November 2010 Monthly Energy Review



Monthly Energy Review

The *Monthly Energy Review (MER)* is the U.S. Energy Information Administration's (EIA) primary report of recent and historical energy statistics. Included are statistics on total energy production, consumption, trade, and energy prices; overviews of petroleum, natural gas, coal, electricity, nuclear energy, renewable energy, and international petroleum; carbon dioxide emissions; and data unit conversions.

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"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze, and disseminate data and information...."

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Annual Data From 1949: The emphasis of the MER is on recent monthly and annual data trends. Analysts may wish to use the data in this report in conjunction with EIA's *Annual Energy Review (AER)* that offers annual data beginning in 1949 for many of the data series found in the MER. The AER is available at http://www.eia.gov/aer.

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- Full report and sections: PDF files
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- Table data (unrounded): Excel and CSV files
- Graphs: PDF files

Note: PDF files display selected annual and monthly data; Excel and CSV files display all available annual and monthly data, often at a greater level of precision than the PDF files.

Timing of Release: The MER is posted on the EIA website by the last work day of the month at http://www.eia.gov/mer/.

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Monthly Energy Review November 2010

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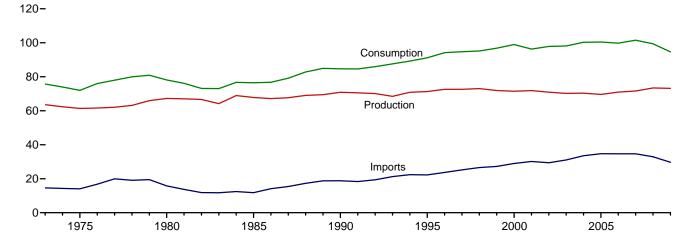
Energy Overview



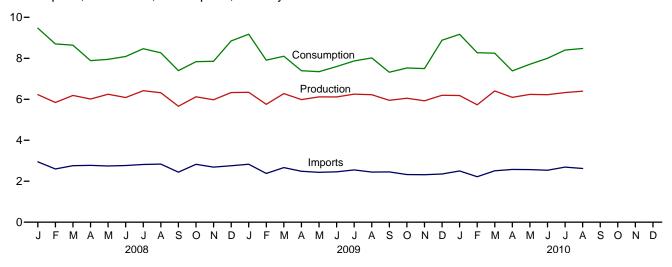
The continental United States at night from orbit. Source: National Oceanic and Atmospheric Administration satellite imagery; mosaic provided by U.S. Geological Survey.

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

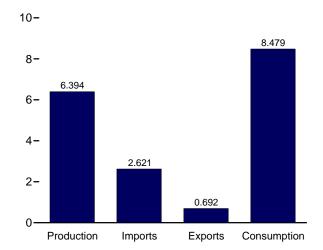
Consumption, Production, and Imports, 1973-2009



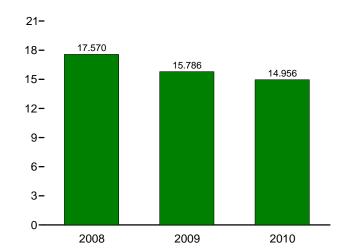
Consumption, Production, and Imports, Monthly



Overview, August 2010



Net Imports, January-August



Web Page: http://www.eia.gov/emeu/mer/overview.html.

Source: Table 1.1.

Table 1.1 Primary Energy Overview

(Quadrillion Btu)

		Produ	uction			Trade		Stock		Consu	mption	
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f
1973 Total	58.241	0.910	4.433	63.585	14.613	2.033	12.580	-0.459	70.314	0.910	4.433	75.706
1975 Total	54.733	1.900	4.723	61.357	14.032	2.323	11.709	-1.065	65.357	1.900	4.723	72.001
1980 Total	59.008	2.739	5.485	67.232	15.796	3.695	12.101	-1.210	69.828	2.739	5.485	78.124
1985 Total	57.539	4.076	6.185	67.799	11.781	4.196	7.584	1.110	66.093	4.076	6.185	76.493
1990 Total	58.560	6.104	6.206	70.870	18.817	4.752	14.065	284	72.332	6.104	6.206	84.651
1995 Total	57.540	7.075	6.701	71.316	22.260	4.511	17.750	2.106	77.259	7.075	6.703	91.171
1996 Total	58.387	7.087	7.165	72.639	23.702	4.633	19.069	2.468	79.785	7.087	7.166	94.175
1997 Total	58.857	6.597	7.177	72.631	25.215	4.514	20.701	1.429	80.873	6.597	7.175	94.761
1998 Total	59.314	7.068	6.655	73.037	26.581	4.299	22.281	140	81.369	7.068	6.654	95.179
1999 Total	57.614	7.610	6.678	71.903	27.252	3.715	23.537	1.373	82.427	7.610	6.677	96.813
2000 Total	57.366	7.862	6.257	71.485	28.973	4.006	24.967	2.516	84.731	7.862	6.260	98.968
2001 Total	58.541	8.029	5.312	71.883	30.157	3.770	26.386	-1.952	82.902	8.029	5.311	96.316
2002 Total	56.894	8.145	5.892	70.931	29.407	3.668	25.739	1.182	83.747	8.145	5.888	97.852
2003 Total	56.099	7.959	6.139	70.197	31.061	4.054	27.007	.931	84.014	7.959	6.141	98.135
2004 Total	55.895	8.222	6.235	70.352	33.543	4.433	29.110	.850	85.805	8.222	6.247	100.313
2005 Total	55.038	8.161	6.393	69.592	34.710	4.561	30.149	.701	85.790	8.161	6.406	100.442
2006 Total	55.968	8.215	6.774	70.957	34.673	4.868	29.805	972	84.687	8.215	6.824	99.790
2007 Total	56.447	8.455	6.706	71.608	34.685	5.448	29.238	.686	86.251	8.455	6.719	101.532
2008 January	4.872	.739	.615	6.226	R 2.947	.533	R 2.414	R .831	8.109	.739	.611	9.470
February	4.604	.681	.557	5.842	R 2.600	.525	R 2.075	R .785	7.453	.681	.557	8.701
March	4.891	.676	.621	6.188	R 2.759	.604	R 2.156	R .295	7.341	.676	.613	8.638
April	4.788	.599	.622	6.009	R 2.774	.586	R 2.188	R310	6.657	.599	.622	7.887
May	4.883	.678	.684	6.244	R 2.742	.618	R 2.124	R420	6.583	.678	.680	7.948
June	4.661	.735	.690	6.087	R 2.766	.619	R 2.147	R143	6.657	.735	.689	8.090
July	4.981	.777	.661	6.419	R 2.816	.603	R 2.212	R163	7.015	.777	.661	8.468
August	4.948	.759	.614	6.321	R 2.836	.581	2.254	308	6.881	.759	.613	8.267
September	4.413	.701	.547	5.661	R 2.443	.514	R 1.929	R191	6.140	.701	.548	7.399
October	4.897	.657	.568	6.122	R 2.825	.586	R 2.238	R526	6.601	.657	.570	7.834
November	4.745	.663	.568	5.976	R 2.689	.589	R 2.100	R223	6.620	.663	.566	7.853
December Total	4.931 57.613	.762 8.427	.632 7.381	6.326 73.421	R 2.756	.615 6.973	R 2.142 R 25.979	R .378 R .003	7.441 83.497	.762 8.427	.636 7.366	8.845 99.403
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2009 January	R 4.915	.775	.651	R 6.341	2.828	.592	2.236	R .598	7.747	.775	.646	9.174
February	R 4.523	.671	.559	R 5.753	2.378	.499	1.879	R .277	R 6.679	.671	.550	7.909
March	^R 4.935 ^R 4.701	.703	.640	^R 6.278 ^R 5.984	2.664	.557	2.106	R285 R571	6.754	.703	.638	8.099
April	R 4.729	.621	.662 .706	R 6.118	2.487	.506	1.981	R674	6.101 5.943	.621	.666 .710	7.394
May	R 4.689	.683 .729	.697	R 6.114	2.436	.534 .564	1.902	R410		.683	.699	7.346
June July	R 4.831	.763	.655	R 6.248	2.457 2.552	.617	1.894 1.935	R312	6.160 6.439	.729 .763	.655	7.598 7.870
August	R 4.837	.755	.630	R 6.221	2.332	.594	1.852	R056	R 6.617	.755	.630	8.017
September	R 4.683	.686	.582	R 5.950	2.454	.598	1.856	R486	6.043	.686	.580	7.320
October	R 4.803	.606	.640	R 6.049	2.326	.646	1.681	R203	6.269	.606	.640	7.527
November	R 4.652	.617	.656	R 5.925	2.316	.597	1.720	R144	6.223	.617	.651	7.500
December	R 4.747	.739	.707	R 6.193	2.352	.627	1.725	R .964	7.432	.739	.701	8.883
Total	R 57.044	8.349	7.782	R 73.175	29.697	6.931	22.767	R -1.304	R 78.406	8.349	7.766	R 94.638
2010 January	4.749	.758	.674	6.181	2.501	.589	1.912	R 1.077	^R 7.730	.758	.668	^R 9.170
February	4.436	.682	.610	5.729	2.220	R .555	1.666	R .878	R 6.972	.682	.606	R 8.272
March	5.047	.676	.682	6.405	2.510	R .648	1.862	R019	^R 6.885	.676	.677	R 8.248
April	4.831	.602	.659	6.092	R 2.573	.681	^R 1.892	R598	^R 6.116	.602	.658	R 7.385
May	4.820	.697	.723	6.240	R 2.568	.702	1.867	R397	R 6.287	.697	.721	R 7.709
June	4.752	.714	.756	6.222	R 2.535	R .681	^R 1.854	R ₋ .076	^R 6.518	.714	.759	R 8.000
July	R 4.872	.752	.704	R 6.328	R 2.688	R .713	^R 1.975	R .100	^R 6.934	.752	.707	R 8.402
August	4.979	.748	.667	6.394	2.621	.692	1.929	.155	7.056	.748	.668	8.479
8-Month Total	38.486	5.629	5.476	49.590	20.216	5.261	14.956	1.120	54.499	5.629	5.465	65.666
2009 8-Month Total	38.159	5.700	5.198	49.057	20.249	4.463	15.786	-1.435	52.439	5.700	5.194	63.408
2008 8-Month Total	38.627	5.645	5.065	49.336	22.239	4.669	17.570	.566	56.696	5.645	5.046	67.471

a Coal, natural gas (dry), crude oil, and natural gas plant liquids.

R=Revised.

Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/overview.html for all available data beginning in 1973.

Sources: • **Production:** Table 1.2. • **Trade:** Tables 1.4a and 1.4b. • **Stock**

Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports. • Consumption: Table 1.3.

^b Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation.

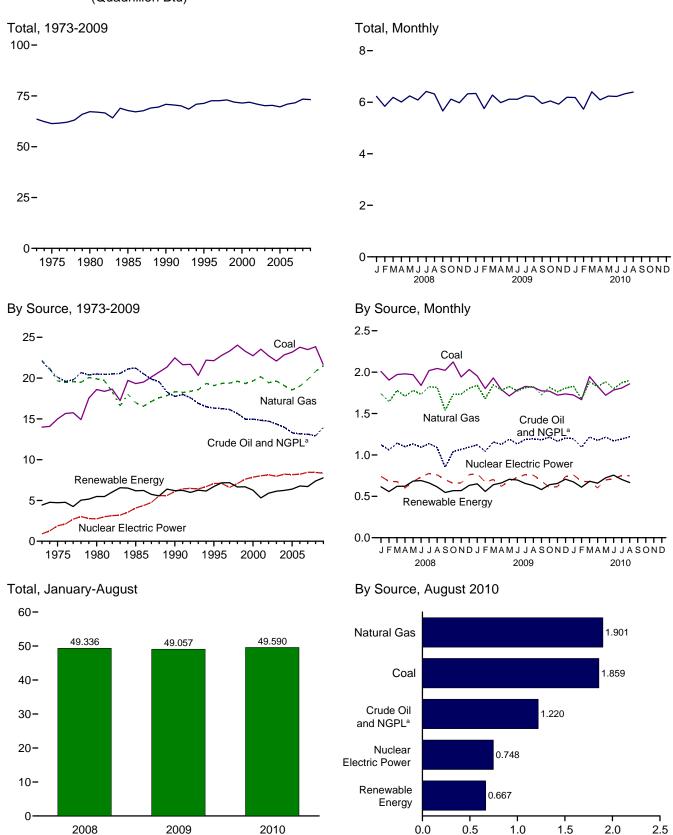
^c Net imports equal imports minus exports.

d Includes petroleum stock change and adjustments; natural gas net storage withdrawals and balancing item; coal stock change, losses, and unaccounted for; fuel ethanol stock change; and biodiesel stock change and balancing item.

^e Coal, coal coke net imports, natural gas, and petroleum.

f Also includes electricity net imports.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids.

Web Page: http://www.eia.gov/emeu/mer/overview.html

Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

(Quadrillion Btu)

		Fo	ssil Fuels				Renewable Energy ^a						
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPL ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1973 Total	13.992	22.187	19.493	2.569	58.241	0.910	2.861	0.043	NA	NA	1.529	4.433	63.585
1975 Total	14.989	19.640	17.729	2.374	54.733	1.900	3.155	.070	NA	NA	1.499	4.723	61.357
1980 Total	18.598	19.908	18.249	2.254	59.008	2.739	2.900	.110	NA	NA	2.475	5.485	67.232
1985 Total	19.325	16.980	18.992	2.241	57.539	4.076	2.970	.198	(s)	(s)	3.016	6.185	67.799
1990 Total	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.336	.Ò60	.Ò29	2.735	6.206	70.870
1995 Total	22.130	19.082	13.887	2.442	57.540	7.075	3.205	.294	.070	.033	3.099	6.701	71.316
1996 Total	22.790	19.344	13.723	2.530	58.387	7.087	3.590	.316	.071	.033	3.155	7.165	72.639
1997 Total	23.310	19.394	13.658	2.495	58.857	6.597	3.640	.325	.070	.034	3.108	7.177	72.631
1998 Total	24.045	19.613	13.235	2.420	59.314	7.068	3.297	.328	.070	.031	2.929	6.655	73.037
1999 Total	23.295	19.341	12.451	2.528	57.614	7.610	3.268	.331	.069	.046	2.965	6.678	71.903
2000 Total	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.317	.066	.057	3.006	6.257	71.485
2001 Total	23.547	20.166	12.282	2.547	58.541	8.029	2.242	.311	.065	.070	2.624	5.312	71.883
2002 Total	22.732	19.439	12.163	2.559	56.894	8.145	2.689	.328	.064	.105	2.705	5.892	70.931
2003 Total 2004 Total	22.094 22.852	19.633 19.074	12.026 11.503	2.346 2.466	56.099 55.895	7.959 8.222	2.825 2.690	.331 .341	.064 .064	.115 .142	2.805 2.998	6.139 6.235	70.197 70.352
2005 Total	23.185	18.556	10.963	2.334	55.038	8.161	2.703	.343	.066	.142	3.104	6.393	69.592
2006 Total	23.790	19.022	10.801	2.356	55.968	8.215	2.869	.343	.072	.264	3.226	6.774	70.957
2007 Total	23.493	19.825	10.721	2.409	56.447	8.455	2.446	.349	.081	.341	3.489	6.706	71.608
2008 January	2.008	1.741	.917	.206	4.872	.739	.205	.029	.008	.042	.331	.615	6.226
February	1.904	1.640	.862	.198	4.604	.681	.185	.027	.007	.038	.300	.557	5.842
March	1.970	1.779	.926	.215	4.891	.676	.214	.030	.008	.047	.321	.621	6.188
April	1.979	1.709	.890	.210	4.788	.599	.219	.030	.008	.051	.314	.622	6.009
May	1.969	1.780	.917	.217	4.883	.678	.268	.031	.008	.053	.324	.684	6.244
June	1.839	1.731	.887	.204	4.661	.735	.288	.030	.008	.051	.313	.690	6.087
July	2.019	1.825	.923	.214	4.981	.777	.252	.031	.009	.039	.330	.661	6.419
August September	2.044 2.022	1.815 1.539	.880 .684	.208	4.948	.759 .701	.209	.031	.009	.032	.334 .319	.614	6.321
October	2.022	1.733	.840	.168 .201	4.413 4.897	.657	.159 .152	.030 .031	.008 800.	.031 .047	.330	.547 .568	5.661 6.122
November	1.942	1.735	.874	.193	4.745	.663	.154	.030	.008	.047	.327	.568	5.976
December	2.032	1.806	.909	.185	4.931	.762	.206	.031	.008	.065	.323	.632	6.326
Total	23.851	20.834	10.509	2.419	57.613	8.427	2.511	.360	.097	.546	3.867	7.381	73.421
2009 January	R 1.953	E 1.840	.927	.196	^R 4.915	.775	.235	.032	.009	.059	.316	.651	^R 6.341
February	R 1.802	E 1.678	.854	.189	R 4.523	.671	.176	.029	.008	.056	.289	.559	^R 5.753
March	R 1.930	^E 1.848	.940	.216	^R 4.935	.703	.214	.033	.009	.068	.316	.640	^R 6.278
April	R 1.791	E 1.784	.918	.209	R 4.701	.621	.250	.030	.009	.072	.301	.662	R 5.984
May	R 1.713	E 1.825	.967	.224	R 4.729	.683	.290	.031	.010	.060	.316	.706	R 6.118
June	^R 1.784 ^R 1.828	E 1.772 E 1.813	.919	.213	^R 4.689 ^R 4.831	.729	.287	.030	.009	.053	.317	.697	^R 6.114 ^R 6.248
July	R 1.817	E 1.826	.971 .974	.218 .220	R 4.837	.763 .755	.226 .189	.031 .031	.010 .010	.046 .052	.342 .348	.655 .630	R 6.221
August September	R 1.774	E 1.726	.965	.220	R 4.683	.686	.170	.031	.009	.032	.329	.582	R 5.950
October	R 1.771	E 1.817	.989	.226	R 4.803	.606	.194	.031	.009	.062	.343	.640	R 6.049
November	R 1.722	E 1.764	.944	.221	R 4.652	.617	.206	.032	.009	.063	.346	.656	R 5.925
December	R 1.737	E 1.806	.980	.224	R 4.747	.739	.244	.033	.009	.062	.359	.707	R 6.193
Total	R 21.622	E 21.500	11.348	2.574	^R 57.044	8.349	2.682	.373	.109	.697	3.921	7.782	R 73.175
2010 January	1.724	E 1.829	E .977	.219	4.749	.758	.217	.033	.009	.063	.353	.674	6.181
February	1.667	E 1.677	E .887	.205	4.436	.682	.201	.029	.008	.050	.322	.610	5.729
March	1.946	E 1.883	E .989	.229	5.047	.676	.203	.031	.009	.081	.359	.682	6.405
April	1.830	E 1.825	E .956	.219	4.831	.602	.183	.030	.009	.094	.343	.659	6.092
May	1.720	E 1.885	E .983	.231	4.820	.697	.244	.032	.010	.083	.354	.723	6.240
June	1.785	E 1.798	E .951	.218	4.752 R 4.072	.714	.289	.031	.010	.077	.350	.756	6.222
July	1.808	E 1.872 E 1.901	E .972 E .990	.221	R 4.872	.752	.237	.032	.010	.064	.362	.704	R 6.328
August 8-Month Total	1.859 14.340	E 14.670	E 7.706	.230 1.771	4.979 38.486	.748 5.629	.194 1.768	.033 .251	.010 .074	.065 .577	.364 2.806	.667 5.476	6.394 49.590
2009 8-Month Total 2008 8-Month Total	14.618 15.733	E 14.386 14.020	7.470 7.202	1.685 1.672	38.159 38.627	5.700 5.645	1.868 1.839	.247 .239	.073 .065	.467 .354	2.544 2.568	5.198 5.065	49.057 49.336

^a Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation.

