	5.03	4.95	5.91	5.60	5.19	5.06	4.95	5.91	6.49	6.09	5.20	5.58	7
8	5.44	6.70	6.69	5.65	5.45	6.68	6.32	5.84	5.58	5.46	6.69	7.38	6.97	5.77	6.27	8
9	5.90	7.45	7.43	6.25	5.91	7.42	7.02	6.46	6.05	5.92	7.43	8.24	7.85	6.30	6.92	9
10	6.33	8.16	8.14	6.82	6.33	8.13	7.67	7.06	6.48	6.35	8.14	9.05	8.71	6.78	7.54	10
11	6.72	8.83	8.81	7.36	6.72	8.80	8.29	7.63	6.88	6.74	8.81	9.82	9.53	7.22	8.11	11
12	7.08	9.47	9.44	7.88	7.08	9.43	8.87	8.17	7.24	7.11	9.44	10.53	10.32	7.63	8.65	12
13	7.41	10.07	10.04	8.37	7.42	10.03	9.42	8.69	7.57	7.45	10.04	11.20	11.07	8.00	9.15	13
14	7.71	10.61	10.58	8.81	7.72	10.57	9.91	9.15	7.87	7.75	10.59	11.80	11.76	8.33	9.60	14
15	7.98	11.11	11.08	9.22	7.99	11.07	10.37	9.58	8.14	8.03	11.08	12.35	12.38	8.64	10.02	15
16	8.23	11.56	11.53	9.58	8.24	11.52	10.78	9.97	8.39	8.29	11.53	12.85	12.95	8.92	10.39	16
17	8.46	11.97	11.93	9.92	8.47	11.93	11.15	10.32	8.61	8.52	11.94	13.31	13.47	9.17	10.73	17
18	8.66	12.34	12.30	10.22	8.68	12.30	11.49	10.64	8.81	8.72	12.31	13.72	13.94	9.40	11.04	18
19	8.85	12.68	12.64	10.50	8.86	12.63	11.80	10.93	9.00	8.91	12.65	14.10	14.36	9.61	11.33	19
20	9.02	12.98	12.95	10.75	9.03	12.94	12.08	11.19	9.17	9.09	12.95	14.44	14.75	9.80	11.58	20
21	9.17	13.26	13.23	10.97	9.19	13.22	12.33	11.43	9.32	9.24	13.23	14.76	15.10	9.97	11.82	21
22	9.31	13.52	13.48	11.18	9.33	13.47	12.56	11.65	9.46	9.39	13.48	15.04	15.42	10.13	12.03	22
23	9.44	13.75	13.71	11.37	9.46	13.70	12.78	11.85	9.59	9.52	13.71	15.30	15.72	10.27	12.22	23
24	9.56	13.96	13.92	11.54	9.57	13.91	12.97	12.03	9.70	9.64	13.92	15.53	15.98	10.40	12.40	24
25	9.66	14.15	14.11	11.70	9.68	14.10	13.14	12.19	9.81	9.74	14.11	15.74	16.22	10.52	12.56	25
*** Extended Series ***																
26	9.76	14.32	14.28	11.84	9.78	14.28	13.30	12.34	9.90	9.84	14.29	15.94	16.44	10.62	12.70	26
27	9.85	14.48	14.44	11.97	9.86	14.43	13.44	12.48	9.99	9.93	14.44	16.11	16.64	10.72	12.83	27
28	9.92	14.62	14.58	12.08	9.94	14.58	13.57	12.60	10.07	10.01	14.59	16.27	16.82	10.81	12.95	28
29	10.00	14.76	14.71	12.19	10.01	14.71	13.69	12.71	10.14	10.08	14.72	16.42	16.98	10.89	13.06	29
30	10.06	14.87	14.83	12.29	10.08	14.82	13.80	12.81	10.20	10.15	14.84	16.55	17.13	10.96	13.16	30

TABLE B-7b. UPM* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT
 DoE Region 7 (Kansas, Missouri, Iowa, Nebraska)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASINE	N
1	0.90	0.95	0.95	0.91	0.90	0.94	0.92	0.91	0.91	0.90	0.94	1.01	0.88	0.91	0.94	1
2	1.69	1.85	1.85	1.77	1.69	1.85	1.78	1.74	1.74	1.69	1.85	1.98	1.74	1.74	1.82	2
3	2.40	2.71	2.71	2.59	2.39	2.71	2.60	2.49	2.49	2.39	2.71	2.91	2.58	2.50	2.65	3
4	3.02	3.52	3.52	3.37	3.02	3.52	3.37	3.17	3.17	3.00	3.52	3.79	3.40	3.19	3.41	4
5	3.58	4.32	4.32	4.15	3.57	4.32	4.12	3.81	3.81	3.55	4.32	4.66	4.24	3.83	4.15	5
6	4.08	5.12	5.12	4.89	4.07	5.12	4.87	4.40	4.40	4.04	5.12	5.54	5.06	4.42	4.87	6
7	4.53	5.92	5.92	5.62	4.52	5.92	5.61	4.94	4.94	4.49	5.91	6.43	5.87	4.96	5.58	7
8	4.95	6.70	6.70	6.32	4.94	6.69	6.33	5.44	5.44	4.90	6.69	7.31	6.66	5.45	6.27	8
9	5.33	7.45	7.45	6.99	5.32	7.43	7.03	5.90	5.90	5.27	7.43	8.16	7.43	5.91	6.93	9
10	5.68	8.16	8.16	7.64	5.67	8.14	7.69	6.31	6.31	5.62	8.14	8.97	8.18	6.33	7.55	10
11	6.00	8.83	8.83	8.26	5.99	8.81	8.30	6.70	6.70	5.93	8.81	9.73	8.89	6.72	8.12	11
12	6.29	9.47	9.47	8.84	6.28	9.44	8.88	7.04	7.04	6.23	9.44	10.43	9.58	7.08	8.66	12
13	6.56	10.07	10.06	9.39	6.55	10.04	9.43	7.35	7.35	6.49	10.04	11.09	10.22	7.41	9.16	13
14	6.81	10.61	10.61	9.89	6.79	10.59	9.93	7.64	7.64	6.73	10.59	11.69	10.80	7.71	9.61	14
15	7.03	11.11	11.11	10.34	7.02	11.08	10.38	7.90	7.90	6.96	11.08	12.24	11.33	7.98	10.03	15
16	7.23	11.56	11.56	10.76	7.22	11.53	10.79	8.13	8.13	7.16	11.53	12.73	11.81	8.22	10.41	16
17	7.42	11.97	11.96	11.13	7.40	11.94	11.17	8.35	8.35	7.34	11.94	13.19	12.25	8.45	10.75	17
18	7.58	12.34	12.34	11.47	7.57	12.31	11.51	8.54	8.54	7.50	12.31	13.60	12.65	8.65	11.06	18
19	7.74	12.68	12.68	11.78	7.72	12.65	11.82	8.72	8.72	7.65	12.65	13.97	13.01	8.83	11.34	19
20	7.87	12.99	12.98	12.06	7.86	12.95	12.10	8.88	8.88	7.79	12.95	14.31	13.34	9.00	11.60	20
21	8.00	13.27	13.26	12.32	7.98	13.23	12.35	9.02	9.02	7.91	13.23	14.62	13.64	9.15	11.83	21
22	8.11	13.53	13.52	12.55	8.10	13.49	12.59	9.16	9.16	8.03	13.49	14.90	13.92	9.29	12.05	22
23	8.22	13.76	13.75	12.77	8.20	13.72	12.80	9.28	9.28	8.13	13.72	15.15	14.16	9.42	12.24	23
24	8.31	13.97	13.96	12.96	8.29	13.93	12.99	9.39	9.39	8.22	13.93	15.38	14.39	9.53	12.42	24
25	8.40	14.16	14.15	13.13	8.38	14.12	13.16	9.49	9.49	8.31	14.12	15.60	14.59	9.64	12.58	25
*** Extended Series ***																
26	8.47	14.33	14.32	13.29	8.46	14.29	13.32	9.58	9.58	8.38	14.29	15.79	14.78	9.73	12.72	26
27	8.55	14.49	14.48	13.44	8.53	14.45	13.47	9.66	9.66	8.45	14.45	15.96	14.95	9.82	12.85	27
28	8.61	14.63	14.62	13.57	8.59	14.59	13.60	9.74	9.74	8.52	14.59	16.12	15.10	9.90	12.97	28
29	8.67	14.77	14.75	13.69	8.65	14.72	13.72	9.80	9.80	8.58	14.72	16.26	15.24	9.97	13.08	29
30	8.72	14.88	14.87	13.80	8.70	14.84	13.82	9.87	9.87	8.63	14.84	16.39	15.37	10.03	13.18	30

TABLE B-8b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT
 DoE Region 8 (Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado)

N	RESIDENTIAL					COMMERCIAL					INDUSTRIAL					TRANSPORTATION								
	ELEC	DIST	LPG	NATGAS		ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N		
1	0.88	0.95	0.95	0.89	0.88	0.95	0.92	0.88	0.88	0.91	0.87	0.95	1.03	0.88	0.91	0.87	0.95	1.03	0.88	0.88	0.91	0.94	1	
2	1.65	1.85	1.85	1.73	1.65	1.85	1.78	1.71	1.71	1.74	1.64	1.85	2.02	1.72	1.75	1.64	1.85	2.02	1.72	1.72	1.75	1.82	2	
3	2.34	2.71	2.71	2.52	2.34	2.71	2.60	2.49	2.49	2.49	2.31	2.71	2.96	2.54	2.51	2.31	2.71	2.96	2.54	2.54	2.51	2.65	3	
4	2.95	3.53	3.53	3.27	2.94	3.53	3.37	3.22	3.18	3.18	2.91	3.53	3.86	3.34	3.20	2.91	3.53	3.86	3.34	3.34	3.20	3.41	4	
5	3.48	4.33	4.32	3.99	3.47	4.33	4.12	3.93	3.81	3.81	3.43	4.32	4.74	4.16	3.84	3.43	4.32	4.74	4.16	4.16	3.84	4.15	5	
6	3.96	5.13	5.12	4.69	3.94	5.13	4.87	4.62	4.39	4.39	3.89	5.12	5.65	4.97	4.42	3.89	5.12	5.65	4.97	4.97	4.42	4.87	6	
7	4.40	5.93	5.92	5.36	4.38	5.92	5.61	5.29	4.92	4.92	4.32	5.92	6.56	5.77	4.95	4.32	5.92	6.56	5.77	5.77	4.95	5.58	7	
8	4.81	6.71	6.70	6.01	4.79	6.70	6.33	5.94	5.40	5.40	4.71	6.69	7.46	6.56	5.44	4.71	6.69	7.46	6.56	6.56	5.44	6.27	8	
9	5.18	7.46	7.45	6.65	5.16	7.44	7.03	6.57	5.85	5.85	5.08	7.44	8.32	7.37	5.88	5.08	7.44	8.32	7.37	7.37	5.88	6.93	9	
10	5.52	8.17	8.16	7.26	5.50	8.15	7.69	7.18	6.25	6.25	5.42	8.15	9.15	8.14	6.29	5.42	8.15	9.15	8.14	8.14	6.29	7.55	10	
11	5.84	8.84	8.84	7.82	5.81	8.82	8.30	7.75	6.62	6.62	5.72	8.82	9.93	8.86	6.67	5.72	8.82	9.93	8.86	8.86	6.67	8.13	11	
12	6.12	9.48	9.47	8.35	6.09	9.45	8.88	8.28	6.96	6.96	5.99	9.46	10.64	9.54	7.01	5.99	9.46	10.64	9.54	9.54	7.01	8.67	12	
13	6.37	10.08	10.07	8.85	6.35	10.05	9.43	8.79	7.27	7.27	6.24	10.05	11.32	10.19	7.32	6.24	10.05	11.32	10.19	10.19	7.32	9.17	13	
14	6.60	10.63	10.62	9.30	6.58	10.59	9.93	9.24	7.55	7.55	6.47	10.60	11.93	10.78	7.60	6.47	10.60	11.93	10.78	10.78	7.60	9.63	14	
15	6.81	11.12	11.11	9.71	6.78	11.09	10.38	9.66	7.80	7.80	6.67	11.09	12.49	11.32	7.85	6.67	11.09	12.49	11.32	11.32	7.85	10.04	15	
16	7.00	11.58	11.56	10.09	6.97	11.54	10.79	10.04	8.04	8.04	6.86	11.54	12.99	11.81	8.09	6.86	11.54	12.99	11.81	11.81	8.09	10.42	16	
17	7.17	11.99	11.97	10.43	7.15	11.94	11.17	10.38	8.25	8.25	7.03	11.95	13.46	12.25	8.30	7.03	11.95	13.46	12.25	12.25	8.30	10.77	17	
18	7.33	12.36	12.35	10.74	7.30	12.32	11.51	10.70	8.44	8.44	7.18	12.33	13.87	12.66	8.49	7.18	12.33	13.87	12.66	12.66	8.49	11.08	18	
19	7.47	12.70	12.68	11.02	7.45	12.65	11.82	10.98	8.61	8.61	7.32	12.66	14.25	13.02	8.67	7.32	12.66	14.25	13.02	13.02	8.67	11.36	19	
20	7.60	13.01	12.99	11.28	7.58	12.96	12.10	11.24	8.77	8.77	7.45	12.97	14.60	13.36	8.83	7.45	12.97	14.60	13.36	13.36	8.83	11.62	20	
21	7.72	13.29	13.27	11.51	7.69	13.24	12.35	11.47	8.92	8.92	7.56	13.25	14.91	13.66	8.97	7.56	13.25	14.91	13.66	13.66	8.97	11.86	21	
22	7.83	13.54	13.53	11.72	7.80	13.49	12.59	11.69	9.05	9.05	7.67	13.51	15.20	13.94	9.10	7.67	13.51	15.20	13.94	13.94	9.10	12.07	22	
23	7.93	13.77	13.76	11.91	7.90	13.72	12.80	11.88	9.17	9.17	7.76	13.74	15.46	14.19	9.22	7.76	13.74	15.46	14.19	14.19	9.22	12.26	23	
24	8.01	13.98	13.97	12.09	7.99	13.93	12.99	12.06	9.28	9.28	7.85	13.95	15.70	14.42	9.33	7.85	13.95	15.70	14.42	14.42	9.33	12.44	24	
25	8.10	14.18	14.16	12.25	8.07	14.12	13.16	12.22	9.37	9.37	7.93	14.14	15.91	14.62	9.43	7.93	14.14	15.91	14.62	14.62	9.43	12.60	25	

26	8.17	14.35	14.33	12.39	8.14	14.30	13.32	12.37	9.46	9.46	8.00	14.31	16.11	14.81	9.52	8.00	14.31	16.11	14.81	14.81	9.52	12.75	26	
27	8.24	14.51	14.49	12.52	8.21	14.45	13.47	12.50	9.54	9.54	8.06	14.47	16.28	14.98	9.60	8.06	14.47	16.28	14.98	14.98	9.60	12.88	27	
28	8.30	14.65	14.63	12.64	8.27	14.60	13.60	12.62	9.62	9.62	8.12	14.61	16.45	15.14	9.68	8.12	14.61	16.45	15.14	15.14	9.68	13.00	28	
29	8.35	14.78	14.77	12.75	8.32	14.73	13.72	12.73	9.69	9.69	8.18	14.74	16.59	15.28	9.74	8.18	14.74	16.59	15.28	15.28	9.74	13.11	29	
30	8.40	14.90	14.88	12.85	8.37	14.84	13.82	12.83	9.75	9.75	8.22	14.86	16.73	15.41	9.80	8.22	14.86	16.73	15.41	15.41	9.80	13.21	30	

*** Extended Series ***

TABLE B-9b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT

DoE Region 9 (California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.89	0.95	0.95	0.90	0.89	0.95	0.92	0.87	0.91	0.89	0.94	0.91	0.87	0.91	0.94	1
2	1.68	1.85	1.85	1.74	1.67	1.85	1.78	1.66	1.73	1.67	1.84	1.78	1.68	1.74	1.82	2
3	2.37	2.71	2.71	2.53	2.36	2.71	2.60	2.38	2.48	2.36	2.70	2.59	2.44	2.48	2.65	3
4	2.98	3.53	3.53	3.28	2.97	3.52	3.37	3.04	3.16	2.96	3.52	3.36	3.17	3.16	3.42	4
5	3.51	4.32	4.33	4.00	3.51	4.32	4.12	3.66	3.79	3.49	4.31	4.11	3.87	3.78	4.15	5
6	3.99	5.12	5.13	4.69	3.98	5.12	4.86	4.25	4.37	3.96	5.11	4.85	4.56	4.35	4.88	6
7	4.42	5.92	5.92	5.36	4.41	5.91	5.60	4.81	4.89	4.38	5.90	5.59	5.23	4.86	5.59	7
8	4.81	6.70	6.70	6.01	4.81	6.69	6.32	5.34	5.37	4.77	6.68	6.31	5.90	5.33	6.28	8
9	5.18	7.45	7.45	6.63	5.17	7.43	7.01	5.85	5.81	5.13	7.42	7.00	6.54	5.75	6.93	9
10	5.51	8.16	8.16	7.23	5.50	8.14	7.67	6.33	6.21	5.46	8.13	7.66	7.15	6.14	7.55	10
11	5.81	8.84	8.84	7.79	5.80	8.80	8.29	6.77	6.57	5.76	8.80	8.27	7.73	6.50	8.13	11
12	6.09	9.47	9.47	8.33	6.08	9.44	8.87	7.20	6.91	6.04	9.43	8.85	8.30	6.82	8.67	12
13	6.35	10.07	10.07	8.83	6.34	10.03	9.41	7.59	7.21	6.29	10.03	9.40	8.83	7.12	9.17	13
14	6.58	10.62	10.62	9.29	6.57	10.57	9.91	7.95	7.48	6.52	10.57	9.89	9.31	7.39	9.63	14
15	6.79	11.12	11.11	9.71	6.79	11.07	10.36	8.27	7.73	6.73	11.06	10.34	9.75	7.63	10.04	15
16	6.99	11.57	11.56	10.09	6.98	11.52	10.77	8.56	7.96	6.92	11.51	10.75	10.15	7.85	10.42	16
17	7.16	11.98	11.97	10.44	7.15	11.92	11.14	8.83	8.17	7.10	11.92	11.13	10.51	8.05	10.77	17
18	7.32	12.35	12.34	10.75	7.31	12.29	11.48	9.08	8.36	7.25	12.29	11.46	10.84	8.24	11.08	18
19	7.47	12.69	12.68	11.03	7.46	12.63	11.79	9.30	8.53	7.40	12.63	11.77	11.14	8.40	11.36	19
20	7.60	13.00	12.99	11.29	7.59	12.94	12.07	9.50	8.68	7.53	12.93	12.05	11.42	8.56	11.62	20
21	7.72	13.28	13.27	11.53	7.71	13.22	12.32	9.68	8.82	7.64	13.21	12.31	11.66	8.69	11.85	21
22	7.83	13.53	13.53	11.74	7.82	13.47	12.55	9.85	8.95	7.75	13.46	12.54	11.89	8.82	12.07	22
23	7.93	13.76	13.76	11.94	7.92	13.70	12.76	10.00	9.07	7.85	13.69	12.75	12.09	8.93	12.26	23
24	8.02	13.97	13.97	12.11	8.00	13.91	12.95	10.14	9.18	7.94	13.90	12.94	12.28	9.04	12.44	24
25	8.10	14.17	14.16	12.28	8.09	14.10	13.13	10.26	9.27	8.02	14.09	13.11	12.45	9.13	12.60	25

26	8.17	14.34	14.33	12.42	8.16	14.27	13.28	10.37	9.36	8.09	14.27	13.27	12.60	9.22	12.74	26
27	8.24	14.50	14.49	12.56	8.23	14.43	13.43	10.48	9.44	8.16	14.42	13.41	12.74	9.29	12.88	27
28	8.30	14.64	14.63	12.68	8.29	14.57	13.56	10.57	9.51	8.22	14.57	13.54	12.87	9.36	13.00	28
29	8.36	14.77	14.76	12.79	8.35	14.70	13.68	10.66	9.58	8.28	14.70	13.66	12.99	9.43	13.10	29
30	8.41	14.89	14.88	12.89	8.40	14.82	13.78	10.73	9.64	8.33	14.81	13.77	13.09	9.49	13.20	30

*** Extended Series ***																

TABLE B-10b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT
 DoE Region 10 (Washington, Oregon, Idaho, Alaska)

