

**DATABASE FOR EMF STUDY ON
NORTH AMERICAN NATURAL GAS MARKETS**

EMF WP 9.8

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In the ninth EMF study, North American Natural Gas Markets, 11 models were used to project the response of gas supply, demand, and price to variations in oil prices, gas resource base, and increments in potential electric utility gas demand. The key results of this model comparison were discussed extensively in a summary report (Volume 1) and a full working group report (Volume 2) issued in February 1989. In addition, a third volume containing background technical papers prepared during the study was published in April 1989. All reports are available through the Energy Modeling Forum, 406 Terman Center, Stanford University, Stanford, CA 94305 (Telephone: 415-723-0645).

In keeping with our mission of improving the available information about energy models, the EMF staff is publishing the study's database in this working paper. Table 1 lists the models included in the study, while Table 2 summarizes the key assumptions for the four scenarios--upper oil price, lower oil price, low U.S. resource base, and high U.S. demand. Table 3 defines the variables that were requested as output. All quantities are in trillion cubic feet (Tcf) and all prices are 1986 dollars per thousand cubic feet (1986\$/Mcf). The results are organized by model, with the U.S. projections beginning on page 5 and the Canadian and U.S. regional estimates (reported collectively) beginning on page 32.

The modelers ran these scenarios using standardized assumptions about oil prices, economic growth, and resource base developed by the working group. In some cases, the EMF inputs differ substantially from those often used by the proprietors of the model. Since they may be strongly influenced by these EMF scenario specifications, the reported model results should not be interpreted as forecasts of particular model proprietors or organizations.

These detailed model projections supplement a set of figures comparing the model results that was issued as "Model-Comparison Figures," EMF WP 9.6, prepared in February 1989.

The data is also available on a floppy disk, formatted as a Lotus worksheet. Please contact the EMF office for further information.

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Table 1: Natural Gas Models Used in EMF 9

Model ^a	Organization ^b	Country Focus
Group A:		
AGAS	Alberta Research Council (Don Quon)	North America
GRI North American (GRI N A)	Decision Focus, Inc. (Dale Nesbitt)	North America
Gas Trade Model (GTM)	Stanford University (Alan Manne)	North America
MIT North American (MIT)	Massachusetts Institute of Technology (Charles Blitzer)	Canada
Rowse	University of Calgary (John Rowse)	Canada
Group B:		
Gas Analysis Modeling System (GAMS)	Energy Information Administration (Barbara Mariner-Volpe)	United States
GRI Hydrocarbon (GRI Hydro)	Energy & Envir. Analysis (Harry Vidas)	United States
ICF Gas Market Evaluation System (ICF)	ICF, Inc. (William Stitt)	United States
Lewin Natural Gas Model (LEWIN)	ICF-Lewin Energy (Vello Kuuskraa)	United States
NEB Energy Demand/Gas Supply Models (NEB)	National Energy Board (Mark Segal)	Canada
A.G.A.—TERA (TERA)	American Gas Association (Leon Tucker)	United States

^aAbbreviation of model name used in this report is shown in parentheses.

^bWorking group representative is shown in parentheses.

Table 2: Key Scenario Inputs for EMF 9

Key Assumptions	Upper Oil Price	Lower Oil Price	Low U.S. Resource	High U.S. Demand
World Crude Oil Price (1986\$/barrel)				
1986	\$15	\$15	\$15	\$15
1990	\$22	\$14	\$22	\$22
2000	\$36	\$21	\$36	\$36
2010	\$44	\$26	\$44	\$44
U.S. Economic Growth Rate, 1985-2000 (% p.a.)	2.6%	2.7%	2.6%	2.6%
U.S. Lower-48 Inferred and Undiscovered Resources (Tcf)				
Conventional	627 ^a	627 ^a	388 ^b	627 ^a
Unconventional at \$5/Mcf	97	97	0	97
Infill Drilling at \$5/Mcf	50	50	44	50
TOTAL	774	774	432	774
Proved Reserves Lower-48 (Tcf, 1986) ^c	159	159	159	159
Total Undiscovered Plus Proved	933	933	591	933
Canadian Export Cap (Tcf/yr)	2	2	2	2
Extra Potential U.S. Utility Gas Demand (Bcf/yr)				
1990	0	0	0	296
2000	0	0	0	1431
2010	0	0	0	2807

Tcf—Trillion cubic feet.
Bcf—Billion cubic feet.
Mcf—Thousand cubic feet.

^a1986 Potential Gas Committee (PGC) Most Likely Estimate, plus 7 Tcf for offshore gas deeper than 1000 meters. Estimate is not based upon any explicit price assumptions.

^bBased upon 1986 PGC Low Estimate, which assumes "that there is approximately a 90 percent or greater probability that at least this much natural gas resource is present." Also includes 4 Tcf of offshore gas in water deeper than 1000 meters. Estimate is not based upon any explicit price assumptions. See "EMF 9 Study Design" in Volume 3.

^cDiscovered gas that is excluded from estimates of undiscovered resources.

Table 3: Output Variable Number

No.	Variable
1	Marketed production (dry gas)
2	Total exports
3	Total imports
4*	Total consumption
5	Residential consumption
6	Commercial consumption
7	Industrial consumption (<u>excluding</u> lease & plant fuel)
8	Industrial consumption (<u>including</u> lease & plant fuel)
9	Transportation consumption (pipeline fuel)
10	Electric utility consumption
11	Average wellhead price
12	Average citygate price
13	Average delivered residential price
14	Average delivered commercial price
15*	Average delivered industrial price
16	Average delivered electric utility price
17	Average delivered price to all sectors
18	Total reserve additions
19	Associated reserve additions
20	Nonassociated reserve additions
21	Offshore reserve additions
22	Onshore reserve additions
23	Discoveries
24	Revisions & extensions
25	Total reserves (at beginning of year)
26	Average national price of #6 residual oil
27	Average electricity price

Where available, report for both Canada and the United States using the appropriate regional code listed in Appendix C.

Note: Quantities are in trillion cubic feet (Tcf) and prices are in 1986 dollars per thousand cubic feet (Mcf). Conversion factor is 1.033 million BTUs per Mcf, as used by the Gas Research Institute.

*These variables should also be reported for New England, West South Central (Southwest), and Pacific (West), if available.

GAMS
Upper Oil Price (Control)
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.990	15.630	15.590	15.870
Total Imports	0.950	0.750	0.850	0.950	1.090
Tot. Consumption	17.280	16.220	15.780	16.070	16.480
Residential Cons	4.430	4.310	4.340	4.520	4.580
Commercial Cons.	2.430	2.320	2.250	2.300	2.360
Industrial Cons.	5.900	5.580	4.900	5.100	5.190
Ind. Cons. w/l&p	6.870	6.500	5.800	5.840	5.940
Transport Cons.	0.500	0.490	0.470	0.420	0.430
El. Util'y Cons.	3.040	2.600	2.740	2.990	3.170
Wellhead Price	2.570	1.940	1.800	2.090	2.190
Resident'l Price	6.270	5.830	5.360	5.270	5.340
Commercial Price	5.640	5.080	5.200	5.050	5.100
Industrial Price	4.050	3.230	3.310	3.280	3.420
El. Util. Price	3.640	2.430	2.410	2.350	2.480
Delivered Price	4.840	4.130	4.060	3.980	4.060
Tot. Res. Addns.	11.890	13.830	13.160	14.950	14.310
Assoc. Res. Adns	3.130	2.180	1.090	1.220	1.230
NA Res. Adns.	8.760	11.650	12.070	13.730	13.080
Offshore Addns.	3.190	3.560	3.510	4.060	3.890
Onshore Addns.	8.700	10.270	9.650	10.890	10.410
Total Reserves	162.990	159.520	158.920	156.950	156.310

	1990	1995	2000	2005	2010
Mktd. Production	16.150	17.300	18.520	17.440	17.200
Total Imports	1.180	1.800	1.960	1.960	1.960
Tot. Consumption	16.840	18.560	19.910	18.860	18.630
Residential Cons	4.650	4.850	4.880	4.840	4.820
Commercial Cons.	2.390	2.610	2.760	2.750	2.740
Industrial Cons.	5.270	5.390	5.200	4.290	4.100
Ind. Cons. w/l&p	6.040	6.220	6.080	5.120	4.920
Transport Cons.	0.440	0.490	0.520	0.490	0.490
El. Util'y Cons.	3.320	4.390	5.670	5.670	5.660
Wellhead Price	2.310	3.010	4.480	5.170	5.710
Resident'l Price	5.460	6.060	7.590	8.220	8.560
Commercial Price	5.170	5.580	6.960	7.510	7.890
Industrial Price	3.560	4.340	6.030	6.770	7.290
El. Util. Price	2.610	3.420	5.210	5.990	6.610
Delivered Price	4.160	4.780	6.320	7.030	7.510
Tot. Res. Addns.	13.980	14.350	16.100	16.770	17.850
Assoc. Res. Adns	1.240	1.180	1.260	1.310	1.360
NA Res. Adns.	12.750	13.170	14.830	15.460	16.490
Offshore Addns.	3.730	2.680	2.040	2.080	2.100
Onshore Addns.	10.250	11.660	14.050	14.690	15.750
Total Reserves	154.750	144.510	132.050	127.540	127.800

GAMS
 Lower Oil Price
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.990	15.630	15.010	15.240
Total Imports	0.950	0.750	0.850	0.810	0.990
Tot. Consumption	17.280	16.220	15.780	15.370	15.770
Residential Cons	4.430	4.310	4.340	4.520	4.580
Commercial Cons.	2.430	2.320	2.250	2.300	2.350
Industrial Cons.	5.900	5.580	4.900	4.590	4.930
Ind. Cons. w/l&p	6.870	6.500	5.800	5.300	5.650
Transport Cons.	0.500	0.490	0.470	0.400	0.410
El. Util'y Cons.	3.040	2.600	2.740	2.850	2.770
Wellhead Price	2.570	1.940	1.800	2.020	2.090
Resident'l Price	6.270	5.830	5.360	5.210	5.240
Commercial Price	5.640	5.080	5.200	5.000	5.000
Industrial Price	4.050	3.230	3.310	3.140	3.300
El. Util. Price	3.640	2.430	2.410	2.120	2.210
Delivered Price	4.840	4.130	4.060	3.890	3.980
Tot. Res. Addns.	11.890	13.830	12.940	14.700	13.740
Assoc. Res. Adns	3.130	2.180	0.870	0.970	0.980
NA Res. Adns.	8.760	11.650	12.070	13.730	12.760
Offshore Addns.	3.190	3.560	3.510	4.060	3.860
Onshore Addns.	8.700	10.270	9.430	10.630	9.880
Total Reserves	162.990	159.520	158.920	156.730	156.420

	1990	1995	2000	2005	2010
Mktd. Production	15.610	16.420	16.270	15.410	14.850
Total Imports	1.100	1.800	1.960	1.960	1.960
Tot. Consumption	16.230	17.700	17.720	16.870	16.330
Residential Cons	4.670	4.920	5.020	4.980	4.940
Commercial Cons.	2.390	2.620	2.800	2.790	2.780
Industrial Cons.	5.070	5.270	4.780	4.840	4.310
Ind. Cons. w/l&p	5.820	6.050	5.550	5.570	5.010
Transport Cons.	0.420	0.460	0.460	0.440	0.430
El. Util'y Cons.	2.930	3.640	3.880	3.090	3.160
Wellhead Price	2.120	2.500	3.490	4.090	4.730
Resident'l Price	5.260	5.500	6.440	6.940	7.460
Commercial Price	4.950	5.010	5.840	6.290	6.810
Industrial Price	3.300	3.730	4.940	5.490	6.110
El. Util. Price	2.250	2.760	4.070	4.840	5.590
Delivered Price	3.960	4.250	5.340	5.960	6.570
Tot. Res. Addns.	13.190	12.920	13.750	13.570	14.650
Assoc. Res. Adns	0.960	0.860	0.890	0.950	1.050
NA Res. Adns.	12.230	12.060	12.870	12.620	13.600
Offshore Addns.	3.680	2.620	1.980	2.010	2.050
Onshore Addns.	9.510	10.290	11.770	11.550	12.600
Total Reserves	154.910	143.570	123.350	108.960	105.180