^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also

includes a small amount of refuse recovery. See Table 6.1.

^c Includes lease condensate.

d Natural gas plant liquids.
Conventional hydroelectric power.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal

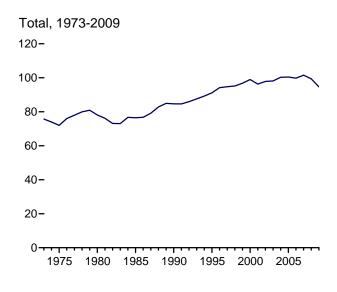
sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

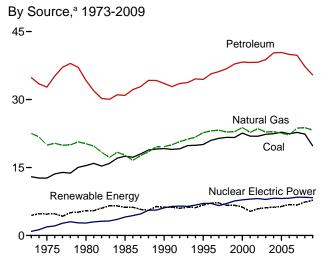
Web Page: See http://www.eia.gov/emeu/mer/overview.html for all available

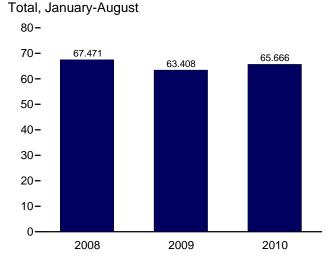
A4. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1 and A2.
• Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate).

[•] Renewable Energy: Table 10.1.

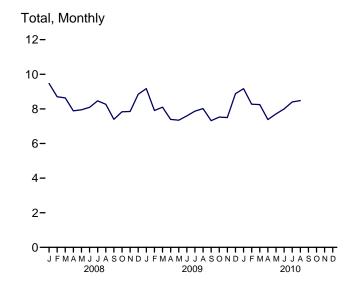
Figure 1.3 Primary Energy Consumption (Quadrillion Btu)



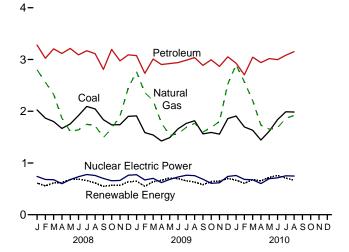




^a Small quantities of net imports of coal coke and electricity are not shown. Web Page: http://www.eia.gov/emeu/mer/overview.html. Source: Table 1.3.



By Source,^a Monthly



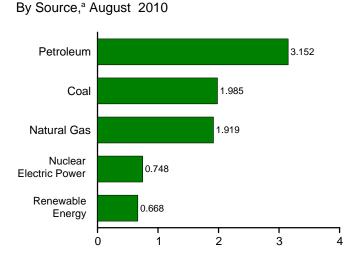


Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels					Renewable	Energy ^a			
	Coal	Natural Gas ^b	Petro- leum ^c	Totald	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total ^f
1973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.043	NA	NA	1.529	4.433	75.706
1975 Total	12.663	19.948	32.732	65.357	1.900	3.155	.070	NA	NA	1.499	4.723	72.001
1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.110	NA	NA	2.475	5.485	78.124
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.198	(s)	(s)	3.016	6.185	76.493
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.336	.060	.029	2.735	6.206	84.651
1995 Total	20.089	22.671	34.438	77.259	7.075	3.205	.294	.070	.033	3.101	6.703	91.171
1996 Total	21.002	23.085	35.675	79.785	7.087	3.590	.316	.071	.033	3.157	7.166	94.175
1997 Total	21.445	23.223	36.159	80.873	6.597	3.640	.325	.070	.034	3.105	7.175	94.761
1998 Total	21.656	22.830	36.816	81.369	7.068	3.297	.328	.070	.031	2.928	6.654	95.179
1999 Total	21.623	22.909	37.838	82.427	7.610	3.268	.331	.069	.046	2.963	6.677	96.813
2000 Total	22.580	23.824	38.262	84.731	7.862	2.811	.317	.066	.057	3.008	6.260	98.968
2001 Total	21.914	22.773	38.186	82.902	8.029	2.242	.311	.065	.070	2.622	5.311	96.316
2002 Total	21.904	23.558	38.224	83.747	8.145	2.689	.328	.064	.105	2.701	5.888	97.852
2003 Total	22.321	22.831	38.811	84.014	7.959	2.825	.331	.064	.115	2.807	6.141	98.135
2004 Total	22.466	22.909	40.292	85.805	8.222	2.690	.341	.064	.142	3.010	6.247	100.313
2005 Total	22.797	22.561	40.388	85.790	8.161	2.703	.343	.066	.178	3.117	6.406	100.442
2006 Total	22.447	22.224	39.955	84.687	8.215	2.869	.343	.072	.264	3.277	6.824	99.790
2007 Total	22.749	23.702	39.774	86.251	8.455	2.446	.349	.081	.341	3.503	6.719	101.532
2008 January	2.025	2.801	3.278	8.109	.739	.205	.029	.008	.042	.327	.611	9.470
February	1.867	2.561	3.024	7.453	.681	.185	.027	.007	.038	.300	.557	8.701
March	1.801	2.327	3.206	7.341	.676	.214	.030	.008	.047	.314	.613	8.638
April	1.667	1.865	3.117	6.657	.599	.219	.030	.008	.051	.313	.622	7.887
May	1.754	1.613	3.213	6.583	.678	.268	.031	.008	.053	.320	.680	7.948
June	1.919	1.639	3.090	6.657	.735	.288	.030	.008	.051	.312	.689	8.090
July	2.092	1.748	3.169	7.015	.777	.252	.031	.009	.039	.330	.661	8.468
August	2.045	1.721	3.114	6.881	.759	.209	.031	.009	.032	.332	.613	8.267
September	1.836	1.492	2.809	6.140	.701	.159	.030	.008	.031	.320	.548	7.399
October	1.737	1.669	3.195	6.601	.657	.152	.031	.008	.047	.332	.570	7.834
November	1.741	1.904	2.973	6.620	.663	.154	.030	.008	.049	.325	.566	7.853
December	1.901	2.451	3.091	7.441	.762	.206	.031	.008	.065	.326	.636	8.845
Total	22.385	23.791	37.280	83.497	8.427	2.511	.360	.097	.546	3.852	7.366	99.403
2009 January	1.911	2.763	3.075	7.747	.775	.235	.032	.009	.059	.311	.646	9.174
February	1.588	2.360	2.732	^R 6.679	.671	.176	.029	.008	.056	.281	.550	7.909
March	1.541	2.204	3.010	6.754	.703	.214	.033	.009	.068	.314	.638	8.099
April	1.424	1.775	2.904	6.101	.621	.250	.030	.009	.072	.305	.666	7.394
May	1.489	1.535	2.921	5.943	.683	.290	.031	.010	.060	.320	.710	7.346
June	1.659	1.563	2.939	6.160	.729	.287	.030	.009	.053	.319	.699	7.598
July	1.766	1.689	2.987	6.439	.763	.226	.031	.010	.046	.342	.655	7.870
August	1.816	1.766	3.038	^R 6.617	.755	.189	.031	.010	.052	.348	.630	8.017
September	1.562	1.597	2.886	6.043	.686	.170	.031	.009	.043	.327	.580	7.320
October	1.591	1.688	2.994	6.269	.606	.194	.031	.009	.062	.344	.640	7.527
November	1.557	1.801	2.866	6.223	.617	.206	.032	.009	.063	.341	.651	7.500
December	1.858	R 2.524	3.052	7.432	.739	.244	.033	.009	.062	.353	.701	8.883
Total	19.761	R 23.265	35.403	R 78.406	8.349	2.682	.373	.109	.697	3.905	7.766	R 94.638
2010 January	1.907	R 2.898	2.929	R 7.730	.758	.217	.033	.009	.063	.346	.668	R 9.170
February	1.697	R 2.567	2.704	R 6.972	.682	.201	.029	.008	.050	.317	.606	R 8.272
March	1.633	R 2.205	3.045	R 6.885	.676	.203	.031	.009	.081	.354	.677	R 8.248
April	1.443	R 1.732	2.940	^R 6.116	.602	.183	.030	.009	.094	.343	.658	^R 7.385
May	1.614	^R 1.654	3.017	^R 6.287	.697	.244	.032	.010	.083	.352	.721	R 7.709
June	_ 1.837	R 1.682	2.998	^R 6.518	.714	.289	.031	.010	.077	.353	.759	R 8.000
July	R 1.989	R 1.863	3.082	R 6.934	.752	.237	.032	.010	.064	.365	.707	R 8.402
August	1.985	1.919	3.152	7.056	.748	.194	.033	.010	.065	.365	.668	8.479
8-Month Total	14.105	16.520	23.867	54.499	5.629	1.768	.251	.074	.577	2.794	5.465	65.666
2009 8-Month Total 2008 8-Month Total	13.194 15.171	15.654 16.275	23.606 25.211	52.439 56.696	5.700 5.645	1.868 1.839	.247 .239	.073 .065	.467 .354	2.540 2.549	5.194 5.046	63.408 67.471

^a Most data are estimates. See Tables 10.1-10.2c for notes on series

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

components and estimation.

b Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

c Petroleum products supplied, including natural gas plant liquids and crude oil

burned as fuel. Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

Includes coal coke net imports. See Tables 1.4a and 1.4b.

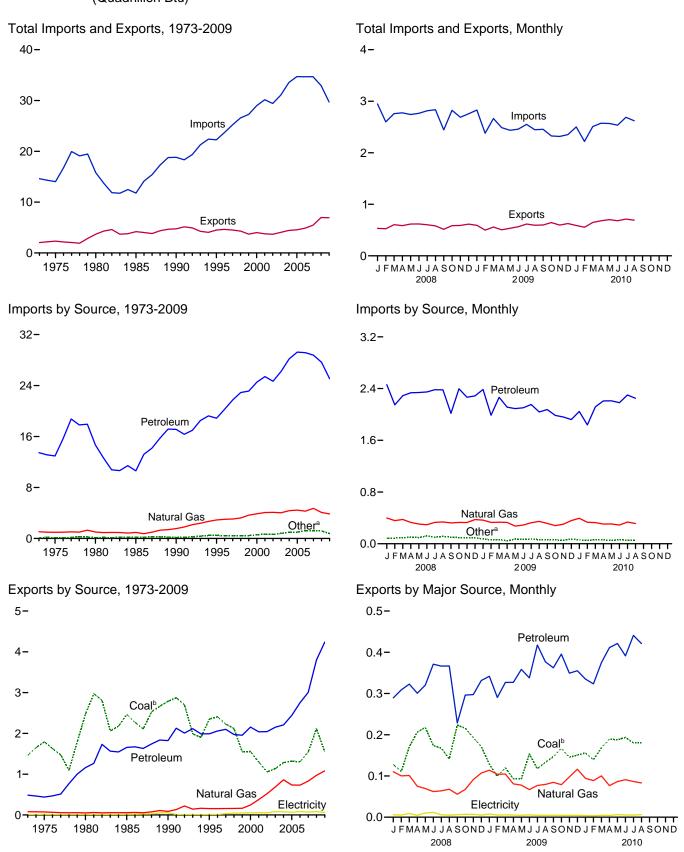
Conventional hydroelectric power.
 Includes coal coke net imports and electricity net imports, which are not separately displayed. See Tables 1.4a and 1.4b.

Notes: • See "Primary Energy Consumption" in Glossary.
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/overview.html for all available data beginning in 1973.

Sources: • Coal: Tables 6.1 and A5. • Natural Gas: Tables 4.1 and A4. • Petroleum: Table 3.6. • Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate). • Renewable Energy: Table 10.1. • Net Imports of Coal Coke and Electricity: Tables 1.4a and 1.4b.

Figure 1.4a Primary Energy Imports and Exports (Quadrillion Btu)

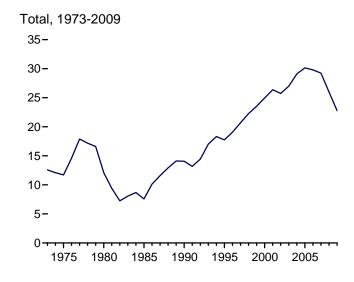


^aCoal, coal coke, biofuels, and electricity. Web Page: http://www.eia.gov/emeu/mer/overview.html. Sources: Tables 1.4a and 1.4b.

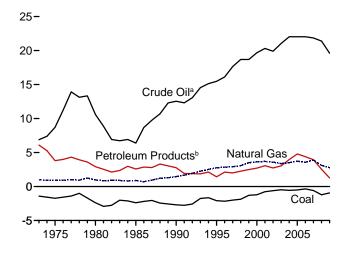
blncludes coal coke.

Figure 1.4b Primary Energy Net Imports

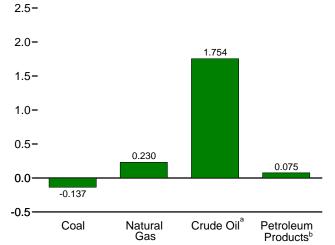
(Quadrillion Btu, Except as noted)



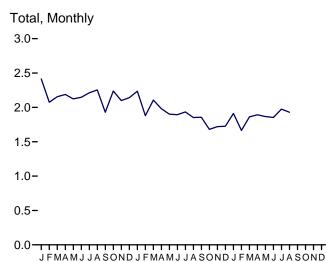




By Major Source, August 2010

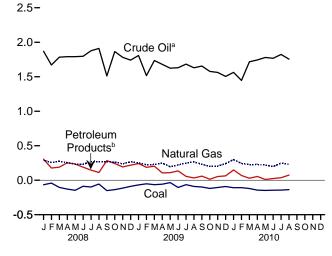


^aCrude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.



By Major Source, Monthly

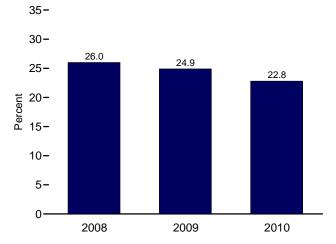
2008



2009

2010

As Share of Consumption, January-August



blending components. Does not include biofuels. Web Page: http://www.eia.gov/emeu/mer/overview.html.

Sources: Tables 1.3, 1.4a, and 1.4b.

^bPetroleum products, unfinished oils, pentanes plus, and gasoline

Table 1.4a Primary Energy Imports by Source

(Quadrillion Btu)