N	RESIDENTIAL				COMMERCIAL				INDUSTRIAL				TRANSPORTATION			
	ELEC	DIST	LPG	NATGAS	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N
1	0.92	0.95	0.95	0.97	0.92	0.95	0.91	1.01	0.91	0.92	0.95	0.90	1.26	0.91	0.94	1
2	1.75	1.85	1.85	1.94	1.75	1.85	1.77	1.97	1.73	1.75	1.85	1.76	2.48	1.74	1.82	2
3	2.50	2.71	2.71	2.83	2.50	2.71	2.58	2.87	2.48	2.50	2.71	2.57	3.65	2.49	2.65	3
4	3.18	3.53	3.52	3.66	3.18	3.53	3.33	3.72	3.16	3.19	3.52	3.32	4.76	3.21	3.41	4
5	3.80	4.33	4.32	4.46	3.80	4.33	4.07	4.54	3.77	3.80	4.32	4.06	5.87	3.88	4.15	5
6	4.36	5.13	5.12	5.21	4.36	5.13	4.80	5.33	4.34	4.36	5.12	4.80	6.96	4.49	4.87	6
7	4.87	5.93	5.92	5.92	4.87	5.92	5.53	6.08	4.85	4.87	5.91	5.52	8.02	5.06	5.59	7
8	5.34	6.71	6.69	6.60	5.34	6.70	6.24	6.80	5.32	5.34	6.69	6.23	9.05	5.59	6.28	8
9	5.78	7.46	7.44	7.25	5.78	7.44	6.92	7.51	5.75	5.79	7.43	6.91	10.07	6.10	6.94	9
10	6.19	8.18	8.16	7.87	6.19	8.15	7.56	8.17	6.14	6.20	8.14	7.55	11.06	6.63	7.56	10
11	6.57	8.85	8.83	8.44	6.57	8.82	8.16	8.79	6.49	6.59	8.81	8.15	11.97	7.17	8.14	11
12	6.92	9.49	9.46	8.96	6.92	9.45	8.73	9.36	6.81	6.95	9.45	8.71	12.83	7.65	8.67	12
13	7.26	10.09	10.06	9.45	7.26	10.05	9.26	9.89	7.11	7.30	10.04	9.25	13.64	8.10	9.18	13
14	7.57	10.64	10.61	9.90	7.57	10.60	9.74	10.38	7.38	7.62	10.59	9.73	14.38	8.50	9.64	14
15	7.85	11.14	11.10	10.30	7.85	11.09	10.18	10.83	7.62	7.91	11.08	10.17	15.05	8.87	10.05	15
16	8.11	11.59	11.55	10.67	8.11	11.54	10.58	11.23	7.84	8.18	11.53	10.57	15.66	9.20	10.43	16
17	8.34	12.00	11.96	11.01	8.34	11.95	10.95	11.60	8.04	8.42	11.94	10.93	16.22	9.50	10.77	17
18	8.55	12.37	12.33	11.31	8.55	12.32	11.28	11.94	8.23	8.63	12.31	11.27	16.72	9.78	11.09	18
19	8.74	12.71	12.67	11.59	8.74	12.66	11.58	12.24	8.39	8.83	12.65	11.57	17.18	10.03	11.37	19
20	8.91	13.02	12.98	11.84	8.91	12.97	11.85	12.52	8.55	9.01	12.96	11.84	17.60	10.26	11.63	20
21	9.07	13.30	13.26	12.07	9.07	13.25	12.10	12.77	8.68	9.18	13.24	12.09	17.98	10.47	11.86	21
22	9.22	13.56	13.51	12.28	9.22	13.50	12.33	12.99	8.81	9.33	13.49	12.31	18.32	10.65	12.08	22
23	9.35	13.79	13.75	12.47	9.35	13.73	12.53	13.20	8.92	9.46	13.72	12.52	18.63	10.82	12.27	23
24	9.47	14.00	13.96	12.64	9.47	13.94	12.72	13.39	9.03	9.59	13.93	12.71	18.92	10.98	12.45	24
25	9.57	14.19	14.15	12.79	9.57	14.13	12.89	13.56	9.12	9.70	14.12	12.87	19.18	11.12	12.61	25

26	9.67	14.37	14.32	12.94	9.67	14.30	13.04	13.72	9.20	9.80	14.29	13.03	19.41	11.25	12.75	26
27	9.76	14.52	14.48	13.06	9.76	14.46	13.18	13.86	9.28	9.89	14.45	13.17	19.63	11.37	12.89	27
28	9.84	14.67	14.62	13.18	9.84	14.60	13.31	13.99	9.35	9.98	14.59	13.30	19.82	11.47	13.01	28
29	9.92	14.80	14.75	13.29	9.92	14.73	13.43	14.11	9.42	10.05	14.72	13.41	20.00	11.57	13.12	29
30	9.98	14.92	14.87	13.39	9.98	14.85	13.53	14.21	9.48	10.12	14.84	13.52	20.16	11.66	13.22	30

*** Extended Series ***

TABLE B-11b. UPW* DISCOUNT FACTORS ADJUSTED FOR AVERAGE FUEL PRICE ESCALATION
 BY END-USE SECTOR AND MAJOR FUEL
 DISCOUNT RATE = 10 PERCENT
 United States Average

N	RESIDENTIAL					COMMERCIAL					INDUSTRIAL					TRANSPORTATION							
	ELEC	DIST	LPG	NATGAS		ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	ELEC	DIST	RESID	NATGAS	COAL	GASLINE	N	
1	0.90	0.95	0.95	0.90		0.90	0.95	0.92	0.90	0.91	0.90	0.95	0.97	0.91	0.92	0.90	0.95	0.97	0.91	0.92		0.94	1
2	1.70	1.85	1.85	1.74		1.70	1.85	1.78	1.73	1.75	1.70	1.85	1.89	1.78	1.76	1.70	1.85	1.89	1.78	1.76		1.82	2
3	2.41	2.71	2.71	2.52		2.42	2.71	2.60	2.51	2.52	2.41	2.71	2.77	2.63	2.54	2.41	2.71	2.77	2.63	2.54		2.65	3
4	3.05	3.53	3.52	3.26		3.06	3.52	3.37	3.25	3.23	3.04	3.52	3.59	3.44	3.26	3.04	3.52	3.59	3.44	3.26		3.41	4
5	3.61	4.33	4.32	3.97		3.62	4.32	4.12	3.96	3.89	3.60	4.32	4.40	4.26	3.93	3.60	4.32	4.40	4.26	3.93		4.14	5
6	4.11	5.13	5.12	4.65		4.12	5.11	4.87	4.64	4.49	4.09	5.12	5.22	5.07	4.56	4.09	5.12	5.22	5.07	4.56		4.87	6
7	4.56	5.93	5.92	5.30		4.57	5.91	5.61	5.30	5.06	4.53	5.91	6.03	5.88	5.15	4.53	5.91	6.03	5.88	5.15		5.58	7
8	4.98	6.71	6.70	5.93		4.98	6.68	6.33	5.94	5.58	4.94	6.68	6.84	6.68	5.69	4.94	6.68	6.84	6.68	5.69		6.27	8
9	5.36	7.47	7.45	6.53		5.36	7.43	7.03	6.55	6.05	5.31	7.43	7.61	7.47	6.19	5.31	7.43	7.61	7.47	6.19		6.92	9
10	5.70	8.18	8.16	7.11		5.71	8.14	7.68	7.13	6.49	5.66	8.14	8.34	8.22	6.65	5.66	8.14	8.34	8.22	6.65		7.54	10
11	6.02	8.86	8.83	7.64		6.02	8.81	8.30	7.67	6.89	5.97	8.80	9.03	8.94	7.08	5.97	8.80	9.03	8.94	7.08		8.12	11
12	6.31	9.50	9.46	8.15		6.31	9.44	8.88	8.19	7.26	6.26	9.44	9.67	9.63	7.47	6.26	9.44	9.67	9.63	7.47		8.65	12
13	6.58	10.10	10.06	8.63		6.58	10.04	9.43	8.68	7.59	6.52	10.03	10.27	10.29	7.83	6.52	10.03	10.27	10.29	7.83		9.16	13
14	6.82	10.65	10.61	9.07		6.82	10.58	9.92	9.12	7.90	6.76	10.58	10.82	10.89	8.15	6.76	10.58	10.82	10.89	8.15		9.61	14
15	7.04	11.15	11.11	9.46		7.04	11.07	10.37	9.53	8.17	6.98	11.07	11.32	11.43	8.45	6.98	11.07	11.32	11.43	8.45		10.03	15
16	7.24	11.60	11.56	9.82		7.24	11.52	10.78	9.89	8.42	7.18	11.52	11.77	11.93	8.72	7.18	11.52	11.77	11.93	8.72		10.40	16
17	7.42	12.01	11.97	10.15		7.43	11.93	11.16	10.23	8.65	7.36	11.93	12.18	12.38	8.96	7.36	11.93	12.18	12.38	8.96		10.75	17
18	7.59	12.39	12.34	10.45		7.59	12.30	11.50	10.53	8.86	7.52	12.30	12.55	12.78	9.19	7.52	12.30	12.55	12.78	9.19		11.06	18
19	7.74	12.73	12.68	10.72		7.74	12.64	11.80	10.81	9.05	7.67	12.63	12.89	13.16	9.39	7.67	12.63	12.89	13.16	9.39		11.34	19
20	7.88	13.04	12.98	10.96		7.88	12.95	12.08	11.06	9.22	7.80	12.94	13.20	13.49	9.57	7.80	12.94	13.20	13.49	9.57		11.60	20
21	8.00	13.32	13.26	11.19		8.00	13.23	12.34	11.29	9.38	7.93	13.22	13.48	13.80	9.74	7.93	13.22	13.48	13.80	9.74		11.83	21
22	8.11	13.58	13.52	11.39		8.12	13.48	12.57	11.49	9.52	8.04	13.47	13.74	14.08	9.89	8.04	13.47	13.74	14.08	9.89		12.05	22
23	8.22	13.81	13.75	11.58		8.22	13.71	12.78	11.68	9.65	8.14	13.70	13.97	14.33	10.03	8.14	13.70	13.97	14.33	10.03		12.24	23
24	8.31	14.02	13.96	11.74		8.31	13.92	12.97	11.85	9.76	8.23	13.91	14.18	14.56	10.15	8.23	13.91	14.18	14.56	10.15		12.41	24
25	8.40	14.21	14.15	11.90		8.40	14.11	13.15	12.01	9.87	8.32	14.10	14.37	14.77	10.27	8.32	14.10	14.37	14.77	10.27		12.57	25

26	8.47	14.39	14.32	12.03		8.48	14.28	13.30	12.15	9.97	8.39	14.28	14.55	14.96	10.37	8.39	14.28	14.55	14.96	10.37		12.72	26
27	8.54	14.55	14.48	12.16		8.55	14.44	13.45	12.28	10.05	8.46	14.43	14.71	15.14	10.47	8.46	14.43	14.71	15.14	10.47		12.85	27
28	8.61	14.69	14.63	12.28		8.61	14.58	13.58	12.39	10.13	8.53	14.58	14.85	15.29	10.55	8.53	14.58	14.85	15.29	10.55		12.97	28
29	8.66	14.82	14.76	12.38		8.67	14.72	13.70	12.50	10.21	8.58	14.71	14.98	15.44	10.63	8.58	14.71	14.98	15.44	10.63		13.08	29
30	8.72	14.94	14.88	12.47		8.72	14.83	13.80	12.60	10.27	8.64	14.82	15.10	15.57	10.70	8.64	14.82	15.10	15.57	10.70		13.18	30

*** Extended Series ***

3. 1987 AVERAGE FUEL PRICES, PROJECTED REAL AVERAGE FUEL PRICE INDICES, AND PROJECTED AVERAGE FUEL PRICE ESCALATION RATES, BY DoE REGION (UPDATE OF APPENDIX C OF THE FEDERAL METHODOLOGY FOR LIFE-CYCLE COST ANALYSIS)

Tables Ca-1 through Ca-11 of this section present 1987 average fuel prices and projected real average fuel price indices for the 10 DoE regions and for the United States. To derive the 1987 average fuel prices, the Energy Information Administration 1987 prices given in 1985 dollars were converted to 1987 dollars using the Implicit Price Deflator for Gross National Product.

Tables Cb-1 through Cb-11 present the projected average fuel price escalation rates (percentage change compounded annually) for six selected periods from 1987 to 2012 for the 10 DoE regions and for the United States.

For an explanation of the use of these tables, see NBS Handbook 135, appendices C and G.

TABLE Ca-1. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 1 (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island)

SECTOR/FUEL	1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)										
		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
RESIDENTIAL												
ELECTRICITY	29.15	1.00	1.03	1.01	0.98	0.95	0.91	0.89	0.88	0.88	0.87	0.87
DISTILLATE FUEL	4.80	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.56	1.67	1.77	1.86
LIQUEFIED PETROLEUM GAS	5.17	1.00	1.04	1.09	1.15	1.19	1.28	1.42	1.56	1.67	1.77	1.85
NATURAL GAS	7.34	1.00	0.99	1.05	1.08	1.10	1.15	1.21	1.24	1.30	1.34	1.38
COMMERCIAL												
ELECTRICITY	29.07	1.00	1.03	1.01	0.98	0.95	0.91	0.89	0.88	0.88	0.87	0.87
DISTILLATE FUEL	4.14	1.00	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.66	1.76	1.85
RESIDUAL FUEL	2.59	1.00	1.00	1.05	1.09	1.12	1.20	1.32	1.44	1.55	1.63	1.70
NATURAL GAS	6.10	1.00	1.00	1.06	1.09	1.12	1.19	1.25	1.29	1.36	1.41	1.46
STEAM COAL	2.31	1.00	1.01	1.02	1.04	1.06	1.08	1.11	1.13	1.16	1.17	1.18
INDUSTRIAL												
ELECTRICITY	26.58	1.00	1.03	1.01	0.98	0.95	0.90	0.88	0.87	0.87	0.86	0.86
DISTILLATE FUEL	4.01	1.00	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.66	1.76	1.84
RESIDUAL FUEL	2.64	1.00	1.01	1.05	1.09	1.12	1.21	1.32	1.45	1.55	1.64	1.71
NATURAL GAS	4.32	1.00	0.92	1.03	1.10	1.16	1.29	1.40	1.47	1.59	1.67	1.75
STEAM COAL	1.94	1.00	1.02	1.03	1.05	1.07	1.10	1.12	1.14	1.18	1.19	1.21
TRANSPORTATION												
MOTOR GASOLINE	5.95	1.00	1.03	1.06	1.10	1.12	1.18	1.28	1.39	1.48	1.55	1.60

1987 WORLD OIL PRICE
(1987 \$/BARREL)

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92
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TABLE Ca-1, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL

DoE Region 1 (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.86	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
DISTILLATE FUEL	1.92	2.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.41	1.45	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
COMMERCIAL															
ELECTRICITY	0.86	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
DISTILLATE FUEL	1.91	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
RESIDUAL FUEL	1.75	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
NATURAL GAS	1.50	1.54	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
STEAM COAL	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
INDUSTRIAL															
ELECTRICITY	0.85	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
DISTILLATE FUEL	1.91	1.99	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
NATURAL GAS	1.81	1.89	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99
STEAM COAL	1.23	1.24	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
TRANSPORTATION															
MOTOR GASOLINE	1.65	1.68	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-2. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 2 (New York, New Jersey, Puerto Rico, Virgin Islands)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)										
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)											
RESIDENTIAL											
ELECTRICITY	26.25	1.00	1.02	1.01	1.00	0.98	0.93	0.91	0.91	0.92	0.93
DISTILLATE FUEL	4.93	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.56	1.77	1.86
LIQUEFIED PETROLEUM GAS	5.30	1.00	1.04	1.09	1.15	1.19	1.28	1.42	1.56	1.77	1.86
NATURAL GAS	6.86	1.00	0.99	1.02	1.04	1.06	1.10	1.14	1.19	1.30	1.35
COMMERCIAL											
ELECTRICITY	25.44	1.00	1.02	1.01	1.00	0.98	0.93	0.91	0.90	0.92	0.93
DISTILLATE FUEL	4.05	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.55	1.76	1.85
RESIDUAL FUEL	2.64	1.00	1.01	1.05	1.09	1.12	1.21	1.32	1.45	1.64	1.71
NATURAL GAS	5.52	1.00	0.99	1.01	1.05	1.07	1.14	1.19	1.25	1.40	1.46
STEAM COAL	2.23	1.00	1.01	1.01	1.03	1.04	1.06	1.07	1.09	1.12	1.13
INDUSTRIAL											
ELECTRICITY	21.01	1.00	1.03	1.01	1.01	0.97	0.92	0.89	0.88	0.91	0.92
DISTILLATE FUEL	3.80	1.00	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.75	1.84
RESIDUAL FUEL	2.71	1.00	1.01	1.05	1.09	1.12	1.21	1.32	1.45	1.64	1.71
NATURAL GAS	4.22	1.00	0.95	1.00	1.05	1.10	1.19	1.27	1.36	1.54	1.63
STEAM COAL	1.76	1.00	1.01	1.01	1.03	1.05	1.06	1.09	1.11	1.15	1.16
TRANSPORTATION											
MOTOR GASOLINE	5.88	1.00	1.03	1.07	1.10	1.12	1.18	1.28	1.39	1.54	1.60

1987 WORLD OIL PRICE
(1987 \$/BARREL)

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.83	1.92
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TABLE Ca-2, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 2 (New York, New Jersey, Puerto Rico, Virgin Islands)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.94	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
DISTILLATE FUEL	1.93	2.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
LIQUEFIED PETROLEUM GAS	1.92	2.00	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.39	1.43	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
COMMERCIAL															
ELECTRICITY	0.94	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
DISTILLATE FUEL	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
RESIDUAL FUEL	1.76	1.82	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
NATURAL GAS	1.51	1.57	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
STEAM COAL	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
INDUSTRIAL															
ELECTRICITY	0.93	0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
NATURAL GAS	1.69	1.76	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
STEAM COAL	1.18	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
TRANSPORTATION															
MOTOR GASOLINE	1.64	1.68	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-3. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 3 (Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)										
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)											
RESIDENTIAL											
ELECTRICITY	20.03	1.00	0.98	0.97	0.95	0.92	0.90	0.90	0.90	0.92	0.93
DISTILLATE FUEL	4.71	1.00	1.04	1.09	1.14	1.19	1.29	1.42	1.56	1.77	1.86
LIQUEFIED PETROLEUM GAS	5.06	1.00	1.04	1.09	1.14	1.19	1.29	1.42	1.56	1.77	1.85
NATURAL GAS	6.10	1.00	0.99	1.02	1.04	1.07	1.11	1.15	1.19	1.24	1.35
COMMERCIAL											
ELECTRICITY	19.79	1.00	0.98	0.97	0.95	0.92	0.90	0.90	0.90	0.92	0.93
DISTILLATE FUEL	3.90	1.00	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.75	1.84
RESIDUAL FUEL	2.54	1.00	1.01	1.05	1.09	1.12	1.20	1.32	1.44	1.63	1.70
NATURAL GAS	5.40	1.00	0.99	1.02	1.04	1.07	1.11	1.15	1.20	1.31	1.36
STEAM COAL	1.93	1.00	1.01	1.01	1.03	1.05	1.07	1.09	1.11	1.14	1.15
INDUSTRIAL											
ELECTRICITY	17.19	1.00	0.97	0.97	0.94	0.91	0.89	0.88	0.88	0.91	0.92
DISTILLATE FUEL	3.95	1.00	1.04	1.09	1.14	1.19	1.29	1.41	1.55	1.76	1.84
RESIDUAL FUEL	2.60	1.00	1.00	1.05	1.09	1.12	1.20	1.32	1.44	1.63	1.70
NATURAL GAS	3.84	1.00	0.96	1.02	1.07	1.13	1.23	1.29	1.37	1.46	1.63
STEAM COAL	1.60	1.00	1.01	1.03	1.04	1.06	1.08	1.10	1.12	1.15	1.19
TRANSPORTATION											
MOTOR GASOLINE	5.95	1.00	1.03	1.07	1.10	1.12	1.18	1.28	1.39	1.48	1.61

1987 WORLD OIL PRICE
 (1987 \$/BARREL)

	PROJECTED WORLD OIL PRICE INDICES (1987 = 1.00)											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92

TABLE Ca-3, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 3 (Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.94	0.93	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
DISTILLATE FUEL	1.92	2.00	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.39	1.42	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
COMMERCIAL															
ELECTRICITY	0.93	0.93	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
NATURAL GAS	1.40	1.43	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
STEAM COAL	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
INDUSTRIAL															
ELECTRICITY	0.92	0.92	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
DISTILLATE FUEL	1.91	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
RESIDUAL FUEL	1.75	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
NATURAL GAS	1.69	1.75	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
STEAM COAL	1.21	1.22	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
TRANSPORTATION															
MOTOR GASOLINE	1.65	1.68	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
OIL PRICE ASSUMPTION															
	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

TABLE Ca-4, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 4 (Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
DISTILLATE FUEL	1.92	2.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.62	1.69	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
COMMERCIAL															
ELECTRICITY	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.73	1.79	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
NATURAL GAS	1.66	1.72	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
STEAM COAL	1.22	1.23	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
INDUSTRIAL															
ELECTRICITY	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	2.17	2.21	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29
NATURAL GAS	2.01	2.11	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
STEAM COAL	1.25	1.26	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
TRANSPORTATION															
MOTOR GASOLINE	1.64	1.68	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-5. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 5 (Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio)

SECTOR/FUEL	1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)											
		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
RESIDENTIAL													
ELECTRICITY	22.86	1.00	1.00	0.97	0.95	0.91	0.87	0.84	0.82	0.82	0.82	0.82	0.82
DISTILLATE FUEL	4.55	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.56	1.67	1.77	1.85	1.85
LIQUEFIED PETROLEUM GAS	4.89	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.55	1.67	1.77	1.85	1.85
NATURAL GAS	5.34	1.00	0.99	1.02	1.05	1.09	1.17	1.23	1.31	1.39	1.46	1.53	1.53
COMMERCIAL													
ELECTRICITY	22.63	1.00	1.00	0.97	0.95	0.91	0.87	0.84	0.82	0.82	0.82	0.82	0.82
DISTILLATE FUEL	3.77	1.00	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.66	1.75	1.84	1.84
RESIDUAL FUEL	2.64	1.00	1.00	1.05	1.09	1.12	1.20	1.32	1.45	1.55	1.63	1.70	1.70
NATURAL GAS	4.72	1.00	0.99	1.01	1.05	1.09	1.18	1.25	1.33	1.42	1.49	1.56	1.56
STEAM COAL	2.05	1.00	1.01	1.01	1.02	1.04	1.06	1.08	1.10	1.12	1.13	1.13	1.13
INDUSTRIAL													
ELECTRICITY	20.04	1.00	1.00	0.97	0.94	0.90	0.86	0.82	0.80	0.79	0.80	0.80	0.80
DISTILLATE FUEL	3.83	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.55	1.66	1.76	1.84	1.84
RESIDUAL FUEL	1.93	1.00	1.12	1.18	1.25	1.29	1.41	1.58	1.75	1.90	2.02	2.12	2.12
NATURAL GAS	3.67	1.00	0.99	1.03	1.09	1.16	1.28	1.37	1.50	1.62	1.73	1.83	1.83
STEAM COAL	1.63	1.00	1.00	1.01	1.02	1.03	1.06	1.08	1.09	1.12	1.14	1.15	1.15
TRANSPORTATION													
MOTOR GASOLINE	6.06	1.00	1.03	1.06	1.10	1.12	1.19	1.28	1.39	1.48	1.55	1.61	1.61