GAMS
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.990	15.630	15.590	15.870
Total Imports	0.950	0.750	0.850	0.950	1.090
Tot. Consumption	17.280	16.220	15.780	16.070	16.480
Residential Cons	4.430	4.310	4.340	4.520	4.580
Commercial Cons.	2.430	2.320	2.250	2.300	2.360
Industrial Cons.	5.900	5.580	4.900	5.100	5.190
Ind. Cons. w/l&p	6.870	6.500	5.800	5.840	5.950
Transport Cons.	0.500	0.490	0.470	0.420	0.430
El. Util'y Cons.	3.040	2.600	2.740	2.990	3.170
Wellhead Price	2.570	1.940	1.800	2.090	2.190
Resident'l Price	6.270	5.830	5.360	5.270	5.330
Commercial Price	5.640	5.080	5.200	5.050	5.100
Industrial Price	4.050	3.230	3.310	3.280	3.420
El. Util. Price	3.640	2.430	2.410	2.350	2.470
Delivered Price	4.840	4.130	4.060	3.980	4.060
Tot. Res. Addns.	11.890	13.830	12.330	13.510	12.590
Assoc. Res. Adns	3.130	2.180	1.090	1.220	1.230
NA Res. Adns.	8.760	11.650	11.230	12.290	11.360
Offshore Addns.	3.190	3.560	3.510	4.060	3.890
Onshore Addns.	8.700	10.270	8.820	9.440	8.690
Total Reserves	162.990	159.520	158.920	156.120	154.030

	1990	1995	2000	2005	2010
Mktd. Production	16.050	16.870	15.640	13.690	11.170
Total Imports	1.180	1.800	2.830	2.830	2.830
Tot. Consumption	16.750	18.140	17.950	16.040	13.600
Residential Cons	4.650	4.820	4.790	4.690	4.590
Commercial Cons.	2.390	2.600	2.730	2.700	2.670
Industrial Cons.	5.250	5.150	4.300	3.450	2.980
Ind. Cons. w/l&p	6.020	5.950	5.040	4.100	3.510
Transport Cons.	0.440	0.480	0.470	0.420	0.360
El. Util'y Cons.	3.250	4.290	4.910	4.130	2.460
Wellhead Price	2.350	3.350	5.720	7.510	9.930
Resident'l Price	5.500	6.460	9.110	11.240	13.800
Commercial Price	5.200	5.980	8.460	10.450	13.070
Industrial Price	3.600	4.750	7.570	9.780	12.500
El. Util. Price	2.630	3.790	6.540	8.090	10.590
Delivered Price	4.210	5.190	7.860	9.890	12.720
Tot. Res. Addns.	11.970	11.230	15.000	11.930	11.790
Assoc. Res. Adns	1.240	1.180	1.270	1.320	1.380
NA Res. Adns.	10.740	10.050	13.730	10.610	10.410
Offshore Addns.	3.730	2.680	2.110	2.180	2.250
Onshore Addns.	8.240	8.540	12.880	9.740	9.540
Total Reserves	150.750	128.990	108.530	99.330	96.360

GAMS
 High Demand
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.990	15.630	15.770	16.020
Total Imports	0.950	0.750	0.850	0.980	1.090
Tot. Consumption	17.280	16.220	15.780	16.280	16.620
Residential Cons	4.430	4.310	4.340	4.520	4.580
Commercial Cons.	2.430	2.320	2.250	2.300	2.350
Industrial Cons.	5.900	5.580	4.900	5.090	5.180
Ind. Cons. w/l&p	6.870	6.500	5.800	5.850	5.940
Transport Cons.	0.500	0.490	0.470	0.430	0.440
El. Util'y Cons.	3.040	2.600	2.740	3.190	3.320
Wellhead Price	2.570	1.940	1.800	2.090	2.210
Resident'l Price	6.270	5.830	5.360	5.280	5.360
Commercial Price	5.640	5.080	5.200	5.060	5.110
Industrial Price	4.050	3.230	3.310	3.290	3.430
El. Util. Price	3.640	2.430	2.410	2.410	2.540
Delivered Price	4.840	4.130	4.060	3.960	4.070
Tot. Res. Addns.	11.890	13.830	13.160	14.950	14.340
Assoc. Res. Adns	3.130	2.180	1.090	1.220	1.230
NA Res. Adns.	8.760	11.650	12.070	13.730	13.110
Offshore Addns.	3.190	3.560	3.510	4.060	3.890
Onshore Addns.	8.700	10.270	9.650	10.890	10.440
Total Reserves	162.990	159.520	158.920	156.950	156.130

	1990	1995	2000	2005	2010
Mktd. Production	16.270	18.060	19.410	18.930	18.630
Total Imports	1.180	1.800	1.960	1.960	2.830
Tot. Consumption	16.960	19.300	20.780	20.310	20.870
Residential Cons	4.640	4.820	4.820	4.780	4.760
Commercial Cons.	2.390	2.600	2.740	2.730	2.720
Industrial Cons.	5.180	5.130	4.840	3.920	3.760
Ind. Cons. w/l&p	5.950	5.990	5.760	4.820	4.650
Transport Cons.	0.440	0.510	0.540	0.530	0.550
El. Util'y Cons.	3.530	5.370	6.910	7.450	8.190
Wellhead Price	2.420	3.360	5.210	6.030	6.640
Resident'l Price	5.580	6.500	8.410	9.240	9.700
Commercial Price	5.280	5.990	7.790	8.510	8.970
Industrial Price	3.680	4.770	6.870	7.810	8.400
El. Util. Price	2.770	3.890	6.050	7.000	7.700
Delivered Price	4.280	5.140	7.090	7.950	8.510
Tot. Res. Addns.	14.020	14.830	20.560	21.550	21.000
Assoc. Res. Adns	1.240	1.180	1.260	1.310	1.370
NA Res. Adns.	12.780	13.640	19.300	20.240	19.640
Offshore Addns.	3.740	2.720	2.060	2.120	2.160
Onshore Addns.	10.280	12.110	18.500	19.430	18.840
Total Reserves	154.440	146.900	127.640	136.820	147.660

GRI North American
 Upper Oil Price (Control)
 United States

	1985	1986	1987	1988	1989
Mktd. Production	(N/A)	(N/A)	16.360	(N/A)	(N/A)
Total Imports	(N/A)	(N/A)	0.956	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	17.316	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	16.577	17.003	17.456	17.672	17.765
Total Imports	0.847	0.672	0.547	0.528	0.625
Tot. Consumption	17.425	17.676	18.003	18.199	18.390
Wellhead Price	2.318	2.748	3.220	3.744	4.284
Delivered Price	3.838	4.268	4.740	5.264	5.810

GRI North American
 Lower Oil Price
 United States

	1985	1986	1987	1988	1989
Mktd. Production	(N/A)	(N/A)	16.360	(N/A)	(N/A)
Total Imports	(N/A)	(N/A)	0.956	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	17.316	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	16.586	15.582	14.690	14.447	14.539
Total Imports	0.808	0.555	0.388	0.307	0.311
Tot. Consumption	17.393	16.137	15.077	14.754	14.850
Wellhead Price	1.936	2.246	2.592	2.992	3.418
Delivered Price	3.358	3.638	3.996	4.400	4.830

GRI North American
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	(N/A)	(N/A)	16.360	(N/A)	(N/A)
Total Imports	(N/A)	(N/A)	0.956	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	17.316	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	15.363	13.684	12.905	12.496	12.034
Total Imports	1.167	1.291	1.505	2.038	2.598
Tot. Consumption	16.530	14.976	14.410	14.534	14.632
Wellhead Price	2.994	3.634	4.328	5.052	5.790
Delivered Price	4.440	5.140	5.906	6.650	7.356

GRI North American
 High Demand
 United States

	1985	1986	1987	1988	1989
Mktd. Production	(N/A)	(N/A)	16.360	(N/A)	(N/A)
Total Imports	(N/A)	(N/A)	0.956	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	17.316	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	17.352	18.045	18.272	18.658	19.226
Total Imports	0.946	0.816	0.683	0.739	0.953
Tot. Consumption	18.298	18.861	18.955	19.397	20.179
Wellhead Price	2.482	2.952	3.482	4.070	4.676
Delivered Price	3.988	4.468	5.002	5.590	6.196

GTM--Gas Trade Model
Upper Oil Price (Control)
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	(N/A)	(N/A)	(N/A)	(N/A)
Total Imports	0.890	(N/A)	(N/A)	(N/A)	(N/A)
Tot. Consumption	17.280	(N/A)	(N/A)	(N/A)	(N/A)
Residential Cons.	4.430	(N/A)	(N/A)	(N/A)	(N/A)
Commercial Cons.	2.430	(N/A)	(N/A)	(N/A)	(N/A)
Industrial Cons.	5.900	(N/A)	(N/A)	(N/A)	(N/A)
Transport Cons.	1.470	(N/A)	(N/A)	(N/A)	(N/A)
El. Util'y Cons.	3.040	(N/A)	(N/A)	(N/A)	(N/A)
Wellhead Price	2.570	(N/A)	(N/A)	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	4.830	(N/A)	(N/A)	(N/A)	(N/A)
Total Reserves	160.000	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	17.560	(N/A)	18.080	(N/A)	17.390
Total Imports	0.700	(N/A)	1.310	(N/A)	1.960
Tot. Consumption	18.260	(N/A)	19.390	(N/A)	19.340
Residential Cons.	5.090	(N/A)	5.580	(N/A)	5.570
Commercial Cons.	2.760	(N/A)	3.010	(N/A)	3.000
Industrial Cons.	5.870	(N/A)	6.000	(N/A)	6.000
Transport Cons.	1.460	(N/A)	1.550	(N/A)	1.550
El. Util'y Cons.	3.070	(N/A)	3.250	(N/A)	3.220
Wellhead Price	2.450	(N/A)	3.110	(N/A)	5.180
Citygate Price	3.400	(N/A)	4.010	(N/A)	6.070
Delivered Price	4.400	(N/A)	5.020	(N/A)	7.090
Total Reserves	160.000	(N/A)	142.650	(N/A)	93.260

GTM--Gas Trade Model
 Lower Oil Price
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	(N/A)	(N/A)	(N/A)	(N/A)
Total Imports	0.890	(N/A)	(N/A)	(N/A)	(N/A)
Tot. Consumption	17.280	(N/A)	(N/A)	(N/A)	(N/A)
Residential Cons.	4.430	(N/A)	(N/A)	(N/A)	(N/A)
Commercial Cons.	2.430	(N/A)	(N/A)	(N/A)	(N/A)
Industrial Cons.	5.900	(N/A)	(N/A)	(N/A)	(N/A)
Transport Cons.	1.470	(N/A)	(N/A)	(N/A)	(N/A)
El. Util'y Cons.	3.040	(N/A)	(N/A)	(N/A)	(N/A)
Wellhead Price	2.570	(N/A)	(N/A)	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	4.830	(N/A)	(N/A)	(N/A)	(N/A)
Total Reserves	160.000	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	14.950	(N/A)	17.750	(N/A)	15.620
Total Imports	0.260	(N/A)	0.830	(N/A)	1.600
Tot. Consumption	15.220	(N/A)	18.570	(N/A)	17.220
Residential Cons.	4.000	(N/A)	5.140	(N/A)	4.900
Commercial Cons.	2.200	(N/A)	2.830	(N/A)	2.630
Industrial Cons.	5.150	(N/A)	5.970	(N/A)	5.640
Transport Cons.	1.220	(N/A)	1.490	(N/A)	1.380
El. Util'y Cons.	2.650	(N/A)	3.150	(N/A)	2.670
Wellhead Price	1.850	(N/A)	2.320	(N/A)	3.810
Citygate Price	2.710	(N/A)	3.140	(N/A)	4.750
Delivered Price	3.680	(N/A)	4.140	(N/A)	5.780
Total Reserves	160.000	(N/A)	162.620	(N/A)	112.340