Coal	.045 .016 .014 .019 .095 .063 .078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	Natural Gas 1.060 .978 1.006 .952 1.551 2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.305 R.305 R.294 R.331	Crude Oil ^a 6.887 8.721 11.195 6.814 12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	Petroleum Productsb 6.578 4.227 3.463 3.796 4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542 .544	Total 13.466 12.948 14.658 10.609 17.117 18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338 2.347	NA N	0.057 .038 .085 .157 .063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175 .017 .016 .016 .014 .018 .021	Total 14.613 14.032 15.796 11.781 18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685
1973 Total	0.027 .045 .016 .014 .019 .095 .063 .078 .095 .080 .094 .063 .088 .170 .088 .101 .061	1.060 .978 1.006 .952 1.551 2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.330 R.330 R.330 R.330	6.887 8.721 11.195 6.814 12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	6.578 4.227 3.463 3.796 4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542 .544	13.466 12.948 14.658 10.609 17.117 18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762	NA NA NA NA .001 .001 (s) (s) (s) (s) .002 .002 .002 .002 .003 .013 .013 .068 .055	0.057 .038 .085 .157 .063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175 .017 .016 .017 .016 .014 .018	14.613 14.032 15.796 11.781 18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685
1975 Total	.045 .016 .014 .019 .095 .063 .078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	.978 1.006 .952 1.551 2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.294 R.331	8.721 11.195 6.814 12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	4.227 3.463 3.796 4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542 .544	12.948 14.658 10.609 17.117 18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	NA NA NA .001 .001 .001 (s) (s) (s) .002 .002 .002 .003 .013 .068 .055	.038 .085 .157 .063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	14.032 15.796 11.781 18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685
1975 Total	.045 .016 .014 .019 .095 .063 .078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	.978 1.006 .952 1.551 2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.294 R.331	8.721 11.195 6.814 12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	4.227 3.463 3.796 4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542 .544	12.948 14.658 10.609 17.117 18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	NA NA NA .001 .001 .001 (s) (s) (s) .002 .002 .002 .003 .013 .068 .055	.038 .085 .157 .063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	14.032 15.796 11.781 18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685
1980 Total .030 1985 Total .044 1990 Total .066 1995 Total .23 1996 Total .20 1997 Total .18 1998 Total .21 1999 Total .22 2000 Total .31 2001 Total .49 2002 Total .62 2004 Total .68 2005 Total .76 2006 Total .90 2007 Total .90 2008 January .06 April .07 March .06 April .07 May .06 August .07 September .06 October .07 November .07 November .07 December .04 July .05 April .03 May .05 April .03 June .04 </td <td>.016 .014 .019 .095 .063 .078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061</td> <td>1.006 .952 1.551 2.901 3.002 3.063 3.225 3.664 4.068 4.104 4.042 4.365 4.450 4.291 4.723 8.399 8.358 8.376 8.330 8.305 8.305 8.330</td> <td>11.195 6.814 12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881</td> <td>3.463 3.796 4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849</td> <td>14.658 10.609 17.117 18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338</td> <td>NA NA .001 .001 .001 (s) (s) (s) .002 .002 .002 .013 .013 .068 .055</td> <td>.085 .157 .063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175</td> <td>15.796 11.781 18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685</td>	.016 .014 .019 .095 .063 .078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	1.006 .952 1.551 2.901 3.002 3.063 3.225 3.664 4.068 4.104 4.042 4.365 4.450 4.291 4.723 8.399 8.358 8.376 8.330 8.305 8.305 8.330	11.195 6.814 12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	3.463 3.796 4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849	14.658 10.609 17.117 18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	NA NA .001 .001 .001 (s) (s) (s) .002 .002 .002 .013 .013 .068 .055	.085 .157 .063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	15.796 11.781 18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685
1985 Total .048 1990 Total .06 1995 Total .23 1996 Total .20 1997 Total .18 1998 Total .21 1999 Total .22 2000 Total .31 2001 Total .42 2002 Total .42 2003 Total .62 2005 Total .76 2005 Total .90 2007 Total .90 2008 January .06 April .07 March .06 April .07 May .06 August .07 September .06 October .07 November .07 December .08 Total .85 2009 January .05 February .04 March .05 April .03 May .05 July .05 <	.014 .019 .095 .063 .078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	.952 1.551 2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R .399 R .358 R .376 R .330 R .305 R .330 R .305	6.814 12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	3.796 4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542 .544	10.609 17.117 18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	NA NA .001 .001 (s) (s) (s) .002 .002 .002 .013 .013 .013 .055 .005 .005 .006 .003 .009	.157 .063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	11.781 18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685
1990 Total .067 1995 Total .23 1996 Total .23 1997 Total .18 1998 Total .21 1999 Total .22 2000 Total .31 2001 Total .49 2002 Total .42 2003 Total .62 2004 Total .90 2005 Total .76 2006 Total .90 2007 Total .90 2007 Total .90 2008 January .06 April .07 May .06 April .07 November .07 November .07 November .07 December .08 Total .85 2009 January .05 April .03 May .05 June .04 July .05 June .04 July .05 <td>.019 .095 .063 .07 .080 .094 .063 .088 .170 .088 .101 .061</td> <td>1.551 2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R .399 R .358 R .376 R .330 R .300 R .305 R .330</td> <td>12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881</td> <td>4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542</td> <td>18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338</td> <td>NA001001001001001001001002002002013013068055005005006003009006</td> <td>.063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175</td> <td>18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742</td>	.019 .095 .063 .07 .080 .094 .063 .088 .170 .088 .101 .061	1.551 2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R .399 R .358 R .376 R .330 R .300 R .305 R .330	12.766 15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	4.351 3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	NA001001001001001001001002002002013013068055005005006003009006	.063 .146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	18.817 22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
1995 Total 23 1996 Total 20 1997 Total 18 1998 Total 21 1999 Total 22 2000 Total 31 2001 Total 49 2002 Total 42 2003 Total 62 2004 Total 90 2005 Total 90 2006 Total 90 2007 Total 90 2007 Total 90 2008 January 06 March 06 April 07 May 06 Jule 08 July 06 August 07 November 07 November 08 Total 85 2009 January 05 February 04 March 05 April 03 May 05 June 04 July 05 April	.095 .063 .078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	2.901 3.002 3.063 3.225 3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R 399 R 358 R 376 R 330 R 305 R 294 R 331	15.669 16.341 17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	3.211 3.943 3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	18.881 20.284 21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	.001 .001 (s) (s) (s) (s) .002 .002 .002 .013 .013 .055	.146 .148 .147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	22.260 23.702 25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
1996 Total	.078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	3.063 3.225 3.664 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.330	17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	(s) (s) (s) (s) .002 .002 .013 .013 .068 .055	.147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	25.215 26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
1997 Total 18 1998 Total 21 1999 Total 22 2000 Total 31 2001 Total 49 2002 Total 42 2003 Total 68 2005 Total 76 2006 Total 90 2007 Total 90 2008 January 06 February 06 April 07 May 06 April 07 May 06 August 07 September 06 October 07 November 07 December 08 Total 85 2009 January 05 February 04 March 05 April 03 May 05 June 044 October 04 August 03 June 044 October	.078 .095 .080 .094 .063 .080 .068 .170 .088 .101 .061	3.063 3.225 3.664 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.330	17.876 18.916 18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	3.864 3.992 4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	21.740 22.908 23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	(s) (s) (s) .002 .002 .013 .013 .068 .055	.147 .135 .147 .166 .131 .125 .104 .117 .152 .146 .175	26.581 27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
1998 Total 218 1999 Total 222 2000 Total 31 2001 Total 49 2002 Total 42 2003 Total 62 2004 Total 76 2005 Total 76 2006 Total 90 2007 Total 90 2008 January 06 February 06 April 07 May 06 June 08 July 06 August 07 September 06 October 07 November 07 December 08 Total 85 2009 January 05 February 04 March 05 April 03 May 05 June 044 October 07 October 07 October 07 October	.080 .094 .063 .080 .068 .170 .088 .101 .061 .007 .006 .009 .011	3.664 3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.305 R.305 R.331	18.935 19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	4.198 4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	23.133 24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	(s) (s) (s) .002 .002 .013 .013 .068 .055	.147 .166 .131 .125 .104 .117 .152 .146 .175 .017 .016 .016	27.252 28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
1999 Total	.094 .063 .080 .068 .170 .088 .101 .061 .007 .006 .009 .011	3.869 4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.330 R.330 R.330 R.331	19.783 20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	4.749 5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	24.531 25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	(s) (s) .002 .002 .013 .013 .013 .055	.166 .131 .125 .104 .117 .152 .146 .175 .017 .016 .016	28.973 30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2000 Total 31: 2001 Total 49: 2002 Total 62: 2003 Total 68: 2005 Total 76: 2006 Total 90: 2007 Total 90: 2008 January 06: February 06: March 06: April 07: May 06: July 06: August 07: September 06: October 07: November 07: December 08: Total 85: 2009 January 05: February 04: March 05: April 03: May 05: June 04: July 05: April 03: May 05: June 04: July 05: August 03: September <td>.063 .080 .068 .170 .088 .101 .061 .007 .006 .009 .011</td> <td>4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.300 R.301</td> <td>20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881</td> <td>5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542</td> <td>25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338</td> <td>.002 .002 .002 .013 .013 .068 .055</td> <td>.131 .125 .104 .117 .152 .146 .175 .017 .016 .016 .014</td> <td>30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742</td>	.063 .080 .068 .170 .088 .101 .061 .007 .006 .009 .011	4.068 4.104 4.042 4.365 4.450 4.291 4.723 R.399 R.358 R.376 R.330 R.305 R.300 R.301	20.348 19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	5.050 4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	25.398 24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	.002 .002 .002 .013 .013 .068 .055	.131 .125 .104 .117 .152 .146 .175 .017 .016 .016 .014	30.157 29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2001 Total 49 2002 Total 42 2003 Total 62 2004 Total 68 2005 Total 76 2006 Total 90 2007 Total 90 2008 January 06 February 06 March 06 April 07 May 06 July 06 August 07 September 06 October 07 November 07 December 08 Total 85 2009 January 05 February 04 March 05 April 03 May 05 June 04 July 05 August 03 September 04 October 04 November 03 December 03 December 0	.080 .068 .170 .088 .101 .061 .007 .006 .009 .011 .007	4.104 4.042 4.365 4.450 4.291 4.723 R 399 R 358 R 376 R 330 R 305 R 305 R 331	19.920 21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	4.753 5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	24.673 26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	.002 .002 .002 .013 .013 .068 .055	.125 .104 .117 .152 .146 .175 .017 .016 .016 .014	29.407 31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2002 Total 422 2003 Total 622 2004 Total 683 2005 Total 766 2006 Total 900 2007 Total 903 2008 January 066 February 068 April 077 May 066 April 079 September 066 August 073 September 066 October 073 November 073 December 080 Total 853 2009 January 056 April 033 May 055 June 044 July 056 August 033 September 044 October 044 November 034 November 035 December 044 October 044 November 035	.068 .170 .088 .101 .061 .007 .006 .009 .011 .007	4.042 4.365 4.450 4.291 4.723 R .399 R .358 R .376 R .330 R .305 R .294 R .331	21.060 22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	5.158 6.114 7.156 7.077 6.849 .587 .474 .500 .542	26.218 28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	.002 .013 .013 .068 .055 .005 .006 .003 .009	.104 .117 .152 .146 .175 .017 .016 .016 .014	31.061 33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2003 Total 620 2004 Total 68 2005 Total 76 2006 Total 90 2007 Total 90 2008 January 060 February 066 April 07 May 06 June 08 July 06 August 07 September 06 October 07 November 07 December 08 Total 85 2009 January 05 February 044 March 05 April 03 May 05 June 044 July 05 August 03 September 04 October 04 November 03 September 04 November 03 December 05	.170 .088 .101 .061 .007 .006 .009 .011 .007	4.365 4.450 4.291 4.723 R .399 R .358 R .376 R .330 R .305 R .294 R .331	22.082 22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	6.114 7.156 7.077 6.849 .587 .474 .500 .542	28.196 29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	.013 .013 .068 .055 .005 .006 .003 .009	.117 .152 .146 .175 .017 .016 .016 .014	33.543 34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2005 Total .762 2006 Total .900 2007 Total .900 2008 January .066 February .063 March .064 April .073 May .063 July .064 August .073 September .069 October .073 November .073 December .080 Total .853 2009 January .056 April .033 March .054 April .033 May .057 June .044 July .056 August .033 September .044 October .044 November .033 December .054	.088 .101 .061 .007 .006 .009 .011 .007	4.450 4.291 4.723 R .399 R .358 R .376 R .330 R .305 R .305 R .294 R .331	22.091 22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	7.156 7.077 6.849 .587 .474 .500 .542 .544	29.247 29.162 28.762 2.459 2.148 2.290 2.335 2.338	.013 .068 .055 .005 .006 .003 .009	.152 .146 .175 .017 .016 .016 .014	34.710 34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2006 Total 900 2007 Total 905 2008 January 066 February 068 March 066 April 077 May 066 June 083 July 064 August 077 September 068 October 077 November 077 December 080 Total 853 2009 January 056 February 044 March 055 April 033 May 055 June 044 July 056 August 033 September 044 October 044 November 033 December 056	.101 .061 .007 .006 .009 .011 .007	4.291 4.723 R. 399 R. 358 R. 376 R. 330 R. 305 R. 294 R. 331	22.085 21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	7.077 6.849 .587 .474 .500 .542 .544	29.162 28.762 2.459 2.148 2.290 2.335 2.338	.068 .055 .005 .006 .003 .009	.146 .175 .017 .016 .016 .014	34.673 34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2006 Total 900 2007 Total 905 2008 January 066 February 068 March 066 April 077 May 066 June 083 July 064 August 077 September 068 October 077 November 077 December 080 Total 853 2009 January 056 February 044 March 055 April 033 May 055 June 044 July 056 August 033 September 044 October 044 November 033 December 056	.061 .007 .006 .009 .011 .007	4.723 R. 399 R. 358 R. 376 R. 330 R. 305 R. 294 R. 331	21.914 1.872 1.674 1.789 1.793 1.795 1.800 1.881	.587 .474 .500 .542 .544	28.762 2.459 2.148 2.290 2.335 2.338	.055 .005 .006 .003 .009	.175 .017 .016 .016 .014 .018	34.685 R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
2008 January .066 February .068 March .066 April .073 May .064 June .083 July .066 August .077 September .066 October .077 November .078 December .088 Total .859 2009 January .056 February .044 March .056 April .033 May .057 June .044 July .056 August .033 September .044 October .044 November .033 December .054	.007 .006 .009 .011 .007	R .399 R .358 R .376 R .330 R .305 R .294 R .331	1.872 1.674 1.789 1.793 1.795 1.800 1.881	.587 .474 .500 .542 .544	2.459 2.148 2.290 2.335 2.338	.005 .006 .003 .009	.017 .016 .016 .014 .018	R 2.947 R 2.600 R 2.759 R 2.774 R 2.742
February .063 March .064 April .073 May .064 June .083 July .064 August .073 September .069 October .073 November .074 December .080 Total .853 2009 January .056 February .044 March .05- April .03 May .057 June .044 July .056 August .033 September .044 October .044 November .033 December .054	.006 .009 .011 .007 .013	R .358 R .376 R .330 R .305 R .294 R .331	1.674 1.789 1.793 1.795 1.800 1.881	.474 .500 .542 .544	2.148 2.290 2.335 2.338	.006 .003 .009 .006	.016 .016 .014 .018	R 2.600 R 2.759 R 2.774 R 2.742
March .066 April .07' May .066 June .082 July .064 August .07' September .066 October .07' November .07' December .080 Total .85' 2009 January .056 February .044 March .05- April .03 May .05' June .044 July .056 August .03' September .044 October .044 November .03' December .05-	.009 .011 .007 .013	R .376 R .330 R .305 R .294 R .331	1.789 1.793 1.795 1.800 1.881	.500 .542 .544	2.290 2.335 2.338	.003 .009 .006	.016 .014 .018	R 2.759 R 2.774 R 2.742
April	.011 .007 .013	^R .330 ^R .305 ^R .294 ^R .331	1.793 1.795 1.800 1.881	.542 .544	2.335 2.338	.009 .006	.014 .018	^R 2.774 ^R 2.742
May .068 June .083 July .064 August .073 September .066 October .073 November .075 December .080 Total .853 2009 January .056 February .044 March .05- April .033 May .055 June .044 July .050 August .033 September .044 October .044 November .033 December .054	.007 .013	^R .305 ^R .294 ^R .331	1.795 1.800 1.881	.544	2.338	.006	.018	R 2.742
June	.013	^R .294 ^R .331	1.800 1.881					
July .064 August .077 September .068 October .077 November .077 December .080 Total .853 2009 January .054 February .044 March .05- April .03 May .057 June .044 July .056 August .033 September .044 October .044 November .033 December .054		R .331	1.881	.547	2.347	വെ	001	
August	040	R .331				.000	.∪∠ I	R 2.766
September .068 October .073 November .074 December .080 Total .853 2009 January .056 February .044 March .056 April .033 May .057 June .044 July .056 August .033 September .044 October .044 November .033 December .054				.500	2.382	.008	.021	^R 2.816
October .073 November .074 December .086 Total .853 2009 January .056 February .046 March .055 April .033 May .055 June .044 July .056 August .033 September .044 October .044 November .033 December .054	.009	R .337	1.917	.463	2.380	.012	.020	R 2.836
November .075 December .086 Total .855 2009 January .056 February .046 March .05- April .03 May .05- June .044 July .050 August .033 September .044 October .044 November .033 December .054		R .322	1.518	.498	2.016	.014	.017	R 2.443
December .086 Total .853 2009 January .054 February .044 March .05- April .03 May .055 June .044 July .056 August .033 September .044 October .044 November .033 December .054		R .329	1.873	.523	2.396	.006	.012	R 2.825
Total .85 2009 January .056 February .044 March .05- April .03 May .05 June .044 July .05 August .03 September .044 October .044 November .03 December .05		R .328	1.787	.478	2.265	.004	.011	R 2.689
2009 January .056 February .044 March .056 April .033 May .055 June .044 July .056 August .033 September .044 October .044 November .033 December .054	` '	R .374	1.749	.538	2.287	.004	.012	R 2.756
February .044 March .05- April .03 May .05- June .044 July .050 August .033 September .044 October .044 November .033 December .054	.089	^R 4.084	21.448	6.195	27.644	.085	.195	R 32.952
March .054 April .033 May .057 June .044 July .056 August .033 September .044 October .044 November .033 December .054		.366	1.815	.571	2.386	.003	.015	2.828
April .03 May .05 June .04 July .05 August .03 September .044 October .044 November .03 December .05	` '	.330	1.521	.466	1.988	.001	.013	2.378
May .057 June .044 July .056 August .038 September .044 October .044 November .038 December .054	` '	.333	1.741	.523	2.264	.002	.010	2.664
June .044 July .050 August .03 September .044 October .044 November .033 December .054	` '	.330	1.684	.428	2.112	.001	.011	2.487
July .050 August .033 September .044 October .044 November .033 December .054		.272	1.633	.456	2.089	.002	.014	2.436
August .039 September .044 October .044 November .038 December .054		.289	1.641	.461	2.102	.003	.016	2.457
September .044 October .044 November .038 December .054		.325	1.688	.465	2.153	.004	.019	2.552
October .044 November .038 December .054	` '	.345	1.636	.401	2.038	.004	.020	2.446
November		.315	1.662	.413	2.075	.002	.015	2.454
December054	` '	.280	1.590	.394	1.984	.002	.016	2.326
		.302	1.570	.390	1.960	.002	.013	2.316
10tai		.358	1.517	.404	1.921	.001	.016	2.352
	.009	3.845	19.699	5.374	25.072	.027	.179	29.697
2010 January		.394	1.569	.476	2.045	(s)	.018	2.501
February03		.332	1.455	.382	1.837	(s)	.015	2.220
March		.327	1.725	.393	2.118	(s)	.015	2.510
April	.001	R .305	1.750	.458	2.208	(s)	.013	R 2.573
May03		.306	1.786	.424	2.210	.001	.010	R 2.568
June	.005	R .289	1.773	.408	2.182	(s)	.014	R 2.535
July	.005 .005	^R .335 ^E .313	1.836	.464	2.300	(s)	.015	R 2.688
August043 8-Month Total324	.005 .005 .003		1.761 13.656	.489 3.494	2.250 17.149	(s) . 003	.012 .113	2.621 20.216
	.005 .005 .003 .003			-			.119	
2009 8-Month Total383 2008 8-Month Total558	.005 .005 .003 .003	E 2.601 2.590	13.360	3.772	17.132	.021		20.249

^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

^b Petroleum products, unfinished oils, pentanes plus, and gasoline blending

Web Page: See http://www.eia.gov/emeu/mer/overview.html for all available data beginning in 1973.

Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coke and Coal Chemicals" chapter. 1976-1980—U.S. Energy Information Administration (EIA), Energy Data Report, "Coke and Coal Chemicals," annual reports. 1981 forward—EIA, Quarterly Coal Report, quarterly reports. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.3, 10.4, and A2. • Biofuels: Tables 10.3 and 10.4. • Electricity: Tables 7.1 and A6.

components. Does not include biofuels.

^c Fuel ethanol (including denaturant) and biodiesel.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of

components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Table 1.4b Primary Energy Exports by Source and Total Net Imports

(Quadrillion Btu)

					Exports		_			Net Imports
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Total	Biofuelsd	Electricity	Total	Total
1973 Total	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2.033	12.580
975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
985 Total990 Total	2.438 2.772	.028 .014	.056 .087	.432 .230	1.225 1.594	1.657 1.824	NA NA	.017 .055	4.196 4.752	7.584 14.065
995 Total	2.318	.034	.156	.200	1.791	1.991	NA NA	.012	4.732	17.750
996 Total	2.368	.040	.155	.233	1.825	2.059	NA	.011	4.633	19.069
997 Total	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
998 Total	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
999 Total	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
000 Total	1.528	.028	.245	.106	2.048	2.154	NA .	.051	4.006	24.967
001 Total	1.265	.033	.377	.043	1.996	2.038	(s)	.056	3.770	26.386
002 Total 003 Total	1.032 1.117	.020 .018	.520 .686	.019 .026	2.023 2.124	2.042 2.150	(s) .001	.054 .082	3.668 4.054	25.739 27.007
003 Total	1.117	.018	.686 .862	.026 .057	2.124 2.150	2.150 2.207	.001	.082 .078	4.054 4.433	29.110
005 Total	1.273	.043	.735	.067	2.373	2.441	.001	.068	4.561	30.149
006 Total	1.264	.040	.730	.052	2.694	2.747	.004	.083	4.868	29.805
007 Total	1.507	.036	.830	.058	2.914	2.972	.035	.069	5.448	29.238
008 January	.125	.003	.110	.002	.281	.283	.006	.006	.533	R 2.414
February	.107	.004	.100	.003	.298	.301	.007	.005	.525	R 2.075
March	.170	.001	.101	.005	.311	.317	.006	.009	.604	R 2.156
April May	.203 .213	.004 .004	.075 .070	.002 .003	.290 .310	.292 .313	.009 .007	.005 .010	.586 .618	R 2.188
June	.170	.004	.062	.004	.358	.362	.009	.011	.619	R 2.147
July	.163	.005	.064	.005	.354	.359	.008	.006	.603	R 2.212
August	.134	.008	.068	.007	.351	.358	.009	.005	.581	2.254
September	.220	.004	.056	.007	.214	.221	.008	.006	.514	R 1.929
October	.209	.007	.067	.008	.281	.289	.007	.007	.586	R 2.238
November	.189	.004	.091	.005	.286	.291	.006	.007	.589	R 2.100
December Total	.169 2.071	.003 .049	.107 .972	.008 .061	.319 3.653	.327 3.713	.004 .086	.005 .082	.615 6.973	R 2.142
009 January	.126	.003	.114	.007	.329	.336	.006	.008	.592	2.236
February	.098	.001	.104	.005	.279	.284	.006	.005	.499	1.879
March	.118	.002	.105	.005	.320	.326	.001	.006	.557	2.106
April	.090	.003	.081	.005	.322	.326	.001	.005	.506	1.981
May	.091	.002	.078	.009	.347	.356	.002	.005	.534	1.902
June	.151	.002	.067 .077	.010	.326 .409	.336 .415	.002	.006	.564	1.894 1.935
July August	.115 .130	.003 .003	.077	.006 .006	.409 .368	.415	.003 .002	.005 .005	.617 .594	1.935
September	.130	.003	.085	.007	.354	.361	.002	.005	.598	1.856
October	.163	.004	.079	.013	.380	.393	.002	.005	.646	1.681
November	.143	.002	.098	.008	.337	.345	.004	.004	.597	1.720
December	.146	.004	.116	.012	.341	.353	.002	.005	.627	1.725
Total	1.515	.032	1.082	.093	4.113	4.206	.034	.062	6.931	22.767
010 January February	.150 .138	.006 .001	.094 R .089	.006 .009	.328 .313	.333 .323	.002 .001	.004 .004	.589 ^R .555	1.912 1.666
March	.168	(s)	.100	.008	.365	.373	.002	.005	R .648	1.862
April	.189	.001	.076	.006	.404	.410	.001	.004	.681	R 1.892
May	.185	.003	086	.007	.414	.420	.001	.006	702	1.867
June	.189	.004	R .091	.005	.384	.390	.002	.005	R .681	R 1.854
July	.178	.003	R .087	.012	.427	.440	.001	.005	^R .713	R 1.975
August 8-Month Total	.179 1.377	.002 .019	E .083 E .707	.006 .060	.414 3.048	.420 3.108	.001 .011	.006 .039	.692 5.261	1.929 14.95 6
009 8-Month Total	.918	.020	.705	.053	2.701	2.753	.024	.043	4.463	15.786
008 8-Month Total	1.284	.032	.650	.033	2.552	2.585	.061	.057	4.669	17.570

^a Net imports equal imports minus exports.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/overview.html for all available

data beginning in 1973.
Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S.
Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter. 1976-1980—U.S. Energy Information Administration (EIA), *Energy Data Report*, "Coke and Coal Chemicals," annual reports. 1981 forward—EIA, *Quarterly Coal Report*, quarterly reports. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.4, and A2. • Biofuels: Tables 10.3 and 10.4. • Electricity: Tables 7.1 and

b Crude oil and lease condensate.

C Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.

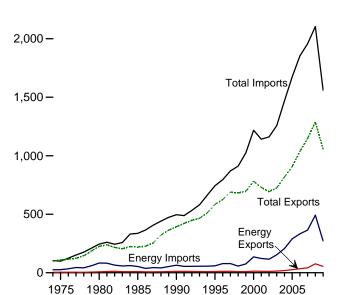
d Biodiesel only.

Biodiesel only.

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)

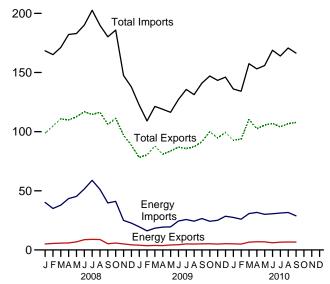
Imports and Exports, 1974-2009

2,500 -

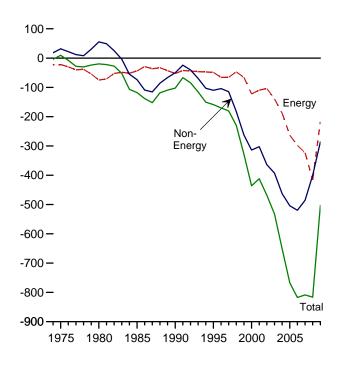


Imports and Exports, Monthly

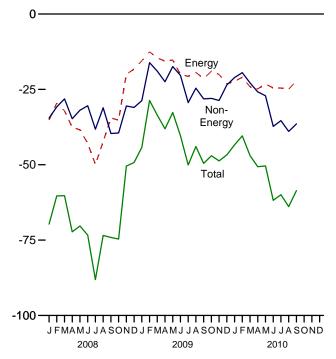
250 -



Trade Balance, 1974-2009



Trade Balance, Monthly



^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Web Page: http://www.eia.gov/emeu/mer/overview.html. Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Dollarsa)

		Petroleum ^l	0		Energy ^c		Non-	Total Merchandise			
	Exports	Imports	Balance	Exports	Imports	Balance	Energy Balance	Exports	Imports	Balance	
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884	
1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551	
1980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696	
1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712	
1990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496	
			-48,047		59,109	-32,426 -48,751	-110,050			-102,490	
1995 Total 1996 Total	6,321 7,984	54,368 72,022	-46,047 -64,038	10,358 12,181	78,086	-46,751 -65,905	-104,309	584,742 625,075	743,543 795,289	-170,214	
					78,000 78,277				869,704	-170,214 -180,522	
1997 Total	8,592	71,152	-62,560	12,682 10,251	57,323	-65,595 -47,072	-114,927 -182,686	689,182	911,896		
1998 Total	6,574 7,118	50,264 67,173	-43,690 -60.055	9,880	75.803	-47,072 -65.923	-162,666	682,138 695,797	1,024,618	-229,758 -328.821	
1999 Total											
2000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104	
2001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899	
2002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263	
2003 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350	
2004 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930	
2005 Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477	
2006 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304	
2007 Total	33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763	
2008 January	4,061	36,617	-32,556	5,049	40,206	-35,157	-34,516	98,677	168,350	-69,673	
February	4,683	31,609	-26,926	5,508	35,033	-29,525	-30,805	104,740	165,070	-60,330	
March	4,477	33,769	-29,292	5,755	37,875	-32,120	-28,142	110,932	171,194	-60,262	
April	4,473	39,481	-35,008	5,899	43,440	-37,541	-34,717	109,857	182,115	-72,258	
May	5,420	41,344	-35,924	6,861	45,266	-38,405	-31,924	112,627	182,956	-70,329	
June	7,365	47,392	-40,027	8,694	51,594	-42,900	-30,430	116,787	190,117	-73,330	
July	7,760	53,966	-46,206	8,948	58,841	-49,893	-38,199	114,522	202,614	-88,092	
August	7,650	47,473	-39,823	8,791	51,150	-42,359	-31,098	116,418	189,875	-73,457	
September	3,916	36,768	-32,852	5,217	39,701	-34,484	-39,633	106,072	180,189	-74,117	
October	4,597	38,270	-33,673	5,876	41,064	-35,188	-39,456	111,239	185,882	-74,644	
November	3,858	22,661	-18,803	5,084	25,019	-19,935	-30,495	97,085	147,515	-50,430	
December	3,439	20,494	-17,055	4,394	22,697	-18,303	-30,974	88,486	137,763	-49,277	
Total	61,695	449,847	-388,152	76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199	
2009 January	3,029	16,924	-13,895	4,037	19,559	-15,522	-28,742	78,151	122,415	-44,264	
February	2,549	14,006	-11,457	3,589	16,120	-12,531	-16,132	80,349	109,012	-28,663	
March	2,878	16,658	-13,780	3,835	18,398	-14,563	-18,948	87,848	121,359	-33,511	
April	2,988	17,884	-14,896	3,664	19,275	-15,611	-22,462	80,822	118,896	-38,073	
May	3,596	18,179	-14,583	4,227	19,484	-15,257	-17,433	83,651	116,341	-32,690	
June	3,625	23,119	-19,494	4,459	24,467	-20,008	-20,336	86,830	127,173	-40,344	
July	4,390	24,295	-19,905	5,077	25,754	-20,677	-29,384	85,635	135,696	-50,061	
August	4,234	23,026	-18,792	4,947	24,312	-19,365	-24,591	87,315	131,272	-43,956	
September	4,329	25,259	-20,930	5,152	26,546	-21,394	-28,152	91,458	141,004	-49,546	
October	4,359	22,826	-18,467	5,230	24,255	-19,025	-27,996	100,005	147,027	-47,021	
November	4,140	23,393	-19,253	4,994	25,047	-20,053	-28,665	94,607	143,324	-48,718	
December	4,391	26,264	-21,873	5,326	28,521	-23,195	-23,539	99,372	146,106	-46,734	
Total	44,509	251,833	-207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582	
2010 January	4,093	25,255	-21,162	5,185	27,504	-22,319	-21,052	92,716	136,087	-43,371	
February	3.953	23.685	-19.732	4.995	25.984	-20.989	-19.428	93.691	134.108	-40.417	
March	5,357	28,630	-23,273	6,567	30,705	-24,138	-22,834	110,454	157,426	-46,972	
April	5,703	29,943	-24,240	6.903	31,737	-24,136	-25.811	102.436	153.082	-50.645	
May	5,580	28,558	-22,978	6,832	30,098	-23,266	-27,118	105,492	155,877	-50,384	
June	4,831	28,926	-24,095	6,080	30,600	-24,520	-37,265	107,043	168,828	-61,785	
July	5,469	29,464	-23,995	6,612	31,175	-24,563	-35,374	104,026	163,963	-59,937	
August	5,469	30,109	-23,995 -24,737	6,712	31,175	-24,563 -24,970	-35,374 R -38,936	R 106,775	R 170,680	R -63,906	
September	5,372	27,352	-24,737 -21,954	6,712	28,810	-24,970 -22,139	-36,445	106,775	166,372	-58,584	
9-Month Total	45,756	27,352 251,922	-21,954 - 206,166	56,557	268,295	-22,139 - 211,738	-36,445 -264,263	930,422	1,406,423	-50,564 - 476,000	
	,	ŕ	,	,	ŕ	,	,	,		ŕ	
2009 9-Month Total 2008 9-Month Total	31,618 49,805	179,350 368,419	-147,732 -318,614	38,987 60,722	193,915 403,106	-154,928 -342,384	-206,180 -299,464	762,059 990,632	1,123,168 1,632,481	-361,109 -641,849	

components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

Web Page: See http://www.eia.gov/emeu/mer/overview.html for all available

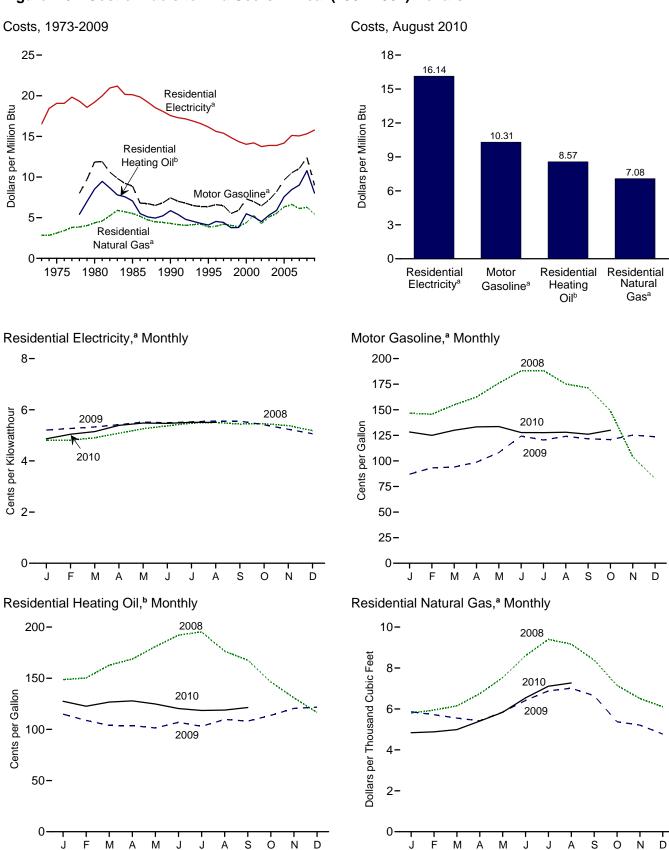
data beginning in 1974.
Sources: See end of section.

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 b Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels.

^c Petroleum, coal, natural gas, and electricity.
R=Revised.

Notes: • Monthly data are not adjusted for seasonal variations. • See Note, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

Figure 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars



^aIncludes taxes.

^bExcludes taxes. Note: See "Real Dollars" in Glossary. Web Page: http://www.eia.gov/emeu/mer/overview.html. Source: Table 1.6.

Table 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars

1973 Average	Index 1982-1984=100 44.4 53.8 82.4 107.6 130.7 152.4 156.9 160.5 163.0 166.6 172.2 177.1 179.9 184.0	Cents per Gallon NA NA 148.2 111.2 93.1 79.1 82.1 80.4 68.4 73.3	Dollars per Million Btu NA NA 11.85 8.89 7.44 6.37 6.61	Cents per Gallon NA NA 118.2 97.9	Dollars per Million Btu NA NA 8.52	Cents per Thousand Cubic Feet	Dollars per Million Btu 2.85 3.12	Cents per Kilowatthour	Dollars per Million Btu
1975 Average	53.8 82.4 107.6 130.7 152.4 156.9 160.5 163.0 166.6 172.2 177.1	NA 148.2 111.2 93.1 79.1 82.1 80.4 68.4	NA 11.85 8.89 7.44 6.37	NA 118.2 97.9	NA	317.8			16.50
1980 Average	82.4 107.6 130.7 152.4 156.9 160.5 163.0 166.6 172.2 177.1	148.2 111.2 93.1 79.1 82.1 80.4 68.4	11.85 8.89 7.44 6.37	118.2 97.9			3.12		
1985 Average	107.6 130.7 152.4 156.9 160.5 163.0 166.6 172.2 177.1 179.9	111.2 93.1 79.1 82.1 80.4 68.4	8.89 7.44 6.37	97.9	8.52			6.5	19.07
1990 Average	130.7 152.4 156.9 160.5 163.0 166.6 172.2 177.1 179.9	93.1 79.1 82.1 80.4 68.4	7.44 6.37			446.6	4.36	6.6	19.21
1995 Average	152.4 156.9 160.5 163.0 166.6 172.2 177.1 179.9	79.1 82.1 80.4 68.4	6.37		7.06	568.8	5.52	6.87	20.13
1996 Average	156.9 160.5 163.0 166.6 172.2 177.1 179.9	82.1 80.4 68.4		81.3	5.86	443.8	4.31	5.99	17.56
1997 Average	160.5 163.0 166.6 172.2 177.1 179.9	80.4 68.4		56.9 63.0	4.10 4.54	397.6 404.3	3.87 3.94	5.51 5.33	16.15 15.62
1998 Average	163.0 166.6 172.2 177.1 179.9	68.4	6.48	61.3	4.42	432.4	4.21	5.25	15.39
1999 Average	166.6 172.2 177.1 179.9		5.51	52.3	3.77	418.4	4.05	5.07	14.85
2000 Average	172.2 177.1 179.9	13.3	5.91	52.6	3.79	401.6	3.91	4.90	14.36
2001 Average	177.1 179.9	90.8	7.32	76.1	5.49	450.6	4.39	4.79	14.02
2002 Average	179.9	86.4	6.97	70.6	5.09	543.8	5.28	4.84	14.20
2003 Average		80.1	6.46	62.8	4.52	438.6	4.26	4.69	13.75
2004 Average 2005 Average 2007 Average 2008 January		89.0	7.18	73.6	5.31	523.4	5.09	4.74	13.89
2005 Average2006 Average2007 Average2008 January2008	188.9	101.8	8.20	81.9	5.91	569.1	5.55	4.74	13.89
2006 Average2007 Average2008 January2008	195.3	119.7	9.64	105.1	7.58	650.3	6.33	4.84	14.18
2007 Average2008 January	201.6	130.7	10.52	117.3	8.46	681.1	6.63	5.16	15.12
	207.342	137.4	11.06	125.0	9.01	630.8	6.12	5.14	15.05
	211.080	146.7	11.81	148.7	10.72	579.9	5.65	4.81	14.09
February	211.693	145.6	11.72	150.3	10.83	594.3	5.79	4.81	14.11
March	213.528	154.9	12.47	162.7	11.73	614.9	5.99	4.90	14.37
April	214.823	162.5	13.08	168.8	12.17	674.5	6.57	5.08	14.90
May	216.632	176.0	14.17	181.0	13.05	752.9	7.33	5.26	15.41
June	218.815	188.1	15.14	192.1	13.85	860.1	8.37	5.37	15.74
July	219.964	188.3	15.16	195.3	14.08	940.2	9.15	5.48	16.06
August	219.086	175.2	14.10	176.5	12.72	916.5	8.92	5.50	16.13
September	218.783	171.4	13.79	167.6	12.09	839.2	8.17	5.44	15.94
October	216.573	148.9	11.99	146.3	10.55	715.2	6.96	5.45	15.98
November December	212.425 210.228	103.9 82.9	8.37 6.67	130.8 116.5	9.43 8.40	650.6 610.8	6.33 5.95	5.38 5.18	15.77 15.20
Average	215.303	154.1	12.40	149.5	10.78	645.1	6.28	5.23	15.33
2009 January	211.143	87.1	7.01	114.9	8.28	586.3	5.71	5.21	15.25
February	212.193	93.3	7.51	108.8	7.85	R 571.6	5.57	5.27	15.44
March	212.709	94.0	7.57	103.9	7.49	555.2	5.41	5.33	15.61
April	213.240	98.8	7.95	103.7	7.48	^R 542.1	^R 5.28	5.42	15.87
May	213.856	108.2	8.71	101.3	7.31	^R 584.5	5.69	5.52	16.17
June	215.693	124.3	10.00	107.0	7.71	641.2	6.24	5.49	16.10
July	215.351	120.5	9.70	103.0	7.43	688.2	6.70	5.53	16.20
August	215.834	124.0	9.98	109.8	7.91	701.0	6.83	5.56	16.29
September	215.969	121.6	9.79	108.1	7.79	R 664.9	6.47	5.56	16.28
October	216.177	120.9	9.73	113.7	8.20	537.5	5.23	5.41	15.86
November	216.330	125.2	10.08	120.6	8.69	521.0	5.07	5.24	15.35
December	215.949	123.7	9.96	121.7	8.77	477.0	4.64	5.06	14.83
Average	214.537	111.9	9.01	111.2	8.02	557.9	5.43	5.38	15.78
2010 January	216.687	128.2	10.32	127.5	9.19	483.6	4.71	4.86	14.26
February	216.741	125.0	10.06	122.6	8.84	488.1	4.75	5.04 5.15	14.78
March	217.631	130.0	10.46	126.7	9.13	499.0	4.86	5.15	15.08
April	218.009 218.178	133.3 133.6	10.73 10.75	127.8 124.8	9.22 9.00	540.3 583.5	5.26 5.68	5.39 5.48	15.80 16.07
May June	217.965	127.7	10.75	124.8	9.00 8.68	653.8	6.37		16.07
July	Z 11.JUJ	127.7	10.26		0.00			5/1/	
August				K 112 5				5.47 5.51	
September	218.011			R 118.5	R 8.55	^R 711.0	R 6.92	5.51	16.15
October		128.0 126.1	10.27 10.31 10.15	^R 118.5 ^R 118.9 ^R 121.4					

^a Data are U.S. city averages for all items, and are not seasonally adjusted.

Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 States and the

District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/overview.html for all available data beginning in 1973.

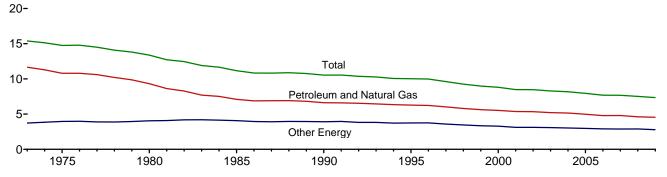
Sources: • Fuel Prices: Tables 9.4 (All Types), 9.8c, 9.9, and 9.11, adjusted by the CPI. • Consumer Price Index, All Urban Consumers: U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • Conversion Factors: Tables A1, A3, A4, and A6.

b Includes taxes.

C Excludes taxes.

R=Revised. E=Estimate. NA=Not available.

Figure 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product, 1973-2009 (Thousand Btu per Chained (2005) Dollar)



Note: See "Real Dollars" in Glossary.