1987 WORLD OIL PRICE
(1987 \$/BARREL)

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92	1.92
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TABLE Ca-5, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 5 (Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.82	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
DISTILLATE FUEL	1.92	2.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.58	1.64	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
COMMERCIAL															
ELECTRICITY	0.82	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
NATURAL GAS	1.61	1.68	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
STEAM COAL	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
INDUSTRIAL															
ELECTRICITY	0.79	0.82	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
DISTILLATE FUEL	1.91	1.99	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	2.19	2.22	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
NATURAL GAS	1.90	1.99	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
STEAM COAL	1.17	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
TRANSPORTATION															
MOTOR GASOLINE	1.65	1.69	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-6, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 6 (Texas, New Mexico, Oklahoma, Arkansas, Louisiana)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	1.11	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
DISTILLATE FUEL	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
LIQUEFIED PETROLEUM GAS	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
NATURAL GAS	1.55	1.62	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
COMMERCIAL															
ELECTRICITY	1.12	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
NATURAL GAS	1.62	1.70	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
STEAM COAL	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
INDUSTRIAL															
ELECTRICITY	1.13	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	2.19	2.22	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
NATURAL GAS	2.34	2.47	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
STEAM COAL	1.26	1.27	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
TRANSPORTATION															
MOTOR GASOLINE	1.64	1.68	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
OIL PRICE ASSUMPTION															
	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

TABLE Ca-7. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 7 (Kansas, Missouri, Iowa, Nebraska)

SECTOR/FUEL	1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)										
		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
RESIDENTIAL												
ELECTRICITY	21.21	1.00	0.99	0.96	0.94	0.92	0.90	0.88	0.89	0.89	0.90	0.91
DISTILLATE FUEL	4.43	1.00	1.04	1.09	1.14	1.19	1.29	1.42	1.55	1.67	1.76	1.85
LIQUEFIED PETROLEUM GAS	4.76	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.55	1.67	1.76	1.85
NATURAL GAS	4.74	1.00	1.00	1.04	1.09	1.15	1.25	1.32	1.41	1.50	1.59	1.68
COMMERCIAL												
ELECTRICITY	20.71	1.00	0.99	0.96	0.94	0.91	0.90	0.88	0.88	0.89	0.90	0.90
DISTILLATE FUEL	3.67	1.00	1.04	1.09	1.14	1.19	1.29	1.41	1.55	1.66	1.75	1.84
RESIDUAL FUEL	2.64	1.00	1.01	1.05	1.09	1.12	1.21	1.32	1.45	1.55	1.64	1.71
NATURAL GAS	3.93	1.00	1.00	1.04	1.10	1.16	1.28	1.36	1.46	1.56	1.66	1.76
STEAM COAL	1.90	1.00	1.00	1.00	1.00	1.01	1.03	1.04	1.05	1.07	1.08	1.08
INDUSTRIAL												
ELECTRICITY	18.75	1.00	0.99	0.96	0.93	0.90	0.88	0.87	0.87	0.87	0.89	0.89
DISTILLATE FUEL	3.94	1.00	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.66	1.76	1.84
RESIDUAL FUEL	2.12	1.00	1.11	1.18	1.24	1.28	1.40	1.57	1.74	1.88	2.00	2.10
NATURAL GAS	3.10	1.00	0.97	1.04	1.12	1.20	1.35	1.46	1.58	1.70	1.82	1.94
STEAM COAL	1.60	1.00	1.00	1.01	1.01	1.01	1.03	1.04	1.05	1.06	1.08	1.10
TRANSPORTATION												
MOTOR GASOLINE	5.88	1.00	1.04	1.07	1.10	1.12	1.18	1.28	1.39	1.47	1.55	1.60

1987 WORLD OIL PRICE
 (1987 \$/BARREL)

	PROJECTED WORLD OIL PRICE INDICES (1987 = 1.00)											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92

TABLE Ca-7, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 7 (Kansas, Missouri, Iowa, Nebraska)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.92	0.92	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
DISTILLATE FUEL	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.76	1.83	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
COMMERCIAL															
ELECTRICITY	0.91	0.92	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
NATURAL GAS	1.83	1.91	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
STEAM COAL	1.09	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
INDUSTRIAL															
ELECTRICITY	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
DISTILLATE FUEL	1.91	1.98	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
RESIDUAL FUEL	2.17	2.20	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
NATURAL GAS	2.04	2.14	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
STEAM COAL	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
TRANSPORTATION															
MOTOR GASOLINE	1.64	1.68	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-8. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 8 (Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado)

SECTOR/FUEL	1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)										
		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
RESIDENTIAL												
ELECTRICITY	21.29	1.00	0.97	0.94	0.92	0.89	0.86	0.84	0.86	0.88	0.88	0.89
DISTILLATE FUEL	4.41	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.56	1.67	1.77	1.85
LIQUEFIED PETROLEUM GAS	4.74	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.56	1.67	1.76	1.85
NATURAL GAS	4.55	1.00	0.98	1.02	1.05	1.09	1.17	1.24	1.31	1.39	1.50	1.58
COMMERCIAL												
ELECTRICITY	20.71	1.00	0.96	0.94	0.91	0.89	0.85	0.84	0.86	0.87	0.88	0.89
DISTILLATE FUEL	3.71	1.00	1.04	1.09	1.14	1.19	1.29	1.42	1.55	1.66	1.75	1.84
RESIDUAL FUEL	2.64	1.00	1.01	1.05	1.09	1.12	1.21	1.32	1.45	1.55	1.64	1.71
NATURAL GAS	4.25	1.00	0.97	1.00	1.03	1.07	1.15	1.22	1.30	1.38	1.50	1.58
STEAM COAL	1.85	1.00	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.04	1.04	1.05
INDUSTRIAL												
ELECTRICITY	18.20	1.00	0.96	0.93	0.90	0.87	0.83	0.81	0.84	0.86	0.86	0.87
DISTILLATE FUEL	3.94	1.00	1.04	1.09	1.14	1.19	1.29	1.41	1.55	1.66	1.76	1.85
RESIDUAL FUEL	1.70	1.00	1.13	1.19	1.26	1.31	1.42	1.60	1.78	1.93	2.05	2.15
NATURAL GAS	2.89	1.00	0.97	1.02	1.09	1.17	1.31	1.44	1.56	1.70	1.89	2.01
STEAM COAL	1.76	1.00	1.01	1.01	1.01	1.02	1.02	1.03	1.04	1.05	1.05	1.06
TRANSPORTATION												
MOTOR GASOLINE	6.02	1.00	1.03	1.07	1.10	1.12	1.19	1.28	1.39	1.48	1.55	1.61

1987 WORLD OIL PRICE
 (1987 \$/BARREL)

	PROJECTED WORLD OIL PRICE INDICES (1987 = 1.00)											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92

TABLE Ca-8, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 8 (Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.89	0.88	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
DISTILLATE FUEL	1.92	2.00	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.61	1.65	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
COMMERCIAL															
ELECTRICITY	0.89	0.88	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
DISTILLATE FUEL	1.91	1.99	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
NATURAL GAS	1.62	1.66	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
STEAM COAL	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
INDUSTRIAL															
ELECTRICITY	0.87	0.86	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
DISTILLATE FUEL	1.91	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
RESIDUAL FUEL	2.22	2.24	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
NATURAL GAS	2.06	2.13	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
STEAM COAL	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
TRANSPORTATION															
MOTOR GASOLINE	1.65	1.69	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-9. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 9 (California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam)

SECTOR/FUEL	1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)										
		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
RESIDENTIAL												
ELECTRICITY	21.31	1.00	0.98	0.95	0.92	0.89	0.86	0.84	0.84	0.85	0.85	0.86
DISTILLATE FUEL	4.45	1.00	1.04	1.09	1.15	1.19	1.29	1.42	1.55	1.67	1.77	1.85
LIQUEFIED PETROLEUM GAS	4.78	1.00	1.04	1.10	1.15	1.19	1.29	1.42	1.56	1.67	1.76	1.85
NATURAL GAS	4.88	1.00	0.99	1.01	1.05	1.09	1.16	1.22	1.31	1.39	1.47	1.54
COMMERCIAL												
ELECTRICITY	21.12	1.00	0.98	0.95	0.92	0.89	0.86	0.84	0.84	0.85	0.85	0.86
DISTILLATE FUEL	3.61	1.00	1.04	1.09	1.14	1.19	1.29	1.41	1.55	1.66	1.75	1.84
RESIDUAL FUEL	2.55	1.00	1.01	1.05	1.09	1.12	1.21	1.32	1.44	1.55	1.63	1.70
NATURAL GAS	5.64	1.00	0.96	0.95	0.96	0.97	1.00	1.04	1.09	1.15	1.20	1.24
STEAM COAL	2.75	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.02	1.03	1.03	1.04
INDUSTRIAL												
ELECTRICITY	19.79	1.00	0.98	0.95	0.91	0.89	0.85	0.83	0.83	0.84	0.84	0.85
DISTILLATE FUEL	3.78	1.00	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.66	1.75	1.84
RESIDUAL FUEL	2.61	1.00	1.00	1.05	1.09	1.12	1.20	1.32	1.44	1.55	1.63	1.70
NATURAL GAS	3.72	1.00	0.96	0.98	1.02	1.06	1.14	1.22	1.32	1.42	1.51	1.59
STEAM COAL	2.68	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01
TRANSPORTATION												
MOTOR GASOLINE	5.94	1.00	1.03	1.07	1.10	1.12	1.18	1.28	1.39	1.48	1.55	1.61
1987 WORLD OIL PRICE												
(1987 \$/BARREL)												
OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92

TABLE Ca-9, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 9 (California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
DISTILLATE FUEL	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.60	1.70	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
COMMERCIAL															
ELECTRICITY	0.86	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
NATURAL GAS	1.27	1.33	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
STEAM COAL	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
INDUSTRIAL															
ELECTRICITY	0.86	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.75	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
NATURAL GAS	1.65	1.78	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
STEAM COAL	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
TRANSPORTATION															
MOTOR GASOLINE	1.65	1.68	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-10. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 10 (Washington, Oregon, Idaho, Alaska)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)										
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
RESIDENTIAL											
ELECTRICITY	10.29	1.00	1.00	1.00	1.00	1.00	0.99	0.99	1.01	1.04	1.06
DISTILLATE FUEL	4.57	1.00	1.10	1.15	1.19	1.29	1.42	1.56	1.67	1.77	1.86
LIQUEFIED PETROLEUM GAS	4.92	1.00	1.04	1.09	1.14	1.28	1.42	1.55	1.67	1.76	1.85
NATURAL GAS	5.58	1.00	1.07	1.16	1.19	1.28	1.34	1.39	1.45	1.54	1.60
COMMERCIAL											
ELECTRICITY	10.26	1.00	1.01	1.00	1.00	1.00	0.99	0.99	1.01	1.04	1.06
DISTILLATE FUEL	3.77	1.00	1.04	1.09	1.15	1.29	1.42	1.55	1.66	1.76	1.84
RESIDUAL FUEL	2.18	1.00	1.00	1.04	1.08	1.11	1.19	1.42	1.52	1.60	1.66
NATURAL GAS	4.44	1.00	1.11	1.17	1.20	1.32	1.39	1.47	1.55	1.66	1.73
STEAM COAL	2.78	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01
INDUSTRIAL											
ELECTRICITY	8.21	1.00	1.01	1.01	1.00	0.99	0.99	0.99	1.02	1.05	1.08
DISTILLATE FUEL	3.82	1.00	1.04	1.09	1.14	1.29	1.41	1.55	1.66	1.76	1.84
RESIDUAL FUEL	2.23	1.00	1.00	1.04	1.07	1.11	1.19	1.42	1.51	1.60	1.66
NATURAL GAS	2.62	1.00	1.39	1.48	1.55	1.63	1.79	2.06	2.21	2.42	2.56
STEAM COAL	1.96	1.00	1.00	1.00	1.01	1.06	1.07	1.11	1.14	1.19	1.37
TRANSPORTATION											
MOTOR GASOLINE	6.00	1.00	1.03	1.07	1.10	1.12	1.19	1.28	1.39	1.48	1.61

PROJECTED WORLD OIL PRICE INDICES (1987 = 1.00)												
1987 WORLD OIL PRICE (1987 \$/BARREL)												
OIL PRICE ASSUMPTION	15.55	1.00	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92

TABLE Ca-10, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 10 (Washington, Oregon, Idaho, Alaska)

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	1.08	1.11	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
DISTILLATE FUEL	1.92	2.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.62	1.64	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
COMMERCIAL															
ELECTRICITY	1.08	1.10	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
DISTILLATE FUEL	1.91	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
RESIDUAL FUEL	1.72	1.78	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
NATURAL GAS	1.76	1.79	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86
STEAM COAL	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
INDUSTRIAL															
ELECTRICITY	1.10	1.13	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
DISTILLATE FUEL	1.91	1.99	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.72	1.78	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
NATURAL GAS	2.61	2.67	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81
STEAM COAL	1.54	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53
TRANSPORTATION															
MOTOR GASOLINE	1.65	1.69	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Ca-11. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 United States Average

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1987 AVERAGE FUEL PRICES (1987 \$/MILLION BTU)												
RESIDENTIAL												
ELECTRICITY	20.54	0.99	0.97	0.95	0.93	0.90	0.88	0.88	0.89	0.89	0.89	0.90
DISTILLATE FUEL	4.75	1.04	1.10	1.15	1.19	1.29	1.42	1.56	1.68	1.77	1.86	1.86
LIQUEFIED PETROLEUM GAS	4.85	1.04	1.09	1.14	1.19	1.29	1.42	1.55	1.67	1.76	1.85	1.85
NATURAL GAS	5.50	0.99	1.01	1.04	1.08	1.14	1.20	1.27	1.35	1.42	1.48	1.48
COMMERCIAL												
ELECTRICITY	20.80	0.99	0.97	0.96	0.93	0.90	0.88	0.88	0.89	0.89	0.89	0.90
DISTILLATE FUEL	3.85	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.66	1.76	1.84	1.84
RESIDUAL FUEL	2.59	1.01	1.05	1.09	1.12	1.21	1.32	1.45	1.55	1.64	1.71	1.71
NATURAL GAS	4.85	0.99	1.01	1.04	1.07	1.15	1.21	1.28	1.36	1.44	1.51	1.51
STEAM COAL	2.01	1.01	1.01	1.03	1.04	1.06	1.08	1.10	1.12	1.12	1.13	1.13
INDUSTRIAL												
ELECTRICITY	18.11	0.99	0.97	0.95	0.93	0.89	0.87	0.87	0.87	0.88	0.89	0.89
DISTILLATE FUEL	3.84	1.04	1.09	1.14	1.19	1.28	1.41	1.55	1.66	1.75	1.84	1.84
RESIDUAL FUEL	2.23	1.06	1.12	1.17	1.20	1.31	1.45	1.59	1.72	1.82	1.90	1.90
NATURAL GAS	3.12	1.00	1.06	1.12	1.20	1.32	1.43	1.57	1.72	1.85	1.97	1.97
STEAM COAL	1.75	1.01	1.02	1.04	1.06	1.08	1.11	1.14	1.17	1.18	1.20	1.20
TRANSPORTATION												
MOTOR GASOLINE	5.93	1.03	1.06	1.10	1.12	1.18	1.28	1.39	1.48	1.55	1.60	1.60
1987 WORLD OIL PRICE (1987 \$/BARREL)												
OIL PRICE ASSUMPTION	15.55	1.05	1.10	1.16	1.19	1.29	1.44	1.60	1.73	1.83	1.92	1.92

TABLE Ca-11, continued. 1987 AVERAGE FUEL PRICES AND PROJECTED AVERAGE FUEL PRICE INDICES
 BY END-USE SECTOR AND MAJOR FUEL
 United States Average

SECTOR/FUEL	PROJECTED AVERAGE FUEL PRICE INDICES (1987 = 1.00)														
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
RESIDENTIAL															
ELECTRICITY	0.90	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
DISTILLATE FUEL	1.93	2.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
LIQUEFIED PETROLEUM GAS	1.92	1.99	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
NATURAL GAS	1.53	1.59	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
COMMERCIAL															
ELECTRICITY	0.90	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.76	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
NATURAL GAS	1.56	1.62	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
STEAM COAL	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
INDUSTRIAL															
ELECTRICITY	0.89	0.90	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
DISTILLATE FUEL	1.91	1.98	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
RESIDUAL FUEL	1.96	2.01	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
NATURAL GAS	2.05	2.16	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27
STEAM COAL	1.22	1.22	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
TRANSPORTATION															
MOTOR GASOLINE	1.65	1.68	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73

PROJECTED WORLD OIL PRICE INDICES
(1987 = 1.00)

OIL PRICE ASSUMPTION	1.99	2.05	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
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TABLE Cb-1. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 1 (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-0.68	-2.11	0.19	0.00	0.00	0.00
DISTILLATE FUEL	4.61	7.86	4.41	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.60	7.84	4.41	0.00	0.00	0.00
NATURAL GAS	2.45	3.84	2.97	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-0.68	-2.11	0.19	0.00	0.00	0.00
DISTILLATE FUEL	4.56	7.79	4.43	0.00	0.00	0.00
RESIDUAL FUEL	2.81	7.27	4.00	0.00	0.00	0.00
NATURAL GAS	3.04	4.43	3.35	0.00	0.00	0.00
STEAM COAL	1.31	2.13	0.91	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-0.75	-2.33	0.21	0.00	0.00	0.00
DISTILLATE FUEL	4.55	7.77	4.43	0.00	0.00	0.00
RESIDUAL FUEL	2.88	7.29	4.01	0.00	0.00	0.00
NATURAL GAS	3.06	7.73	4.61	0.00	0.00	0.00
STEAM COAL	1.72	2.21	1.29	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.22	6.04	3.26	0.00	0.00	0.00
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WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-2. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 2 (New York, New Jersey, Puerto Rico, Virgin Islands)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	0.14	-1.89	1.24	0.00	0.00	0.00
DISTILLATE FUEL	4.62	7.87	4.41	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.61	7.85	4.40	0.00	0.00	0.00
NATURAL GAS	1.23	3.66	3.56	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	0.15	-1.95	1.29	0.00	0.00	0.00
DISTILLATE FUEL	4.58	7.78	4.43	0.00	0.00	0.00
RESIDUAL FUEL	2.88	7.29	4.01	0.00	0.00	0.00
NATURAL GAS	1.52	4.75	4.30	0.00	0.00	0.00
STEAM COAL	0.91	1.61	0.59	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	0.18	-2.38	1.58	0.00	0.00	0.00
DISTILLATE FUEL	4.46	7.74	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.93	7.32	4.02	0.00	0.00	0.00
NATURAL GAS	1.75	6.55	4.93	0.00	0.00	0.00
STEAM COAL	0.96	1.82	1.26	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.20	6.01	3.25	0.00	0.00	0.00
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WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-3. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 3
 (Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-1.73	-1.05	1.38	0.00	0.00	0.00
DISTILLATE FUEL	4.56	7.85	4.42	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.57	7.83	4.41	0.00	0.00	0.00
NATURAL GAS	1.32	3.56	3.46	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-1.75	-1.06	1.40	0.00	0.00	0.00
DISTILLATE FUEL	4.52	7.75	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.87	7.25	4.00	0.00	0.00	0.00
NATURAL GAS	1.31	3.71	3.54	0.00	0.00	0.00
STEAM COAL	1.05	1.86	0.69	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-2.02	-1.24	1.63	0.00	0.00	0.00
DISTILLATE FUEL	4.54	7.76	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.80	7.27	4.01	0.00	0.00	0.00
NATURAL GAS	2.34	6.35	4.66	0.00	0.00	0.00
STEAM COAL	1.26	2.04	1.30	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.27	6.04	3.26	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-4. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
BY END-USE SECTOR AND MAJOR FUEL

(PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 4 (Kentucky, Tennessee, North Carolina, South Carolina,
Mississippi, Alabama, Georgia, Florida, Canal Zone)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-2.68	-2.24	-0.09	0.00	0.00	0.00
DISTILLATE FUEL	4.65	7.84	4.42	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.59	7.82	4.41	0.00	0.00	0.00
NATURAL GAS	1.66	6.00	4.76	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-2.66	-2.22	-0.09	0.00	0.00	0.00
DISTILLATE FUEL	4.52	7.73	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.70	7.14	3.97	0.00	0.00	0.00
NATURAL GAS	1.84	6.28	4.98	0.00	0.00	0.00
STEAM COAL	1.49	2.61	0.76	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-2.99	-2.52	-0.10	0.00	0.00	0.00
DISTILLATE FUEL	4.54	7.75	4.44	0.00	0.00	0.00
RESIDUAL FUEL	7.43	8.74	3.92	0.00	0.00	0.00
NATURAL GAS	2.63	9.17	6.10	0.00	0.00	0.00
STEAM COAL	1.76	2.77	0.96	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.21	6.00	3.24	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-5. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 5 (Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-1.81	-2.83	0.28	0.00	0.00	0.00
DISTILLATE FUEL	4.58	7.83	4.42	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.60	7.81	4.41	0.00	0.00	0.00
NATURAL GAS	1.57	5.74	4.27	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-1.83	-2.86	0.28	0.00	0.00	0.00
DISTILLATE FUEL	4.49	7.73	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.88	7.29	4.01	0.00	0.00	0.00
NATURAL GAS	1.49	6.25	4.34	0.00	0.00	0.00
STEAM COAL	0.66	1.85	0.69	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-2.07	-3.29	0.33	0.00	0.00	0.00
DISTILLATE FUEL	4.59	7.74	4.44	0.00	0.00	0.00
RESIDUAL FUEL	7.53	8.77	3.89	0.00	0.00	0.00
NATURAL GAS	2.80	8.25	5.32	0.00	0.00	0.00
STEAM COAL	0.62	1.97	1.21	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.26	6.09	3.28	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-6. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 6 (Texas, New Mexico, Oklahoma, Arkansas, Louisiana)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	0.58	1.00	1.32	0.00	0.00	0.00
DISTILLATE FUEL	4.60	7.77	4.43	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.51	7.75	4.42	0.00	0.00	0.00
NATURAL GAS	-1.26	6.63	4.94	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	0.59	1.03	1.36	0.00	0.00	0.00
DISTILLATE FUEL	4.47	7.74	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.89	7.29	4.01	0.00	0.00	0.00
NATURAL GAS	-0.08	6.90	5.00	0.00	0.00	0.00
STEAM COAL	0.82	1.59	0.41	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	0.64	1.14	1.50	0.00	0.00	0.00
DISTILLATE FUEL	4.58	7.73	4.44	0.00	0.00	0.00
RESIDUAL FUEL	7.60	8.79	3.88	0.00	0.00	0.00
NATURAL GAS	4.59	10.61	6.49	0.00	0.00	0.00
STEAM COAL	1.23	3.31	0.91	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.23	5.98	3.23	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-7. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)
 DoE Region 7 (Kansas, Missouri, Iowa, Nebraska)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-2.12	-1.05	0.88	0.00	0.00	0.00
DISTILLATE FUEL	4.56	7.82	4.42	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.58	7.80	4.41	0.00	0.00	0.00
NATURAL GAS	3.00	6.58	4.74	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-2.19	-1.07	0.91	0.00	0.00	0.00
DISTILLATE FUEL	4.53	7.72	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.88	7.29	4.01	0.00	0.00	0.00
NATURAL GAS	3.28	7.18	4.90	0.00	0.00	0.00
STEAM COAL	0.00	1.29	0.28	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-2.40	-1.20	1.01	0.00	0.00	0.00
DISTILLATE FUEL	4.55	7.76	4.44	0.00	0.00	0.00
RESIDUAL FUEL	7.33	8.73	3.92	0.00	0.00	0.00
NATURAL GAS	3.71	8.71	5.48	0.00	0.00	0.00
STEAM COAL	0.42	1.08	1.15	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.26	6.01	3.25	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-8. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 8 (Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-2.87	-0.86	-0.04	0.00	0.00	0.00
DISTILLATE FUEL	4.65	7.82	4.42	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.60	7.80	4.41	0.00	0.00	0.00
NATURAL GAS	1.62	5.75	4.38	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-2.95	-0.89	-0.04	0.00	0.00	0.00
DISTILLATE FUEL	4.57	7.72	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.88	7.29	4.01	0.00	0.00	0.00
NATURAL GAS	1.03	6.04	4.67	0.00	0.00	0.00
STEAM COAL	0.18	0.63	0.52	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-3.37	-1.03	-0.05	0.00	0.00	0.00
DISTILLATE FUEL	4.55	7.76	4.44	0.00	0.00	0.00
RESIDUAL FUEL	7.94	8.82	3.84	0.00	0.00	0.00
NATURAL GAS	2.86	9.29	5.72	0.00	0.00	0.00
STEAM COAL	0.39	0.61	0.52	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.23	6.07	3.27	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-9. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)

DoE Region 9 (California, Nevada, Arizona, Hawaii,
 Trust Territory of the Pacific Islands, American Samoa, Guam)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-2.75	-1.56	0.84	0.00	0.00	0.00
DISTILLATE FUEL	4.60	7.82	4.42	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.63	7.80	4.41	0.00	0.00	0.00
NATURAL GAS	1.65	5.79	4.60	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-2.79	-1.58	0.85	0.00	0.00	0.00
DISTILLATE FUEL	4.52	7.71	4.45	0.00	0.00	0.00
RESIDUAL FUEL	2.86	7.25	4.00	0.00	0.00	0.00
NATURAL GAS	-1.41	3.67	3.38	0.00	0.00	0.00
STEAM COAL	-0.12	0.60	0.31	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-2.98	-1.70	0.92	0.00	0.00	0.00
DISTILLATE FUEL	4.48	7.73	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.79	7.28	4.01	0.00	0.00	0.00
NATURAL GAS	0.55	6.91	5.25	0.00	0.00	0.00
STEAM COAL	-0.13	0.12	0.30	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.28	6.04	3.26	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-10. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)
 DoE Region 10 (Washington, Oregon, Idaho, Alaska)

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-0.03	0.28	2.94	0.00	0.00	0.00
DISTILLATE FUEL	4.63	7.84	4.42	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.57	7.82	4.41	0.00	0.00	0.00
NATURAL GAS	5.88	4.07	3.16	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-0.03	0.28	2.95	0.00	0.00	0.00
DISTILLATE FUEL	4.58	7.73	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.44	7.05	3.94	0.00	0.00	0.00
NATURAL GAS	6.27	5.17	3.75	0.00	0.00	0.00
STEAM COAL	-0.12	0.17	0.27	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-0.04	0.35	3.62	0.00	0.00	0.00
DISTILLATE FUEL	4.52	7.74	4.44	0.00	0.00	0.00
RESIDUAL FUEL	2.39	7.08	3.95	0.00	0.00	0.00
NATURAL GAS	15.59	7.33	4.90	0.00	0.00	0.00
STEAM COAL	0.17	2.54	6.10	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.24	6.06	3.27	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

TABLE Cb-11. PROJECTED AVERAGE FUEL PRICE ESCALATION RATES FOR SELECTED PERIODS
 BY END-USE SECTOR AND MAJOR FUEL
 (PERCENTAGE CHANGE COMPOUNDED ANNUALLY)
 United States Average

SECTOR/FUEL	1987 to 1990	1990 to 1995	1995 to 2000	2000 to 2005	2005 to 2010	2010 to 2012
RESIDENTIAL						
ELECTRICITY	-1.59	-1.41	0.76	0.00	0.00	0.00
DISTILLATE FUEL	4.65	7.88	4.44	0.00	0.00	0.00
LIQUEFIED PETROLEUM GAS	4.57	7.81	4.41	0.00	0.00	0.00
NATURAL GAS	1.41	5.27	4.18	0.00	0.00	0.00
COMMERCIAL						
ELECTRICITY	-1.48	-1.52	0.79	0.00	0.00	0.00
DISTILLATE FUEL	4.48	7.75	4.43	0.00	0.00	0.00
RESIDUAL FUEL	2.94	7.27	4.00	0.00	0.00	0.00
NATURAL GAS	1.25	5.61	4.33	0.00	0.00	0.00
STEAM COAL	0.84	1.74	0.65	0.00	0.00	0.00
INDUSTRIAL						
ELECTRICITY	-1.72	-1.65	0.85	0.00	0.00	0.00
DISTILLATE FUEL	4.49	7.73	4.43	0.00	0.00	0.00
RESIDUAL FUEL	5.22	8.01	3.88	0.00	0.00	0.00
NATURAL GAS	3.89	8.87	5.77	0.00	0.00	0.00
STEAM COAL	1.16	2.31	1.19	0.00	0.00	0.00
TRANSPORTATION						
MOTOR GASOLINE	3.23	6.03	3.26	0.00	0.00	0.00
<hr/>						
WORLD OIL PRICE ASSUMPTION	4.94	8.31	4.31	0.00	0.00	0.00

4. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES, BY DoE REGION
(UPDATE OF APPENDIX B, PART I OF NBS SP 709,¹ FOR PRIVATE SECTOR
LIFE-CYCLE COST ANALYSIS)

This section consists of tables S-1 through S-11, which present projected nominal (i.e., current dollar) average fuel price indices for four fuels in the Residential sector and five fuels in the Commercial sector for each of the years from 1987 through 2012.² These nominal indices include the effect of four alternative, hypothetical rates of general price inflation: 0, 5, 10, and 15 percent. They are derived from the real (i.e., constant dollar) fuel price indices reported in tables Ca-1 through Ca-11 by means of the following equation:

$$I_S = I_C \cdot (1 + g)^N ,$$

where I_S = Index found in tables S-1 through S-11;
 I_C = Index found in tables Ca-1 through Ca-11;
 g = Annual rate of general price inflation in decimal form; and
 N = Year of the index minus 1987.

Thus, for the case of 0 percent inflation, the price indices in the S series of tables are identical to those in the counterpart Ca table series. The indices based on 0 percent inflation are appropriate to use for estimating future energy costs in constant dollars. The indices based on inflation rates of 5, 10, and 15 percent are appropriate to use only for estimating future energy costs in current dollars. This current dollar approach is sometimes used in private sector life-cycle cost analysis, as described in NBS SP 709. Note that life-cycle cost analysis of Federal energy conservation investments should be conducted in constant dollars, that is, without the inclusion of general price inflation, as provided in tables Ca-1 through Ca-11.

For further explanation of the use of these indices, see NBS SP 709, appendix B, Part I.

¹Rosalie T. Ruegg and Stephen R. Petersen, Comprehensive Guide for Least-Cost Energy Decisions, National Bureau of Standards Special Publication 709 (Washington, DC: Superintendent of Documents, U.S. Government Printing Office), January 1987.

²An update of the base-year prices contained in appendix E of NBS SP 709 can be found in the Ca series of tables under the column "1987 Average Fuel Prices."

Table S-1. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL

DoE Region 1 (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island)

R E S I D E N T I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				LIQUEFIED PETROLEUM GAS				NATURAL GAS			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.03	1.08	1.13	1.19	1.04	1.09	1.14	1.20	1.04	1.09	1.14	1.20	0.99	1.04	1.09	1.14
1989	1.01	1.11	1.22	1.33	1.09	1.21	1.32	1.45	1.09	1.21	1.32	1.45	1.05	1.16	1.27	1.39
1990	0.98	1.13	1.30	1.49	1.15	1.33	1.53	1.74	1.15	1.33	1.53	1.74	1.08	1.25	1.43	1.64
1991	0.95	1.16	1.39	1.66	1.19	1.45	1.74	2.08	1.19	1.45	1.74	2.08	1.10	1.33	1.61	1.92
1992	0.91	1.16	1.47	1.84	1.29	1.64	2.07	2.59	1.28	1.64	2.07	2.58	1.15	1.47	1.86	2.32
1993	0.89	1.19	1.58	2.06	1.42	1.90	2.51	3.28	1.42	1.90	2.51	3.28	1.21	1.62	2.15	2.80
1994	0.88	1.24	1.72	2.35	1.56	2.19	3.03	4.14	1.56	2.19	3.03	4.14	1.24	1.75	2.42	3.30
1995	0.88	1.30	1.89	2.69	1.67	2.47	3.59	5.12	1.67	2.47	3.58	5.11	1.30	1.92	2.79	3.98
1996	0.87	1.35	2.06	3.07	1.77	2.75	4.17	6.23	1.77	2.74	4.17	6.22	1.34	2.08	3.16	4.71
1997	0.87	1.42	2.25	3.51	1.86	3.02	4.81	7.51	1.85	3.02	4.81	7.50	1.38	2.25	3.58	5.58
1998	0.86	1.48	2.46	4.02	1.92	3.29	5.49	8.95	1.92	3.28	5.48	8.93	1.41	2.42	4.03	6.58
1999	0.88	1.58	2.76	4.70	2.00	3.59	6.27	10.69	1.99	3.58	6.26	10.67	1.45	2.60	4.54	7.75
2000	0.89	1.68	3.07	5.47	2.08	3.92	7.17	12.78	2.07	3.91	7.15	12.75	1.50	2.84	5.19	9.26
2001	0.89	1.76	3.38	6.29	2.08	4.11	7.89	14.70	2.07	4.10	7.87	14.66	1.50	2.98	5.71	10.64
2002	0.89	1.85	3.71	7.23	2.08	4.32	8.68	16.90	2.07	4.31	8.66	16.86	1.50	3.13	6.28	12.24
2003	0.89	1.94	4.09	8.32	2.08	4.53	9.55	19.44	2.07	4.52	9.52	19.39	1.50	3.28	6.91	14.08
2004	0.89	2.04	4.49	9.57	2.08	4.76	10.50	22.36	2.07	4.75	10.47	22.30	1.50	3.45	7.60	16.19
2005	0.89	2.14	4.94	11.00	2.08	5.00	11.55	25.71	2.07	4.99	11.52	25.64	1.50	3.62	8.36	18.62
2006	0.89	2.25	5.44	12.65	2.08	5.25	12.71	29.57	2.07	5.24	12.67	29.49	1.50	3.80	9.20	21.41
2007	0.89	2.36	5.98	14.55	2.08	5.51	13.98	34.00	2.07	5.50	13.94	33.91	1.50	3.99	10.12	24.62
2008	0.89	2.48	6.58	16.73	2.08	5.79	15.37	39.10	2.07	5.77	15.33	39.00	1.50	4.19	11.13	28.31
2009	0.89	2.60	7.24	19.24	2.08	6.08	16.91	44.97	2.07	6.06	16.87	44.85	1.50	4.40	12.24	32.56
2010	0.89	2.73	7.96	22.13	2.08	6.38	18.60	51.71	2.07	6.36	18.55	51.58	1.50	4.62	13.47	37.44
2011	0.89	2.87	8.76	25.45	2.08	6.70	20.46	59.47	2.07	6.68	20.41	59.31	1.50	4.85	14.82	43.06
2012	0.89	3.01	9.63	29.27	2.08	7.03	22.51	68.39	2.07	7.02	22.45	68.21	1.50	5.09	16.30	49.52

Table S-1, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 1 (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island)

C O M M E R C I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			RESIDUAL FUEL			NATURAL GAS			STEAM COAL			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.03	1.08	1.13	1.19	1.04	1.09	1.14	1.20	1.00	1.05	1.10	1.15	1.00	1.05	1.10	1.15
1989	1.01	1.11	1.22	1.33	1.09	1.20	1.32	1.44	1.05	1.16	1.27	1.39	1.06	1.17	1.29	1.41
1990	0.98	1.13	1.30	1.49	1.14	1.33	1.52	1.74	1.09	1.26	1.45	1.65	1.09	1.27	1.46	1.67
1991	0.95	1.16	1.39	1.66	1.19	1.45	1.75	2.08	1.12	1.36	1.64	1.96	1.12	1.36	1.64	1.96
1992	0.91	1.16	1.47	1.83	1.28	1.64	2.07	2.58	1.20	1.54	1.94	2.42	1.19	1.52	1.91	2.39
1993	0.89	1.19	1.57	2.06	1.41	1.89	2.50	3.27	1.32	1.77	2.34	3.05	1.25	1.68	2.22	2.90
1994	0.88	1.24	1.72	2.35	1.55	2.18	3.02	4.13	1.44	2.03	2.81	3.84	1.29	1.82	2.52	3.44
1995	0.88	1.30	1.89	2.69	1.66	2.46	3.57	5.09	1.55	2.28	3.31	4.73	1.36	2.01	2.92	4.16
1996	0.87	1.35	2.05	3.07	1.76	2.73	4.15	6.19	1.63	2.53	3.84	5.73	1.41	2.19	3.32	4.95
1997	0.87	1.41	2.25	3.51	1.85	3.01	4.79	7.47	1.70	2.77	4.41	6.88	1.46	2.38	3.79	5.91
1998	0.86	1.48	2.46	4.02	1.91	3.27	5.46	8.90	1.75	3.00	5.00	8.16	1.50	2.56	4.27	6.97
1999	0.88	1.58	2.76	4.70	1.99	3.57	6.24	10.63	1.82	3.26	5.70	9.72	1.54	2.77	4.84	8.24
2000	0.89	1.68	3.07	5.47	2.07	3.90	7.14	12.72	1.88	3.55	6.49	11.57	1.61	3.03	5.54	9.88
2001	0.89	1.76	3.38	6.29	2.07	4.09	7.85	14.63	1.88	3.72	7.14	13.31	1.61	3.18	6.10	11.36
2002	0.89	1.85	3.71	7.23	2.07	4.30	8.64	16.82	1.88	3.91	7.86	15.30	1.61	3.34	6.70	13.06
2003	0.89	1.94	4.08	8.32	2.07	4.51	9.50	19.35	1.88	4.10	8.64	17.60	1.61	3.50	7.38	15.02
2004	0.89	2.04	4.49	9.56	2.07	4.74	10.45	22.25	1.88	4.31	9.50	20.24	1.61	3.68	8.11	17.27
2005	0.89	2.14	4.94	11.00	2.07	4.98	11.49	25.58	1.88	4.53	10.46	23.27	1.61	3.86	8.92	19.86
2006	0.89	2.25	5.44	12.65	2.07	5.22	12.64	29.42	1.88	4.75	11.50	26.76	1.61	4.06	9.82	22.84
2007	0.89	2.36	5.98	14.55	2.07	5.49	13.91	33.84	1.88	4.99	12.65	30.78	1.61	4.26	10.80	26.27
2008	0.89	2.48	6.58	16.73	2.07	5.76	15.30	38.91	1.88	5.24	13.92	35.39	1.61	4.47	11.88	30.21
2009	0.89	2.60	7.23	19.24	2.07	6.05	16.83	44.75	1.88	5.50	15.31	40.70	1.61	4.70	13.07	34.74
2010	0.89	2.73	7.96	22.12	2.07	6.35	18.51	51.46	1.88	5.78	16.84	46.81	1.61	4.93	14.37	39.95
2011	0.89	2.87	8.75	25.44	2.07	6.67	20.36	59.18	1.88	6.06	18.52	53.83	1.61	5.18	15.81	45.95
2012	0.89	3.01	9.63	29.26	2.07	7.00	22.40	68.05	1.88	6.37	20.37	61.90	1.61	5.44	17.39	52.84

Table S-2. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 2 (New York, New Jersey, Puerto Rico, Virgin Islands)

R E S I D E N T I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			LIQUEFIED PETROLEUM GAS			NATURAL GAS		
	0Z	5Z	10Z	15Z	0Z	5Z	10Z	15Z	0Z	5Z	10Z	15Z
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.02	1.07	1.12	1.17	1.04	1.09	1.15	1.20	1.04	1.09	1.15	1.20
1989	1.01	1.11	1.22	1.33	1.09	1.21	1.32	1.45	1.09	1.21	1.32	1.45
1990	1.00	1.16	1.34	1.53	1.15	1.33	1.53	1.74	1.15	1.33	1.53	1.74
1991	0.98	1.19	1.43	1.71	1.19	1.45	1.75	2.09	1.19	1.45	1.74	2.08
1992	0.93	1.19	1.50	1.88	1.29	1.64	2.07	2.59	1.28	1.64	2.07	2.58
1993	0.91	1.22	1.61	2.10	1.42	1.90	2.52	3.29	1.42	1.90	2.51	3.28
1994	0.91	1.28	1.77	2.41	1.56	2.19	3.04	4.15	1.56	2.19	3.04	4.14
1995	0.91	1.35	1.96	2.79	1.68	2.47	3.59	5.12	1.67	2.47	3.59	5.12
1996	0.92	1.43	2.18	3.25	1.77	2.75	4.18	6.24	1.77	2.75	4.17	6.23
1997	0.93	1.52	2.42	3.78	1.86	3.03	4.82	7.52	1.86	3.02	4.81	7.51
1998	0.94	1.61	2.69	4.39	1.93	3.30	5.50	8.96	1.92	3.29	5.49	8.95
1999	0.96	1.73	3.02	5.14	2.00	3.59	6.28	10.70	2.00	3.58	6.26	10.68
2000	0.97	1.83	3.35	5.98	2.08	3.92	7.18	12.80	2.07	3.91	7.16	12.76
2001	0.97	1.92	3.69	6.87	2.08	4.12	7.90	14.72	2.07	4.11	7.88	14.68
2002	0.97	2.02	4.06	7.90	2.08	4.32	8.69	16.92	2.07	4.31	8.66	16.88
2003	0.97	2.12	4.46	9.09	2.08	4.54	9.56	19.46	2.07	4.53	9.53	19.41
2004	0.97	2.23	4.91	10.45	2.08	4.77	10.51	22.38	2.07	4.75	10.48	22.32
2005	0.97	2.34	5.40	12.02	2.08	5.00	11.56	25.74	2.07	4.99	11.53	25.67
2006	0.97	2.45	5.94	13.82	2.08	5.26	12.72	29.60	2.07	5.24	12.68	29.52
2007	0.97	2.58	6.53	15.90	2.08	5.52	13.99	34.04	2.07	5.50	13.95	33.95
2008	0.97	2.71	7.19	18.28	2.08	5.79	15.39	39.14	2.07	5.78	15.35	39.04
2009	0.97	2.84	7.91	21.02	2.08	6.08	16.93	45.01	2.07	6.07	16.88	44.89
2010	0.97	2.98	8.70	24.18	2.08	6.39	18.62	51.77	2.07	6.37	18.57	51.63
2011	0.97	3.13	9.57	27.80	2.08	6.71	20.48	59.53	2.07	6.69	20.43	59.37
2012	0.97	3.29	10.52	31.97	2.08	7.04	22.53	68.46	2.07	7.02	22.47	68.28