GTM--Gas Trade Model
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	(N/A)	(N/A)	(N/A)	(N/A)
Total Imports	0.890	(N/A)	(N/A)	(N/A)	(N/A)
Tot. Consumption	17.280	(N/A)	(N/A)	(N/A)	(N/A)
Residential Cons	4.430	(N/A)	(N/A)	(N/A)	(N/A)
Commercial Cons.	2.430	(N/A)	(N/A)	(N/A)	(N/A)
Industrial Cons.	5.900	(N/A)	(N/A)	(N/A)	(N/A)
Transport Cons.	1.470	(N/A)	(N/A)	(N/A)	(N/A)
El. Util'y Cons.	3.040	(N/A)	(N/A)	(N/A)	(N/A)
Wellhead Price	2.570	(N/A)	(N/A)	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	4.830	(N/A)	(N/A)	(N/A)	(N/A)
Total Reserves	160.000	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	17.560	(N/A)	14.310	(N/A)	10.400
Total Imports	0.700	(N/A)	2.000	(N/A)	2.000
Tot. Consumption	18.260	(N/A)	16.310	(N/A)	12.400
Residential Cons	5.090	(N/A)	4.820	(N/A)	4.220
Commercial Cons.	2.760	(N/A)	2.530	(N/A)	2.010
Industrial Cons.	5.870	(N/A)	5.320	(N/A)	4.150
Transport Cons.	1.460	(N/A)	1.310	(N/A)	0.990
El. Util'y Cons.	3.070	(N/A)	2.330	(N/A)	1.030
Wellhead Price	2.450	(N/A)	6.400	(N/A)	10.130
Citygate Price	3.400	(N/A)	7.400	(N/A)	11.310
Delivered Price	4.400	(N/A)	8.450	(N/A)	12.450
Total Reserves	160.000	(N/A)	72.430	(N/A)	36.410

GTM--Gas Trade Model
 High Demand
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	(N/A)	(N/A)	(N/A)	(N/A)
Total Imports	0.890	(N/A)	(N/A)	(N/A)	(N/A)
Tot. Consumption	17.280	(N/A)	(N/A)	(N/A)	(N/A)
Residential Cons.	4.430	(N/A)	(N/A)	(N/A)	(N/A)
Commercial Cons.	2.430	(N/A)	(N/A)	(N/A)	(N/A)
Industrial Cons.	5.900	(N/A)	(N/A)	(N/A)	(N/A)
Transport Cons.	1.470	(N/A)	(N/A)	(N/A)	(N/A)
El. Util'y Cons.	3.040	(N/A)	(N/A)	(N/A)	(N/A)
Wellhead Price	2.570	(N/A)	(N/A)	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Delivered Price	4.830	(N/A)	(N/A)	(N/A)	(N/A)
Total Reserves	160.000	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	17.560	(N/A)	20.770	(N/A)	19.040
Total Imports	0.700	(N/A)	1.660	(N/A)	2.000
Tot. Consumption	18.260	(N/A)	22.430	(N/A)	21.040
Residential Cons.	5.090	(N/A)	5.550	(N/A)	5.160
Commercial Cons.	2.760	(N/A)	3.140	(N/A)	2.800
Industrial Cons.	5.870	(N/A)	6.670	(N/A)	5.850
Transport Cons.	1.460	(N/A)	1.790	(N/A)	1.680
El. Util'y Cons.	3.070	(N/A)	5.280	(N/A)	5.550
Wellhead Price	2.450	(N/A)	4.010	(N/A)	7.170
Citygate Price	3.400	(N/A)	4.950	(N/A)	8.160
Delivered Price	4.400	(N/A)	5.900	(N/A)	9.090
Total Reserves	160.000	(N/A)	142.650	(N/A)	78.840

ICF
Upper Oil Price (Control)
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.037	15.575	15.373	(N/A)	(N/A)
Total Exports	0.055	0.055	0.055	(N/A)	(N/A)
Total Imports	0.798	0.820	1.038	(N/A)	(N/A)
Tot. Consumption	16.980	16.540	16.556	(N/A)	(N/A)
Residential Cons	4.316	4.410	4.458	(N/A)	(N/A)
Commercial Cons.	2.414	2.477	2.506	(N/A)	(N/A)
Industrial Cons.	5.973	5.539	5.513	(N/A)	(N/A)
Ind. Cons. w/l&p	6.872	6.413	6.372	(N/A)	(N/A)
Transport Cons.	0.461	0.440	0.449	(N/A)	(N/A)
El. Util'y Cons.	2.916	2.800	2.771	(N/A)	(N/A)
Wellhead Price	2.918	2.165	2.320	(N/A)	(N/A)
Citygate Price	3.872	2.980	3.053	(N/A)	(N/A)
Resident'l Price	6.310	5.681	5.567	(N/A)	(N/A)
Commercial Price	5.753	5.073	4.980	(N/A)	(N/A)
Industrial Price	4.281	3.159	3.337	(N/A)	(N/A)
El. Util. Price	3.773	2.619	2.938	(N/A)	(N/A)
Delivered Price	4.973	4.101	4.171	(N/A)	(N/A)
Total Reserves	151.876	143.763	136.641	(N/A)	(N/A)
Resid Oil Price	3.464	2.217	2.619	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	15.560	15.027	15.199	15.342	15.755
Total Exports	0.055	0.055	0.055	0.055	0.055
Total Imports	1.334	1.945	2.701	3.957	3.777
Tot. Consumption	17.035	17.117	18.045	19.445	19.696
Residential Cons	4.472	4.336	4.291	4.308	4.347
Commercial Cons.	2.559	2.570	2.709	2.845	2.992
Industrial Cons.	6.469	5.824	6.151	7.467	8.063
Ind. Cons. w/l&p	7.345	6.686	7.037	8.371	8.952
Transport Cons.	0.451	0.418	0.395	0.488	0.490
El. Util'y Cons.	2.209	3.107	3.613	3.432	2.914
Wellhead Price	2.701	4.196	5.402	5.578	5.794
Citygate Price	3.299	4.861	6.099	6.371	6.583
Resident'l Price	5.722	7.299	8.506	8.784	8.898
Commercial Price	5.165	6.743	7.990	8.279	8.434
Industrial Price	3.667	5.278	6.552	6.829	7.137
El. Util. Price	3.268	4.877	6.155	6.464	6.805
Delivered Price	4.440	5.991	7.199	7.454	7.714
Total Reserves	121.323	121.536	129.668	132.147	128.358
Resid Oil Price	3.093	4.206	5.485	6.134	6.784

ICF
 Lower Oil Price
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.037	15.575	13.420	(N/A)	(N/A)
Total Exports	0.055	0.055	0.055	(N/A)	(N/A)
Total Imports	0.798	0.820	1.038	(N/A)	(N/A)
Tot. Consumption	16.980	16.540	14.603	(N/A)	(N/A)
Residential Cons	4.316	4.410	4.484	(N/A)	(N/A)
Commercial Cons.	2.414	2.477	2.521	(N/A)	(N/A)
Industrial Cons.	5.973	5.539	4.620	(N/A)	(N/A)
Ind. Cons. w/l&p	6.872	6.413	5.374	(N/A)	(N/A)
Transport Cons.	0.461	0.440	0.395	(N/A)	(N/A)
El. Util'y Cons.	2.916	2.800	1.829	(N/A)	(N/A)
Wellhead Price	2.918	2.165	2.124	(N/A)	(N/A)
Citygate Price	3.872	2.980	2.887	(N/A)	(N/A)
Resident'l Price	6.310	5.681	5.598	(N/A)	(N/A)
Commercial Price	5.753	5.073	4.990	(N/A)	(N/A)
Industrial Price	4.281	3.159	3.123	(N/A)	(N/A)
El. Util. Price	3.773	2.619	2.196	(N/A)	(N/A)
Delivered Price	4.973	4.101	4.172	(N/A)	(N/A)
Total Reserves	151.876	143.763	137.137	(N/A)	(N/A)
Resid Oil Price	3.464	2.217	1.639	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	13.672	13.437	13.154	13.434	13.708
Total Exports	0.055	0.055	0.055	0.055	0.055
Total Imports	1.275	1.257	0.927	1.048	1.015
Tot. Consumption	15.092	14.839	14.226	14.627	14.867
Residential Cons	4.565	4.517	4.455	4.426	4.413
Commercial Cons.	2.619	2.682	2.809	2.916	3.033
Industrial Cons.	5.258	5.207	5.070	5.407	5.597
Ind. Cons. w/l&p	6.028	5.972	5.832	6.195	6.407
Transport Cons.	0.397	0.402	0.373	0.356	0.350
El. Util'y Cons.	1.483	1.266	0.757	0.734	0.664
Wellhead Price	2.114	2.866	3.907	4.516	5.083
Citygate Price	2.702	3.496	4.596	5.227	5.805
Resident'l Price	5.217	5.959	7.083	7.743	8.320
Commercial Price	4.640	5.413	6.567	7.248	7.856
Industrial Price	3.064	3.925	5.080	5.756	6.403
El. Util. Price	2.392	3.402	4.578	5.031	5.588
Delivered Price	3.995	4.825	6.031	6.691	7.302
Total Reserves	120.679	104.657	108.745	115.338	118.414
Resid Oil Price	1.845	2.413	3.062	3.402	3.887

ICF
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	15.975	15.605	15.642	(N/A)	(N/A)
Total Exports	0.055	0.055	0.055	(N/A)	(N/A)
Total Imports	0.798	0.820	1.038	(N/A)	(N/A)
Tot. Consumption	16.918	16.571	16.833	(N/A)	(N/A)
Residential Cons	4.316	4.409	4.439	(N/A)	(N/A)
Commercial Cons.	2.415	2.477	2.493	(N/A)	(N/A)
Industrial Cons.	5.975	5.540	5.802	(N/A)	(N/A)
Ind. Cons. w/l&p	6.871	6.416	6.680	(N/A)	(N/A)
Transport Cons.	0.460	0.441	0.452	(N/A)	(N/A)
El. Util'y Cons.	2.856	2.828	2.769	(N/A)	(N/A)
Wellhead Price	2.918	2.175	2.309	(N/A)	(N/A)
Citygate Price	3.871	2.987	3.093	(N/A)	(N/A)
Resident'l Price	6.310	5.691	5.681	(N/A)	(N/A)
Commercial Price	5.743	5.083	5.093	(N/A)	(N/A)
Industrial Price	4.281	3.165	3.341	(N/A)	(N/A)
El. Util. Price	3.773	2.619	2.887	(N/A)	(N/A)
Delivered Price	4.976	4.105	4.211	(N/A)	(N/A)
Total Reserves	151.902	143.793	135.952	(N/A)	(N/A)
Resid Oil Price	3.464	2.217	2.619	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	15.344	13.833	12.969	13.742	13.312
Total Exports	0.055	0.055	0.055	0.055	0.055
Total Imports	1.351	1.971	2.724	3.974	3.876
Tot. Consumption	16.840	15.950	15.839	17.861	17.334
Residential Cons	4.441	4.329	4.270	4.257	4.244
Commercial Cons.	2.540	2.566	2.697	2.815	2.932
Industrial Cons.	6.380	5.751	5.787	6.503	6.447
Ind. Cons. w/l&p	7.245	6.539	6.533	7.228	7.150
Transport Cons.	0.444	0.416	0.384	0.468	0.455
El. Util'y Cons.	2.170	2.100	1.956	3.093	2.553
Wellhead Price	2.856	4.227	5.547	6.042	6.753
Citygate Price	3.462	4.922	6.281	6.831	7.572
Resident'l Price	5.928	7.361	8.712	9.320	10.032
Commercial Price	5.361	6.794	8.196	8.825	9.568
Industrial Price	3.794	5.305	6.688	7.285	8.069
El. Util. Price	3.371	5.021	6.413	6.784	7.547
Delivered Price	4.602	6.127	7.516	7.972	8.774
Total Reserves	118.372	101.821	96.803	92.947	88.479
Resid Oil Price	3.093	4.206	5.485	6.134	6.784