Web Page: http://www.eia.gov/emeu/mer/overview.html.

Source: Table 1.7.

Table 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product

	Ene	rgy Consumption	1	Gross Domestic	Energy Consum	ption per Real Do	llar of GDP		
	Petroleum and Natural Gas	Other Energy ^a	Total	Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total		
	(Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu per Chained (2005) Dollar				
973 Year	57.350	18.356	75,706	4,917.0	11.66	3.73	15.40		
74 Year	55.186	18.804	73.990	4.889.9	11.29	3.85	15.13		
75 Year	52.680	19.321	72.001	4,879.5	10.80	3.96	14.76		
76 Year	55.523	20.492	76.015	5.141.3	10.80	3.99	14.79		
77 Year	57.054	20.947	78.001	5,377.7	10.61	3.90	14.50		
78 Year	57.963	22.021	79.984	5.677.6	10.21	3.88	14.09		
79 Year	57.788	23.114	80.902	5,855.0	9.87	3.95	13.82		
80 Year	54,440	23.684	78.124	5,839.0	9.32	4.06	13.38		
31 Year	51.680	24.490	76.124	5,987.2	8.63	4.09	12.72		
82 Year	48.588	24.565	73.153	5,870.9	8.28	4.18	12.72		
83 Year	47.273	25.763	73.036	6,136.2	7.70	4.20	11.90		
34 Year	47.273 49.447	27.269	76.716	6,577.1	7.70 7.52	4.20 4.15	11.66		
	48.628	27.865	76.493	•	7.52 7.10		11.17		
85 Year	48.790	27.865 27.969	76.493 76.759	6,849.3		4.07			
36 Year			76.759 79.171	7,086.5	6.88	3.95	10.83		
37 Year	50.504	28.668		7,313.3	6.91	3.92	10.83		
38 Year	52.671	30.149	82.820	7,613.9	6.92	3.96	10.88		
39 Year	53.811	31.131	84.942	7,885.9	6.82	3.95	10.77		
00 Year	53.155	31.496	84.651	8,033.9	6.62	3.92	10.54		
01 Year	52.879	31.728	84.607	8,015.1	6.60	3.96	10.56		
92 Year	54.239	31.715	85.954	8,287.1	6.54	3.83	10.37		
93 Year	54.973	32.629	87.602	8,523.4	6.45	3.83	10.28		
94 Year	56.289	32.968	89.256	8,870.7	6.35	3.72	10.06		
95 Year	57.110	34.062	91.171	9,093.7	6.28	3.75	10.03		
96 Year	58.760	35.415	94.175	9,433.9	6.23	3.75	9.98		
97 Year	59.382	35.380	94.761	9,854.3	6.03	3.59	9.62		
98 Year	59.646	35.532	95.179	10,283.5	5.80	3.46	9.26		
99 Year	60.747	36.066	96.813	10,779.8	5.64	3.35	8.98		
00 Year	62.086	36.882	98.968	11,226.0	5.53	3.29	8.82		
01 Year	60.958	35.358	96.316	11,347.2	5.37	3.12	8.49		
02 Year	61.783	36.070	97.852	11,553.0	5.35	3.12	8.47		
3 Year	61.642	36.493	98.135	11,840.7	5.21	3.08	8.29		
14 Year	63.201	37.112	100.313	12,263.8	5.15	3.03	8.18		
05 Year	62.950	37.492	100.442	12,638.4	4.98	2.97	7.95		
06 Year	62.179	37.611	99.790	12,976.2	4.79	2.90	7.69		
07 Year	63.476	38.056	101.532	13,228.9	4.80	2.88	7.67		
08 Year	61.071	38.332	99.403	13,228.8	4.62	2.90	7.51		
09 Year	R 58.668	35.970	R 94.638	12,880.6	4.55	2.79	7.35		

 $^{^{\}rm a}$ Coal, coal coke net imports, nuclear electric power, renewable energy, and electricity net imports.

R=Revised.

Columbia

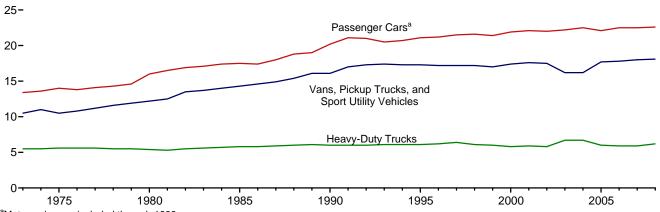
Web Page: http://www.eia.gov/emeu/mer/overview.html.

Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts (Oct. 29, 2010), Table 1.1.6.

Notes: • See "Primary Energy Consumption" and "Real Dollars" in Glossary. • Totals may not equal sum of components due to independent

rounding. • Geographic coverage is the 50 States and the District of

Figure 1.8 Motor Vehicle Fuel Economy, 1973-2008 (Miles per Gallon)



^aMotorcycles are included through 1989.

Web Page: http://www.eia.gov/emeu/mer/overview.html.

Source: Table 1.8.

Table 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy

	ı	Passenger Cars ^a			ns, Pickup Truc Sport Utility Veh		Н	eavy-Duty Truck	(S ^C	А	II Motor Vehicle	s ^d
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)									
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	^a 10,157	^a 533	^a 19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2
2007	12,304	547	22.5	10,962	609	18.0	25,152	4,275	5.9	11,920	693	17.2
2008 ^P	11,788	522	22.6	10,951	605	18.1	25,254	4,075	6.2	11,619	667	17.4

P=Preliminary.

Note: Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.gov/emeu/mer/overview.html. Sources: • Passenger Cars, 1990-1994: U.S. Department of Transportation, Statistics of Transportation Statistics 1998, Table 4-13. • All Other Data: • 1973-1994—Federal Highway Administration (FHWA), Highway Statistics Summary to 1995, Table VM-201A. • 1995 forward—FHWA, Highway Statistics, annual reports, Table VM-1.

a Through 1989, includes motorcycles.
 b Includes a small number of trucks with 2 axles and 4 tires, such as step vans.

^c Single-unit trucks with 2 axles and 6 or more tires, and combination trucks.

d Includes buses and motorcycles, which are not shown separately.

Table 1.9 Heating Degree-Days by Census Division

			October				July	Cumulative through Oc		
				Percent	Change				Percent	Change
Census Divisions	Normala	2009	2010	Normal to 2010	2009 to 2010	Normala	2009	2010	Normal to 2010	2009 to 2010
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	467	517	424	-9	-18	657	763	558	-15	-27
Middle Atlantic New Jersey, New York, Pennsylvania	399	417	336	-16	-19	526	532	396	-25	-26
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	424	510	357	-16	-30	580	705	492	-15	-30
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	424	604	347	-18	-43	607	788	501	-17	-36
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	404	470	400	00	05	400	405	405	00	07
West Virginia East South Central Alabama, Kentucky, Mississippi, Tennessee	164 213	170 245	128	-22 -20	-25 -31	189 246	185 268	135 189	-29 -23	-27 -29
West South Central Arkansas, Louisiana, Oklahoma, Texas	83	133	69	NM	NM	92	144	75	NM	NM
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	360	446	281	-22	-37	543	554	364	-33	-34
Pacific ^b California, Oregon, Washington	186	205	181	-3	-12	294	253	258	-12	2
U.S. Average ^b	282	330	238	-16	-28	383	423	306	-20	-28

^a "Normal" is based on calculations of data from 1971 through 2000.

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days). If a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree days).

Web Pages: • See http://www.eia.gov/emeu/mer/overview.html for current

data. • See http://www.eia.gov/emeu/aer/overview.html for historical data.

Sources: There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Prediction Center, Camp Springs, MD. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at those weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident State population data estimated for the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-1 (heating degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

b Excludes Alaska and Hawaii.

NM=Not meaningful (because "Normal" is less than 100 or ratio is incalculable).

Table 1.10 Cooling Degree-Days by Census Division

			October					Cumulative y through C		
				Percent	Change				Percent	Change
Census Divisions	Normala	2009	2010	Normal to 2010	2009 to 2010	Normala	2009	2010	Normal to 2010	2009 to 2010
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	0	0	5	NM	NM	417	367	710	70	93
Middle Atlantic New Jersey, New York, Pennsylvania	5	0	1	NM	NM	656	581	988	51	70
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	8	0	4	NM	NM	709	514	978	38	90
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	12	0	3	NM	NM	927	705	1,090	18	55
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	120	424	442	7	46	4.070	4 004	2.264	24	14
West Virginia East South Central Alabama, Kentucky,	120	134	112	-7	-16	1,876	1,991	2,264	21	
Mississippi, Tennessee West South Central Arkansas, Louisiana, Oklahoma, Texas	53 134	31 124	34 143	NM 7	NM 15	1,538 2,408	1,549 2,579	2,702	30	29 5
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	55	42	64	NM	NM	1,239	1,336	1,312	6	-2
Pacific ^b California, Oregon, Washington	36	21	45	NM	NM	699	908	668	-4	-26
U.S. Average ^b	53	46	51	NM	NM	1,194	1,212	1,442	21	19

^a "Normal" is based on calculations of data from 1971 through 2000.

NM=Not meaningful (because "Normal" is less than 100 or ratio is incalculable).

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, if a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree-days). A weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days).

Web Pages: • See http://www.eia.gov/emeu/mer/overview.html for current

data. • See http://www.eia.gov/emeu/aer/overview.html for historical data.

Sources: There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Prediction Center, Camp Springs, MD. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at those weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident State population data estimated for the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-2 (cooling degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

^b Excludes Alaska and Hawaii.

Energy Overview

Note. Merchandise Trade Value. Imports data presented are based on the customs values. Those values do not include insurance and freight and are consequently lower than the cost, insurance, and freight (CIF) values, which are also reported by the Bureau of the Census. All exports data, and imports data prior to 1981, are on a free alongside ship (f.a.s.) basis.

"Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. "Energy" includes mineral fuels, lubricants, and related material. "Non-Energy Balance" and "Total Merchandise" include foreign exports (i.e., re-exports) and nonmonetary gold and U.S. Department of Defense Grant-Aid shipments. The "Non-Energy Balance" is calculated by subtracting the "Energy" from the "Total Merchandise Balance."

"Imports" consist of government and nongovernment shipments of merchandise into the 50 States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and the U.S. Foreign Trade Zones. They reflect the total arrival from foreign countries of merchandise that immediately entered consumption channels, warehouses, the Foreign Trade Zones, or the Strategic Petroleum Reserve. They exclude shipments between the United States, Puerto Rico, and U.S. possessions, shipments to U.S. Armed Forces and diplomatic missions abroad for their own use, U.S. goods returned to the United States by its Armed Forces, and in-transit shipments.

Table 1.5 Sources

U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division:

Petroleum Exports

1974-1987: "U.S. Exports," FT410, December issues. 1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

1990-1992: "U.S. Merchandise Trade," Final Report.

1993-2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

1974-1987: "U.S. Merchandise Trade," FT900, December issues, 1975-1988.

1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

1990-1993: "U.S. Merchandise Trade," Final Report.

1994-2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

Energy Exports and Imports

1974-1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: January-July, monthly FT-900 supplement, 1989 issues. August-December, monthly FT-900, 1989 issues. 1989: Monthly FT-900, 1990 issues.

1990-1992: "U.S. Merchandise Trade," Final Report.

1993-2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

1974-1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: "Report on U.S. Merchandise Trade, 1988 Final Revisions," August 18, 1989.

1989: "Report on U.S. Merchandise Trade, 1989 Revisions," July 10, 1990.

1990: "U.S. Merchandise Trade, 1990 Final Report," May 10, 1991, and "U.S. Merchandise Trade, December 1992," February 18, 1993, page 3.

1991: "U.S. Merchandise Trade, 1992 Final Report," May 12, 1993.

1992-2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

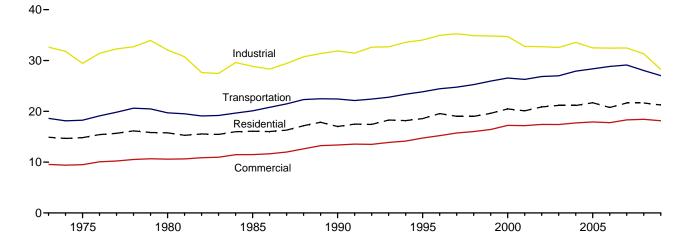
Energy Consumption by Sector



Office buildings, industries, residences, and transport systems, Baltimore, Maryland; east view from the inner harbor. Source: U.S. Department of Energy.

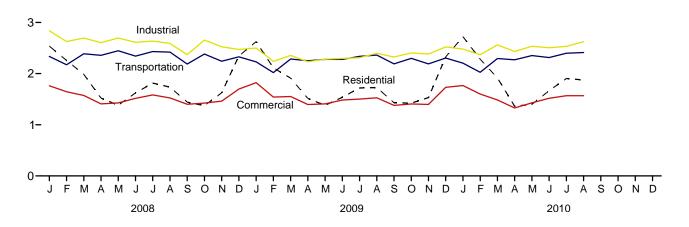
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2009

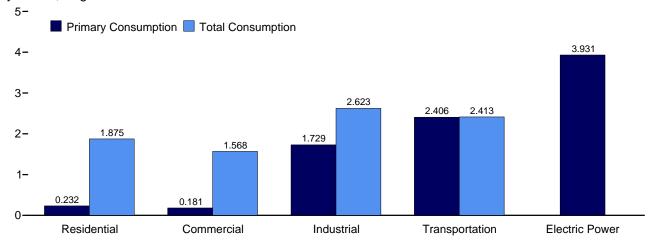


Total Consumption by End-Use Sector, Monthly

4-







Web Page: http://www.eia.gov/emeu/mer/consump.html.

Source: Table 2.1.

Energy Consumption by Sector Table 2.1

(Trillion Btu)

				End-Use	Sectors				Electric		
	Reside	ential	Comme	erciala	Indus	trial ^b	Transpo	rtation	Power Sector ^{c,d}	Palanaina	Drimory
	Primary ^e	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Balancing Item ^g	Primary Total ^h
1973 Total	8,225	14,905	4,423	9,549	24,720	32,632	18,577	18,613	19,753	7	75,706
1975 Total	7,990	14,826	4,059	9,502	21,434	29,427	18,210	18,245	20,307	1	72,001
1980 Total	7,439	15,773	4,105	10,593	22,595	32,062	19,659	19,697	24,327	-1	78,124
1985 Total	7,148	16,076	3,732	11,481	19,443	28,852	20,041	20,088	26,132	-4	76,493
1990 Total	6,558	17,002	3,896	13,371	21,180	31,867	22,366	22,420	30,660	-9	84,651
1995 Total	6,937	18,569	4,101	14,735	22,719	34,018	23,791	23,847	33,621	3	91,171
1996 Total	7,467	19,558	4,273	15,220	23,410	34,955	24,383	24,438	34,638	4	94,175
1997 Total	7,034	19,020	4,295	15,733	23,686	35,253	24,695	24,750	35,045	6	94,761
1998 Total	6,414	19,011	4,005	16,020	23,177	34,894	25,201	25,256	36,385	-3	95,179
1999 Total	6,776	19,613	4,053	16,430	22,950	34,815	25,891	25,949	37,136	6	96,813
2000 Total	7,160	20,479	4,278	17,227	22,824	34,711	26,489	26,549	38,214	2	98,968
2001 Total	6,869	20,095	4,084	17,188	21,794	32,763	26,213	26,276	37,362	-6	96,316
2002 Total	6,933	20,869	4,144	17,413	21,813	32,721	26,784	26,845	38,173	5	97,852
2003 Total	7,212	21,168	4,283	17,396	21,503	32,577	26,920	26,994	38,218	-1	98,135
2004 Total	6,995	21,154	4,232	17,716	22,398	33,553	27,817	27,896	38,876	-6	100,313
2005 Total	6,912	21,689	4,051	17,913	21,407	32,487	28,272	28,354	39,800	(s)	100,442
2006 Total	6,182	20,762	3,746	17,768	21,521	32,431	28,751	28,830	39,590	(s)	99,790
2007 Total	6,638	21,631	3,931	18,321	21,395	32,464	29,031	29,119	40,540	-3	101,532
2008 January	1,106	2,537	588	1,761	1,937	2,836	2,327	2,335	3,510	1	9,470
February	1,028	2,257	563	1,645	1,779	2,626	2,167	2,174	3,165	(s)	8,701
March	841	1,986	469	1,573	1,799	2,694	2,380	2,386	3,151	-2 -3	8,638
April	540	1,521	326	1,408	1,708	2,604	2,351	2,358	2,966		7,887
May	366	1,383	240	1,427	1,720	2,695	2,439	2,446	3,185	-2	7,948
June	279	1,622	195	1,516	1,642	2,610	2,335	2,342	3,639	1	8,090
July	254	1,815	189	1,584	1,674	2,636	2,423	2,430	3,925	3	8,468
August	243	1,735	185	1,524	1,642	2,588	2,412	2,419	3,785	1	8,267
September	238	1,443	184	1,400	1,493	2,370	2,180	2,187	3,305	(s)	7,399
October	356 583	1,374	249 346	1,424	1,767 1.660	2,657	2,376	2,383 2.242	3,090 3.029	-4	7,834
November		1,625	520	1,462		2,525 2,471	2,235			(s) 4	7,853
December Total	969 6,799	2,345 21,640	4,053	1,697 18,421	1,638 20,458	31,312	2,321 27,946	2,328 28,029	3,394 40,147	(s)	8,845 99,403
2009 January	1,150	2,624	617	1,823	1,717	2.499	2,221	2,229	3,470	(s)	9.174
February	932	2,112	511	1,542	R 1,538	2,240	2,013	R 2,019	2,919	(s) -4	7,909
March	776	1,911	443	1,551	1,598	2,356	2,279	2,286	3,008	-5	8,099
April	541	1,515	317	1,396	1,479	2,233	2,245	2,251	2,813	-2	7,394
May	333	1,381	224	1.409	1.475	2,280	2,271	2.277	3.044	(s)	7.346
June	264	1,538	188	1,484	1.489	2,297	2,271	2,278	3,385	2	7,598
July	249	1,719	186	1,501	1,508	2.310	2,330	2.337	3,594	3	7.870
August	248	1,727	189	1,526	1,553	R 2,399	2,355	2,362	3,668	3	8.017
September	257	1,430	194	1,378	1,541	2,324	2,183	2,189	3,145	-1	7,320
October	397	1,422	263	1,407	1.607	2.404	2.291	2.297	2.971	-2	7.527
November	529	1,532	318	1,397	1,592	2,382	2,184	2,190	2,879	-2	7,500
December	960	2,326	521	1,732	R 1,699	R 2,521	2,296	2.304	3,407	(s)	8,883
Total	6,636	21,237	3,970	18,143	R 18,797	R 28,245	26,939	27,021	38,304	`-9	R 94,638
2010 January	1,164	2,722	610	1,766	R 1,714	R 2,479	2,197	_ 2,205	3,486	-1	^R 9,170
February	1,006	2,282	546	1,600	R 1.630	R 2,369	2,018	R 2,025	3,075	-4	R 8,272
March	759	1,914	418	1,485	^R 1,777	R 2,560	R 2,288	2,295	3,011	-6	R 8,248
April	447	1,362	275	1,329	^R 1,642	R 2,432	2,263	2,269	2,765	-7	^R 7,385
May	330	1,399	220	1,429	R 1,641	R 2,534	2,345	2,352	3,177	-4	^R 7,709
June	264	1,666	187	1,517	R 1,624	R 2,506	2,306	2,313	3,621	-2	R 8,000
July	R 240	R 1,904	176	1,567	R 1,649	R 2,532	2,391	2,398	3,946	(s)	R 8,402
August	232	1,875	181	1,568	1,729	2,623	2,406	2,413	3,931	-1	8,479
8-Month Total	4,443	15,125	2,614	12,261	13,405	20,034	18,215	18,270	27,013	-24	65,666
2009 8-Month Total 2008 8-Month Total	4,493 4,656	14,527 14,856	2,675 2,755	12,232 12,438	12,357 13,899	18,612 21,289	17,985 18,834	18,040 18,890	25,901 27,327	-3 -1	63,408 67,471

^a Commercial sector, including commercial combined-heat-and-power (CHP)

and commercial electricity-only plants.

b Industrial sector, including industrial combined-heat-and-power (CHP) and

industrial electricity-only plants.