Table S-2, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 2 (New York, New Jersey, Puerto Rico, Virgin Islands)

C O M M E R C I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			RESIDUAL FUEL			NATURAL GAS			STEAM COAL			
	0%	5%	10%	0%	5%	10%	0%	5%	10%	0%	5%	10%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.02	1.07	1.12	1.04	1.09	1.14	1.01	1.06	1.11	1.16	0.99	1.04	1.09	1.01	1.06	1.11
1989	1.01	1.11	1.22	1.09	1.21	1.32	1.05	1.16	1.27	1.39	1.01	1.12	1.23	1.01	1.12	1.23
1990	1.00	1.16	1.34	1.15	1.33	1.52	1.09	1.26	1.45	1.66	1.05	1.21	1.39	1.03	1.19	1.37
1991	0.98	1.19	1.43	1.19	1.45	1.75	1.12	1.36	1.64	1.96	1.07	1.31	1.57	1.04	1.27	1.53
1992	0.93	1.19	1.50	1.29	1.64	2.07	1.21	1.54	1.94	2.43	1.14	1.46	1.84	1.06	1.35	1.71
1993	0.91	1.21	1.60	1.42	1.90	2.51	1.32	1.77	2.35	3.06	1.19	1.60	2.11	1.07	1.44	1.90
1994	0.90	1.27	1.76	1.55	2.19	3.03	1.45	2.04	2.82	3.85	1.25	1.76	2.44	1.09	1.54	2.13
1995	0.91	1.34	1.95	1.67	2.46	3.57	1.55	2.29	3.32	4.74	1.32	1.95	2.83	1.11	1.64	2.38
1996	0.92	1.43	2.17	1.76	2.73	4.16	1.64	2.54	3.86	5.76	1.40	2.16	3.29	1.12	1.74	2.64
1997	0.93	1.52	2.42	1.85	3.01	4.80	1.71	2.78	4.43	6.91	1.46	2.38	3.78	1.13	1.84	2.93
1998	0.94	1.61	2.69	1.92	3.28	5.47	1.76	3.01	5.03	8.20	1.51	2.58	4.31	1.14	1.95	3.25
1999	0.96	1.72	3.01	1.99	3.58	6.25	1.82	3.28	5.73	9.76	1.57	2.82	4.93	1.14	2.05	3.59
2000	0.97	1.83	3.35	2.07	3.91	7.15	1.89	3.57	6.53	11.63	1.63	3.08	5.63	1.15	2.17	3.96
2001	0.97	1.92	3.68	2.07	4.10	7.87	1.89	3.74	7.18	13.38	1.63	3.23	6.19	1.15	2.27	4.36
2002	0.97	2.02	4.05	2.07	4.31	8.65	1.89	3.93	7.90	15.38	1.63	3.39	6.81	1.15	2.39	4.80
2003	0.97	2.12	4.46	2.07	4.52	9.52	1.89	4.13	8.69	17.69	1.63	3.56	7.49	1.15	2.51	5.28
2004	0.97	2.22	4.90	2.07	4.75	10.47	1.89	4.33	9.56	20.35	1.63	3.74	8.24	1.15	2.63	5.80
2005	0.97	2.34	5.40	2.07	4.99	11.52	1.89	4.55	10.51	23.40	1.63	3.93	9.07	1.15	2.76	6.38
2006	0.97	2.45	5.93	2.07	5.23	12.67	1.89	4.78	11.56	26.91	1.63	4.12	9.98	1.15	2.90	7.02
2007	0.97	2.57	6.53	2.07	5.50	13.94	1.89	5.02	12.72	30.94	1.63	4.33	10.97	1.15	3.05	7.72
2008	0.97	2.70	7.18	2.07	5.77	15.33	1.89	5.27	13.99	35.58	1.63	4.54	12.07	1.15	3.20	8.50
2009	0.97	2.84	7.90	2.07	6.06	16.86	1.89	5.53	15.39	40.92	1.63	4.77	13.28	1.15	3.36	9.35
2010	0.97	2.98	8.69	2.07	6.36	18.55	1.89	5.81	16.93	47.06	1.63	5.01	14.61	1.15	3.53	10.28
2011	0.97	3.13	9.56	2.07	6.68	20.40	1.89	6.10	18.62	54.12	1.63	5.26	16.07	1.15	3.70	11.31
2012	0.97	3.29	10.51	2.07	7.01	22.44	1.89	6.40	20.48	62.24	1.63	5.52	17.67	1.15	3.89	12.44
																37.80

Table S-3. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL

DoE Region 3 (Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware)

R E S I D E N T I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				LIQUEFIED PETROLEUM GAS				NATURAL GAS			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.98	1.03	1.08	1.13	1.04	1.09	1.15	1.20	1.04	1.09	1.14	1.20	0.99	1.04	1.09	1.14
1989	0.97	1.07	1.18	1.29	1.09	1.21	1.32	1.45	1.09	1.21	1.32	1.45	1.02	1.12	1.23	1.35
1990	0.95	1.10	1.26	1.44	1.14	1.33	1.52	1.74	1.14	1.33	1.52	1.74	1.04	1.20	1.39	1.58
1991	0.92	1.12	1.35	1.61	1.19	1.45	1.74	2.08	1.19	1.45	1.74	2.08	1.07	1.30	1.56	1.87
1992	0.90	1.15	1.45	1.82	1.29	1.64	2.07	2.58	1.29	1.64	2.07	2.59	1.11	1.42	1.79	2.23
1993	0.90	1.21	1.59	2.08	1.42	1.90	2.51	3.28	1.42	1.90	2.51	3.28	1.15	1.54	2.03	2.65
1994	0.90	1.26	1.75	2.39	1.56	2.19	3.03	4.14	1.56	2.19	3.03	4.14	1.19	1.68	2.32	3.17
1995	0.90	1.33	1.93	2.75	1.67	2.47	3.58	5.11	1.67	2.47	3.58	5.11	1.24	1.83	2.66	3.80
1996	0.92	1.43	2.18	3.25	1.77	2.74	4.17	6.22	1.77	2.74	4.17	6.22	1.30	2.01	3.06	4.56
1997	0.93	1.51	2.41	3.75	1.86	3.02	4.81	7.51	1.85	3.02	4.81	7.50	1.35	2.19	3.49	5.45
1998	0.94	1.60	2.67	4.35	1.92	3.29	5.49	8.95	1.92	3.28	5.48	8.93	1.39	2.37	3.96	6.45
1999	0.93	1.67	2.91	4.97	2.00	3.58	6.26	10.68	1.99	3.58	6.26	10.67	1.42	2.55	4.46	7.61
2000	0.96	1.82	3.33	5.93	2.07	3.91	7.16	12.76	2.07	3.91	7.15	12.75	1.47	2.77	5.07	9.04
2001	0.96	1.91	3.66	6.82	2.07	4.11	7.88	14.68	2.07	4.10	7.87	14.66	1.47	2.91	5.58	10.40
2002	0.96	2.00	4.02	7.84	2.07	4.31	8.67	16.88	2.07	4.31	8.65	16.86	1.47	3.05	6.14	11.96
2003	0.96	2.10	4.43	9.01	2.07	4.53	9.53	19.41	2.07	4.52	9.52	19.38	1.47	3.21	6.75	13.75
2004	0.96	2.21	4.87	10.37	2.07	4.75	10.49	22.32	2.07	4.75	10.47	22.29	1.47	3.37	7.43	15.81
2005	0.96	2.32	5.36	11.92	2.07	4.99	11.53	25.67	2.07	4.99	11.52	25.63	1.47	3.54	8.17	18.19
2006	0.96	2.43	5.89	13.71	2.07	5.24	12.69	29.52	2.07	5.23	12.67	29.48	1.47	3.71	8.99	20.91
2007	0.96	2.56	6.48	15.77	2.07	5.50	13.96	33.95	2.07	5.50	13.94	33.90	1.47	3.90	9.89	24.05
2008	0.96	2.68	7.13	18.13	2.07	5.78	15.35	39.05	2.07	5.77	15.33	38.99	1.47	4.09	10.87	27.66
2009	0.96	2.82	7.84	20.85	2.07	6.07	16.89	44.90	2.07	6.06	16.86	44.84	1.47	4.30	11.96	31.81
2010	0.96	2.96	8.63	23.98	2.07	6.37	18.58	51.64	2.07	6.36	18.55	51.56	1.47	4.51	13.16	36.58
2011	0.96	3.11	9.49	27.58	2.07	6.69	20.43	59.38	2.07	6.68	20.40	59.30	1.47	4.74	14.47	42.06
2012	0.96	3.26	10.44	31.71	2.07	7.03	22.48	68.29	2.07	7.01	22.44	68.19	1.47	4.98	15.92	48.37

Table S-3, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 3 (Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware)

C O M M E R C I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				RESIDUAL FUEL				NATURAL GAS				STEAM COAL				
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.98	1.03	1.08	1.13	1.04	1.09	1.14	1.20	1.01	1.06	1.11	1.16	0.99	1.04	1.09	1.14	1.01	1.06	1.11	1.16	1.01
1989	0.97	1.07	1.18	1.29	1.09	1.20	1.32	1.44	1.05	1.16	1.27	1.39	1.02	1.12	1.23	1.35	1.01	1.11	1.22	1.34	1.01
1990	0.95	1.10	1.26	1.44	1.14	1.32	1.52	1.74	1.09	1.26	1.45	1.66	1.04	1.20	1.38	1.58	1.03	1.19	1.37	1.57	1.03
1991	0.92	1.12	1.35	1.61	1.19	1.45	1.74	2.08	1.12	1.36	1.64	1.96	1.07	1.30	1.57	1.87	1.05	1.27	1.53	1.83	1.05
1992	0.90	1.15	1.45	1.81	1.28	1.64	2.07	2.58	1.20	1.54	1.94	2.42	1.11	1.42	1.80	2.24	1.07	1.37	1.72	2.15	1.07
1993	0.90	1.20	1.59	2.08	1.41	1.89	2.50	3.27	1.32	1.77	2.34	3.06	1.15	1.55	2.04	2.67	1.09	1.45	1.92	2.51	1.09
1994	0.90	1.26	1.75	2.39	1.55	2.18	3.02	4.12	1.44	2.03	2.81	3.84	1.20	1.68	2.33	3.18	1.11	1.56	2.16	2.94	1.11
1995	0.90	1.33	1.93	2.75	1.66	2.45	3.56	5.08	1.54	2.28	3.31	4.73	1.25	1.84	2.68	3.82	1.13	1.67	2.42	3.45	1.13
1996	0.92	1.43	2.18	3.25	1.75	2.72	4.13	6.17	1.63	2.54	3.85	5.75	1.31	2.03	3.08	4.59	1.14	1.77	2.69	4.01	1.14
1997	0.93	1.51	2.40	3.75	1.84	3.00	4.77	7.45	1.70	2.77	4.41	6.87	1.36	2.21	3.53	5.50	1.15	1.87	2.98	4.65	1.15
1998	0.93	1.60	2.67	4.35	1.91	3.26	5.44	8.87	1.76	3.00	5.01	8.17	1.40	2.39	3.99	6.51	1.16	1.98	3.31	5.40	1.16
1999	0.93	1.67	2.91	4.96	1.98	3.56	6.23	10.62	1.82	3.26	5.70	9.72	1.43	2.57	4.49	7.66	1.17	2.09	3.66	6.24	1.17
2000	0.96	1.82	3.32	5.92	2.06	3.89	7.12	12.70	1.88	3.55	6.50	11.58	1.49	2.80	5.13	9.14	1.17	2.21	4.04	7.21	1.17
2001	0.96	1.91	3.66	6.81	2.06	4.09	7.84	14.60	1.88	3.73	7.15	13.32	1.49	2.94	5.64	10.51	1.17	2.32	4.45	8.29	1.17
2002	0.96	2.00	4.02	7.84	2.06	4.29	8.62	16.79	1.88	3.91	7.86	15.31	1.49	3.09	6.21	12.09	1.17	2.43	4.89	9.53	1.17
2003	0.96	2.10	4.42	9.01	2.06	4.50	9.48	19.31	1.88	4.11	8.65	17.61	1.49	3.24	6.83	13.90	1.17	2.56	5.38	10.96	1.17
2004	0.96	2.21	4.87	10.36	2.06	4.73	10.43	22.21	1.88	4.31	9.51	20.25	1.49	3.41	7.51	15.99	1.17	2.68	5.92	12.60	1.17
2005	0.96	2.32	5.35	11.92	2.06	4.97	11.47	25.54	1.88	4.53	10.46	23.29	1.49	3.58	8.26	18.39	1.17	2.82	6.51	14.49	1.17
2006	0.96	2.43	5.89	13.70	2.06	5.21	12.62	29.37	1.88	4.76	11.51	26.79	1.49	3.75	9.09	21.14	1.17	2.96	7.16	16.67	1.17
2007	0.96	2.55	6.48	15.76	2.06	5.48	13.88	33.77	1.88	4.99	12.66	30.80	1.49	3.94	9.99	24.32	1.17	3.11	7.88	19.17	1.17
2008	0.96	2.68	7.13	18.12	2.06	5.75	15.27	38.84	1.88	5.24	13.93	35.42	1.49	4.14	10.99	27.96	1.17	3.26	8.67	22.04	1.17
2009	0.96	2.82	7.84	20.84	2.06	6.04	16.80	44.67	1.88	5.51	15.32	40.74	1.49	4.35	12.09	32.16	1.17	3.43	9.53	25.35	1.17
2010	0.96	2.96	8.62	23.97	2.06	6.34	18.48	51.37	1.88	5.78	16.85	46.85	1.49	4.56	13.30	36.98	1.17	3.60	10.49	29.15	1.17
2011	0.96	3.11	9.48	27.56	2.06	6.66	20.33	59.07	1.88	6.07	18.54	53.88	1.49	4.79	14.63	42.53	1.17	3.78	11.54	33.52	1.17
2012	0.96	3.26	10.43	31.70	2.06	6.99	22.36	67.93	1.88	6.37	20.39	61.96	1.49	5.03	16.10	48.91	1.17	3.97	12.69	38.55	1.17

Table S-4. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL

DoE Region 4 (Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone)

R E S I D E N T I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			LIQUEFIED PETROLEUM GAS			NATURAL GAS		
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.95	1.00	1.05	1.10	1.04	1.09	1.15	1.20	1.04	1.09	1.15	1.20
1989	0.93	1.03	1.13	1.23	1.09	1.21	1.32	1.45	1.09	1.21	1.32	1.45
1990	0.92	1.07	1.23	1.40	1.15	1.33	1.53	1.75	1.15	1.33	1.52	1.74
1991	0.90	1.10	1.32	1.58	1.19	1.45	1.75	2.09	1.19	1.45	1.74	2.08
1992	0.87	1.11	1.41	1.76	1.29	1.64	2.08	2.59	1.28	1.64	2.07	2.58
1993	0.85	1.13	1.50	1.96	1.42	1.90	2.52	3.29	1.42	1.90	2.51	3.28
1994	0.84	1.18	1.63	2.22	1.56	2.19	3.04	4.15	1.56	2.19	3.03	4.14
1995	0.82	1.22	1.76	2.52	1.67	2.47	3.59	5.12	1.67	2.47	3.58	5.11
1996	0.82	1.26	1.92	2.87	1.77	2.75	4.17	6.23	1.77	2.74	4.16	6.21
1997	0.82	1.33	2.12	3.30	1.86	3.02	4.82	7.51	1.85	3.02	4.80	7.49
1998	0.81	1.39	2.32	3.78	1.92	3.29	5.49	8.95	1.92	3.28	5.47	8.93
1999	0.81	1.46	2.56	4.36	2.00	3.59	6.27	10.69	1.99	3.58	6.25	10.66
2000	0.82	1.54	2.83	5.04	2.08	3.92	7.17	12.79	2.07	3.90	7.15	12.74
2001	0.82	1.62	3.11	5.79	2.08	4.11	7.89	14.71	2.07	4.10	7.86	14.65
2002	0.82	1.70	3.42	6.66	2.08	4.32	8.68	16.91	2.07	4.30	8.65	16.85
2003	0.82	1.79	3.76	7.66	2.08	4.54	9.55	19.45	2.07	4.52	9.51	19.38
2004	0.82	1.88	4.14	8.81	2.08	4.76	10.50	22.37	2.07	4.75	10.47	22.28
2005	0.82	1.97	4.55	10.13	2.08	5.00	11.56	25.72	2.07	4.98	11.51	25.63
2006	0.82	2.07	5.01	11.65	2.08	5.25	12.71	29.58	2.07	5.23	12.66	29.47
2007	0.82	2.17	5.51	13.40	2.08	5.51	13.98	34.01	2.07	5.49	13.93	33.89
2008	0.82	2.28	6.06	15.41	2.08	5.79	15.38	39.12	2.07	5.77	15.32	38.97
2009	0.82	2.39	6.66	17.72	2.08	6.08	16.92	44.98	2.07	6.06	16.86	44.82
2010	0.82	2.51	7.33	20.38	2.08	6.38	18.61	51.73	2.07	6.36	18.54	51.54
2011	0.82	2.64	8.06	23.43	2.08	6.70	20.47	59.49	2.07	6.68	20.40	59.27
2012	0.82	2.77	8.87	26.95	2.08	7.04	22.52	68.42	2.07	7.01	22.44	68.16

Table S-4, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 4 (Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone)

C O M M E R C I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				RESIDUAL FUEL				NATURAL GAS				STEAM COAL			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.95	1.00	1.05	1.10	1.04	1.09	1.14	1.19	1.00	1.05	1.10	1.15	1.00	1.05	1.10	1.15	1.01	1.06	1.11	1.16
1989	0.93	1.03	1.13	1.24	1.09	1.20	1.32	1.44	1.04	1.15	1.26	1.38	1.02	1.12	1.23	1.35	1.02	1.13	1.24	1.35
1990	0.92	1.07	1.23	1.40	1.14	1.32	1.52	1.74	1.08	1.25	1.44	1.65	1.06	1.22	1.41	1.61	1.05	1.21	1.39	1.59
1991	0.90	1.10	1.32	1.58	1.19	1.45	1.74	2.08	1.12	1.36	1.63	1.95	1.09	1.33	1.60	1.91	1.07	1.31	1.57	1.88
1992	0.87	1.12	1.41	1.76	1.28	1.64	2.07	2.58	1.19	1.52	1.92	2.40	1.18	1.50	1.90	2.37	1.11	1.41	1.79	2.23
1993	0.85	1.14	1.50	1.96	1.41	1.89	2.50	3.27	1.31	1.75	2.31	3.02	1.25	1.67	2.21	2.88	1.14	1.52	2.01	2.63
1994	0.84	1.18	1.63	2.23	1.55	2.17	3.01	4.11	1.42	2.00	2.78	3.79	1.33	1.87	2.60	3.54	1.17	1.64	2.27	3.10
1995	0.82	1.22	1.77	2.52	1.66	2.45	3.55	5.07	1.53	2.26	3.27	4.67	1.43	2.12	3.07	4.38	1.19	1.76	2.55	3.64
1996	0.82	1.27	1.93	2.87	1.75	2.72	4.13	6.16	1.61	2.50	3.80	5.67	1.52	2.36	3.59	5.35	1.20	1.86	2.83	4.22
1997	0.82	1.33	2.12	3.31	1.84	2.99	4.77	7.43	1.68	2.73	4.35	6.78	1.60	2.61	4.16	6.48	1.21	1.97	3.14	4.90
1998	0.82	1.39	2.33	3.79	1.91	3.26	5.44	8.87	1.73	2.96	4.94	8.05	1.66	2.83	4.73	7.71	1.22	2.09	3.49	5.69
1999	0.82	1.47	2.56	4.37	1.98	3.56	6.22	10.60	1.79	3.22	5.62	9.59	1.72	3.10	5.41	9.23	1.23	2.21	3.86	6.57
2000	0.82	1.55	2.83	5.05	2.06	3.89	7.11	12.68	1.85	3.50	6.40	11.41	1.83	3.44	6.30	11.23	1.24	2.34	4.28	7.63
2001	0.82	1.62	3.12	5.80	2.06	4.08	7.83	14.58	1.85	3.67	7.04	13.12	1.83	3.61	6.93	12.92	1.24	2.46	4.71	8.77
2002	0.82	1.71	3.43	6.68	2.06	4.28	8.61	16.77	1.85	3.85	7.74	15.09	1.83	3.79	7.62	14.85	1.24	2.58	5.18	10.09
2003	0.82	1.79	3.77	7.68	2.06	4.50	9.47	19.28	1.85	4.05	8.52	17.35	1.83	3.98	8.39	17.08	1.24	2.71	5.70	11.60
2004	0.82	1.88	4.15	8.83	2.06	4.72	10.42	22.17	1.85	4.25	9.37	19.95	1.83	4.18	9.23	19.64	1.24	2.84	6.27	13.34
2005	0.82	1.97	4.56	10.15	2.06	4.96	11.46	25.50	1.85	4.46	10.31	22.94	1.83	4.39	10.15	22.59	1.24	2.98	6.89	15.35
2006	0.82	2.07	5.02	11.68	2.06	5.21	12.60	29.33	1.85	4.68	11.34	26.39	1.83	4.61	11.16	25.98	1.24	3.13	7.58	17.65
2007	0.82	2.18	5.52	13.43	2.06	5.47	13.86	33.72	1.85	4.92	12.47	30.34	1.83	4.84	12.28	29.87	1.24	3.29	8.34	20.29
2008	0.82	2.29	6.07	15.44	2.06	5.74	15.25	38.78	1.85	5.17	13.72	34.89	1.83	5.09	13.51	34.36	1.24	3.45	9.18	23.34
2009	0.82	2.40	6.68	17.76	2.06	6.03	16.77	44.60	1.85	5.42	15.09	40.13	1.83	5.34	14.86	39.51	1.24	3.63	10.09	26.84
2010	0.82	2.52	7.35	20.42	2.06	6.33	18.45	51.29	1.85	5.69	16.60	46.15	1.83	5.61	16.34	45.44	1.24	3.81	11.10	30.87
2011	0.82	2.65	8.08	23.48	2.06	6.65	20.30	58.99	1.85	5.98	18.26	53.07	1.83	5.89	17.98	52.25	1.24	4.00	12.21	35.50
2012	0.82	2.78	8.89	27.01	2.06	6.98	22.33	67.83	1.85	6.28	20.09	61.03	1.83	6.18	19.78	60.09	1.24	4.20	13.44	40.82