ICF
 High Demand
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.037	15.575	15.373	(N/A)	(N/A)
Total Exports	0.055	0.055	0.055	(N/A)	(N/A)
Total Imports	0.798	0.820	1.038	(N/A)	(N/A)
Tot. Consumption	16.980	16.540	16.556	(N/A)	(N/A)
Residential Cons	4.316	4.410	4.458	(N/A)	(N/A)
Commercial Cons.	2.414	2.477	2.506	(N/A)	(N/A)
Industrial Cons.	5.973	5.539	5.513	(N/A)	(N/A)
Ind. Cons. w/l&p	6.872	6.413	6.372	(N/A)	(N/A)
Transport Cons.	0.461	0.440	0.449	(N/A)	(N/A)
El. Util'y Cons.	2.916	2.800	2.771	(N/A)	(N/A)
Wellhead Price	2.918	2.165	2.320	(N/A)	(N/A)
Citygate Price	3.872	2.980	3.053	(N/A)	(N/A)
Resident'l Price	6.310	5.681	5.567	(N/A)	(N/A)
Commercial Price	5.753	5.073	4.980	(N/A)	(N/A)
Industrial Price	4.281	3.159	3.337	(N/A)	(N/A)
El. Util. Price	3.773	2.619	2.938	(N/A)	(N/A)
Delivered Price	4.973	4.101	4.171	(N/A)	(N/A)
Total Reserves	151.876	143.763	136.641	(N/A)	(N/A)
Resid Oil Price	3.464	2.217	2.619	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	15.689	15.207	15.347	16.629	18.368
Total Exports	0.055	0.055	0.055	0.055	0.055
Total Imports	1.351	2.024	2.766	4.004	3.810
Tot. Consumption	17.185	17.322	18.260	20.778	22.323
Residential Cons	4.441	4.327	4.278	4.292	4.317
Commercial Cons.	2.541	2.565	2.701	2.835	2.975
Industrial Cons.	6.673	6.794	7.206	7.809	7.471
Ind. Cons. w/l&p	7.557	7.666	8.101	8.723	8.372
Transport Cons.	0.451	0.440	0.422	0.534	0.592
El. Util'y Cons.	2.196	2.324	2.757	4.395	6.067
Wellhead Price	2.846	4.237	5.495	5.763	6.042
Citygate Price	3.456	4.935	6.219	6.556	6.844
Resident'l Price	5.928	7.372	8.629	8.959	9.217
Commercial Price	5.361	6.815	8.124	8.465	8.753
Industrial Price	3.833	5.397	6.728	7.098	7.406
El. Util. Price	3.361	4.990	6.289	6.781	7.260
Delivered Price	4.600	6.099	7.359	7.640	7.931
Total Reserves	122.678	123.259	130.965	133.462	129.905
Resid Oil Price	3.093	4.206	5.485	6.134	6.784

MIT North American
 Upper Oil Price (Control)
 United States

	1985	1986	1987	1988	1989
Total Imports	(N/A)	(N/A)	1.084	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	2.739	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Imports	1.261	1.435	1.831	1.968	1.930
Citygate Price	3.122	3.283	3.447	4.369	4.450

MIT North American
 Lower Oil Price
 United States

	1985	1986	1987	1988	1989
Total Imports	(N/A)	(N/A)	0.820	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	2.271	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Imports	0.923	0.959	1.054	1.892	1.831
Citygate Price	2.501	2.915	2.865	3.831	3.915

MIT North American
 Low Resources
 United States

	1985	1986	1987	1988	1989
Total Imports	(N/A)	(N/A)	1.600	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	2.952	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Imports	1.472	1.816	2.000	2.000	1.974
Citygate Price	3.340	4.512	5.081	5.523	5.611

TERA
Upper Oil Price (Control)
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.690	15.900	16.340	17.530	17.610
Total Imports	0.950	0.750	0.910	0.870	0.870
Tot. Consumption	17.640	16.650	17.250	18.430	18.510
Residential Cons	4.430	4.310	4.590	4.510	4.540
Commercial Cons.	2.430	2.320	2.400	2.520	2.580
Industrial Cons.	6.250	6.010	5.930	6.520	6.510
Ind. Cons. w/l&p	7.220	6.930	6.870	7.510	7.490
Transport Cons.	0.500	0.480	0.510	0.530	0.540
El. Util'y Cons.	3.040	2.600	2.880	3.360	3.370
Wellhead Price	2.570	1.870	1.600	1.450	1.600
Citygate Price	3.850	3.330	2.630	2.300	2.460
Resident'l Price	6.270	6.120	5.310	4.700	4.850
Commercial Price	5.630	5.500	4.710	3.410	3.570
Industrial Price	4.050	3.730	2.600	2.660	2.850
El. Util. Price	3.660	3.550	2.300	2.250	2.410
Delivered Price	4.830	4.540	4.010	3.140	3.310
Tot. Res. Addns.	11.580	14.680	15.290	14.640	14.140
Assoc. Res. Adns	2.850	2.620	2.440	1.690	2.390
NA Res. Adns.	8.730	12.060	12.860	12.950	11.750
Offshore Addns.	3.190	3.560	5.100	4.880	4.710
Onshore Addns.	8.390	11.120	10.200	9.760	9.420
Discoveries	3.960	1.860	3.350	3.320	3.600
Revisions & Exte	7.620	12.820	11.960	11.320	10.540
Total Reserves	162.980	159.520	158.920	154.820	151.230
Resid Oil Price	4.490	2.480	2.860	3.200	3.370
Avg Elect Price	19.940	19.440	18.440	21.740	22.680

	1990	1995	2000	2005	2010
Mktd. Production	17.700	18.610	18.360	18.520	18.680
Total Imports	0.870	1.380	2.350	2.470	2.660
Tot. Consumption	18.600	20.000	20.720	21.010	21.360
Residential Cons	4.570	4.770	4.950	5.140	5.460
Commercial Cons.	2.670	2.920	3.260	3.460	3.760
Industrial Cons.	6.550	6.640	6.440	6.270	6.050
Ind. Cons. w/l&p	7.530	7.620	7.420	7.230	6.970
Transport Cons.	0.540	0.580	0.600	0.610	0.620
El. Util'y Cons.	3.290	4.100	4.470	4.570	4.550
Wellhead Price	1.640	2.230	2.990	3.460	3.850
Citygate Price	2.490	3.090	3.940	4.600	4.840
Resident'l Price	4.840	5.370	6.120	6.410	6.810
Commercial Price	3.590	4.120	4.910	5.260	5.750
Industrial Price	2.940	3.530	4.370	4.760	5.290
El. Util. Price	2.430	3.030	3.880	4.280	4.800
Delivered Price	3.360	3.910	4.730	5.110	5.620
Tot. Res. Addns.	15.120	18.090	17.920	15.880	13.550
Assoc. Res. Adns	2.480	2.830	2.670	2.240	1.810
NA Res. Adns.	12.640	15.260	15.250	13.620	11.730
Offshore Addns.	5.040	6.040	5.970	5.290	4.520
Onshore Addns.	10.080	12.050	11.950	10.590	9.030
Discoveries	3.710	4.360	4.240	3.700	3.130
Revisions & Exte	11.400	13.730	13.680	12.180	10.420
Total Reserves	148.140	139.360	136.920	130.320	112.140
Resid Oil Price	3.530	4.490	5.770	6.410	7.050
Avg Elect Price	23.200	24.110	25.380	26.720	27.500

TERA
Lower Oil Price
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.690	15.900	16.340	16.260	16.340
Total Imports	0.950	0.750	0.910	0.870	0.870
Tot. Consumption	17.640	16.650	17.250	17.160	17.240
Residential Cons	4.430	4.310	4.590	4.530	4.530
Commercial Cons.	2.430	2.320	2.400	2.320	2.330
Industrial Cons.	6.250	6.010	5.930	5.870	5.730
Ind. Cons. w/l&p	7.220	6.930	6.870	6.850	6.710
Transport Cons.	0.500	0.480	0.510	0.500	0.510
El. Util'y Cons.	3.040	2.600	2.880	2.940	3.140
Wellhead Price	2.570	1.870	1.600	1.190	1.350
Citygate Price	3.850	3.330	2.630	2.390	2.540
Resident'l Price	6.270	6.120	5.310	4.860	4.990
Commercial Price	5.630	5.500	4.710	3.570	3.670
Industrial Price	4.050	3.730	2.600	1.870	2.140
El. Util. Price	3.660	3.550	2.300	2.360	2.500
Delivered Price	4.830	4.540	4.010	2.890	3.080
Tot. Res. Adns.	11.580	14.680	15.290	14.580	13.620
Assoc. Res. Adns	2.850	2.620	2.440	1.760	2.070
NA Res. Adns.	8.730	12.060	12.860	12.830	11.550
Offshore Adns.	3.190	3.560	5.100	4.860	4.540
Onshore Adns.	8.390	11.120	10.200	9.720	9.080
Discoveries	3.960	1.860	3.350	3.320	3.660
Revisions & Exte	7.620	12.820	11.960	11.260	9.960
Total Reserves	162.980	159.520	158.920	154.790	151.150
Resid Oil Price	4.490	2.480	2.860	2.090	2.240
Avg Elect Price	19.940	19.440	18.440	21.180	22.710
	1990	1995	2000	2005	2010
Mktd. Production	16.310	15.370	14.640	14.950	15.260
Total Imports	0.870	1.380	2.350	2.470	2.660
Tot. Consumption	17.210	16.780	17.020	17.440	17.940
Residential Cons	4.540	4.670	4.860	5.040	5.380
Commercial Cons.	2.350	2.480	2.630	2.840	3.100
Industrial Cons.	5.630	5.180	4.960	4.810	4.660
Ind. Cons. w/l&p	6.610	6.170	5.960	5.780	5.590
Transport Cons.	0.510	0.510	0.500	0.510	0.530
El. Util'y Cons.	3.190	2.950	3.060	3.270	3.340
Wellhead Price	1.340	1.830	2.470	2.810	3.270
Citygate Price	2.540	3.080	3.710	4.320	4.560
Resident'l Price	4.970	5.390	5.950	6.200	6.590
Commercial Price	3.650	4.120	4.720	5.020	5.520
Industrial Price	2.220	2.640	3.420	4.010	4.530
El. Util. Price	2.510	2.980	3.640	3.970	4.490
Delivered Price	3.110	3.560	4.260	4.700	5.220
Tot. Res. Adns.	13.650	15.020	14.010	11.850	8.910
Assoc. Res. Adns	2.020	2.030	1.740	1.410	1.010
NA Res. Adns.	11.630	13.000	12.260	10.440	7.910
Offshore Adns.	4.560	5.000	4.670	3.940	2.970
Onshore Adns.	9.090	10.020	9.330	7.910	5.940
Discoveries	3.510	3.870	3.550	2.960	2.210
Revisions & Exte	10.140	11.170	10.460	8.880	6.700
Total Reserves	148.000	139.320	137.010	128.920	106.920
Resid Oil Price	2.240	2.720	3.360	3.690	4.170
Avg Elect Price	23.140	24.350	25.440	26.550	27.050

TERA
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.690	15.900	16.340	17.540	17.610
Total Imports	0.950	0.750	0.910	0.870	0.870
Tot. Consumption	17.640	16.650	17.250	18.430	18.510
Residential Cons.	4.430	4.310	4.590	4.510	4.540
Commercial Cons.	2.430	2.320	2.400	2.520	2.580
Industrial Cons.	6.250	6.010	5.930	6.520	6.510
Ind. Cons. w/l&p	7.220	6.930	6.870	7.510	7.490
Transport Cons.	0.500	0.480	0.510	0.530	0.540
El. Util'y Cons.	3.040	2.600	2.880	3.360	3.370
Wellhead Price	2.570	1.870	1.600	1.450	1.600
Citygate Price	3.850	3.330	2.630	2.300	2.460
Resident'l Price	6.270	6.120	5.310	4.700	4.850
Commercial Price	5.630	5.500	4.710	3.410	3.570
Industrial Price	4.050	3.730	2.600	2.660	2.850
El. Util. Price	3.660	3.550	2.300	2.250	2.410
Delivered Price	4.830	4.540	4.010	3.140	3.310
Tot. Res. Addns.	11.580	14.680	15.290	14.100	13.130
Assoc. Res. Adns	2.850	2.620	2.440	1.610	2.200
NA Res. Adns.	8.730	12.060	12.860	12.490	10.930
Offshore Addns.	3.190	3.560	5.100	4.700	4.380
Onshore Addns.	8.390	11.120	10.200	9.400	8.760
Discoveries	3.960	1.860	3.350	3.220	3.340
Revisions & Exte	7.620	12.820	11.960	10.890	9.790
Total Reserves	162.980	159.520	158.920	154.140	149.520
Resid Oil Price	4.490	2.480	2.860	3.200	3.370
Avg Elect Price	19.940	19.440	18.440	21.740	22.680
	1990	1995	2000	2005	2010
Mktd. Production	17.710	18.290	17.630	17.000	16.380
Total Imports	0.870	1.370	2.350	2.960	3.090
Tot. Consumption	18.610	19.680	20.000	19.970	19.560
Residential Cons.	4.570	4.760	4.890	5.050	5.250
Commercial Cons.	2.680	2.810	3.100	3.260	3.350
Industrial Cons.	6.550	6.510	6.140	5.780	5.330
Ind. Cons. w/l&p	7.530	7.490	7.120	6.750	6.250
Transport Cons.	0.540	0.570	0.580	0.580	0.570
El. Util'y Cons.	3.290	4.050	4.310	4.330	4.130
Wellhead Price	1.640	2.370	3.420	4.290	5.100
Citygate Price	2.490	3.250	4.400	5.650	6.240
Resident'l Price	4.840	5.560	6.630	7.400	8.310
Commercial Price	3.590	4.300	5.410	6.240	7.230
Industrial Price	2.940	3.670	4.840	5.720	6.710
El. Util. Price	2.430	3.200	4.350	5.190	6.200
Delivered Price	3.360	4.080	5.220	6.080	7.080
Tot. Res. Addns.	13.420	14.180	14.740	14.960	13.090
Assoc. Res. Adns	2.190	2.170	2.070	1.930	1.690
NA Res. Adns.	11.230	12.030	12.690	13.030	11.400
Offshore Addns.	4.470	4.730	4.920	4.990	4.370
Onshore Addns.	8.950	9.460	9.830	9.970	8.720
Discoveries	3.300	3.430	3.510	3.570	3.120
Revisions & Exte	10.120	10.760	11.230	11.390	9.970
Total Reserves	145.070	123.980	105.870	93.120	80.420
Resid Oil Price	3.530	4.490	5.770	6.410	7.050
Avg Elect Price	23.180	24.190	25.620	27.180	28.140