^c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to

the public.

d Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

Be "Primary Energy Consumption" in Glossary.
 Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 2, "Electrical System Energy Losses," at end of section.

^g A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due to the use of sector-specific conversion factors for coal and natural gas.

h Primary energy consumption total. See Table 1.3.

R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at

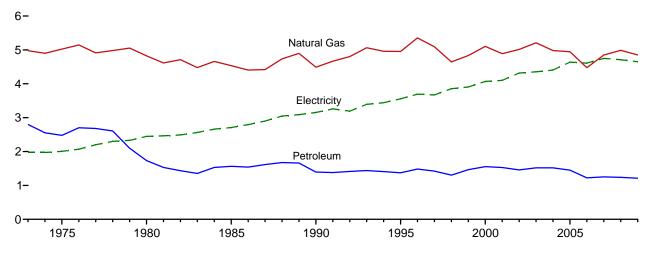
routes. • See Note 1, "Energy Consumption Data and Surveys," at end of section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/consump.html for all available data beginning in 1072

data beginning in 1973.
Sources: Tables 1.3 and 2.2-2.6.

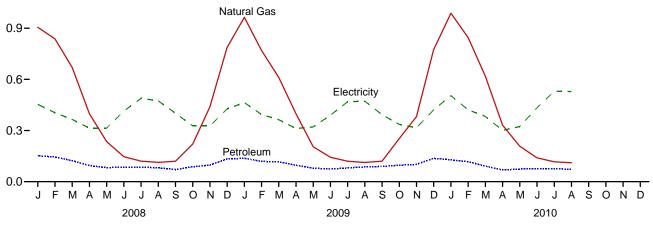
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

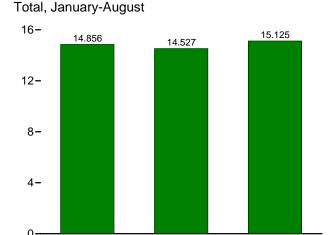
By Major Source, 1973-2009



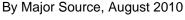
By Major Source, Monthly

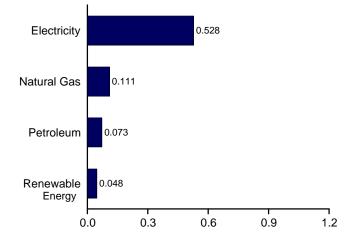
1.2-





2009





Web Page: http://www.eia.gov/emeu/mer/consump.html.

Source: Table 2.2.

2008

2010

Table 2.2 Residential Sector Energy Consumption

(Trillion Btu)

				Prima	ry Consump	otiona						
		Fossil	Fuels			Renewak	ole Energy ^b			Electricity	Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Retail Sales ^d	System Energy Losses ^e	Total
1973 Total	94	4,977	2,800	7,871	NA	NA	354	354	8,225	1,976	4,703	14,905
1975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,829	14,826
1980 Total	31	4,825	1,734	6,589	NA	NA	850	850	7,439	2,448	5,885	15,773
1985 Total	39	4,534	1,565	6,138	NA	NA	1,010	1,010	7,148	2,709	6,219	16,076
1990 Total	31	4,491	1,394	5,916	6	56	580	641	6,558	3,153	7,291	17,002
1995 Total	17	4,954	1,374	6,345	7	65	520	591	6,937	3,557	8,075	18,569
1996 Total	17	5,354	1,484	6,854	7	65	540	612	7,467	3,694	8,397	19,558
1997 Total	16	5,093	1,422	6,531	8	65	430	503	7,034	3,671	8,315	19,020
1998 Total	12	4,646	1,304	5,962	8	65	380	452	6,414	3,856	8,741	19,011
1999 Total	14	4,835	1,465	6,314	9	64	390	462	6,776	3,906	8,931	19,613
2000 Total	11	5,105	1,554	6,670	9	61	420	490	7,160	4,069	9,250	20,479
2001 Total	12	4,889	1,529	6,430	9	60 50	370	439	6,869	4,100	9,126	20,095
2002 Total	12 12	5,014	1,457	6,484	10	59 58	380 400	449 471	6,933	4,317	9,620	20,869
2003 Total 2004 Total	11	5,209 4,981	1,519 1,520	6,741 6,513	13 14	56 59	400 410	483	7,212 6,995	4,353 4,408	9,603 9,750	21,168 21,154
2005 Total	8	4,946	1,451	6,406	16	61	430	507	6,912	4,408	10,139	21,134
2006 Total	6	4,476	1,431	5,706	18	67	390	475	6,182	4,611	9,968	20,762
2007 Total	8	4,850	1,254	6,111	22	75	430	527	6,638	4,750	10,242	21,631
2008 January	1	905	152	1,058	2	7	38	48	1,106	454	977	2,537
February	1	837	145	983	2	7	36	45	1,028	404	825	2,257
March	1	670	123	793	2	7	38	48	841	365	780	1,986
April	1	398	94	493	2	7	37	46	540	314	667	1,521
May	1	235	82	318	2	7	38	48	366	314	703	1,383
June	1	147	85	232	2	7	37	46	279	413	930	1,622
July	1	121	85	206	2	7	38	48	254	489	1,072	1,815
August	1	113	81	195	2	7	38	48	243	473	1,019	1,735
September	(s)	120	71	191	2	7	37	46	238	401	804	1,443
October	1	220	87	308	2	7	38	48	356	328	690	1,374
November	1	438	97	536	2	7	37	46	583	326	716	1,625
December	1	787	133	921	2	7	38	48 565	969	427	950	2,345
Total	8	4,989	1,238	6,235	26	88	450	565	6,799	4,708	10,133	21,640
2009 January	1 1	964 769	137 119	1,102 889	3 3	9 8	37 33	48 43	1,150 932	464 394	1,011 786	2,624
February March	1	611	116	729	3	9	33 37	43 48	776	363	770 771	2,112 1,911
April	(s)	398	96	495	3	8	35	46	541	312	662	1,515
May	(s)	205	79	285	3	9	37	48	333	321	727	1,313
June	(s)	143	74	218	3	8	35	46	264	390	884	1,538
July	(s)	120	81	201	3	9	37	48	249	469	1,001	1,719
August	(s)	113	87	200	3	9	37	48	248	472	1,008	1,727
September	(s)	120	90	211	3	8	35	46	257	393	779	1,430
October	ìí	253	96	350	3	9	37	48	397	336	688	1,422
November	1	381	101	483	3	8	35	46	529	316	687	1,532
December	1	774	137	912	3	9	37	48	960	421	945	2,326
Total	7	4,852	1,214	6,073	33	101	430	563	6,636	4,650	9,950	21,237
2010 January	1	988	128	1,116	3	9	37	48	1,164	504	1,054	2,722
February	1	845	117	963	3	8	33	43	1,006	421	854	2,282
March	1	619	91	711	3	9	37	48	759	382	773	1,914
April	(s)	332	69	401	3	8	35	46	447	301	614	1,362
May	(s)	208	74 77	282	3	9	37	48	330	323	745	1,399
June	(s)	140 117	77 75	217 ^R 192	3 3	8 9	35 37	46 48	264 ^R 240	433 530	969 1,134	1,666 R 1,904
July August	(s) (s)	117	75 73	184	3	9	37 37	48 48	232	530 528	1,134	1,875
8-Month Total	4	3,359	704	4,068	22	67	286	37 5	4,443	3,423	7,258	15,125
2009 8-Month Total 2008 8-Month Total	5 5	3,324 3,426	789 849	4,118 4,280	22 18	67 59	286 300	375 376	4,493 4,656	3,184 3,226	6,850 6,973	14,527 14,856

^a See "Primary Energy Consumption" in Glossary.

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.

Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

b Data are estimates. See Table 10.2a for notes on series components.

^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

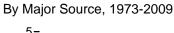
d Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

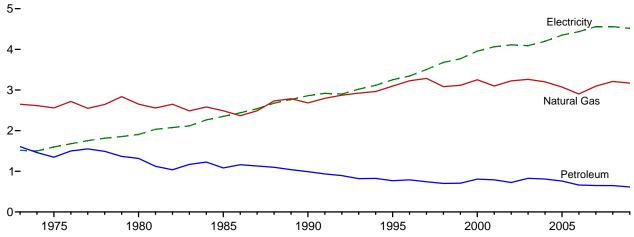
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

[•] Geographic coverage is the 50 States and the District of Columbia.

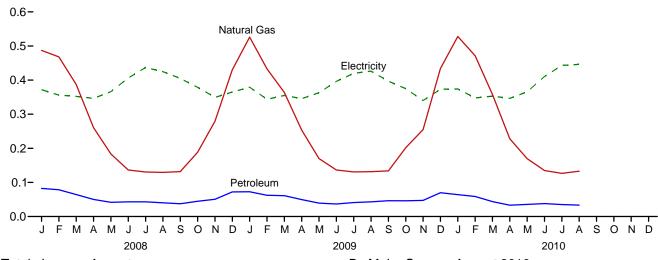
Web Page: See http://www.eia.gov/emeu/mer/consump.html for all available data beginning in 1973.

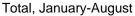
Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

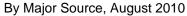




By Major Source, Monthly





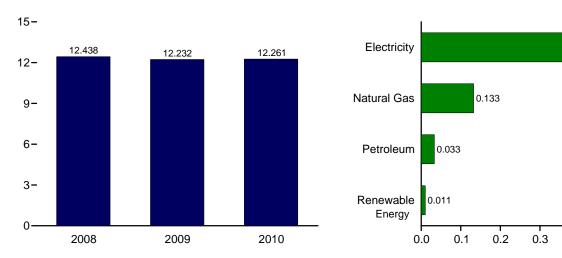


0.446

0.4

0.5

0.6



Web Page: http://www.eia.gov/emeu/mer/consump.html.

Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

				Pri	mary Con	sumption	а						
		Fossi	l Fuels			Rene	wable En	ergy ^b]	Flantsiani	
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Electricity Retail Sales ^f	Electrical System Energy Losses	Total
1973 Total 1975 Total 1980 Total 1980 Total 1985 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total	160 147 115 137 124 117 122 129 93 103 92 97 90 82 103 97 65 70	2,649 2,558 2,651 2,488 2,682 3,096 3,226 3,285 3,083 3,115 3,252 3,097 3,225 3,261 3,073 2,902 3,094	1,607 1,346 1,318 1,083 991 769 743 702 707 807 790 726 827 809 761 663 649	4,416 4,051 4,084 3,708 3,798 3,982 4,138 4,157 3,878 3,925 4,150 3,984 4,040 4,170 4,113 3,932 3,629 3,814	NA NA NA NA 1 1 1 1 1 1 (s) 1	NA NA NA NA 3 5 5 6 7 7 8 8 9 11 12 14 14 14	NA NA NA 	7 8 21 24 94 113 129 131 118 121 119 95 101 105 105 102	7 8 21 24 98 118 135 127 129 128 101 104 113 119 117	4,423 4,059 4,105 3,732 3,896 4,101 4,273 4,095 4,053 4,084 4,144 4,283 4,051 3,746 3,931	1,517 1,598 1,906 2,351 2,860 3,252 3,344 3,503 3,678 3,766 3,956 4,062 4,110 4,090 4,198 4,351 4,435 4,560	3,609 3,845 4,582 5,398 6,615 7,382 7,603 7,935 8,338 8,610 8,993 9,042 9,159 9,023 9,236 9,511 9,587 9,831	9,549 9,502 10,593 11,481 13,371 14,735 15,220 15,733 16,020 16,430 17,227 17,188 17,413 17,396 17,716 17,913 17,768 18,321
2008 January February March April May June July August September October November December Total	8 7 7 5 5 6 5 5 4 5 6 7 69	487 468 387 260 183 136 131 129 132 188 280 430 3,211	82 79 64 50 42 43 40 37 45 51 72 648	577 554 458 315 229 185 178 174 174 238 336 509 3,928	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10 10 10 11 11 11 11 10 10 10 11	588 563 469 326 240 195 189 185 184 249 346 520 4,053	372 356 352 346 366 406 437 425 405 379 349 365 4,558	801 726 752 736 821 914 958 914 811 797 766 813 9,810	1,761 1,645 1,573 1,408 1,427 1,516 1,584 1,524 1,400 1,424 1,462 1,697 18,421
2009 January February March April May June July August September October November December Total	8 7 6 4 4 4 4 4 5 5 6 61	526 433 364 253 170 136 131 131 134 202 255 434 3,168	73 62 61 50 39 37 41 43 46 46 47 70 615	606 502 431 307 213 177 176 179 184 252 307 510 3,845	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 8 10 9 9 9 9 9 9 9 9	11 9 12 10 11 10 10 11 10 10 11 11 125	617 511 443 317 224 188 186 189 194 263 318 521 3,970	379 344 355 346 363 396 420 426 397 375 340 373 4,514	827 686 754 734 822 900 896 911 787 769 739 838 9,659	1,823 1,542 1,551 1,396 1,409 1,484 1,501 1,526 1,378 1,407 1,397 1,732 18,143
2010 January February March April May June July August 8-Month Total	7 6 6 4 4 4 4 4 39	528 471 358 228 170 135 126 133 2,149	64 59 44 33 36 38 35 33 342	599 537 408 265 209 177 165 170 2,530	(S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1	0 (s) (s) (s) (s) (s) (s) (s)	9 8 9 9 10 9 9 72	11 10 10 10 11 11 11 11 84	610 546 418 275 220 187 176 181 2,614	374 348 353 346 366 411 443 446 3,087	781 706 714 707 843 919 948 941 6,560	1,766 1,600 1,485 1,329 1,429 1,517 1,567 1,568 12,261
2009 8-Month Total 2008 8-Month Total	41 46	2,144 2,182	405 443	2,591 2,672	1 (s)	11 10	(s) (s)	72 73	84 83	2,675 2,755	3,029 3,061	6,528 6,623	12,232 12,438

^a See "Primary Energy Consumption" in Glossary.

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of

section.

NA=Not available. - =No data reported. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

· The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/consump.html for all available data beginning in 1973.

Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

b Most data are estimates. See Table 10.2a for notes on series components

and estimation.

^o Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

Conventional hydroelectric power.

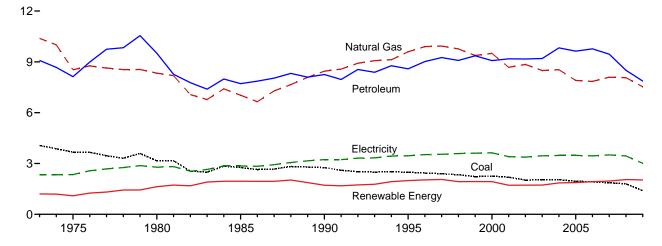
Electricity retail sales to ultimate customers reported by electric utilities and,

beginning in 1996, other energy service providers.

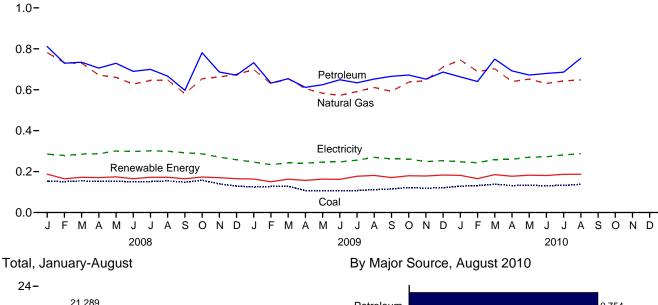
⁹ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

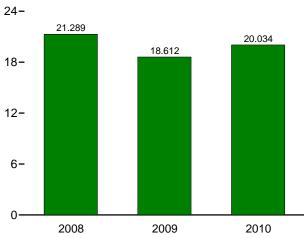
Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

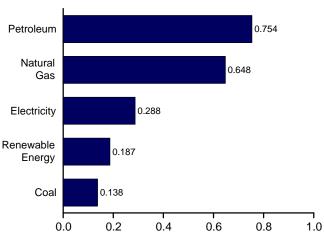
By Major Source, 1973-2009



By Major Source, Monthly







Web Page: http://www.eia.gov/emeu/mer/consump.html.

Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

				Prima	ry Consum	ption ^a						
		Fossil	Fuels			·	ole Energy ^b			_		
	Coal	Natural Gas ^c	Petro- leum ^d	Totale	Hydro- electric Power ^f	Geo- thermal	Bio- mass	Total	Total Primary	Electricity Retail Sales ⁹	Electrical System Energy Losses ^h	Total ^e
1973 Total 1975 Total	4,057 3,667	10,388 8,532	9,083 8,127	23,521 20,339	35 32	NA NA	1,165 1,063	1,200 1,096	24,720 21,434	2,341 2,346	5,571 5,647	32,632 29,427
1980 Total	3,155	8,333	9,509	20,962	33	NA	1,600	1,633	22,595	2,781	6,686	32,062
1985 Total 1990 Total	2,760 2,756	7,032 8,451	7,714 8,251	17,492 19,463	33 31	NA 2	1,918 1,684	1,951 1,717	19,443 21,180	2,855 3,226	6,554 7,461	28,852 31,867
1995 Total	2,488	9,592	8,586	20,727	55	3	1,934	1,992	22,719	3,455	7,844	34,018
1996 Total	2,434	9,901	9,019	21,377	61	3	1,969	2,033	23,410	3,527	8,018	34,955
1997 Total	2,395	9,933	9,255	21,629	58	3	1,996	2,057	23,686	3,542	8,024	35,253
1998 Total	2,335	9,763	9,082	21,248	55	3	1,872	1,929	23,177	3,587	8,131	34,894
1999 Total	2,227	9,375	9,356	21,016	49	4	1,882	1,934	22,950	3,611	8,254	34,815
2000 Total 2001 Total	2,256 2,192	9,500 8,676	9,075 9,178	20,896 20,075	42 33	4 5	1,881 1,681	1,928 1,719	22,824 21,794	3,631 3,400	8,256 7,569	34,711 32,763
2002 Total	2,019	8,845	9,168	20,093	39	5	1,676	1,720	21,813	3,379	7,529	32,721
2003 Total	2,041	8,488	9,197	19,777	43	3	1,679	1,726	21,503	3,454	7,620	32,577
2004 Total	2,047	8,536	9,825	20,545	33	4	1,817	1,853	22,398	3,473	7,682	33,553
2005 Total	1,954	7,903	9,633	19,534	32	4	1,837	1,873	21,407	3,477	7,602	32,487
2006 Total	1,914	7,846	9,770	19,591	29 16	4 5	1,897	1,930	21,521	3,451	7,459	32,431
2007 Total	1,865	8,090	9,451	19,431	16	5	1,944	1,964	21,395	3,507	7,562	32,464
2008 January	153	782	811	1,750	2	(s)	185	188	1,937	285	614	2,836
February	151	731	730	1,614	2	(s)	163	165	1,779	278	568	2,626
March	155	730	734	1,627	2	(s)	170	172	1,799	286	610	2,694
April	152	671	706	1,537	2	(s)	168	171	1,708	287	609	2,604
May	153	660	729	1,546	2	(s)	172	174	1,720	301	674	2,695
June July	150 152	627 645	690 699	1,476 1,502	1 1	(s) (s)	163 171	165 172	1,642 1,674	298 301	671 661	2,610 2,636
August	154	648	667	1,469	1	(s)	171	172	1,642	300	646	2,588
September	148	581	597	1,328	1	(s)	163	165	1,493	292	585	2,370
October	158	654	781	1,593	1	(s)	172	173	1,767	287	603	2,657
November	140	662	687	1,490	1	(s)	169	170	1,660	271	594	2,525
December	129	675	671	1,473	2	(s)	163	165	1,638	258	575 7 444	2,471
Total	1,796	8,067	8,501	18,405	17	5	2,031	2,053	20,458	3,444	7,411	31,312
2009 January	125	698	732	1,553	2	(s)	161	163	1,717	246	536	2,499
February	127	^R 629	633	^R 1,388	1	(s)	149	150	R 1,538	234	467	2,240
March	128	654	654	1,435	2	(s)	161	163	1,598	243	515	2,356
April	107	606	611	1,322	2	(s)	155	157	1,479	241	512	2,233
May June	107 107	583 572	624 649	1,312 1,326	2 2	(s) (s)	161 160	163 162	1,475 1,489	247 247	558 561	2,280 2,297
July	107	591	634	1,320	1	(s)	175	177	1,508	256	546	2,237
August	112	611	652	1,372	1	(s)	180	181	1,553	270	576	R 2,399
September	115	592	666	1,371	1	(s)	169	171	1,541	262	520	2,324
October	122	637	672	1,427	1	(s)	178	180	1,607	261	536	2,404
November	119 121	645 ^R 711	652 686	1,414	1 2	(s)	177	178	1,592 R 1,699	249 253	541 569	2,382 R 2,521
December Total	1,396	R 7,531	7,865	1,516 R 16,768	18	(s) 4	181 2,007	183 2,029	R 18,797	3,009	6,439	R 28,245
10141	1,000	7,001	1,000	10,700		•	2,007	2,023	10,737	3,003	0,400	20,240
2010 January	128	R 745	663	R 1,532	2	(s)	180	182	R 1,714	248	517	R 2,479
February	132	R 689	640	R 1,465	2	(s)	164	166	R 1,630	244	495	R 2,369
March	138	R 702	750 602	^R 1,592 ^R 1,465	2	(s)	183 175	185 177	R 1,777	259	524 530	^R 2,560 ^R 2,432
April May	132 133	^R 640 ^R 652	692 672	R 1,465	2 2	(s) (s)	175 180	177 182	^R 1,642 ^R 1,641	260 270	530 623	R 2,534
June	132	R 630	680	R 1,443	1	(s)	179	181	R 1,624	272	610	R 2,506
July	R 133	R 643	686	R 1,462	1	(s)	185	187	R 1,649	281	602	R 2,532
August	138	648	754	1,542	1	(s)	186	187	1,729	288	607	2,623
8-Month Total	1,065	5,350	5,536	11,958	12	` á	1,432	1,447	13,405	2,122	4,508	20,034
2009 8-Month Total 2008 8-Month Total	920 1,221	4,945 5,495	5,189 5,766	11,039 12,520	13 12	3 3	1,302 1,364	1,318 1,379	12,357 13,899	1,983 2,336	4,272 5,053	18,612 21,289

See "Primary Energy Consumption" in Glossary.

allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/consump.html for all available

data beginning in 1973.

Sources: Tables 1.4a, 1.4b, 2.6, 3.8b, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

b Most data are estimates. See Table 10.2b for notes on series components and estimation.

^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^d Does not include biofuels that have been blended with petroleum—biofuels

are included in "Biomass."

^e Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.

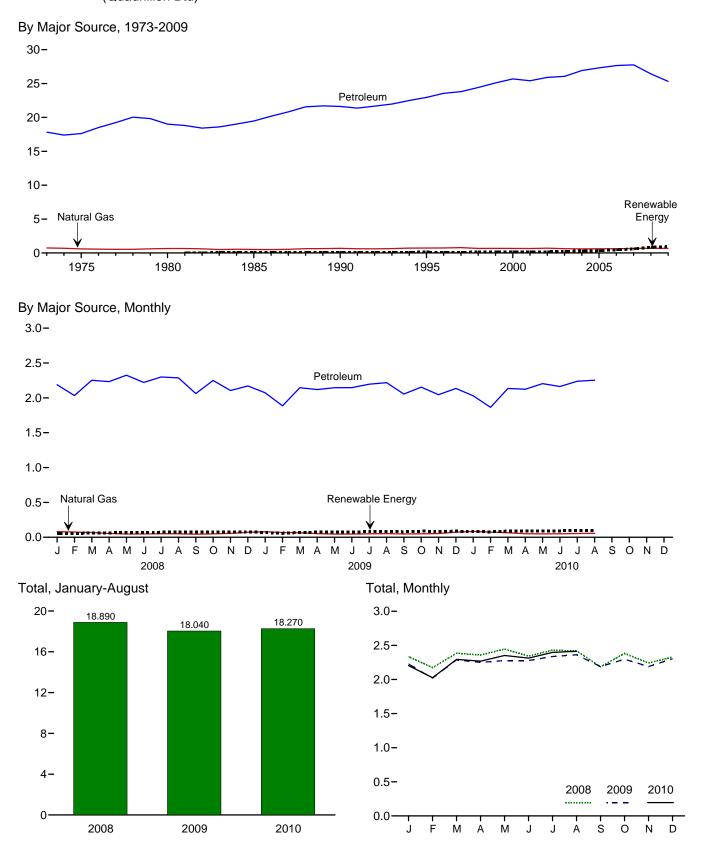
f Conventional hydroelectric power.

g Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^h Total losses are calculated as the primary energy consumed by the electric

power sector minus the energy content of electricity retail sales. Total losses are

Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)



Web Page: http://www.eia.gov/emeu/mer/consump.html. Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Cor	nsumption ^a					
		Fossi	l Fuels		Renewable Energy ^b	Tatal	Electricity	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Total Primary	Retail Sales ^e	Energy Losses ^f	Total
1973 Total 1975 Total	3 1	743 595	17,832 17,615	18,577 18,210	NA NA	18,577 18,210	11 10	25 24	18,613 18,245
1980 Total	(⁹)	650	19,009	19,659	NA	19,659	11	27	19,697
1985 Total	(g)	519	19,472	19,992	50	20,041	14	32	20,088
1990 Total	(g)	680	21,626	22,306	60	22,366	16	37	22,420
1995 Total	(g)	724	22,955	23,679	113	23,791	17	39	23,847
1996 Total	(g) (g)	737	23,565	24,302	81	24,383	17	38	24,438
1997 Total	(9)	780	23,813	24,593	102	24,695	17	38	24,750
1998 Total	(g)	666 675	24,422	25,088 25,774	113 118	25,201 25.891	17 17	38 40	25,256 25.949
1999 Total 2000 Total	(9)	672	25,098 25,682	25,774 26,354	135	25,891 26,489	17	40 42	25,949 26,549
2001 Total	(9)	658	25,412	26,354 26,070	142	26,213	20	43	26,276
2002 Total	(g)	702	25,913	26,614	170	26,784	19	42	26.845
2003 Total	\g'\	627	26,063	26.690	230	26,920	23	51	26,994
2004 Total	(g)	602	26,925	27,527	290	27.817	25	55	27.896
2005 Total	(9)	624	27,309	27,933	339	28,272	26	56	28,354
2006 Total	(g)	625	27,651	28,276	475	28,751	25	54	28,830
2007 Total	(g)	665	27,763	28,429	603	29,031	28	60	29,119
2008 January	(g)	82	2,188	2,270	57	2,327	2	5	2,335
February	(g)	75	2,034	2,108	58	2,167	2	5	2,174
March	(g) (g)	68	2,253	2,321	59	2,380	2	5	2,386
April	(9)	54	2,232	2,287	65	2,351	2	4	2,358
May	(9)	47 48	2,325 2,221	2,372 2,269	67 67	2,439 2,335	2 2	5 5	2,446 2,342
June July	(9)	51	2,221	2,269	73	2,333	2	5	2,342
August	(9)	50	2,299	2,337	75 75	2,423	2	5	2,430
September	(9)	44	2.062	2,105	75 75	2,412	2	4	2,413
October	(g)	49	2,250	2.298	78	2.376	2	5	2.383
November	(g)	56	2.105	2.161	74	2.235	2	5	2.242
December	(g)	72	2,171	2,243	78	2,321	2	5	2,328
Total	(g)	694	26,425	27,120	827	27,946	26	57	28,029
2009 January	(g)	80	2,073	2,154	67	2,221	3	6	2,229
February	(9)	69	1,886	1,955	58	2,013	2	4	R 2,019
March	(g)	R 64	2,145	2,210	70	2,279	2	5	2,286
April	(g) (g)	52	2,119	2,172	73	2,245	2	4	2,251
May	(9)	46 46	2,146 2.147	2,191 2,193	79 78	2,271 2.271	2 2	5 5	2,277 2,278
June July	(9)	46 50	2,147	2,193	76 83	2,271	2	5 5	2,276
August	(9)	52	2,197	2,271	85	2,355	2	5	2,362
September	(9)	47	2,055	2.103	80	2.183	2	4	2.189
October	(g)	50	2,153	2.203	88	2.291	2	4	2.297
November	(g)	53	2,045	2,099	85	2,184	2	4	2,190
December	(g)	73	2,135	2,209	87	2,296	2	5	2,304
Total	(g)	684	25,321	26,005	934	26,939	26	56	27,021
2010 January	(g)	84	2,029	2,113	84	2,197	2	5	2,205
February	(g)	R 74	1,864	1,939	79	2,018	2	5	R 2,025
March	(g)	65	2,135	2,200	89	R 2,288	2	4	2,295
April	(g)	51	2,123	2,175	88	2,263	2	4	2,269
May	(g) (g)	49 50	2,205	2,254	92 93	2,345 2.306	2 2	5 5	2,352
June	(9)	50 55	2,162 2.239	2,212 2.294	93 97	2,306 2.391	2	5 5	2,313 2.398
July August	(9)	55 57	2,239 2,254	2,294 2,310	97 96	2,391 2,406	2	5 4	2,398 2,413
8-Month Total	(g)	485	2,254 17,012	2,310 17,497	718	2,406 18,215	18	38	2,413 18,270
2009 8-Month Total	(g)	460	16,931	17,391	594	17,985	18	38	18.040
2008 8-Month Total	(g)	475	17,838	18,313	521	18,834	18	38	18,890

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available.

Notes: • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.
Web Page: See http://www.eia.gov/emeu/mer/consump.html for all available data beginning in 1973.

Sources: Tables 2.6, 3.8c, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

a See "Primary Energy Consumption" in Glossary.
 b Data are estimates. See Table 10.2b for notes on series components.
 c Natural gas only; does not include supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 d Does not include biofuels that have been blended with petroleum—biofuels

are included in "Biomass."

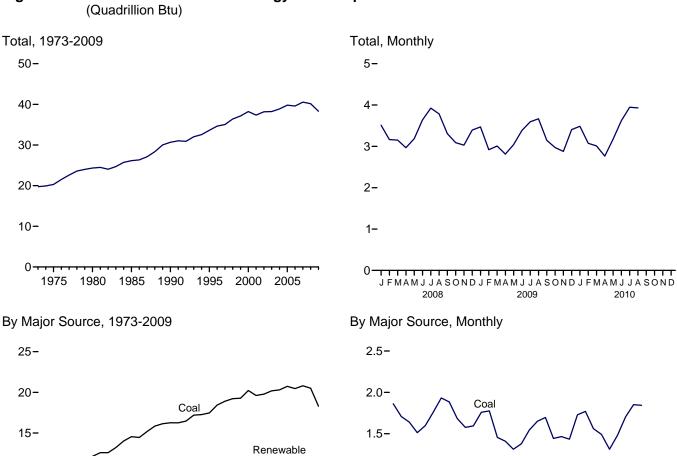
^e Electricity retail sales to ultimate customers reported by electric utilities and,

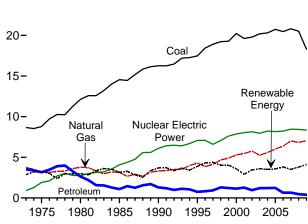
beginning in 1996, other energy service providers.

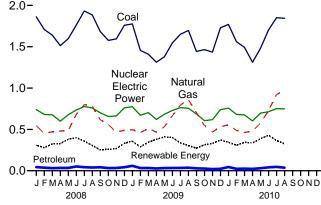
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

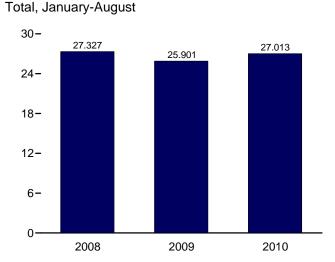
g Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

Figure 2.6 Electric Power Sector Energy Consumption
(Quadrillion Btu)

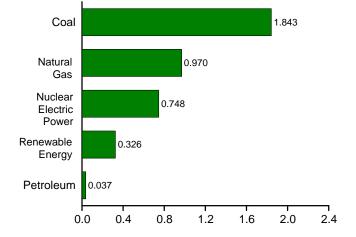








By Major Source, August 2010



Web Page: http://www.eia.gov/emeu/mer/consump.html.

Source: Table 2.6.

Table 2.6 **Electric Power Sector Energy Consumption**

(Trillion Btu)

						Prima	ry Consum	ptiona					
		Fossil	Fuels	1			ı	Renewabl	e Energy ^b	.	Γ	Elec-	
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	tricity Net Imports	Total Primary
1973 Total		3,748	3,515	15,921	910	2,827	43	NA	NA	3	2,873	49	19,753
1975 Total		3,240	3,166	15,191	1,900	3,122	70	NA	NA	2	3,194	21	20,307
1980 Total		3,778	2,634	18,534	2,739	2,867	110	NA (NA .	4	2,982	71	24,327
1985 Total		3,135 3,309	1,090 1,289	18,767 20,859	4,076 6,104	2,937 3,014	198 326	<u>(s)</u> 4	<u>(s)</u> 29	<u>14</u> 317	3,150 3,689	140 8	26,132 30,660
1990 Total ^e 1995 Total		4,302	755	22,523	7,075	3,149	280	5	33	422	3,889	134	33,621
1996 Total		3,862	817	23,109	7,087	3,528	300	5	33	438	4,305	137	34,638
1997 Total		4,126	927	23,957	6,597	3,581	309	5	34	446	4,375	116	35,045
1998 Total		4,675	1,306	25,197	7,068	3,241	311	5	31	444	4,032	88	36,385
1999 Total		4,902	1,211	25,393	7,610	3,218	312	5	46	453	4,034	99	37,136
2000 Total		5,293	1,144	26,658	7,862	2,768	296	5	57	453	3,579	115	38,214
2001 Total		5,458 5,767	1,277	26,348	8,029	2,209 2,650	289 305	6	70 105	337 380	2,910 3,445	75 72	37,362
2002 Total 2003 Total		5,767 5,246	961 1,205	26,511 26,636	8,145 7,959	2,781	303	6 5	115	397	3,601	22	38,173 38,218
2004 Total		5,595	1,212	27,112	8,222	2,656	311	6	142	388	3,503	39	38,876
2005 Total		6,015	1,235	27,986	8,161	2,670	309	6	178	406	3,568	84	39,800
2006 Total	20,462	6,375	648	27,485	8,215	2,839	306	5	264	412	3,827	63	39,590
2007 Total	20,808	7,005	657	28,470	8,455	2,430	308	6	341	423	3,508	107	40,540
2008 January	1,862	546	44	2,452	739	203	26	(s)	42	37	308	11	3,510
February	1,708	450	37	2,194	681	184	23	(s)	38	35	279	10	3,165
March	1,640	472	31	2,144	676	212	26	1	47	38	324	7	3,151
April	1,513	481	34	2,028	599	217	26	1	51	34	330	9	2,966
May	1,598 1,761	487 681	35 52	2,119 2,494	678 735	267 286	27 27	1	53 51	34 36	381 401	8 9	3,185 3,639
June July	1,761	801	43	2,494	733 777	251	27	1	39	39	357	15	3,925
August	1,884	781	39	2,704	759	208	27	i	32	38	307	15	3,785
September	1,683	616	42	2,342	701	158	26	1	31	36	252	10	3,305
October	1,577	558	33	2,167	657	151	27	1	47	35	261	6	3,090
November	1,594	468	34	2,096	663	153	26	(s)	49	36	265	4	3,029
December Total	1,760 20,513	488 6,829	44 468	2,291 27,810	762 8,427	204 2,494	27 314	(s) 9	65 546	38 435	334 3,798	7 112	3,394 40,147
	•			·	•	•		(a)			•		•
2009 January	1,776 1,455	496 462	60 33	2,332 1,950	775 671	233 175	28 25	(s) (s)	59 56	36 33	356 289	7 8	3,470 2,919
March	1,409	512	34	1,955	703	212	28	1	68	37	346	4	3,008
April	1,313	466	28	1,807	621	249	25	1	72	33	379	6	2,813
May	1,378	531	32	1,942	683	288	26	1	60	34	409	9	3,044
June	1,546	664	33	2,243	729	285	26	1	53	37	402	11	3,385
July	1,651	797	34	2,482	763	225	27	1	46	37	336	14	3,594
August	1,697 1,443	859 703	37 29	2,593 2,176	755 686	188 169	27 26	1	52 43	38 34	305 273	15 11	3,668 3,145
September October	1,443	703 547	29 26	2,176	606	192	27	1	62	33	315	12	2,971
November	1,434	468	20	1,922	617	205	27	(s)	63	35	330	9	2,879
December	1,729	532	24	2,285	739	242	28	(s)	62	39	371	11	3,407
Total	18,296	7,038	390	25,724	8,349	2,663	320	8	697	426	4,113	117	38,304
2010 January	1,770	555	45	2,370	758	216	28	(s)	63	37	344	14	3,486
February	1,561	488	23	2,073	682	200	25	(s)	50	33	308	12	3,075
March	1,493	462	25	1,980	676	201	26	1	81	37	345	10	3,011
April	1,312 1,481	482 575	23 31	1,817 2,088	602 697	181 243	26 27	1	94 83	35 34	336 388	9 4	2,765 3,177
May June	1,703	727	41	2,066 2,471	714	243 287	27 27	1	63 77	34 36	300 428	8	3,177
July	1,765	922	47	2,820	752	236	27	i	64	37	365	10	3,946
August	1,843	970	37	2,851	748	193	28	2	65	38	326	6	3,931
8-Month Total		5,183	273	18,470	5,629	1,756	215	7	577	285	2,841	74	27,013
2009 8-Month Total 2008 8-Month Total		4,787 4,697	291 315	17,302 18,911	5,700 5,645	1,854 1,827	211 208	6 7	467 354	286 291	2,824 2,686	75 85	25,901 27,327

^a See "Primary Energy Consumption" in Glossary.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity and useful thermal

output. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/consump.html for all available data beginning in 1973.

Sources: Tables 3.8c, 4.3, 6.2, 7.1, 7.2b, 10.2c, A4, A5, and A6.

b See Table 10.2c for notes on series components.

c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^d Conventional hydroelectric power.