Table S-5. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 5 (Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio)

R E S I D E N T I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			LIQUEFIED PETROLEUM GAS			NATURAL GAS		
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.00	1.05	1.10	1.15	1.09	1.15	1.20	1.20	1.04	1.09	1.15	1.20
1989	0.97	1.07	1.17	1.28	1.09	1.21	1.32	1.45	1.09	1.21	1.32	1.45
1990	0.95	1.10	1.26	1.44	1.15	1.33	1.52	1.74	1.15	1.33	1.53	1.74
1991	0.91	1.11	1.34	1.60	1.19	1.45	1.75	2.09	1.19	1.45	1.75	2.09
1992	0.87	1.11	1.41	1.76	1.29	1.64	2.07	2.59	1.29	1.64	2.07	2.59
1993	0.84	1.12	1.49	1.94	1.42	1.90	2.51	3.28	1.42	1.90	2.51	3.28
1994	0.82	1.16	1.60	2.19	1.56	2.19	3.03	4.14	1.55	2.19	3.03	4.13
1995	0.82	1.21	1.76	2.51	1.67	2.47	3.58	5.11	1.67	2.46	3.58	5.10
1996	0.82	1.27	1.93	2.89	1.77	2.74	4.17	6.22	1.77	2.74	4.16	6.21
1997	0.82	1.34	2.14	3.33	1.85	3.02	4.81	7.50	1.85	3.02	4.80	7.49
1998	0.82	1.40	2.33	3.80	1.92	3.29	5.49	8.95	1.92	3.28	5.47	8.92
1999	0.84	1.51	2.63	4.49	2.00	3.58	6.26	10.68	1.99	3.58	6.25	10.66
2000	0.83	1.57	2.87	5.11	2.08	3.91	7.16	12.77	2.07	3.91	7.15	12.75
2001	0.83	1.65	3.16	5.88	2.08	4.11	7.88	14.68	2.07	4.10	7.87	14.66
2002	0.83	1.73	3.47	6.76	2.08	4.31	8.67	16.88	2.07	4.31	8.65	16.86
2003	0.83	1.81	3.82	7.78	2.08	4.53	9.53	19.42	2.07	4.52	9.52	19.39
2004	0.83	1.90	4.20	8.94	2.08	4.76	10.49	22.33	2.07	4.75	10.47	22.30
2005	0.83	2.00	4.62	10.28	2.08	4.99	11.54	25.68	2.07	4.99	11.52	25.64
2006	0.83	2.10	5.08	11.83	2.08	5.24	12.69	29.53	2.07	5.24	12.67	29.49
2007	0.83	2.20	5.59	13.60	2.08	5.51	13.96	33.96	2.07	5.50	13.94	33.91
2008	0.83	2.32	6.15	15.64	2.08	5.78	15.36	39.05	2.07	5.77	15.33	39.00
2009	0.83	2.43	6.76	17.99	2.08	6.07	16.89	44.91	2.07	6.06	16.87	44.85
2010	0.83	2.55	7.44	20.68	2.08	6.37	18.58	51.65	2.07	6.36	18.55	51.57
2011	0.83	2.68	8.19	23.79	2.08	6.69	20.44	59.40	2.07	6.68	20.41	59.31
2012	0.83	2.81	9.00	27.36	2.08	7.03	22.48	68.31	2.07	7.02	22.45	68.20

Table S-5, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 5 (Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio)

C O M M E R C I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				RESIDUAL FUEL				NATURAL GAS				STEAM COAL			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.00	1.05	1.10	1.15	1.04	1.09	1.15	1.20	1.00	1.05	1.10	1.15	0.99	1.04	1.09	1.13	1.01	1.06	1.11	1.16
1989	0.97	1.07	1.17	1.28	1.09	1.21	1.32	1.45	1.05	1.15	1.27	1.38	1.01	1.11	1.22	1.34	1.01	1.11	1.22	1.33
1990	0.95	1.09	1.26	1.44	1.14	1.32	1.52	1.74	1.09	1.26	1.45	1.66	1.05	1.21	1.39	1.59	1.02	1.18	1.36	1.55
1991	0.91	1.11	1.34	1.60	1.19	1.45	1.74	2.08	1.12	1.36	1.64	1.96	1.09	1.33	1.60	1.91	1.04	1.26	1.52	1.81
1992	0.87	1.11	1.40	1.75	1.28	1.64	2.07	2.58	1.20	1.54	1.94	2.42	1.18	1.50	1.90	2.37	1.06	1.35	1.70	2.12
1993	0.84	1.12	1.48	1.94	1.41	1.89	2.50	3.27	1.32	1.77	2.34	3.05	1.25	1.67	2.21	2.88	1.08	1.44	1.91	2.49
1994	0.82	1.16	1.60	2.19	1.55	2.18	3.02	4.12	1.45	2.03	2.82	3.84	1.33	1.88	2.60	3.54	1.10	1.54	2.14	2.92
1995	0.82	1.21	1.75	2.50	1.66	2.45	3.56	5.08	1.55	2.29	3.32	4.73	1.42	2.09	3.04	4.34	1.12	1.65	2.39	3.41
1996	0.82	1.27	1.93	2.88	1.75	2.72	4.13	6.17	1.63	2.53	3.85	5.74	1.49	2.32	3.52	5.26	1.13	1.75	2.66	3.96
1997	0.82	1.34	2.13	3.33	1.84	3.00	4.78	7.45	1.70	2.77	4.42	6.89	1.56	2.54	4.05	6.32	1.13	1.84	2.93	4.58
1998	0.82	1.39	2.33	3.79	1.91	3.26	5.44	8.87	1.76	3.01	5.02	8.18	1.61	2.76	4.60	7.50	1.15	1.96	3.27	5.33
1999	0.84	1.51	2.63	4.49	1.98	3.56	6.23	10.61	1.82	3.27	5.71	9.74	1.68	3.01	5.26	8.97	1.15	2.07	3.61	6.16
2000	0.83	1.56	2.86	5.10	2.06	3.89	7.12	12.69	1.88	3.55	6.50	11.58	1.75	3.31	6.05	10.78	1.16	2.18	3.99	7.12
2001	0.83	1.64	3.15	5.87	2.06	4.08	7.83	14.60	1.88	3.73	7.15	13.32	1.75	3.47	6.66	12.40	1.16	2.29	4.39	8.18
2002	0.83	1.72	3.47	6.75	2.06	4.29	8.62	16.79	1.88	3.91	7.86	15.32	1.75	3.64	7.32	14.26	1.16	2.40	4.83	9.41
2003	0.83	1.81	3.81	7.76	2.06	4.50	9.48	19.30	1.88	4.11	8.65	17.62	1.75	3.83	8.05	16.40	1.16	2.52	5.31	10.82
2004	0.83	1.90	4.19	8.93	2.06	4.73	10.43	22.20	1.88	4.32	9.52	20.26	1.75	4.02	8.86	18.86	1.16	2.65	5.85	12.45
2005	0.83	2.00	4.61	10.27	2.06	4.96	11.47	25.53	1.88	4.53	10.47	23.30	1.75	4.22	9.75	21.69	1.16	2.78	6.43	14.31
2006	0.83	2.10	5.07	11.81	2.06	5.21	12.62	29.36	1.88	4.76	11.52	26.80	1.75	4.43	10.72	24.94	1.16	2.92	7.07	16.46
2007	0.83	2.20	5.58	13.58	2.06	5.47	13.88	33.76	1.88	5.00	12.67	30.82	1.75	4.65	11.79	28.69	1.16	3.07	7.78	18.93
2008	0.83	2.31	6.14	15.62	2.06	5.75	15.27	38.83	1.88	5.25	13.93	35.44	1.75	4.88	12.97	32.99	1.16	3.22	8.56	21.77
2009	0.83	2.43	6.75	17.96	2.06	6.03	16.79	44.65	1.88	5.51	15.33	40.75	1.75	5.13	14.27	37.94	1.16	3.38	9.41	25.03
2010	0.83	2.55	7.43	20.65	2.06	6.34	18.47	51.35	1.88	5.78	16.86	46.87	1.75	5.38	15.69	43.63	1.16	3.55	10.36	28.79
2011	0.83	2.68	8.17	23.75	2.06	6.65	20.32	59.05	1.88	6.07	18.55	53.90	1.75	5.65	17.26	50.17	1.16	3.73	11.39	33.11
2012	0.83	2.81	8.99	27.31	2.06	6.99	22.35	67.91	1.88	6.38	20.40	61.98	1.75	5.94	18.99	57.70	1.16	3.92	12.53	38.07

Table S-6. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 6 (Texas, New Mexico, Oklahoma, Arkansas, Louisiana)

R E S I D E N T I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				LIQUEFIED PETROLEUM GAS				NATURAL GAS			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.00	1.05	1.10	1.15	1.04	1.09	1.15	1.20	1.04	1.09	1.14	1.20	1.01	1.06	1.11	1.16
1989	1.01	1.11	1.22	1.33	1.09	1.21	1.32	1.45	1.09	1.20	1.32	1.45	0.94	1.04	1.14	1.24
1990	1.02	1.18	1.35	1.55	1.15	1.33	1.53	1.74	1.14	1.32	1.52	1.74	0.96	1.11	1.28	1.46
1991	1.02	1.24	1.50	1.79	1.19	1.45	1.75	2.09	1.19	1.45	1.74	2.08	1.00	1.22	1.46	1.75
1992	1.02	1.30	1.64	2.05	1.29	1.64	2.07	2.59	1.28	1.64	2.07	2.58	1.07	1.36	1.72	2.15
1993	1.01	1.36	1.80	2.35	1.42	1.90	2.51	3.28	1.41	1.90	2.51	3.27	1.14	1.53	2.02	2.63
1994	1.04	1.46	2.03	2.77	1.55	2.19	3.03	4.13	1.55	2.18	3.02	4.12	1.23	1.73	2.39	3.27
1995	1.07	1.58	2.29	3.27	1.67	2.46	3.57	5.10	1.66	2.46	3.56	5.08	1.33	1.96	2.84	4.06
1996	1.08	1.68	2.55	3.81	1.76	2.73	4.15	6.20	1.75	2.72	4.14	6.17	1.41	2.18	3.31	4.94
1997	1.10	1.79	2.85	4.44	1.85	3.01	4.80	7.48	1.84	3.00	4.78	7.46	1.48	2.42	3.85	6.00
1998	1.11	1.90	3.17	5.18	1.92	3.28	5.46	8.91	1.91	3.27	5.45	8.88	1.55	2.64	4.41	7.19
1999	1.13	2.03	3.55	6.05	1.99	3.57	6.24	10.65	1.98	3.56	6.22	10.61	1.62	2.91	5.08	8.65
2000	1.14	2.15	3.94	7.03	2.07	3.90	7.14	12.73	2.06	3.89	7.12	12.69	1.69	3.18	5.82	10.38
2001	1.14	2.26	4.34	8.08	2.07	4.10	7.86	14.64	2.06	4.08	7.83	14.59	1.69	3.34	6.41	11.94
2002	1.14	2.38	4.77	9.30	2.07	4.30	8.64	16.84	2.06	4.29	8.61	16.78	1.69	3.51	7.05	13.73
2003	1.14	2.49	5.25	10.69	2.07	4.52	9.51	19.36	2.06	4.50	9.47	19.29	1.69	3.68	7.75	15.79
2004	1.14	2.62	5.77	12.29	2.07	4.74	10.46	22.27	2.06	4.73	10.42	22.19	1.69	3.87	8.53	18.15
2005	1.14	2.75	6.35	14.14	2.07	4.98	11.50	25.61	2.06	4.96	11.46	25.52	1.69	4.06	9.38	20.88
2006	1.14	2.89	6.99	16.26	2.07	5.23	12.66	29.45	2.06	5.21	12.61	29.34	1.69	4.26	10.32	24.01
2007	1.14	3.03	7.69	18.70	2.07	5.49	13.92	33.87	2.06	5.47	13.87	33.75	1.69	4.48	11.35	27.61
2008	1.14	3.18	8.45	21.50	2.07	5.76	15.31	38.95	2.06	5.74	15.26	38.81	1.69	4.70	12.48	31.75
2009	1.14	3.34	9.30	24.73	2.07	6.05	16.84	44.79	2.06	6.03	16.78	44.63	1.69	4.93	13.73	36.51
2010	1.14	3.51	10.23	28.44	2.07	6.36	18.53	51.51	2.06	6.33	18.46	51.32	1.69	5.18	15.11	41.99
2011	1.14	3.68	11.25	32.70	2.07	6.67	20.38	59.23	2.06	6.65	20.31	59.02	1.69	5.44	16.62	48.29
2012	1.14	3.87	12.38	37.61	2.07	7.01	22.42	68.12	2.06	6.98	22.34	67.88	1.69	5.71	18.28	55.53

Table S-6, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 6 (Texas, New Mexico, Oklahoma, Arkansas, Louisiana)

C O M M E R C I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			RESIDUAL FUEL			NATURAL GAS			STEAM COAL			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.00	1.05	1.10	1.15	1.04	1.09	1.14	1.19	1.01	1.06	1.11	1.16	1.00	1.05	1.10	1.15
1989	1.01	1.11	1.22	1.33	1.09	1.20	1.32	1.45	1.05	1.15	1.27	1.38	0.98	1.08	1.18	1.29
1990	1.02	1.18	1.36	1.55	1.14	1.32	1.52	1.74	1.09	1.26	1.45	1.66	1.00	1.15	1.33	1.52
1991	1.02	1.24	1.50	1.79	1.19	1.45	1.74	2.08	1.12	1.36	1.64	1.96	1.03	1.26	1.51	1.81
1992	1.02	1.30	1.64	2.05	1.28	1.64	2.07	2.58	1.20	1.54	1.94	2.42	1.11	1.41	1.78	2.22
1993	1.02	1.36	1.80	2.35	1.41	1.90	2.51	3.27	1.32	1.77	2.34	3.06	1.18	1.58	2.10	2.74
1994	1.04	1.47	2.03	2.77	1.55	2.18	3.02	4.12	1.44	2.03	2.81	3.84	1.28	1.81	2.50	3.42
1995	1.07	1.58	2.30	3.28	1.66	2.45	3.56	5.08	1.55	2.29	3.32	4.74	1.39	2.06	2.99	4.26
1996	1.09	1.68	2.56	3.82	1.75	2.72	4.13	6.16	1.64	2.54	3.86	5.75	1.48	2.29	3.48	5.19
1997	1.10	1.79	2.85	4.45	1.84	3.00	4.77	7.44	1.71	2.78	4.42	6.90	1.56	2.54	4.04	6.30
1998	1.12	1.91	3.18	5.19	1.91	3.26	5.44	8.87	1.76	3.01	5.02	8.19	1.62	2.77	4.63	7.55
1999	1.14	2.04	3.56	6.08	1.98	3.56	6.23	10.61	1.82	3.27	5.71	9.74	1.70	3.05	5.33	9.09
2000	1.15	2.16	3.96	7.05	2.06	3.89	7.12	12.69	1.89	3.56	6.51	11.61	1.78	3.35	6.13	10.92
2001	1.15	2.27	4.35	8.11	2.06	4.08	7.83	14.59	1.89	3.73	7.16	13.35	1.78	3.51	6.74	12.56
2002	1.15	2.38	4.79	9.33	2.06	4.29	8.62	16.78	1.89	3.92	7.88	15.35	1.78	3.69	7.42	14.45
2003	1.15	2.50	5.27	10.73	2.06	4.50	9.48	19.30	1.89	4.12	8.67	17.65	1.78	3.88	8.16	16.61
2004	1.15	2.63	5.80	12.34	2.06	4.73	10.43	22.20	1.89	4.32	9.53	20.30	1.78	4.07	8.97	19.10
2005	1.15	2.76	6.37	14.19	2.06	4.96	11.47	25.53	1.89	4.54	10.49	23.34	1.78	4.27	9.87	21.97
2006	1.15	2.90	7.01	16.32	2.06	5.21	12.62	29.36	1.89	4.77	11.54	26.85	1.78	4.49	10.86	25.27
2007	1.15	3.04	7.71	18.76	2.06	5.47	13.88	33.76	1.89	5.00	12.69	30.87	1.78	4.71	11.94	29.06
2008	1.15	3.19	8.48	21.58	2.06	5.75	15.26	38.82	1.89	5.26	13.96	35.50	1.78	4.95	13.14	33.41
2009	1.15	3.35	9.33	24.82	2.06	6.03	16.79	44.65	1.89	5.52	15.35	40.83	1.78	5.19	14.45	38.43
2010	1.15	3.52	10.27	28.54	2.06	6.34	18.47	51.34	1.89	5.79	16.89	46.95	1.78	5.45	15.90	44.19
2011	1.15	3.70	11.29	32.82	2.06	6.65	20.32	59.04	1.89	6.08	18.58	53.99	1.78	5.73	17.49	50.82
2012	1.15	3.88	12.42	37.74	2.06	6.98	22.35	67.90	1.89	6.39	20.44	62.09	1.78	6.01	19.23	58.44

Table S-7. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 7 (Kansas, Missouri, Iowa, Nebraska)

R E S I D E N T I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				LIQUEFIED PETROLEUM GAS				NATURAL GAS			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.99	1.04	1.09	1.14	1.04	1.09	1.15	1.20	1.04	1.09	1.15	1.20	1.00	1.05	1.10	1.14
1989	0.96	1.06	1.16	1.27	1.09	1.21	1.32	1.45	1.09	1.21	1.32	1.45	1.04	1.15	1.26	1.38
1990	0.94	1.08	1.25	1.43	1.14	1.32	1.52	1.74	1.15	1.33	1.52	1.74	1.09	1.27	1.46	1.66
1991	0.92	1.11	1.34	1.60	1.19	1.45	1.74	2.08	1.19	1.45	1.74	2.08	1.15	1.40	1.68	2.01
1992	0.90	1.15	1.45	1.81	1.29	1.64	2.07	2.59	1.29	1.64	2.07	2.59	1.25	1.59	2.01	2.51
1993	0.88	1.19	1.57	2.05	1.42	1.90	2.51	3.28	1.42	1.90	2.51	3.28	1.32	1.78	2.35	3.06
1994	0.89	1.25	1.72	2.35	1.55	2.19	3.03	4.14	1.55	2.19	3.03	4.13	1.41	1.98	2.75	3.75
1995	0.89	1.31	1.91	2.72	1.67	2.47	3.58	5.11	1.67	2.46	3.58	5.10	1.50	2.22	3.22	4.60
1996	0.90	1.39	2.12	3.16	1.76	2.74	4.16	6.21	1.76	2.74	4.16	6.20	1.59	2.47	3.76	5.60
1997	0.91	1.48	2.35	3.67	1.85	3.01	4.80	7.49	1.85	3.01	4.80	7.49	1.68	2.74	4.36	6.80
1998	0.92	1.57	2.61	4.26	1.92	3.28	5.47	8.93	1.92	3.28	5.47	8.92	1.76	3.00	5.01	8.17
1999	0.92	1.66	2.90	4.95	1.99	3.58	6.25	10.66	1.99	3.58	6.25	10.65	1.83	3.29	5.76	9.81
2000	0.93	1.75	3.21	5.72	2.07	3.91	7.15	12.75	2.07	3.90	7.14	12.73	1.90	3.57	6.54	11.66
2001	0.93	1.84	3.53	6.57	2.07	4.10	7.87	14.66	2.07	4.10	7.86	14.64	1.90	3.75	7.20	13.41
2002	0.93	1.93	3.88	7.56	2.07	4.31	8.66	16.86	2.07	4.30	8.64	16.84	1.90	3.94	7.92	15.42
2003	0.93	2.03	4.27	8.69	2.07	4.52	9.52	19.39	2.07	4.52	9.51	19.36	1.90	4.14	8.71	17.74
2004	0.93	2.13	4.70	10.00	2.07	4.75	10.47	22.30	2.07	4.74	10.46	22.27	1.90	4.34	9.58	20.40
2005	0.93	2.24	5.16	11.50	2.07	4.99	11.52	25.65	2.07	4.98	11.51	25.61	1.90	4.56	10.54	23.46
2006	0.93	2.35	5.68	13.22	2.07	5.24	12.67	29.49	2.07	5.23	12.66	29.45	1.90	4.79	11.59	26.98
2007	0.93	2.46	6.25	15.20	2.07	5.50	13.94	33.92	2.07	5.49	13.92	33.87	1.90	5.03	12.75	31.02
2008	0.93	2.59	6.87	17.48	2.07	5.77	15.34	39.00	2.07	5.77	15.31	38.95	1.90	5.28	14.03	35.67
2009	0.93	2.72	7.56	20.11	2.07	6.06	16.87	44.85	2.07	6.05	16.85	44.79	1.90	5.54	15.43	41.03
2010	0.93	2.85	8.32	23.12	2.07	6.36	18.56	51.58	2.07	6.36	18.53	51.51	1.90	5.82	16.97	47.18
2011	0.93	3.00	9.15	26.59	2.07	6.68	20.41	59.32	2.07	6.67	20.38	59.24	1.90	6.11	18.67	54.26
2012	0.93	3.15	10.06	30.58	2.07	7.02	22.45	68.22	2.07	7.01	22.42	68.12	1.90	6.42	20.54	62.40