TERA
High Demand
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.690	15.900	16.340	17.730	18.080
Total Imports	0.950	0.750	0.910	1.010	1.000
Tot. Consumption	17.640	16.650	17.250	18.740	19.080
Residential Cons	4.430	4.310	4.590	4.510	4.540
Commercial Cons.	2.430	2.320	2.400	2.590	2.720
Industrial Cons.	6.250	6.010	5.930	6.550	6.630
Ind. Cons. w/l&p	7.220	6.930	6.870	7.530	7.610
Transport Cons.	0.500	0.480	0.510	0.540	0.550
El. Util'y Cons.	3.040	2.600	2.880	3.570	3.660
Wellhead Price	2.570	1.870	1.600	1.450	1.600
Citygate Price	3.850	3.330	2.630	2.300	2.460
Resident'l Price	6.270	6.120	5.310	4.700	4.850
Commercial Price	5.630	5.500	4.710	3.410	3.570
Industrial Price	4.050	3.730	2.600	2.660	2.850
El. Util. Price	3.660	3.550	2.300	2.250	2.410
Delivered Price	4.830	4.540	4.010	3.140	3.310
Tot. Res. Addns.	11.580	14.680	15.290	14.820	14.670
Assoc. Res. Adns	2.850	2.620	2.440	1.690	2.350
NA Res. Adns.	8.730	12.060	12.860	13.130	12.320
Offshore Addns.	3.190	3.560	5.100	4.940	4.890
Onshore Addns.	8.390	11.120	10.200	9.880	9.780
Discoveries	3.960	1.860	3.350	3.490	3.800
Revisions & Exte	7.620	12.820	11.960	11.330	10.870
Total Reserves	162.980	159.520	158.920	154.910	151.450
Resid Oil Price	4.490	2.480	2.860	5.470	5.670
Avg Elect Price	19.940	19.440	18.440	21.820	22.780
	1990	1995	2000	2005	2010
Mktd. Production	18.040	19.150	19.360	19.810	20.260
Total Imports	0.870	1.370	2.350	2.470	2.660
Tot. Consumption	18.930	20.550	21.710	22.290	22.930
Residential Cons	4.510	4.730	4.870	5.050	5.260
Commercial Cons.	2.870	3.080	3.230	3.390	3.560
Industrial Cons.	6.670	6.760	6.640	6.480	6.300
Ind. Cons. w/l&p	7.630	7.720	7.650	7.490	7.270
Transport Cons.	0.550	0.600	0.630	0.650	0.670
El. Util'y Cons.	3.360	4.420	5.340	5.710	6.170
Wellhead Price	1.650	2.350	3.400	4.150	4.900
Citygate Price	2.470	3.190	4.320	5.420	5.910
Resident'l Price	4.800	5.480	6.590	7.230	8.030
Commercial Price	3.570	4.180	5.280	5.980	6.810
Industrial Price	2.940	3.610	4.750	5.480	6.340
El. Util. Price	2.420	3.130	4.260	4.990	5.850
Delivered Price	3.340	3.970	5.100	5.820	6.670
Tot. Res. Addns.	15.680	19.010	19.470	18.020	16.200
Assoc. Res. Adns	2.450	2.910	2.740	2.340	1.970
NA Res. Adns.	13.230	16.100	16.730	15.680	14.220
Offshore Addns.	5.230	6.330	6.500	6.000	5.400
Onshore Addns.	10.450	12.680	12.970	12.020	10.800
Discoveries	3.790	4.580	4.640	4.270	3.860
Revisions & Exte	11.890	14.430	14.830	13.750	12.340
Total Reserves	148.540	141.180	140.980	137.730	124.240
Resid Oil Price	5.870	7.030	8.550	9.790	10.200
Avg Elect Price	23.250	24.390	26.010	27.550	28.730

AGAS
Upper Oil Price (Control)
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.500	(N/A)	(N/A)	15.800	(N/A)
Total Imports	0.920	(N/A)	(N/A)	1.433	(N/A)
Tot. Consumption	16.327	(N/A)	(N/A)	16.182	(N/A)
Citygate Price	3.110	(N/A)	(N/A)	3.000	(N/A)
Delivered Price	3.960	(N/A)	(N/A)	3.850	(N/A)
Tot. Res. Addns.	11.670	(N/A)	(N/A)	10.000	(N/A)
Total Reserves	148.300	(N/A)	(N/A)	133.600	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	15.500	16.500	17.500	18.100	(N/A)
Total Imports	1.811	1.955	1.842	1.578	(N/A)
Tot. Consumption	16.325	17.397	18.223	18.453	(N/A)
Citygate Price	3.287	4.233	5.460	6.103	(N/A)
Delivered Price	4.140	5.080	6.310	6.950	(N/A)
Tot. Res. Addns.	10.773	18.003	17.910	19.803	(N/A)
Total Reserves	126.730	132.170	139.800	144.070	(N/A)

AGAS
Lower Oil Price
United States

	1985	1986	1987	1988	1989
Mktd. Production	16.500	(N/A)	(N/A)	13.600	(N/A)
Total Imports	0.920	(N/A)	(N/A)	0.940	(N/A)
Tot. Consumption	16.327	(N/A)	(N/A)	13.639	(N/A)
Citygate Price	3.110	(N/A)	(N/A)	2.310	(N/A)
Delivered Price	3.960	(N/A)	(N/A)	3.160	(N/A)
Tot. Res. Addns.	11.670	(N/A)	(N/A)	10.000	(N/A)
Total Reserves	148.300	(N/A)	(N/A)	140.200	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	14.000	12.700	14.100	11.700	(N/A)
Total Imports	1.177	1.563	1.140	1.289	(N/A)
Tot. Consumption	14.282	13.395	14.420	12.375	(N/A)
Citygate Price	2.290	3.117	3.680	4.450	(N/A)
Delivered Price	3.140	3.970	4.530	5.300	(N/A)
Tot. Res. Addns.	6.447	9.123	17.160	4.613	(N/A)
Total Reserves	122.730	101.300	112.600	93.770	(N/A)

AGAS
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.500	(N/A)	(N/A)	15.500	(N/A)
Total Imports	0.920	(N/A)	(N/A)	1.496	(N/A)
Tot. Consumption	16.327	(N/A)	(N/A)	16.001	(N/A)
Citygate Price	3.110	(N/A)	(N/A)	3.000	(N/A)
Delivered Price	3.960	(N/A)	(N/A)	3.850	(N/A)
Tot. Res. Addns.	11.670	(N/A)	(N/A)	10.000	(N/A)
Total Reserves	148.300	(N/A)	(N/A)	134.400	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	14.200	14.100	15.000	12.400	(N/A)
Total Imports	1.832	2.000	2.000	1.858	(N/A)
Tot. Consumption	15.121	15.155	15.971	13.512	(N/A)
Citygate Price	3.507	4.630	5.950	6.943	(N/A)
Delivered Price	4.360	5.480	6.800	7.930	(N/A)
Tot. Res. Addns.	6.000	14.393	15.990	7.707	(N/A)
Total Reserves	117.200	112.700	119.800	99.270	(N/A)

AGAS
 High Demand
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.500	(N/A)	(N/A)	16.000	(N/A)
Total Imports	0.920	(N/A)	(N/A)	1.440	(N/A)
Tot. Consumption	16.327	(N/A)	(N/A)	16.336	(N/A)
Citygate Price	3.110	(N/A)	(N/A)	3.000	(N/A)
Delivered Price	3.960	(N/A)	(N/A)	3.850	(N/A)
Tot. Res. Addns.	11.670	(N/A)	(N/A)	10.000	(N/A)
Total Reserves	148.300	(N/A)	(N/A)	133.100	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	15.800	17.500	17.500	18.100	(N/A)
Total Imports	1.813	1.980	1.931	1.767	(N/A)
Tot. Consumption	16.548	18.333	18.295	18.750	(N/A)
Citygate Price	3.287	4.233	5.460	6.643	(N/A)
Delivered Price	4.140	5.080	6.310	7.490	(N/A)
Tot. Res. Addns.	11.553	20.337	14.960	19.913	(N/A)
Total Reserves	128.100	140.170	140.100	145.430	(N/A)

GRI Hydrocarbon
Upper Oil Price (Control)
United States

	1985	1986	1987	1988	1989
Mktd. Production	15.962	15.242	15.483	15.772	15.779
Wellhead Price	3.440	1.430	1.890	2.200	2.360
Tot. Res. Addns.	14.080	10.896	10.135	10.283	11.327
Assoc. Res. Adns	2.061	1.749	1.759	1.656	1.779
NA Res. Adns.	12.019	9.147	8.377	8.627	9.548
Offshore Addns.	4.649	3.713	3.343	3.346	3.549
Onshore Addns.	9.431	7.182	6.793	6.937	7.778
Total Reserves	167.539	165.334	160.988	155.639	150.150

	1990	1995	2000	2005	2010
Mktd. Production	15.667	15.665	15.239	14.172	13.738
Wellhead Price	2.510	3.440	4.690	5.310	5.930
Tot. Res. Addns.	11.657	11.790	12.759	14.554	14.574
Assoc. Res. Adns	1.623	1.622	1.563	1.575	1.306
NA Res. Adns.	10.034	10.168	11.196	12.979	13.268
Offshore Addns.	3.758	3.701	4.387	4.412	3.060
Onshore Addns.	7.899	8.088	8.372	10.142	11.514
Total Reserves	145.699	127.582	110.657	104.146	107.820

GRI Hydrocarbon
Lower Oil Price
United States

	1985	1986	1987	1988	1989
Mktd. Production	15.962	15.241	15.483	15.772	15.780
Wellhead Price	3.440	1.430	0.960	1.120	1.270
Tot. Res. Addns.	14.088	10.902	9.916	10.028	7.806
Assoc. Res. Adns	2.066	1.752	1.382	1.337	1.297
NA Res. Adns.	12.023	9.150	8.534	8.691	6.509
Offshore Addns.	4.656	3.718	3.296	3.307	2.640
Onshore Addns.	9.432	7.184	6.620	6.722	5.167
Total Reserves	167.544	165.348	161.009	155.442	149.698

	1990	1995	2000	2005	2010
Mktd. Production	15.669	14.905	13.726	12.675	10.187
Wellhead Price	1.270	1.740	2.360	2.670	3.130
Tot. Res. Addns.	8.868	10.315	12.368	9.034	8.185
Assoc. Res. Adns	1.326	1.560	1.685	1.190	0.860
NA Res. Adns.	7.543	8.755	10.683	7.844	7.325
Offshore Addns.	3.151	3.225	3.504	1.803	1.219
Onshore Addns.	5.718	7.090	8.864	7.230	6.967
Total Reserves	141.724	114.774	100.261	92.016	77.640