Table S-7, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL
DoE Region 7 (Kansas, Missouri, Iowa, Nebraska)

C O M M E R C I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				RESIDUAL FUEL				NATURAL GAS				STEAM COAL				
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.99	1.04	1.09	1.14	1.04	1.09	1.14	1.20	1.01	1.06	1.11	1.16	1.00	1.05	1.10	1.15	1.00	1.05	1.10	1.15	1.15
1989	0.96	1.06	1.16	1.27	1.09	1.20	1.32	1.45	1.05	1.16	1.27	1.39	1.04	1.15	1.26	1.38	1.00	1.10	1.21	1.32	1.32
1990	0.94	1.08	1.24	1.42	1.14	1.32	1.52	1.74	1.09	1.26	1.45	1.66	1.10	1.28	1.47	1.68	1.00	1.16	1.33	1.52	1.52
1991	0.91	1.11	1.34	1.60	1.19	1.45	1.75	2.09	1.12	1.36	1.64	1.96	1.16	1.41	1.70	2.03	1.01	1.22	1.47	1.76	1.76
1992	0.90	1.14	1.44	1.80	1.29	1.64	2.07	2.59	1.21	1.54	1.94	2.43	1.28	1.63	2.06	2.57	1.03	1.31	1.65	2.07	2.07
1993	0.88	1.18	1.56	2.04	1.41	1.90	2.51	3.27	1.32	1.77	2.35	3.06	1.36	1.82	2.41	3.15	1.04	1.40	1.85	2.41	2.41
1994	0.88	1.24	1.72	2.35	1.55	2.18	3.02	4.12	1.45	2.04	2.82	3.85	1.46	2.05	2.84	3.87	1.05	1.48	2.05	2.80	2.80
1995	0.89	1.31	1.90	2.71	1.66	2.45	3.56	5.08	1.55	2.29	3.32	4.74	1.56	2.30	3.34	4.77	1.07	1.58	2.30	3.28	3.28
1996	0.90	1.39	2.11	3.15	1.75	2.72	4.14	6.17	1.64	2.54	3.86	5.76	1.66	2.58	3.92	5.84	1.08	1.67	2.54	3.79	3.79
1997	0.90	1.47	2.34	3.66	1.84	3.00	4.77	7.44	1.71	2.78	4.43	6.91	1.76	2.86	4.55	7.10	1.08	1.76	2.81	4.38	4.38
1998	0.91	1.56	2.61	4.25	1.91	3.26	5.44	8.87	1.76	3.01	5.03	8.20	1.83	3.13	5.22	8.51	1.09	1.86	3.10	5.06	5.06
1999	0.92	1.66	2.90	4.94	1.98	3.56	6.22	10.61	1.82	3.28	5.73	9.76	1.91	3.43	6.00	10.22	1.08	1.94	3.39	5.79	5.79
2000	0.93	1.75	3.20	5.70	2.06	3.89	7.13	12.70	1.89	3.57	6.53	11.63	1.98	3.73	6.83	12.18	1.08	2.04	3.73	6.65	6.65
2001	0.93	1.84	3.52	6.56	2.06	4.09	7.84	14.61	1.89	3.74	7.18	13.38	1.98	3.92	7.52	14.00	1.08	2.14	4.11	7.65	7.65
2002	0.93	1.93	3.87	7.54	2.06	4.29	8.63	16.80	1.89	3.93	7.90	15.38	1.98	4.11	8.27	16.10	1.08	2.25	4.52	8.80	8.80
2003	0.93	2.02	4.26	8.68	2.06	4.51	9.49	19.32	1.89	4.13	8.69	17.69	1.98	4.32	9.09	18.52	1.08	2.36	4.97	10.12	10.12
2004	0.93	2.13	4.69	9.98	2.06	4.73	10.44	22.22	1.89	4.33	9.56	20.35	1.98	4.54	10.00	21.30	1.08	2.48	5.47	11.64	11.64
2005	0.93	2.23	5.15	11.47	2.06	4.97	11.48	25.55	1.89	4.55	10.51	23.40	1.98	4.76	11.00	24.49	1.08	2.60	6.01	13.38	13.38
2006	0.93	2.34	5.67	13.19	2.06	5.22	12.63	29.39	1.89	4.78	11.56	26.91	1.98	5.00	12.10	28.16	1.08	2.73	6.61	15.39	15.39
2007	0.93	2.46	6.24	15.17	2.06	5.48	13.89	33.79	1.89	5.02	12.72	30.94	1.98	5.25	13.31	32.39	1.08	2.87	7.28	17.70	17.70
2008	0.93	2.58	6.86	17.45	2.06	5.75	15.28	38.86	1.89	5.27	13.99	35.58	1.98	5.51	14.64	37.25	1.08	3.01	8.00	20.36	20.36
2009	0.93	2.71	7.55	20.07	2.06	6.04	16.81	44.69	1.89	5.53	15.39	40.92	1.98	5.79	16.11	42.83	1.08	3.16	8.80	23.41	23.41
2010	0.93	2.85	8.30	23.08	2.06	6.34	18.49	51.40	1.89	5.81	16.93	47.06	1.98	6.08	17.72	49.26	1.08	3.32	9.68	26.92	26.92
2011	0.93	2.99	9.13	26.54	2.06	6.66	20.34	59.10	1.89	6.10	18.62	54.12	1.98	6.38	19.49	56.65	1.08	3.49	10.65	30.96	30.96
2012	0.93	3.14	10.05	30.52	2.06	6.99	22.37	67.97	1.89	6.40	20.48	62.24	1.98	6.70	21.44	65.14	1.08	3.66	11.72	35.60	35.60

Table S-8. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 8 (Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado)

R E S I D E N T I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			LIQUEFIED PETROLEUM GAS			NATURAL GAS			
	0%	5%	10%	0%	5%	10%	0%	5%	10%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.97	1.01	1.06	1.04	1.09	1.15	1.20	1.04	1.09	1.15	1.20	1.03	1.08
1989	0.94	1.03	1.14	1.09	1.21	1.32	1.45	1.09	1.21	1.32	1.45	1.13	1.23
1990	0.92	1.06	1.22	1.15	1.33	1.53	1.75	1.15	1.33	1.53	1.74	1.05	1.22
1991	0.89	1.08	1.30	1.19	1.45	1.75	2.08	1.19	1.45	1.74	2.08	1.09	1.33
1992	0.86	1.09	1.38	1.29	1.64	2.07	2.59	1.29	1.64	2.07	2.59	1.17	1.49
1993	0.84	1.13	1.49	1.42	1.90	2.51	3.28	1.42	1.90	2.51	3.28	1.24	1.66
1994	0.86	1.21	1.68	1.56	2.19	3.03	4.14	1.56	2.19	3.03	4.14	1.31	1.84
1995	0.88	1.30	1.88	1.67	2.47	3.58	5.11	1.67	2.47	3.58	5.11	1.39	2.06
1996	0.88	1.37	2.08	1.77	2.74	4.17	6.22	1.76	2.74	4.16	6.21	1.50	2.33
1997	0.89	1.45	2.31	1.85	3.02	4.80	7.49	1.85	3.02	4.80	7.49	1.58	2.57
1998	0.89	1.52	2.54	1.92	3.28	5.48	8.93	1.92	3.28	5.47	8.92	1.61	2.76
1999	0.88	1.58	2.76	2.00	3.58	6.26	10.68	1.99	3.58	6.25	10.65	1.65	2.96
2000	0.87	1.65	3.02	2.07	3.91	7.16	12.77	2.07	3.91	7.15	12.75	1.72	3.25
2001	0.87	1.73	3.32	2.07	4.11	7.88	14.68	2.07	4.10	7.87	14.66	1.72	3.41
2002	0.87	1.82	3.65	2.07	4.31	8.67	16.88	2.07	4.31	8.65	16.86	1.72	3.58
2003	0.87	1.91	4.02	2.07	4.53	9.53	19.42	2.07	4.52	9.52	19.39	1.72	3.76
2004	0.87	2.01	4.42	2.07	4.76	10.49	22.33	2.07	4.75	10.47	22.30	1.72	3.95
2005	0.87	2.11	4.86	2.07	4.99	11.54	25.68	2.07	4.99	11.52	25.64	1.72	4.15
2006	0.87	2.21	5.35	2.07	5.24	12.69	29.53	2.07	5.24	12.67	29.49	1.72	4.35
2007	0.87	2.32	5.89	2.07	5.51	13.96	33.96	2.07	5.50	13.94	33.91	1.72	4.57
2008	0.87	2.44	6.47	2.07	5.78	15.36	39.05	2.07	5.77	15.33	39.00	1.72	4.80
2009	0.87	2.56	7.12	2.07	6.07	16.89	44.91	2.07	6.06	16.87	44.85	1.72	5.04
2010	0.87	2.69	7.83	2.07	6.37	18.58	51.65	2.07	6.36	18.55	51.57	1.72	5.29
2011	0.87	2.82	8.62	2.07	6.69	20.44	59.40	2.07	6.68	20.41	59.31	1.72	5.56
2012	0.87	2.96	9.48	2.07	7.03	22.48	68.30	2.07	7.02	22.45	68.20	1.72	5.83

Table S-8, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL

DoE Region 8 (Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado)

C O M M E R C I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			RESIDUAL FUEL			NATURAL GAS			STEAM COAL			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.96	1.01	1.06	1.11	1.04	1.09	1.15	1.20	1.01	1.06	1.11	1.16	0.97	1.02	1.07	1.12
1989	0.94	1.03	1.13	1.24	1.09	1.21	1.32	1.45	1.05	1.16	1.27	1.39	1.00	1.11	1.21	1.33
1990	0.91	1.06	1.22	1.39	1.14	1.33	1.52	1.74	1.09	1.26	1.45	1.66	1.03	1.19	1.37	1.57
1991	0.89	1.08	1.30	1.55	1.19	1.45	1.75	2.09	1.12	1.36	1.64	1.96	1.07	1.30	1.57	1.87
1992	0.85	1.09	1.37	1.71	1.29	1.64	2.07	2.59	1.21	1.54	1.94	2.43	1.15	1.47	1.86	2.32
1993	0.84	1.12	1.48	1.94	1.42	1.90	2.51	3.27	1.32	1.77	2.35	3.06	1.22	1.64	2.17	2.83
1994	0.86	1.20	1.67	2.28	1.55	2.18	3.02	4.12	1.45	2.04	2.82	3.85	1.30	1.83	2.53	3.46
1995	0.87	1.29	1.87	2.67	1.66	2.45	3.56	5.08	1.55	2.29	3.32	4.74	1.38	2.05	2.97	4.23
1996	0.88	1.36	2.07	3.09	1.75	2.72	4.14	6.17	1.64	2.54	3.86	5.76	1.50	2.33	3.55	5.29
1997	0.89	1.44	2.30	3.59	1.84	3.00	4.78	7.45	1.71	2.78	4.43	6.91	1.58	2.58	4.10	6.40
1998	0.89	1.51	2.53	4.12	1.91	3.26	5.44	8.88	1.76	3.01	5.03	8.20	1.62	2.77	4.62	7.54
1999	0.88	1.58	2.75	4.69	1.99	3.57	6.23	10.63	1.82	3.28	5.73	9.76	1.66	2.98	5.22	8.89
2000	0.87	1.64	3.01	5.36	2.06	3.89	7.13	12.70	1.89	3.57	6.53	11.63	1.74	3.28	6.01	10.70
2001	0.87	1.73	3.31	6.16	2.06	4.09	7.84	14.60	1.89	3.74	7.18	13.38	1.74	3.44	6.61	12.31
2002	0.87	1.81	3.64	7.09	2.06	4.29	8.62	16.80	1.89	3.93	7.90	15.38	1.74	3.62	7.27	14.16
2003	0.87	1.90	4.00	8.15	2.06	4.51	9.48	19.31	1.89	4.13	8.69	17.69	1.74	3.80	7.99	16.28
2004	0.87	2.00	4.40	9.38	2.06	4.73	10.43	22.21	1.89	4.33	9.56	20.35	1.74	3.99	8.79	18.72
2005	0.87	2.10	4.84	10.78	2.06	4.97	11.48	25.54	1.89	4.55	10.51	23.40	1.74	4.19	9.67	21.53
2006	0.87	2.20	5.33	12.40	2.06	5.22	12.62	29.38	1.89	4.78	11.56	26.91	1.74	4.40	10.64	24.76
2007	0.87	2.31	5.86	14.26	2.06	5.48	13.89	33.78	1.89	5.02	12.72	30.94	1.74	4.62	11.70	28.47
2008	0.87	2.43	6.45	16.40	2.06	5.75	15.27	38.85	1.89	5.27	13.99	35.58	1.74	4.85	12.87	32.74
2009	0.87	2.55	7.09	18.86	2.06	6.04	16.80	44.68	1.89	5.53	15.39	40.92	1.74	5.09	14.16	37.65
2010	0.87	2.68	7.80	21.69	2.06	6.34	18.48	51.38	1.89	5.81	16.93	47.06	1.74	5.34	15.58	43.30
2011	0.87	2.81	8.58	24.94	2.06	6.66	20.33	59.08	1.89	6.10	18.62	54.12	1.74	5.61	17.14	49.80
2012	0.87	2.95	9.44	28.68	2.06	6.99	22.36	67.95	1.89	6.40	20.48	62.24	1.74	5.89	18.85	57.27

Table S-9. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 9 (California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam)

R E S I D E N T I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				LIQUEFIED PETROLEUM GAS				NATURAL GAS			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.98	1.03	1.08	1.13	1.04	1.09	1.15	1.20	1.04	1.09	1.15	1.20	0.99	1.04	1.09	1.14
1989	0.95	1.05	1.15	1.26	1.09	1.20	1.32	1.45	1.10	1.21	1.32	1.45	1.01	1.12	1.23	1.34
1990	0.92	1.06	1.22	1.40	1.15	1.33	1.53	1.74	1.15	1.33	1.53	1.74	1.05	1.22	1.40	1.60
1991	0.89	1.09	1.31	1.57	1.19	1.45	1.75	2.09	1.19	1.45	1.75	2.09	1.09	1.33	1.60	1.91
1992	0.86	1.10	1.39	1.73	1.29	1.64	2.07	2.59	1.29	1.64	2.07	2.58	1.16	1.48	1.87	2.33
1993	0.84	1.13	1.49	1.94	1.42	1.90	2.51	3.28	1.42	1.90	2.51	3.28	1.22	1.64	2.17	2.83
1994	0.84	1.19	1.64	2.24	1.55	2.19	3.03	4.14	1.56	2.19	3.03	4.14	1.31	1.84	2.55	3.48
1995	0.85	1.25	1.82	2.60	1.67	2.47	3.58	5.11	1.67	2.47	3.58	5.11	1.39	2.06	2.98	4.26
1996	0.85	1.32	2.01	3.00	1.77	2.74	4.16	6.21	1.76	2.74	4.16	6.21	1.47	2.29	3.48	5.19
1997	0.86	1.40	2.23	3.47	1.85	3.02	4.80	7.49	1.85	3.02	4.80	7.49	1.54	2.51	4.00	6.24
1998	0.87	1.48	2.47	4.03	1.92	3.28	5.47	8.93	1.92	3.28	5.47	8.92	1.60	2.73	4.56	7.43
1999	0.88	1.58	2.77	4.72	1.99	3.58	6.26	10.66	1.99	3.58	6.25	10.65	1.70	3.06	5.34	9.10
2000	0.89	1.67	3.06	5.45	2.07	3.91	7.16	12.76	2.07	3.91	7.15	12.74	1.74	3.29	6.02	10.73
2001	0.89	1.75	3.36	6.27	2.07	4.11	7.88	14.68	2.07	4.10	7.87	14.66	1.74	3.45	6.62	12.34
2002	0.89	1.84	3.70	7.21	2.07	4.31	8.66	16.88	2.07	4.31	8.65	16.85	1.74	3.62	7.28	14.19
2003	0.89	1.93	4.07	8.29	2.07	4.53	9.53	19.41	2.07	4.52	9.52	19.38	1.74	3.81	8.01	16.32
2004	0.89	2.03	4.48	9.53	2.07	4.75	10.48	22.32	2.07	4.75	10.47	22.29	1.74	4.00	8.81	18.76
2005	0.89	2.13	4.92	10.96	2.07	4.99	11.53	25.67	2.07	4.98	11.52	25.63	1.74	4.20	9.69	21.58
2006	0.89	2.24	5.42	12.60	2.07	5.24	12.69	29.52	2.07	5.23	12.67	29.48	1.74	4.41	10.66	24.82
2007	0.89	2.35	5.96	14.49	2.07	5.50	13.95	33.95	2.07	5.50	13.93	33.90	1.74	4.63	11.73	28.54
2008	0.89	2.47	6.55	16.67	2.07	5.78	15.35	39.04	2.07	5.77	15.33	38.98	1.74	4.86	12.90	32.82
2009	0.89	2.59	7.21	19.17	2.07	6.07	16.88	44.90	2.07	6.06	16.86	44.83	1.74	5.10	14.19	37.74
2010	0.89	2.72	7.93	22.04	2.07	6.37	18.57	51.63	2.07	6.36	18.55	51.56	1.74	5.36	15.61	43.40
2011	0.89	2.86	8.72	25.35	2.07	6.69	20.43	59.38	2.07	6.68	20.40	59.29	1.74	5.62	17.17	49.91
2012	0.89	3.00	9.60	29.15	2.07	7.02	22.47	68.28	2.07	7.01	22.44	68.18	1.74	5.90	18.89	57.40

Table S-9, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 9 (California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam)

C O M M E R C I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				RESIDUAL FUEL				NATURAL GAS				STEAM COAL				
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.98	1.03	1.08	1.13	1.04	1.09	1.14	1.20	1.01	1.06	1.11	1.16	0.96	1.01	1.05	1.10	1.00	1.05	1.10	1.15	1.15
1989	0.95	1.05	1.15	1.25	1.09	1.20	1.32	1.44	1.05	1.16	1.27	1.39	0.95	1.05	1.15	1.26	1.00	1.10	1.21	1.32	1.32
1990	0.92	1.06	1.22	1.40	1.14	1.32	1.52	1.74	1.09	1.26	1.45	1.66	0.96	1.11	1.27	1.46	1.00	1.15	1.33	1.52	1.52
1991	0.89	1.09	1.31	1.56	1.19	1.45	1.75	2.08	1.12	1.36	1.64	1.96	0.97	1.18	1.42	1.70	1.00	1.22	1.46	1.75	1.75
1992	0.86	1.10	1.38	1.73	1.29	1.64	2.07	2.59	1.21	1.54	1.94	2.43	1.00	1.28	1.62	2.02	1.02	1.30	1.63	2.04	2.04
1993	0.84	1.12	1.49	1.94	1.41	1.89	2.50	3.27	1.32	1.77	2.34	3.05	1.04	1.39	1.84	2.40	1.02	1.37	1.80	2.36	2.36
1994	0.84	1.18	1.64	2.24	1.55	2.18	3.02	4.12	1.44	2.03	2.81	3.83	1.09	1.53	2.12	2.90	1.02	1.44	1.99	2.72	2.72
1995	0.85	1.25	1.82	2.59	1.66	2.45	3.56	5.07	1.55	2.28	3.32	4.73	1.15	1.69	2.46	3.51	1.03	1.52	2.20	3.14	3.14
1996	0.85	1.32	2.01	3.00	1.75	2.72	4.13	6.16	1.63	2.53	3.85	5.74	1.20	1.86	2.82	4.21	1.03	1.60	2.43	3.62	3.62
1997	0.86	1.40	2.22	3.47	1.84	2.99	4.76	7.43	1.70	2.77	4.41	6.88	1.24	2.02	3.21	5.01	1.04	1.69	2.69	4.20	4.20
1998	0.86	1.48	2.47	4.02	1.91	3.26	5.44	8.86	1.76	3.01	5.01	8.17	1.27	2.17	3.62	5.90	1.04	1.78	2.97	4.84	4.84
1999	0.88	1.58	2.76	4.71	1.98	3.56	6.22	10.61	1.82	3.26	5.71	9.73	1.33	2.39	4.18	7.13	1.04	1.87	3.27	5.57	5.57
2000	0.88	1.67	3.05	5.44	2.06	3.88	7.11	12.68	1.88	3.55	6.50	11.58	1.35	2.55	4.67	8.33	1.05	1.97	3.61	6.43	6.43
2001	0.88	1.75	3.36	6.26	2.06	4.08	7.82	14.58	1.88	3.73	7.15	13.32	1.35	2.68	5.14	9.58	1.05	2.07	3.97	7.39	7.39
2002	0.88	1.84	3.69	7.20	2.06	4.28	8.61	16.76	1.88	3.91	7.86	15.32	1.35	2.81	5.65	11.01	1.05	2.17	4.37	8.50	8.50
2003	0.88	1.93	4.06	8.28	2.06	4.50	9.47	19.28	1.88	4.11	8.65	17.62	1.35	2.95	6.22	12.67	1.05	2.28	4.80	9.78	9.78
2004	0.88	2.03	4.47	9.52	2.06	4.72	10.41	22.17	1.88	4.31	9.52	20.26	1.35	3.10	6.84	14.57	1.05	2.40	5.28	11.25	11.25
2005	0.88	2.13	4.92	10.95	2.06	4.96	11.45	25.50	1.88	4.53	10.47	23.30	1.35	3.26	7.53	16.75	1.05	2.52	5.81	12.93	12.93
2006	0.88	2.24	5.41	12.59	2.06	5.21	12.60	29.32	1.88	4.76	11.51	26.79	1.35	3.42	8.28	19.26	1.05	2.64	6.39	14.87	14.87
2007	0.88	2.35	5.95	14.48	2.06	5.47	13.86	33.72	1.88	5.00	12.67	30.81	1.35	3.59	9.11	22.15	1.05	2.77	7.03	17.10	17.10
2008	0.88	2.46	6.55	16.65	2.06	5.74	15.25	38.78	1.88	5.24	13.93	35.43	1.35	3.77	10.02	25.47	1.05	2.91	7.73	19.67	19.67
2009	0.88	2.59	7.20	19.15	2.06	6.03	16.77	44.59	1.88	5.51	15.32	40.75	1.35	3.96	11.02	29.30	1.05	3.06	8.51	22.62	22.62
2010	0.88	2.72	7.92	22.02	2.06	6.33	18.45	51.28	1.88	5.78	16.86	46.86	1.35	4.16	12.12	33.69	1.05	3.21	9.36	26.01	26.01
2011	0.88	2.85	8.71	25.32	2.06	6.64	20.29	58.97	1.88	6.07	18.54	53.89	1.35	4.37	13.33	38.74	1.05	3.37	10.29	29.92	29.92
2012	0.88	3.00	9.58	29.12	2.06	6.98	22.32	67.82	1.88	6.38	20.40	61.97	1.35	4.58	14.66	44.56	1.05	3.54	11.32	34.40	34.40

Table S-10. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL

DoE Region 10 (Washington, Oregon, Idaho, Alaska)

R E S I D E N T I A L

YEAR	ELECTRICITY			DISTILLATE FUEL			LIQUEFIED PETROLEUM GAS			NATURAL GAS		
	0%	5%	10%	0%	5%	10%	0%	5%	10%	0%	5%	10%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.01	1.06	1.11	1.04	1.10	1.15	1.20	1.04	1.09	1.14	1.20	1.18
1989	1.00	1.11	1.21	1.10	1.21	1.32	1.45	1.09	1.20	1.32	1.44	1.41
1990	1.00	1.16	1.33	1.15	1.33	1.53	1.74	1.14	1.33	1.52	1.74	1.58
1991	1.00	1.22	1.47	1.19	1.45	1.75	2.09	1.19	1.45	1.74	2.08	1.78
1992	1.00	1.27	1.60	1.29	1.64	2.07	2.59	1.28	1.64	2.07	2.58	2.06
1993	0.99	1.33	1.75	1.42	1.90	2.52	3.29	1.42	1.90	2.51	3.28	2.37
1994	0.99	1.39	1.93	1.56	2.19	3.04	4.15	1.55	2.19	3.03	4.14	2.71
1995	1.01	1.50	2.17	1.67	2.47	3.59	5.12	1.67	2.46	3.58	5.10	3.11
1996	1.04	1.62	2.46	1.77	2.74	4.17	6.22	1.76	2.74	4.16	6.21	4.44
1997	1.06	1.73	2.75	1.86	3.03	4.82	7.51	1.85	3.01	4.80	7.49	5.43
1998	1.08	1.85	3.08	1.92	3.29	5.49	8.95	1.92	3.28	5.47	8.92	6.46
1999	1.11	1.99	3.47	2.00	3.59	6.27	10.69	1.99	3.58	6.25	10.66	7.52
2000	1.17	2.21	4.04	2.08	3.92	7.17	12.78	2.07	3.90	7.14	12.73	8.77
2001	1.17	2.32	4.45	2.08	4.11	7.89	14.70	2.07	4.10	7.86	14.64	10.43
2002	1.17	2.44	4.89	2.08	4.32	8.68	16.90	2.07	4.30	8.64	16.84	11.99
2003	1.17	2.56	5.38	2.08	4.53	9.54	19.44	2.07	4.52	9.51	19.36	13.79
2004	1.17	2.69	5.92	2.08	4.76	10.50	22.35	2.07	4.74	10.46	22.27	15.86
2005	1.17	2.82	6.51	2.08	5.00	11.55	25.70	2.07	4.98	11.51	25.61	18.23
2006	1.17	2.96	7.17	2.08	5.25	12.70	29.56	2.07	5.23	12.66	29.45	20.97
2007	1.17	3.11	7.88	2.08	5.51	13.97	33.99	2.07	5.49	13.92	33.87	24.11
2008	1.17	3.26	8.67	2.08	5.79	15.37	39.09	2.07	5.77	15.31	38.95	27.73
2009	1.17	3.43	9.54	2.08	6.08	16.91	44.95	2.07	6.05	16.84	44.79	31.89
2010	1.17	3.60	10.49	2.08	6.38	18.60	51.70	2.07	6.36	18.53	51.51	36.68
2011	1.17	3.78	11.54	2.08	6.70	20.46	59.45	2.07	6.67	20.38	59.23	42.18
2012	1.17	3.97	12.69	2.08	7.03	22.50	68.37	2.07	7.01	22.42	68.12	48.50
												55.78

Table S-10, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL
 DoE Region 10 (Washington, Oregon, Idaho, Alaska)

C O M M E R C I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				RESIDUAL FUEL				NATURAL GAS				STEAM COAL			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	1.01	1.06	1.11	1.16	1.04	1.09	1.15	1.20	1.00	1.05	1.10	1.15	1.11	1.16	1.22	1.27	1.00	1.05	1.10	1.15
1989	1.00	1.11	1.21	1.33	1.09	1.21	1.32	1.45	1.04	1.14	1.26	1.37	1.17	1.29	1.41	1.54	1.00	1.10	1.21	1.32
1990	1.00	1.16	1.33	1.52	1.15	1.33	1.52	1.74	1.08	1.25	1.43	1.64	1.20	1.39	1.60	1.83	1.00	1.15	1.33	1.52
1991	1.00	1.22	1.47	1.75	1.19	1.45	1.75	2.09	1.11	1.35	1.62	1.94	1.24	1.51	1.81	2.17	0.99	1.21	1.45	1.74
1992	1.00	1.27	1.60	2.00	1.29	1.64	2.07	2.59	1.19	1.52	1.92	2.39	1.32	1.69	2.13	2.66	1.00	1.27	1.60	2.00
1993	0.99	1.33	1.75	2.29	1.42	1.90	2.51	3.28	1.30	1.74	2.30	3.00	1.39	1.87	2.47	3.22	1.00	1.34	1.76	2.30
1994	0.99	1.39	1.93	2.63	1.55	2.18	3.02	4.12	1.42	1.99	2.76	3.77	1.47	2.06	2.86	3.90	1.00	1.41	1.95	2.66
1995	1.01	1.50	2.17	3.10	1.66	2.46	3.56	5.09	1.52	2.24	3.25	4.64	1.55	2.28	3.32	4.73	1.00	1.48	2.15	3.07
1996	1.04	1.62	2.46	3.67	1.76	2.72	4.14	6.18	1.60	2.48	3.77	5.62	1.66	2.58	3.92	5.84	1.01	1.56	2.38	3.54
1997	1.06	1.73	2.75	4.29	1.84	3.00	4.78	7.46	1.66	2.71	4.31	6.73	1.73	2.81	4.48	6.99	1.01	1.65	2.62	4.09
1998	1.08	1.85	3.08	5.03	1.91	3.27	5.45	8.88	1.72	2.93	4.89	7.98	1.76	3.01	5.02	8.18	1.01	1.74	2.90	4.72
1999	1.10	1.98	3.47	5.91	1.99	3.57	6.23	10.63	1.78	3.19	5.58	9.51	1.79	3.21	5.61	9.56	1.01	1.82	3.19	5.43
2000	1.17	2.21	4.05	7.21	2.07	3.90	7.13	12.71	1.84	3.47	6.35	11.31	1.86	3.50	6.41	11.43	1.02	1.92	3.52	6.27
2001	1.17	2.32	4.45	8.29	2.07	4.09	7.84	14.62	1.84	3.64	6.98	13.01	1.86	3.68	7.06	13.15	1.02	2.02	3.87	7.21
2002	1.17	2.44	4.90	9.54	2.07	4.29	8.63	16.81	1.84	3.82	7.68	14.96	1.86	3.86	7.76	15.12	1.02	2.12	4.25	8.29
2003	1.17	2.56	5.39	10.97	2.07	4.51	9.49	19.33	1.84	4.01	8.45	17.21	1.86	4.06	8.54	17.39	1.02	2.22	4.68	9.53
2004	1.17	2.69	5.92	12.61	2.07	4.73	10.44	22.23	1.84	4.21	9.29	19.79	1.86	4.26	9.39	20.00	1.02	2.33	5.15	10.96
2005	1.17	2.82	6.52	14.51	2.07	4.97	11.49	25.56	1.84	4.43	10.22	22.76	1.86	4.47	10.33	23.00	1.02	2.45	5.66	12.61
2006	1.17	2.96	7.17	16.68	2.07	5.22	12.63	29.40	1.84	4.65	11.25	26.17	1.86	4.70	11.36	26.44	1.02	2.57	6.23	14.50
2007	1.17	3.11	7.89	19.18	2.07	5.48	13.90	33.81	1.84	4.88	12.37	30.10	1.86	4.93	12.50	30.41	1.02	2.70	6.85	16.67
2008	1.17	3.27	8.67	22.06	2.07	5.76	15.29	38.88	1.84	5.12	13.61	34.61	1.86	5.18	13.75	34.97	1.02	2.84	7.54	19.17
2009	1.17	3.43	9.54	25.37	2.07	6.04	16.82	44.71	1.84	5.38	14.97	39.80	1.86	5.44	15.13	40.22	1.02	2.98	8.29	22.05
2010	1.17	3.60	10.50	29.18	2.07	6.35	18.50	51.42	1.84	5.65	16.47	45.77	1.86	5.71	16.64	46.25	1.02	3.13	9.12	25.35
2011	1.17	3.78	11.55	33.55	2.07	6.66	20.35	59.13	1.84	5.93	18.11	52.64	1.86	5.99	18.30	53.19	1.02	3.29	10.03	29.16
2012	1.17	3.97	12.70	38.59	2.07	7.00	22.38	68.00	1.84	6.23	19.92	60.53	1.86	6.29	20.13	61.17	1.02	3.45	11.04	33.53

Table S-11. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
 WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
 BY END-USE SECTOR AND MAJOR FUEL
 United States Average

R E S I D E N T I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				LIQUEFIED PETROLEUM GAS				NATURAL GAS			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.99	1.04	1.09	1.13	1.04	1.09	1.15	1.20	1.04	1.09	1.14	1.20	0.99	1.04	1.09	1.14
1989	0.97	1.07	1.17	1.28	1.10	1.21	1.33	1.45	1.09	1.21	1.32	1.45	1.01	1.12	1.23	1.34
1990	0.95	1.10	1.27	1.45	1.15	1.33	1.53	1.75	1.14	1.33	1.52	1.74	1.04	1.21	1.39	1.59
1991	0.93	1.13	1.36	1.63	1.19	1.45	1.75	2.09	1.19	1.45	1.75	2.08	1.08	1.31	1.58	1.89
1992	0.90	1.15	1.46	1.82	1.29	1.64	2.07	2.59	1.29	1.64	2.07	2.59	1.14	1.46	1.84	2.30
1993	0.88	1.19	1.57	2.05	1.42	1.91	2.52	3.29	1.42	1.90	2.51	3.27	1.20	1.61	2.13	2.78
1994	0.88	1.24	1.72	2.35	1.56	2.20	3.04	4.15	1.55	2.19	3.03	4.13	1.27	1.79	2.48	3.39
1995	0.89	1.31	1.90	2.71	1.68	2.48	3.59	5.13	1.67	2.46	3.57	5.10	1.35	1.99	2.89	4.12
1996	0.89	1.39	2.11	3.14	1.77	2.75	4.18	6.24	1.76	2.74	4.16	6.20	1.42	2.20	3.35	5.00
1997	0.90	1.46	2.33	3.63	1.86	3.03	4.83	7.53	1.85	3.01	4.80	7.49	1.48	2.42	3.85	6.01
1998	0.90	1.54	2.57	4.20	1.93	3.30	5.50	8.97	1.92	3.28	5.47	8.92	1.53	2.62	4.38	7.14
1999	0.91	1.64	2.86	4.88	2.00	3.60	6.28	10.71	1.99	3.58	6.25	10.65	1.59	2.86	5.00	8.52
2000	0.92	1.74	3.18	5.67	2.08	3.93	7.19	12.81	2.07	3.90	7.15	12.74	1.65	3.12	5.71	10.18
2001	0.92	1.82	3.50	6.52	2.08	4.12	7.91	14.74	2.07	4.10	7.86	14.65	1.65	3.28	6.28	11.70
2002	0.92	1.92	3.85	7.50	2.08	4.33	8.70	16.95	2.07	4.30	8.65	16.85	1.65	3.44	6.91	13.46
2003	0.92	2.01	4.23	8.62	2.08	4.55	9.57	19.49	2.07	4.52	9.51	19.37	1.65	3.61	7.60	15.48
2004	0.92	2.11	4.66	9.92	2.08	4.77	10.53	22.41	2.07	4.75	10.46	22.28	1.65	3.79	8.36	17.80
2005	0.92	2.22	5.12	11.40	2.08	5.01	11.58	25.77	2.07	4.98	11.51	25.62	1.65	3.98	9.20	20.47
2006	0.92	2.33	5.64	13.11	2.08	5.26	12.74	29.64	2.07	5.23	12.66	29.46	1.65	4.18	10.12	23.54
2007	0.92	2.45	6.20	15.08	2.08	5.53	14.01	34.09	2.07	5.49	13.93	33.88	1.65	4.39	11.13	27.07
2008	0.92	2.57	6.82	17.34	2.08	5.80	15.41	39.20	2.07	5.77	15.32	38.97	1.65	4.61	12.24	31.13
2009	0.92	2.70	7.50	19.95	2.08	6.09	16.95	45.08	2.07	6.06	16.85	44.81	1.65	4.84	13.47	35.80
2010	0.92	2.83	8.25	22.94	2.08	6.40	18.65	51.84	2.07	6.36	18.54	51.53	1.65	5.08	14.81	41.17
2011	0.92	2.97	9.08	26.38	2.08	6.72	20.51	59.62	2.07	6.68	20.39	59.26	1.65	5.33	16.29	47.35
2012	0.92	3.12	9.98	30.34	2.08	7.05	22.56	68.56	2.07	7.01	22.43	68.15	1.65	5.60	17.92	54.45

Table S-11, continued. PROJECTED NOMINAL AVERAGE FUEL PRICE INDICES
WITH ASSUMED GENERAL PRICE INFLATION RATES OF 0, 5, 10, AND 15 PERCENT
BY END-USE SECTOR AND MAJOR FUEL
United States Average

C O M M E R C I A L

YEAR	ELECTRICITY				DISTILLATE FUEL				RESIDUAL FUEL				NATURAL GAS				STEAM COAL			
	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%	0%	5%	10%	15%
1987	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1988	0.99	1.04	1.09	1.14	1.04	1.09	1.14	1.20	1.01	1.06	1.11	1.16	0.99	1.04	1.09	1.14	1.01	1.06	1.11	1.16
1989	0.97	1.07	1.18	1.28	1.09	1.20	1.32	1.44	1.05	1.16	1.27	1.39	1.01	1.11	1.22	1.33	1.01	1.11	1.22	1.34
1990	0.96	1.11	1.27	1.45	1.14	1.32	1.52	1.74	1.09	1.26	1.45	1.66	1.04	1.20	1.38	1.58	1.03	1.19	1.37	1.56
1991	0.93	1.13	1.37	1.63	1.19	1.45	1.74	2.08	1.12	1.37	1.64	1.97	1.07	1.31	1.57	1.88	1.04	1.26	1.52	1.81
1992	0.90	1.15	1.46	1.82	1.28	1.64	2.07	2.58	1.21	1.54	1.94	2.43	1.15	1.46	1.85	2.31	1.06	1.35	1.71	2.14
1993	0.88	1.18	1.56	2.04	1.41	1.89	2.50	3.27	1.32	1.77	2.34	3.06	1.21	1.62	2.14	2.80	1.08	1.44	1.91	2.49
1994	0.88	1.24	1.72	2.35	1.55	2.18	3.02	4.12	1.45	2.03	2.82	3.85	1.28	1.81	2.50	3.41	1.10	1.54	2.14	2.92
1995	0.89	1.31	1.90	2.71	1.66	2.45	3.56	5.08	1.55	2.29	3.32	4.74	1.36	2.02	2.93	4.17	1.12	1.65	2.40	3.42
1996	0.89	1.38	2.10	3.14	1.76	2.72	4.14	6.18	1.64	2.54	3.86	5.76	1.44	2.24	3.40	5.07	1.12	1.74	2.65	3.95
1997	0.90	1.46	2.33	3.63	1.84	3.00	4.78	7.45	1.71	2.78	4.42	6.90	1.51	2.46	3.92	6.11	1.13	1.85	2.94	4.58
1998	0.90	1.54	2.57	4.19	1.91	3.26	5.45	8.88	1.76	3.01	5.02	8.19	1.56	2.67	4.45	7.25	1.14	1.96	3.26	5.32
1999	0.91	1.64	2.87	4.89	1.98	3.56	6.23	10.61	1.82	3.27	5.71	9.74	1.62	2.91	5.08	8.66	1.15	2.06	3.61	6.15
2000	0.92	1.74	3.18	5.67	2.06	3.89	7.13	12.70	1.88	3.55	6.51	11.59	1.69	3.18	5.82	10.38	1.15	2.18	3.98	7.10
2001	0.92	1.82	3.50	6.52	2.06	4.09	7.84	14.61	1.88	3.73	7.16	13.33	1.69	3.34	6.40	11.93	1.15	2.28	4.38	8.16
2002	0.92	1.91	3.85	7.49	2.06	4.29	8.62	16.80	1.88	3.92	7.87	15.33	1.69	3.51	7.05	13.72	1.15	2.40	4.82	9.39
2003	0.92	2.01	4.23	8.62	2.06	4.51	9.49	19.32	1.88	4.11	8.66	17.63	1.69	3.68	7.75	15.78	1.15	2.52	5.30	10.80
2004	0.92	2.11	4.66	9.91	2.06	4.73	10.43	22.21	1.88	4.32	9.52	20.28	1.69	3.87	8.52	18.15	1.15	2.64	5.83	12.42
2005	0.92	2.22	5.12	11.40	2.06	4.97	11.48	25.55	1.88	4.54	10.48	23.32	1.69	4.06	9.38	20.87	1.15	2.78	6.42	14.28
2006	0.92	2.33	5.63	13.11	2.06	5.22	12.63	29.38	1.88	4.76	11.53	26.82	1.69	4.26	10.31	24.00	1.15	2.92	7.06	16.42
2007	0.92	2.44	6.20	15.07	2.06	5.48	13.89	33.79	1.88	5.00	12.68	30.84	1.69	4.47	11.35	27.60	1.15	3.06	7.76	18.88
2008	0.92	2.57	6.82	17.33	2.06	5.75	15.28	38.85	1.88	5.25	13.95	35.47	1.69	4.70	12.48	31.74	1.15	3.21	8.54	21.72
2009	0.92	2.69	7.50	19.94	2.06	6.04	16.80	44.68	1.88	5.51	15.34	40.79	1.69	4.93	13.73	36.51	1.15	3.38	9.39	24.97
2010	0.92	2.83	8.25	22.93	2.06	6.34	18.48	51.38	1.88	5.79	16.87	46.91	1.69	5.18	15.10	41.98	1.15	3.54	10.33	28.72
2011	0.92	2.97	9.07	26.36	2.06	6.66	20.33	59.09	1.88	6.08	18.56	53.94	1.69	5.44	16.61	48.28	1.15	3.72	11.37	33.03
2012	0.92	3.12	9.98	30.32	2.06	6.99	22.37	67.96	1.88	6.38	20.42	62.03	1.69	5.71	18.27	55.52	1.15	3.91	12.50	37.98

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10. SUPPLEMENTARY NOTES This report is comprised of energy price and discount factor tables which are annual updates of tables referenced in NBS Handbook 135 and NBS Special Publication 709. Only minor changes have been made to this previously WERB-approved material. <input type="checkbox"/> Document describes a computer program; SF-185, FIPS Software Summary, is attached.			
11. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here) This report provides the 1987 annual edition of the energy price and discount factor tables used to supplement both the Federal life-cycle costing methodology as described in NBS Handbook 135 (HB 135) and private sector life-cycle cost analysis as described in NBS Special Publication 709 (SP 709). Tables A (7%), Ba, and C represent revisions of appendices A, B, and C, respectively, of HB 135. They should be used in life-cycle cost analyses of Federal energy conservation projects. Tables A (10%), Bb, and C are for use in life-cycle cost analyses of Federal non-energy conservation projects that require energy price forecasts. The last section of this report, the supplement for private sector life-cycle cost analysis, represents revisions to appendix B, Part I of SP 709 and is provided for the convenience of private sector analysts wishing to make use of Federal energy price forecasts.			
12. KEY WORDS (Six to twelve entries; alphabetical order; capitalize only proper names; and separate key words by semicolons) average fuel prices; energy conservation; energy price forecasts; Federal Energy Management Program; life-cycle cost analysis; single present worth discount factors; uniform present worth discount factors			
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