GRI Hydrocarbon
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	15.964	15.243	15.486	15.773	15.779
Wellhead Price	3.440	1.430	1.890	2.200	2.360
Tot. Res. Addns.	12.515	9.499	9.578	9.587	10.816
Assoc. Res. Adns	1.862	1.559	1.578	1.486	1.639
NA Res. Adns.	10.654	7.940	7.999	8.101	9.178
Offshore Addns.	4.102	3.199	3.099	3.053	3.594
Onshore Addns.	8.413	6.299	6.479	6.534	7.222
Total Reserves	163.028	159.266	153.521	147.613	141.427
	1990	1995	2000	2005	2010
Mktd. Production	15.667	15.652	14.500	11.378	7.725
Wellhead Price	2.510	3.440	4.690	5.310	5.930
Tot. Res. Addns.	11.467	12.671	10.472	7.250	3.676
Assoc. Res. Adns	1.534	1.637	1.441	0.810	0.443
NA Res. Adns.	9.933	11.033	9.032	6.441	3.233
Offshore Addns.	3.940	4.478	2.816	1.145	0.316
Onshore Addns.	7.527	8.192	7.657	6.105	3.360
Total Reserves	136.464	116.073	97.387	76.656	56.078

Lewin & Associates
 Upper Oil Price (Control)
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.980	16.180	16.260	16.380
Total Imports	0.890	0.690	0.900	0.950	1.000
Tot. Consumption	17.280	16.670	17.080	17.210	17.380
Wellhead Price	2.570	1.940	1.900	1.900	1.900
Delivered Price	4.830	4.190	4.100	4.050	4.000
Tot. Res. Addns.	11.900	13.800	9.600	10.400	9.600
Assoc. Res. Adns	3.200	2.400	0.900	1.200	1.200
NA Res. Adns.	8.700	11.400	8.700	9.200	8.400
Offshore Addns.	3.190	2.580	3.060	3.220	3.380
Onshore Addns.	8.700	11.250	5.610	5.650	5.390
Total Reserves	163.000	159.500	158.900	151.600	146.200
	1990	1995	2000	2005	2010
Mktd. Production	16.270	15.700	15.600	15.790	15.890
Total Imports	1.100	1.700	2.200	2.500	2.800
Tot. Consumption	17.370	17.400	17.800	18.280	18.690
Wellhead Price	2.100	3.300	3.950	4.550	4.950
Delivered Price	4.150	5.100	5.750	6.350	6.750
Tot. Res. Addns.	10.400	15.500	14.800	15.700	15.500
Assoc. Res. Adns	1.200	1.100	1.100	1.000	0.900
NA Res. Adns.	9.200	14.400	13.700	14.700	14.600
Offshore Addns.	3.840	4.310	11.940	13.550	3.280
Onshore Addns.	7.990	10.280	1.000	1.000	11.130
Total Reserves	139.900	130.100	129.900	131.300	132.300

Lewin & Associates
 Lower Oil Price
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.980	16.180	14.430	15.470
Total Imports	0.890	0.690	0.900	0.950	1.000
Tot. Consumption	17.280	16.670	17.080	15.380	16.470
Wellhead Price	2.570	1.940	1.900	1.700	1.700
Delivered Price	4.830	4.190	4.100	3.850	3.800
Tot. Res. Addns.	11.900	13.800	9.600	5.700	6.200
Assoc. Res. Adns	3.200	2.400	0.900	0.400	0.500
NA Res. Adns.	8.700	11.400	8.700	5.300	5.700
Offshore Addns.	3.190	2.580	1.740	1.340	1.160
Onshore Addns.	8.700	11.250	6.680	3.750	3.690
Total Reserves	163.000	159.500	158.900	151.600	143.300
	1990	1995	2000	2005	2010
Mktd. Production	15.180	13.160	13.830	14.460	14.760
Total Imports	1.000	2.000	2.100	2.300	2.600
Tot. Consumption	16.180	15.160	15.930	16.760	17.360
Wellhead Price	1.800	3.250	3.800	4.150	4.700
Delivered Price	3.850	5.050	5.600	5.950	6.500
Tot. Res. Addns.	6.000	13.400	14.100	14.500	14.800
Assoc. Res. Adns	0.500	0.500	0.600	0.500	0.500
NA Res. Adns.	5.500	12.900	13.500	14.000	14.300
Offshore Addns.	1.280	2.110	3.730	4.440	4.420
Onshore Addns.	4.860	10.240	8.920	7.510	6.540
Total Reserves	134.500	109.900	115.300	119.300	122.200

Lewin & Associates
 Low Resources
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.980	16.180	16.260	16.380
Total Imports	0.890	0.690	0.900	0.950	1.000
Tot. Consumption	17.280	16.670	17.080	17.210	17.380
Wellhead Price	2.570	1.940	1.900	1.900	1.900
Delivered Price	4.830	4.190	4.100	4.050	4.000
Tot. Res. Addns.	11.900	13.800	9.600	10.400	9.600
Assoc. Res. Adns	3.200	2.400	0.900	1.200	1.200
NA Res. Adns.	8.700	11.400	8.700	9.200	8.400
Offshore Addns.	3.190	2.580	3.060	3.220	3.380
Onshore Addns.	8.700	11.250	5.610	5.650	5.390
Total Reserves	163.000	159.500	158.900	151.600	146.200
	1990	1995	2000	2005	2010
Mktd. Production	16.270	15.650	15.400	15.080	14.250
Total Imports	1.100	1.750	2.200	2.800	2.870
Tot. Consumption	17.370	17.400	17.700	17.880	17.120
Wellhead Price	2.100	3.300	4.150	5.050	6.000
Delivered Price	4.150	5.100	5.950	6.850	7.800
Tot. Res. Addns.	10.400	15.200	13.900	13.100	10.500
Assoc. Res. Adns	1.200	1.100	1.100	0.900	0.800
NA Res. Adns.	9.200	14.100	12.800	12.200	9.700
Offshore Addns.	3.840	4.240	3.380	2.960	2.160
Onshore Addns.	7.990	10.110	9.500	9.760	7.170
Total Reserves	139.900	130.100	128.300	125.000	121.200

Lewin & Associates
 High Demand
 United States

	1985	1986	1987	1988	1989
Mktd. Production	16.380	15.980	16.180	16.310	16.370
Total Imports	0.890	0.690	0.900	0.950	1.000
Tot. Consumption	17.280	16.670	17.080	17.260	17.370
Wellhead Price	2.570	1.940	1.900	1.900	2.000
Delivered Price	4.830	4.190	4.100	4.050	4.100
Tot. Res. Addns.	11.900	13.800	9.600	10.400	10.100
Assoc. Res. Adns	3.200	2.400	0.900	1.200	1.200
NA Res. Adns.	8.700	11.400	8.700	9.200	8.900
Offshore Addns.	3.190	2.580	3.060	3.310	3.470
Onshore Addns.	8.700	11.250	5.700	6.500	6.230
Total Reserves	163.000	159.500	158.900	151.600	146.200
	1990	1995	2000	2005	2010
Mktd. Production	16.430	15.900	16.160	16.620	17.030
Total Imports	1.000	1.900	2.300	2.600	2.870
Tot. Consumption	17.430	17.800	18.460	19.220	19.900
Wellhead Price	2.200	3.400	4.100	4.750	5.200
Delivered Price	4.250	5.200	5.900	6.550	7.000
Tot. Res. Addns.	11.300	16.200	15.800	17.000	17.000
Assoc. Res. Adns	1.200	1.100	1.100	1.000	0.900
NA Res. Adns.	10.100	15.100	14.700	16.000	16.100
Offshore Addns.	4.290	4.510	3.760	3.630	3.330
Onshore Addns.	10.450	11.540	10.630	11.610	11.470
Total Reserves	140.400	132.300	134.800	138.300	142.000

GAMS		Federal Regions				
Upper Oil Price (Control)						
New England						
		1985	1986	1987	1988	1989
Tot. Consumption		0.340	0.310	0.300	0.360	0.360
Industrial Price		5.600	4.900	4.990	5.030	5.200
		1990	1995	2000	2005	2010
Tot. Consumption		0.380	0.290	0.390	0.390	0.390
Industrial Price		5.400	6.310	7.830	8.290	8.790

GAMS		Federal Regions				
Upper Oil Price (Control)						
West South Central (Southwest)						
		1985	1986	1987	1988	1989
Tot. Consumption		4.720	4.580	4.520	4.530	4.660
Industrial Price		3.250	2.330	2.350	2.350	2.520
		1990	1995	2000	2005	2010
Tot. Consumption		4.710	4.890	4.770	4.390	4.320
Industrial Price		2.680	3.540	5.300	6.170	6.690

GAMS		Federal Regions				
Upper Oil Price (Control)						
Pacific (West)						
		1985	1986	1987	1988	1989
Tot. Consumption		2.020	1.680	1.670	1.810	1.900
Industrial Price		4.850	3.600	3.640	3.410	3.430
		1990	1995	2000	2005	2010
Tot. Consumption		2.000	2.500	2.900	2.810	2.770
Industrial Price		3.480	4.140	5.740	6.500	7.090

GAMS		Federal Regions				
Upper Oil Price (Control)						
Mid Atlantic (NY-NJ)						
		1985	1986	1987	1988	1989
Tot. Consumption		1.140	1.080	1.070	1.190	1.200
Industrial Price		5.520	4.670	4.770	4.740	4.880
		1990	1995	2000	2005	2010
Tot. Consumption		1.210	1.280	1.140	1.120	1.120
Industrial Price		4.990	5.510	6.920	7.480	7.870

GAMS
Lower Oil Price
New England

	1985	1986	1987	1988	1989
Tot. Consumption	0.340	0.310	0.300	0.360	0.250
Industrial Price	5.600	4.900	4.990	4.990	5.120
	1990	1995	2000	2005	2010
Tot. Consumption	0.260	0.290	0.390	0.310	0.390
Industrial Price	5.100	5.530	6.640	7.200	7.690

GAMS
Lower Oil Price
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	4.720	4.580	4.520	4.540	4.680
Industrial Price	3.250	2.330	2.350	2.260	2.410
	1990	1995	2000	2005	2010
Tot. Consumption	4.760	4.970	4.460	3.900	3.790
Industrial Price	2.470	2.960	4.240	4.820	5.490

GAMS
Lower Oil Price
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	2.020	1.680	1.670	1.660	1.710
Industrial Price	4.850	3.600	3.640	3.590	3.930
	1990	1995	2000	2005	2010
Tot. Consumption	1.850	2.300	1.710	1.790	1.680
Industrial Price	3.400	3.660	4.690	5.340	6.050

GAMS
Lower Oil Price
Mid Atlantic (NY-NJ)

	1985	1986	1987	1988	1989
Tot. Consumption	1.140	1.080	1.070	0.920	0.920
Industrial Price	5.520	4.670	4.770	4.710	4.770
	1990	1995	2000	2005	2010
Tot. Consumption	0.960	0.960	1.170	1.180	1.160
Industrial Price	4.790	5.000	5.890	6.320	6.840

GAMS
 Low Resources
 New England

	1985	1986	1987	1988	1989
Tot. Consumption	0.340	0.310	0.300	0.360	0.360
Industrial Price	5.600	4.900	4.990	5.010	5.200
	1990	1995	2000	2005	2010
Tot. Consumption	0.310	0.290	0.390	0.310	0.300
Industrial Price	5.510	6.950	9.510	11.740	14.550

GAMS
 Low Resources
 West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	4.720	4.580	4.520	4.530	4.670
Industrial Price	3.250	2.330	2.350	2.350	2.520
	1990	1995	2000	2005	2010
Tot. Consumption	4.700	4.780	3.870	3.270	2.860
Industrial Price	2.710	3.940	6.770	9.110	11.950

GAMS
 Low Resources
 Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	2.020	1.680	1.670	1.810	1.900
Industrial Price	4.850	3.600	3.640	3.410	3.430
	1990	1995	2000	2005	2010
Tot. Consumption	2.000	2.470	2.850	2.480	1.590
Industrial Price	3.520	4.490	7.330	10.100	12.440

GAMS
 Low Resources
 Mid Atlantic (NY-NJ)

	1985	1986	1987	1988	1989
Tot. Consumption	1.140	1.080	1.070	1.190	1.200
Industrial Price	5.520	4.670	4.770	4.740	4.880
	1990	1995	2000	2005	2010
Tot. Consumption	1.210	1.190	1.090	1.060	0.890
Industrial Price	5.040	5.900	8.360	10.120	12.690

GAMS
High Demand
New England

	1985	1986	1987	1988	1989
Tot. Consumption	0.340	0.310	0.300	0.380	0.280
Industrial Price	5.600	4.900	4.990	5.040	5.240
	1990	1995	2000	2005	2010
Tot. Consumption	0.290	0.380	0.480	0.560	0.600
Industrial Price	5.630	6.550	8.710	9.250	9.740

GAMS
High Demand
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	4.720	4.580	4.520	4.540	4.670
Industrial Price	3.250	2.330	2.350	2.360	2.540
	1990	1995	2000	2005	2010
Tot. Consumption	4.690	4.970	5.030	4.790	4.920
Industrial Price	2.780	3.960	6.120	7.200	7.800

GAMS
High Demand
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	2.020	1.680	1.670	1.950	2.080
Industrial Price	4.850	3.600	3.640	3.400	3.440
	1990	1995	2000	2005	2010
Tot. Consumption	2.230	2.730	3.190	3.040	3.070
Industrial Price	3.580	4.580	6.620	7.850	8.570

GAMS
High Demand
Mid Atlantic (NY-NJ)

	1985	1986	1987	1988	1989
Tot. Consumption	1.140	1.080	1.070	1.190	1.200
Industrial Price	5.520	4.670	4.770	4.770	4.880
	1990	1995	2000	2005	2010
Tot. Consumption	1.210	1.260	1.230	1.280	1.360
Industrial Price	5.130	5.910	7.740	8.380	8.820

GRI North American
Upper Oil Price (Control)
Canada

Census Regions

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	0.900	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	0.808	0.653	0.537	0.524	0.625
Wellhead Price	3.332	3.852	4.426	5.030	5.642

GRI North American
Upper Oil Price (Control)
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	5.038	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	5.071	5.104	5.160	5.197	5.200
Delivered Price	3.520	3.970	4.432	4.932	5.470

GRI North American
Upper Oil Price (Control)
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	1.710	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.961	2.264	2.444	2.507	2.510
Delivered Price	3.664	4.054	4.498	5.002	5.522

GRI North American
Upper Oil Price (Control)
Mid Atlantic (NY-NJ) -- Includes New England

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	2.045	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.978	2.056	2.247	2.374	2.531
Delivered Price	4.652	4.972	5.436	6.044	6.666

GRI North American
Lower Oil Price
Canada

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	0.900	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	0.769	0.537	0.379	0.305	0.311
Wellhead Price	3.054	3.394	3.830	4.342	4.826

GRI North American
Lower Oil Price
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	5.038	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	4.710	3.983	3.712	3.742	3.913
Delivered Price	3.158	3.538	3.888	4.260	4.666

GRI North American
Lower Oil Price
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	1.710	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.866	1.856	1.832	1.841	1.878
Delivered Price	3.334	3.674	4.008	4.398	4.816

GRI North American
Lower Oil Price
Mid Atlantic (NY-NJ) -- Includes New England

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	2.045	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	2.146	2.151	2.081	2.041	2.070
Delivered Price	4.230	4.480	4.826	5.332	5.836

GRI North American
Low Resources
Canada

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	0.900	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	1.123	1.202	1.339	1.743	2.183
Wellhead Price	3.816	4.576	5.282	5.916	6.550

GRI North American
Low Resources
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	5.038	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	4.489	3.904	3.898	4.072	4.155
Delivered Price	4.284	4.974	5.670	6.418	7.210

GRI North American
Low Resources
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	1.710	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.787	1.871	1.993	2.090	2.130
Delivered Price	4.288	4.918	5.548	6.172	6.810

GRI North American
Low Resources
Mid Atlantic (NY-NJ) -- Includes New England

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	2.045	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	2.043	1.918	1.811	1.791	1.850
Delivered Price	5.306	5.966	6.704	7.416	8.100

GRI North American
High Demand
Canada

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	0.900	(N/A)	(N/A)
Wellhead Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	0.904	0.790	0.663	0.719	0.932
Wellhead Price	3.452	4.022	4.658	5.320	5.982

GRI North American
High Demand
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	5.038	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	5.294	5.381	5.402	5.495	5.609
Delivered Price	3.704	4.194	4.696	5.254	5.868

GRI North American
High Demand
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	1.710	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	2.184	2.558	2.616	2.627	2.648
Delivered Price	3.788	4.218	4.714	5.260	5.816

GRI North American
High Demand
Mid Atlantic (NY-NJ) -- Includes New England

	1985	1986	1987	1988	1989
Tot. Consumption	(N/A)	(N/A)	2.045	(N/A)	(N/A)
Delivered Price	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	2.096	2.188	2.392	2.669	3.003
Delivered Price	4.836	5.196	5.724	6.370	7.032

ICF
Upper Oil Price (Control)
New England

Census Regions

	1985	1986	1987	1988	1989
Tot. Consumption	0.403	0.402	0.410	(N/A)	(N/A)
Industrial Price	5.911	4.399	4.661	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	0.438	0.404	0.415	0.508	0.541
Industrial Price	4.916	6.674	7.970	8.180	8.407

ICF
Upper Oil Price (Control)
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	4.591	4.605	4.673	(N/A)	(N/A)
Industrial Price	3.248	2.523	2.767	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	4.617	4.348	5.040	5.060	4.793
Industrial Price	3.072	4.544	5.857	6.061	6.320

ICF
Upper Oil Price (Control)
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	1.909	1.783	1.687	(N/A)	(N/A)
Industrial Price	5.303	3.918	3.877	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.767	2.316	2.554	2.677	2.845
Industrial Price	4.466	6.201	7.415	7.526	7.745

ICF
Upper Oil Price (Control)
Mid Atlantic (NY-NJ)

	1985	1986	1987	1988	1989
Tot. Consumption	1.858	1.666	1.743	(N/A)	(N/A)
Industrial Price	5.588	3.988	4.244	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.635	1.712	1.608	1.852	1.860
Industrial Price	4.543	6.543	7.791	7.662	8.006

ICF
Lower Oil Price
New England

	1985	1986	1987	1988	1989
Tot. Consumption	0.403	0.402	0.393	(N/A)	(N/A)
Industrial Price	5.911	4.399	4.114	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	0.417	0.415	0.429	0.412	0.415
Industrial Price	4.084	5.042	6.343	7.231	7.887

ICF
Lower Oil Price
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	4.591	4.605	3.444	(N/A)	(N/A)
Industrial Price	3.248	2.523	2.507	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	3.697	3.005	3.005	3.001	2.883
Industrial Price	2.488	3.260	4.299	4.966	5.561

ICF
Lower Oil Price
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	1.909	1.783	1.655	(N/A)	(N/A)
Industrial Price	5.303	3.918	3.780	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.751	2.113	1.888	2.040	2.214
Industrial Price	3.837	4.763	6.040	6.653	7.252

ICF
Lower Oil Price
Mid Atlantic (NY-NJ)

	1985	1986	1987	1988	1989
Tot. Consumption	1.858	1.666	1.655	(N/A)	(N/A)
Industrial Price	5.588	3.988	4.097	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.494	1.592	1.454	1.493	1.463
Industrial Price	3.965	4.996	6.202	6.835	7.619

ICF
 Low Resources
 New England

	1985	1986	1987	1988	1989
Tot. Consumption	0.403	0.402	0.410	(N/A)	(N/A)
Industrial Price	5.991	4.399	4.605	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	0.428	0.403	0.414	0.456	0.451
Industrial Price	5.037	6.723	8.187	8.419	9.355

ICF
 Low Resources
 West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	4.591	4.608	4.676	(N/A)	(N/A)
Industrial Price	3.248	2.547	2.660	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	4.598	3.344	3.134	4.756	4.373
Industrial Price	3.210	4.527	5.863	6.485	7.250

ICF
 Low Resources
 Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	1.908	1.783	1.664	(N/A)	(N/A)
Industrial Price	5.310	3.930	4.141	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.753	2.314	2.522	2.556	2.498
Industrial Price	4.619	6.233	7.668	8.074	8.764

ICF
 Low Resources
 Mid Atlantic (NY-NJ)

	1985	1986	1987	1988	1989
Tot. Consumption	1.848	1.666	1.746	(N/A)	(N/A)
Industrial Price	5.588	3.988	4.199	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.605	1.710	1.577	1.609	1.514
Industrial Price	4.651	6.586	7.946	8.431	9.241

ICF
High Demand
New England

	1985	1986	1987	1988	1989
Tot. Consumption	0.403	0.402	0.410	(N/A)	(N/A)
Industrial Price	5.911	4.399	4.661	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	0.461	0.489	0.502	0.602	0.734
Industrial Price	5.159	6.904	8.288	8.604	8.831

ICF
High Demand
West South Central (Southwest)

	1985	1986	1987	1988	1989
Tot. Consumption	4.591	4.605	4.673	(N/A)	(N/A)
Industrial Price	3.248	2.523	2.767	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	4.611	3.742	4.266	5.355	5.430
Industrial Price	3.212	4.558	5.890	6.278	6.559

ICF
High Demand
Pacific (West)

	1985	1986	1987	1988	1989
Tot. Consumption	1.909	1.783	1.687	(N/A)	(N/A)
Industrial Price	5.303	3.918	3.877	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.951	2.513	2.700	2.834	3.002
Industrial Price	4.746	6.390	7.571	7.754	8.032

ICF
High Demand
Mid Atlantic (NY-NJ)

	1985	1986	1987	1988	1989
Tot. Consumption	1.858	1.666	1.743	(N/A)	(N/A)
Industrial Price	5.588	3.988	4.244	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Tot. Consumption	1.609	1.831	1.842	2.050	2.364
Industrial Price	4.641	6.622	7.969	8.264	8.403

MIT North American
Upper Oil Price (Control)
Canada

	1985	1986	1987	1988	1989
Mktd. Production	(N/A)	(N/A)	2.931	(N/A)	(N/A)
Total Exports	(N/A)	(N/A)	1.084	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	2.089	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	3.272	3.611	4.121	4.401	4.549
Total Exports	1.261	1.435	1.831	1.968	1.930
Tot. Consumption	2.150	2.304	2.423	2.600	2.753

MIT North American
Lower Oil Price
Canada

	1985	1986	1987	1988	1989
Mktd. Production	(N/A)	(N/A)	2.726	(N/A)	(N/A)
Total Exports	(N/A)	(N/A)	0.820	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	2.089	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	3.136	3.452	3.719	4.770	4.947
Total Exports	0.923	0.959	1.054	1.892	1.831
Tot. Consumption	2.150	2.304	2.423	2.600	2.753

MIT North American
Low Resources
Canada

	1985	1986	1987	1988	1989
Mktd. Production	(N/A)	(N/A)	3.447	(N/A)	(N/A)
Total Exports	(N/A)	(N/A)	1.600	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	2.089	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	3.483	3.992	4.290	4.433	4.593
Total Exports	1.472	1.816	2.000	2.000	1.974
Tot. Consumption	2.150	2.304	2.423	2.600	2.753

AGAS
Upper Oil Price (Control)
Canada

	1985	1986	1987	1988	1989
Mktd. Production	2.700	(N/A)	(N/A)	3.168	(N/A)
Total Exports	0.920	(N/A)	(N/A)	1.433	(N/A)
Tot. Consumption	1.900	(N/A)	(N/A)	1.848	(N/A)
Citygate Price	2.450	(N/A)	(N/A)	3.230	(N/A)
Tot. Res. Addns.	2.384	(N/A)	(N/A)	2.000	(N/A)
Total Reserves	72.800	(N/A)	(N/A)	67.800	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	3.541	3.854	3.965	3.855	(N/A)
Total Exports	1.811	1.955	1.842	1.578	(N/A)
Tot. Consumption	1.847	1.947	1.924	2.090	(N/A)
Citygate Price	3.523	3.817	5.740	6.380	(N/A)
Tot. Res. Addns.	2.000	2.556	4.075	3.550	(N/A)
Total Reserves	63.467	54.300	53.300	52.033	(N/A)

AGAS
Upper Oil Price (Control)
New England

	1985	1986	1987	1988	1989
Citygate Price	4.050	3.780	3.510	3.240	3.380
	1990	1995	2000	2005	2010
Citygate Price	3.530	3.970	4.500	5.140	(N/A)

AGAS
Upper Oil Price (Control)
West South Central (Southwest)

	1985	1986	1987	1988	1989
Citygate Price	3.830	3.260	2.690	2.120	2.160
	1990	1995	2000	2005	2010
Citygate Price	2.210	2.950	3.980	4.620	(N/A)

AGAS
Upper Oil Price (Control)
Pacific (West)

	1985	1986	1987	1988	1989
Citygate Price	3.110	3.070	3.040	3.000	3.140
	1990	1995	2000	2005	2010
Citygate Price	3.290	3.800	3.860	4.400	(N/A)

AGAS
Lower Oil Price
Canada

	1985	1986	1987	1988	1989
Mktd. Production	2.700	(N/A)	(N/A)	2.629	(N/A)
Total Exports	0.920	(N/A)	(N/A)	0.940	(N/A)
Tot. Consumption	1.900	(N/A)	(N/A)	1.810	(N/A)
Citygate Price	2.450	(N/A)	(N/A)	2.110	(N/A)
Tot. Res. Addns.	2.384	(N/A)	(N/A)	2.000	(N/A)
Total Reserves	72.800	(N/A)	(N/A)	69.700	(N/A)

	1990	1995	2000	2005	2010
Mktd. Production	2.890	3.257	3.114	3.124	(N/A)
Total Exports	1.177	1.563	1.140	1.289	(N/A)
Tot. Consumption	1.835	1.773	1.768	1.628	(N/A)
Citygate Price	2.223	2.947	3.620	4.470	(N/A)
Tot. Res. Addns.	2.000	2.042	3.025	3.588	(N/A)
Total Reserves	66.700	58.500	55.300	55.570	(N/A)

AGAS
Lower Oil Price
New England

	1985	1986	1987	1988	1989
Citygate Price	4.050	3.740	3.430	3.120	3.180

	1990	1995	2000	2005	2010
Citygate Price	3.240	3.650	4.310	4.660	(N/A)

AGAS
Lower Oil Price
West South Central (Southwest)

	1985	1986	1987	1988	1989
Citygate Price	3.830	3.090	2.340	1.600	1.660

	1990	1995	2000	2005	2010
Citygate Price	1.720	2.480	2.490	3.140	(N/A)

AGAS
Lower Oil Price
Pacific (West)

	1985	1986	1987	1988	1989
Citygate Price	3.110	2.840	2.580	2.310	2.400

	1990	1995	2000	2005	2010
Citygate Price	2.490	3.020	3.070	3.750	(N/A)

AGAS
 Low Resources
 Canada

	1985	1986	1987	1988	1989
Mktd. Production	2.700	(N/A)	(N/A)	3.185	(N/A)
Total Exports	0.920	(N/A)	(N/A)	1.496	(N/A)
Tot. Consumption	1.900	(N/A)	(N/A)	1.810	(N/A)
Citygate Price	2.450	(N/A)	(N/A)	3.230	(N/A)
Tot. Res. Addns.	2.384	(N/A)	(N/A)	2.000	(N/A)
Total Reserves	72.800	(N/A)	(N/A)	67.700	(N/A)
	1990	1995	2000	2005	2010
Mktd. Production	3.546	3.830	4.102	4.098	(N/A)
Total Exports	1.832	2.000	2.000	1.858	(N/A)
Tot. Consumption	1.835	1.893	1.900	1.911	(N/A)
Citygate Price	3.523	4.490	4.730	6.417	(N/A)
Tot. Res. Addns.	2.000	2.689	4.480	4.138	(N/A)
Total Reserves	63.233	54.467	54.200	53.667	(N/A)

AGAS
 Low Resources
 New England

	1985	1986	1987	1988	1989
Citygate Price	4.050	4.110	4.180	4.240	4.380
	1990	1995	2000	2005	2010
Citygate Price	4.530	5.140	5.400	6.040	(N/A)

AGAS
 Low Resources
 West South Central (Southwest)

	1985	1986	1987	1988	1989
Citygate Price	3.830	3.360	2.890	2.420	2.660
	1990	1995	2000	2005	2010
Citygate Price	2.910	3.750	4.280	4.920	(N/A)

AGAS
 Low Resources
 Pacific (West)

	1985	1986	1987	1988	1989
Citygate Price	3.110	3.070	3.040	3.000	3.250
	1990	1995	2000	2005	2010
Citygate Price	3.510	4.490	5.460	6.100	(N/A)

AGAS
High Demand
Canada

	1985	1986	1987	1988	1989
Mktd. Production	2.700	(N/A)	(N/A)	3.168	(N/A)
Total Exports	0.920	(N/A)	(N/A)	1.440	(N/A)
Tot. Consumption	1.900	(N/A)	(N/A)	1.848	(N/A)
Citygate Price	2.450	4.000	(N/A)	2.220	(N/A)
Tot. Res. Addns.	2.384	(N/A)	(N/A)	2.000	(N/A)
Total Reserves	72.800	(N/A)	(N/A)	67.700	(N/A)

	1990	1995	2000	2005	2010
Mktd. Production	3.541	3.856	4.072	3.973	(N/A)
Total Exports	1.813	1.980	1.931	1.767	(N/A)
Tot. Consumption	1.847	1.938	1.926	1.967	(N/A)
Citygate Price	3.187	3.817	4.730	6.043	(N/A)
Tot. Res. Addns.	2.000	2.610	4.506	3.749	(N/A)
Total Reserves	63.433	54.433	54.100	52.700	(N/A)

AGAS
High Demand
New England

	1985	1986	1987	1988	1989
Citygate Price	4.050	3.780	3.510	3.240	3.380

	1990	1995	2000	2005	2010
Citygate Price	3.530	4.070	4.800	5.340	(N/A)

AGAS
High Demand
West South Central (Southwest)

	1985	1986	1987	1988	1989
Citygate Price	3.830	3.260	2.690	2.120	2.160

	1990	1995	2000	2005	2010
Citygate Price	2.210	2.950	3.980	4.620	(N/A)

AGAS
High Demand
Pacific (West)

	1985	1986	1987	1988	1989
Citygate Price	3.110	3.070	3.040	3.000	3.140

	1990	1995	2000	2005	2010
Citygate Price	3.290	3.800	3.860	4.400	(N/A)

NEB/E&MR
Upper Oil Price (Control)
Canada

	1985	1986	1987	1988	1989
Mktd. Production	2.900	2.710	3.740	3.810	3.920
Total Exports	0.930	0.750	1.760	1.760	1.790
Tot. Consumption	1.970	1.950	1.990	2.040	2.120
Residential Cons.	0.481	0.460	0.475	0.482	0.488
Commercial Cons.	0.392	0.380	0.395	0.396	0.399
Industrial Cons.	0.823	0.804	0.826	0.861	0.923
Transport Cons.	0.123	0.122	0.098	0.101	0.107
El. Util'y Cons.	0.051	0.037	0.041	0.045	0.041
Wellhead Price	1.966	1.824	1.394	1.685	1.784
Citygate Price	3.125	2.855	2.537	2.865	3.023
Resident'l Price	4.840	4.493	4.222	4.572	4.730
Commercial Price	4.030	3.727	3.434	3.774	3.932
Industrial Price	3.438	3.163	2.854	3.186	3.344
Tot. Res. Addns.	1.760	1.390	1.610	1.740	1.940
Onshore Addns.	1.760	1.390	1.610	1.740	1.940
Total Reserves	87.690	86.550	85.230	83.100	81.040
Resid Oil Price	3.974	2.049	2.828	3.157	3.314
	1990	1995	2000	2005	2010
Mktd. Production	4.020	4.460	4.930	4.540	3.530
Total Exports	1.850	2.100	2.470	1.920	0.740
Tot. Consumption	2.160	2.360	2.460	2.620	2.800
Residential Cons.	0.490	0.502	0.501	0.503	0.504
Commercial Cons.	0.400	0.441	0.474	0.524	0.580
Industrial Cons.	0.950	1.048	1.099	1.178	1.265
Transport Cons.	0.110	0.126	0.138	0.154	0.166
El. Util'y Cons.	0.047	0.060	0.063	0.063	0.064
Wellhead Price	1.964	2.931	4.256	4.892	5.718
Citygate Price	3.195	4.132	5.445	6.097	6.923
Resident'l Price	4.902	5.839	7.152	7.803	8.629
Commercial Price	4.104	5.041	6.354	7.005	7.831
Industrial Price	3.516	4.453	5.766	6.418	7.244
Tot. Res. Addns.	2.450	4.450	3.390	2.190	1.410
Onshore Addns.	2.450	4.450	3.390	2.190	1.410
Total Reserves	79.060	74.830	72.080	62.700	51.450
Resid Oil Price	3.484	4.413	5.713	6.359	7.177

NEB/E&MR
 Lower Oil Price
 Canada

	1985	1986	1987	1988	1989
Mktd. Production	2.900	2.710	3.730	3.700	3.700
Total Exports	0.930	0.750	1.680	1.530	1.400
Tot. Consumption	1.970	1.950	2.050	2.170	2.300
Residential Cons.	0.481	0.460	0.487	0.507	0.525
Commercial Cons.	0.392	0.380	0.409	0.422	0.433
Industrial Cons.	0.823	0.804	0.859	0.930	1.013
Transport Cons.	0.123	0.122	0.101	0.109	0.117
El. Util'y Cons.	0.051	0.035	0.037	0.038	0.036
Wellhead Price	1.966	1.824	0.430	0.556	0.665
Citygate Price	3.125	2.855	1.565	1.719	1.890
Resident'l Price	4.840	4.493	3.251	3.426	3.597
Commercial Price	4.030	3.727	2.463	2.628	2.799
Industrial Price	3.438	3.163	1.882	2.040	2.211
Tot. Res. Addns.	1.760	1.390	0.990	1.020	1.090
Onshore Addns.	1.760	1.390	0.990	1.020	1.090
Total Reserves	87.690	86.550	85.230	82.490	79.810
Resid Oil Price	3.974	2.049	1.865	2.021	2.191
	1990	1995	2000	2005	2010
Mktd. Production	3.690	3.760	2.950	2.380	1.720
Total Exports	1.310	1.070	0.080	-0.720	-1.640
Tot. Consumption	2.380	2.690	2.870	3.100	3.350
Residential Cons.	0.538	0.575	0.597	0.615	0.634
Commercial Cons.	0.442	0.507	0.553	0.611	0.675
Industrial Cons.	1.055	1.206	1.292	1.402	1.523
Transport Cons.	0.122	0.143	0.156	0.172	0.188
El. Util'y Cons.	0.040	0.050	0.055	0.066	0.081
Wellhead Price	0.693	1.189	1.891	2.230	2.746
Citygate Price	1.918	2.415	3.116	3.455	3.971
Resident'l Price	3.625	4.122	4.823	5.162	5.678
Commercial Price	2.827	3.324	4.025	4.364	4.880
Industrial Price	2.239	2.736	3.437	3.776	4.292
Tot. Res. Addns.	1.230	1.740	1.700	1.440	1.310
Onshore Addns.	1.230	1.740	1.700	1.440	1.310
Total Reserves	77.200	65.540	57.460	51.940	48.540
Resid Oil Price	2.219	2.711	3.406	3.741	4.253

Rowse
Upper Oil Price (Control)
Canada

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	1.595	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	1.823	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	3.567	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	1.601	1.728	1.607	1.258	1.159
Tot. Consumption	1.976	2.109	2.052	2.452	2.644
Citygate Price	4.097	5.411	8.006	7.379	8.998

Rowse
Lower Oil Price
Canada

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	1.071	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	1.785	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	3.077	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	1.398	1.691	1.187	1.490	1.206
Tot. Consumption	1.910	1.981	2.062	2.124	2.338
Citygate Price	3.448	4.517	5.545	6.310	7.344

Rowse
Low Resources
Canada

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	1.600	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	1.816	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	3.658	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	1.598	1.844	1.746	1.581	1.394
Tot. Consumption	1.957	2.069	2.018	2.315	2.396
Citygate Price	4.218	5.616	8.250	7.994	10.207

Rowse
High Demand
Canada

	1985	1986	1987	1988	1989
Total Exports	(N/A)	(N/A)	1.600	(N/A)	(N/A)
Tot. Consumption	(N/A)	(N/A)	1.817	(N/A)	(N/A)
Citygate Price	(N/A)	(N/A)	3.643	(N/A)	(N/A)
	1990	1995	2000	2005	2010
Total Exports	1.597	1.749	1.743	1.560	1.368
Tot. Consumption	1.960	2.077	2.023	2.321	2.410
Citygate Price	4.198	5.576	8.216	7.975	10.139