^e Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

Energy Consumption by Sector

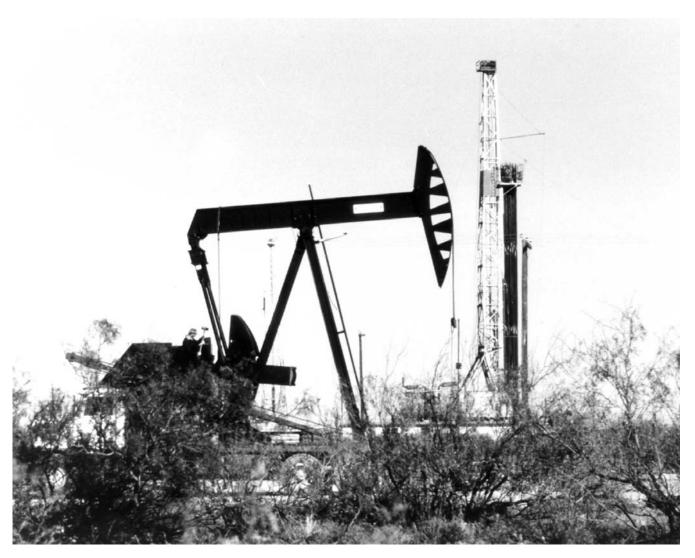
Note 1. Energy Consumption Data and Surveys. Most of the data in this section of the *Monthly Energy Review (MER)* are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the U.S. Energy Information Administration (EIA). Supply surveys are directed to suppliers and marketers of specific energy sources. They measure the quantities of specific energy sources produced, or the quantities supplied to the market, or both. The data obtained from EIA's supply surveys are integrated to yield the summary consumption statistics published in this section (and in Section 1) of the MER.

Users of EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be associated with energy use. For example, the Manufacturing Energy Consumption Survey belongs to the consumption survey group because it collects information directly from end users (the manufacturing establishments). There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For information on

those differences, see *Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys*, DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

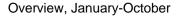
Note 2. Electrical System Energy Losses. Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity retail sales (see Tables 7.6 and A6). Most of these losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steamelectric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring those thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to enduse consumers (also called "line losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, about two thirds of total energy input is lost in conversion. Currently, of electricity generated, approximately 5 percent is lost in plant use and 7 percent is lost in transmission and distribution.

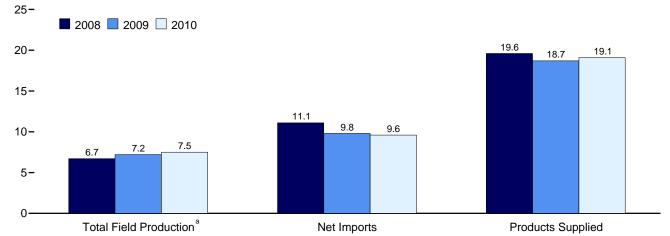
Petroleum



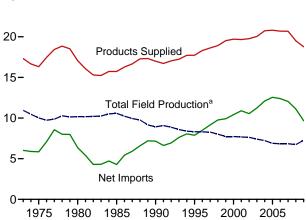
Oil pumping unit and drilling rig, Texas. Source: U.S. Department of Energy.

Figure 3.1 Petroleum Overview (Million Barrels per Day)

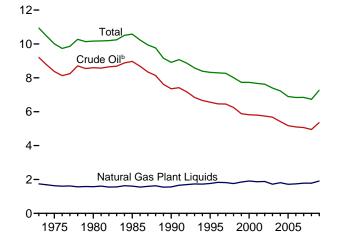




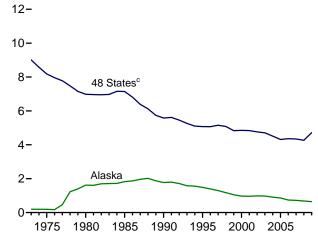
Overview, 1973-2009 25-



Total Field Production, 1973-2009

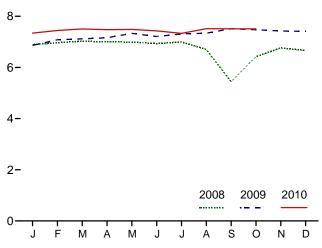


Crude Oil^b Field Production, 1973-2009



^aCrude oil, including lease condensate, and natural gas plant liquids field production.

Total Field Production,^a Monthly



^cUnited States excluding Alaska and Hawaii. Web Page: http://www.eia.gov/emeu/mer/petro.html. Source: Table 3.1.

^bIncludes lease condensate.

Table 3.1 **Petroleum Overview**

		Fie	eld Produc	tiona					Trade				
		Crude Oil	b			Renew- able	Barrass						Detrole:
	48 States ^c	Alaska	Total	NGPL ^{d,e}	Total	Fuels and Oxy- genates ^f	Process- ing Gain ^g	lm- ports ^h	Ex- ports ^e	Net Imports ⁱ	Stock Change ^j	Adjust- ments ^k	Petroleum Products Supplied
1973 Average	9,010 8,183 6,980 7,146 5,582 5,076 5,071 5,156 5,077 4,832 4,851 4,761 4,706 4,510 4,314 4,361 4,342	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 1,050 970 963 984 974 908 864 741	9,208 8,375 8,597 8,971 7,355 6,560 6,465 6,452 5,881 5,822 5,801 5,746 5,681 5,419 5,178 5,102 5,064	1,738 1,633 1,573 1,609 1,559 1,762 1,830 1,817 1,759 1,850 1,911 1,868 1,719 1,809 1,717 1,739 1,739	10,946 10,007 10,170 10,581 8,914 8,322 8,269 8,011 7,731 7,670 7,626 7,400 7,228 6,895 6,841 6,847	NA NA NA NA NA NA NA NA NA NA NA NA	453 460 597 557 683 774 837 850 886 886 948 903 957 974 1,051 989 994	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 11,459 11,871 11,530 12,264 13,714 13,707 13,468	231 209 544 781 857 949 981 1,003 945 940 1,040 971 984 1,027 1,048 1,165 1,317 1,433	6,025 5,846 6,365 4,286 7,161 7,886 8,498 9,764 9,912 10,419 10,900 10,546 11,238 12,097 12,549 12,390 12,036	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 -105 56 209 145 60 -148	18 41 64 200 338 496 528 487 495 567 532 501 527 478 563 513 522 653	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519 19,701 19,649 19,761 20,034 20,731 20,802 20,687 20,680
2008 January February March April May June July August September October November December Average	4,416 4,417 4,443 4,493 4,349 3,249	711 706 726 701 685 640 544 681 716 728 702 683	5,100 5,122 5,151 5,117 5,102 5,098 5,133 4,894 3,930 4,669 5,024 5,056 4,950	1,791 1,845 1,875 1,885 1,885 1,861 1,861 1,815 1,514 1,749 1,740 1,607 1,784	6,891 6,967 7,026 7,002 6,987 6,934 6,708 5,444 6,418 6,764 6,663 6,734	NA NA NA NA NA NA NA NA NA NA NA	1,071 962 929 938 1,067 1,014 1,031 1,044 865 1,016 1,000 970	13,568 12,660 12,598 13,331 12,902 13,398 13,124 13,118 11,562 13,202 12,881 12,607 12,915	1,620 1,848 1,807 1,739 1,793 2,146 2,051 2,053 1,323 1,658 1,720 1,856 1,802	11,949 10,812 10,791 11,593 11,109 11,252 11,073 11,064 10,239 11,545 11,160 10,751 11,114	361 -446 -287 389 248 397 390 403 -206 213 700 152 195	699 841 799 672 883 875 849 859 1,084 932 827 910	20,247 20,029 19,831 19,815 19,678 19,678 19,557 19,272 17,839 19,698 19,052 19,142 19,498
2009 January February March April May June July August September October November December Average	4,475 4,552 4,518 4,621 4,701 4,711 4,851 4,846 4,895 4,842 4,765 4,796 4,715	679 708 709 653 678 571 551 572 652 658 662 655 645	5,154 5,260 5,227 5,273 5,379 5,281 5,402 5,418 5,547 5,501 5,427 5,451 5,361	1,711 1,824 1,891 1,888 1,954 1,927 1,908 1,920 1,962 1,976 1,996 1,959 1,910	6,865 7,083 7,118 7,161 7,333 7,208 7,310 7,337 7,509 7,477 7,423 7,411 7,270	663 686 684 681 714 741 773 783 771 785 833 838 746	950 931 912 982 974 1,038 986 1,003 1,027 961 945 1,030 979	13,127 12,095 12,446 11,962 11,477 11,936 11,830 11,183 11,756 10,878 11,105 10,534 11,691	1,922 1,808 1,838 1,900 2,015 1,963 2,348 2,119 2,105 2,223 2,029 1,996 2,024	11,205 10,287 10,609 10,061 9,461 9,973 9,482 9,064 9,651 8,655 9,076 8,538 9,667	933 394 839 445 488 441 180 -525 488 -748 -374 -1,213	290 229 236 231 217 308 256 238 124 177 103 208 218	19,040 18,822 18,719 18,672 18,211 18,828 18,626 18,949 18,594 18,803 18,753 19,237 18,771
2010 January February March April May June July August September October 10-Month Average	E 4,830 E 4,856 E 4,856 E 4,899 E 4,933 E 4,861 RE 4,968	E 640 E 635 E 646 E 640 E 569 E 533 E 545 RE 538 E 614 E 616 E 597	E 5,433 E 5,465 E 5,502 E 5,496 E 5,468 E 5,465 E 5,406 RE 5,506 E 5,555 E 5,554 E 5,485	1,910 1,979 2,003 1,980 2,019 1,965 RE 2,007 E 1,956 E 1,953 E 1,970	E 7,343 E 7,444 E 7,505 E 7,475 E 7,486 E 7,430 E 7,333 RE 7,513 E 7,511 E 7,507 E 7,455	838 857 889 864 893 905 906 RE 911 E 875 E 936 E 888	932 1,065 1,064 1,025 1,066 1,074 1,129 RE 1,097 E 1,038 E 992 E 1,048	11,236 11,148 11,588 12,508 12,100 12,339 12,602 RE 12,341 E 11,498 E 11,086 E 11,849	1,883 2,012 2,108 2,389 2,369 2,273 2,479 RE 2,368 E 2,181 E 2,187 E 2,226	9,352 9,136 9,480 10,119 9,731 10,066 10,123 RE 9,973 E 9,318 E 8,899 E 9,622	172 -100 24 831 617 507 446 RE 155 E -161 E -530 E 197	234 258 157 259 267 345 233 RE 353 E 345 E 86 E 253	18,528 18,860 19,070 18,910 18,827 19,314 19,278 RE 19,692 E 18,951 E 19,069
2009 10-Month Average 2008 10-Month Average	4,702 4,256	643 676	5,345 4,932	1,896 1,806	7,241 6,738	728 NA	977 995	11,866 12,950	2,026 1,804	9,840 11,146	291 150	231 849	18,726 19,578

^a Crude oil production on leases, and natural gas liquids (liquefied petroleum gases, pentanes plus, and a small amount of finished petroleum products) production at natural gas processing plants. Excludes what was previously classified as "Field Production" of finished motor gasoline, motor gasoline blending Components, and other hydrocarbons and oxygenates; these are now included in "Adjustments."

Includes lease condensate.

distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also

http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: EIA, Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

^c United States excluding Alaska and Hawaii.

Natural gas plant liquids.
See Note 6, "Petroleum Data Discrepancies," at end of section.

Renewable fuels and oxygenate plant net production.

^g Refinery and blender net production minus refinery and blender net inputs. See Table 3.2.

Includes Strategic Petroleum Reserve imports. See Table 3.3b.

Net imports equal imports minus exports.

j A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table 3.4. Includes crude oil stocks in the Strategic Petroleum Reserve, but excludes

distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also see Note 4, "Petroleum New Stock Basis," at end of section.

k An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See U.S. Energy Information Administration (EIA), Petroleum Supply Monthly, Appendix B, "PSM Explanatory Notes," for further information.

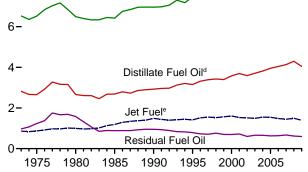
R=Revised. E=Estimate. NA=Not available.

Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

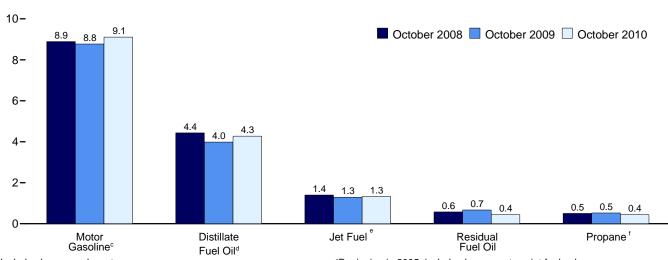
Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/emeu/mer/petroleum/info glance/petroleum.html.

Figure 3.2 Refinery and Blender Net Inputs and Net Production (Million Barrels per Day)

Net Inputs and Net Production, 1973-2009 Net Inputs and Net Production, Monthly 25-20-**Total Net Production** 20-**Total Net Production** 15-Total Crude Oil Net Inputs^a Net 10-Crude Oil Net Inputs⁶ Inputs 10-5-5-Other Net Inputs^b Other Net Inputs^b J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D 1975 1980 1985 1990 1995 2000 2005 Net Production, Selected Products, 1973-2009 Net Production, Selected Products, Monthly 10-10-Motor Gasoline^c 8-Motor Gasoline 6-



Net Production, Selected Products



^aIncludes lease condensate.

Total

Net Inputs

2009

Distillate Fuel Oild

Residual Fuel Oil

Jet Fuele

2008

^bNatural gas plant liquids and other liquids.

^cBeginning in 1993, includes fuel ethanol blended into motor gasoline. ^dBeginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^eBeginning in 2005, includes kerosene-type jet fuel only. fincludes propylene.

Web Page: http://www.eia.gov/emeu/mer/petro.html. Source: Table 3.2.

Table 3.2 Refinery and Blender Net Inputs and Net Production

	Refine	ery and Ble	nder Net Ir	nputsa		-	Refinery	and Blen	der Net Prod	ductionb		
							LPG	С				
	Crude Oil ^d	NGPLe	Other Liquids ^f	Total	Distillate Fuel Oil	Jet Fuel ^h	Propane ⁱ	Total	Motor Gasoline ^j	Residual Fuel Oil	Other Products ^k	Total
1973 Average	12.431	815	155	13,401	2,820	859	271	375	6.527	971	2,301	13.854
1975 Average		710	72	13,225	2,653	871	234	311	6,518	1,235	2,097	13,685
1980 Average	13,481	462	81	14,025	2,661	999	269	330	6,492	1,580	2,559	14,622
1985 Average	12,002	509	681	13,192	2,686	1,189	295	391	6,419	882	2,183	13,750
1990 Average		467	713	14,589	2,925	1,488	404	499	6,959	950	2,452	15,272
1995 Average		471	775	15,220	3,155	1,416	503	654	7,459	788	2,522	15,994
1996 Average	14,195	450	843	15,487	3,316	1,515	520	662	7,565	726	2,541	16,324
1997 Average	14,662	416	832	15,909	3,392	1,554	565	691	7,743	708	2,671	16,759
1998 Average	14,889	403	853	16,144	3,424	1,526	550	674	7,892	762	2,753	17,030
1999 Average	14,804	372	927	16,103	3,399	1,565	569	684	7,934	698	2,709	16,989
2000 Average	15,067	380	849	16,295	3,580	1,606	583	705	7,951	696	2,705	17,243
2001 Average	15,128	429 429	825 941	16,382	3,695	1,530	556 572	667 671	8,022 8.183	721 601	2,651	17,285
2002 Average	14,947 15,304	429 419	791	16,316	3,592 3,707	1,514 1.488	572 570	658	8,194	660	2,712 2,780	17,273 17.487
2003 Average	15,475	422	866	16,513 16,762	3,814	1,547	584	645	8,265	655	2,780	17,467
2004 Average 2005 Average	15,220	441	1,149	16,811	3,954	1,546	540	573	8,318	628	2,782	17,814
2006 Average	15,242	501	1,238	16,981	4,040	1,481	543	627	8,364	635	2,827	17,975
2007 Average		505	1,337	16,999	4,133	1,448	562	655	8,358	673	2,728	17,994
2008 January	14,804	540	1,414	16,758	4,130	1,535	569	478	8,516	588	2,582	17,829
February	14,625	502	1,538	16,665	3,980	1,467	535	507	8,495	643	2,536	17,627
March	14,364	461	1,901	16,727	3,953	1,475	526	676	8,373	662	2,518	17,656
April		449	2,279	17,527	4,287	1,492	520	809	8,560	710	2,607	18,465
May		445	2,211	17,919	4,459	1,558	546	878	8,700	734	2,658	18,986
June	15,417 15,255	435 439	2,183 2,144	18,036 17,838	4,587 4,523	1,605 1,647	544 534	867 837	8,564 8,523	695 584	2,731 2,754	19,050 18,869
July	14.947	413	2,144	17,636	4,323	1,647	526	814	8,523	579	2,754	18.641
August September	12,759	409	2,230	15,208	3,681	1,312	420	513	7,855	485	2,227	16,073
October	14,552	563	2,162	17,277	4,435	1,401	503	460	8,889	575	2,533	18,293
November	14,606	576	1,925	17,107	4,489	1,425	515	369	8,722	588	2,516	18,108
December	14,352	589	2,178	17,119	4,511	1,383	489	341	8,850	597	2,406	18,089
Average	14,648	485	2,019	17,153	4,294	1,493	519	630	8,548	620	2,561	18,146
2009 January	14,146	552	1,777	16,476	4,284	1,409	479	383	8,445	585	2,321	17,426
February	14,134	493 447	1,883	16,509	4,231	1,391	483 519	471	8,408	571	2,367	17,440
March	14,118 14.382	447 416	2,089	16,654	3,939	1,373 1.432	519 542	618 782	8,646	583 475	2,407	17,566 18.044
April	14,382	432	2,264 2,266	17,062 17,181	4,132 4,093	1,432	542 554	762 798	8,724 8,793	475 605	2,499 2,488	18,155
May June	14,463	429	2,323	17,101	4,047	1,404	566	847	9,068	613	2,466	18,641
July	14.636	437	2,279	17,352	3.929	1,515	554	809	8.952	586	2,546	18.337
August	14,593	404	2,218	17,214	3,965	1,389	554	838	8,856	631	2,537	18,218
September	14,710	482	1,825	17,018	4,099	1,396	559	624	8,829	604	2,493	18,045
October	14.095	545	1.933	16.573	3.984	1.291	527	476	8.770	672	2.341	17.535
November	13,898	609	2,051	16,558	4,018	1,311	550	379	8,905	624	2,264	17,502
December	13,983	580	2,066	16,629	3,877	1,465	554	442	9,006	624	2,246	17,660
Average	14,336	485	2,082	16,904	4,048	1,396	537	623	8,786	598	2,431	17,882
2010 January	13,671	497	1,482	15,650	3,563	1,339	529	465	8,327	625	2,262	16,581
February		405 397	1,623	15,995	3,670	1,343	562	535	8,489	630 576	2,392	17,060
March			2,161	16,860 17,607	3,833	1,377	575 585	710 841	8,910	576	2,519	17,925
April		363	2,123	17,607	4,152	1,468	585 567		9,053	593	2,525	18,631
May	15,219 15.389	385 384	2,282 2.305	17,886 18,078	4,375 4.416	1,449 1.495	567 572	840 856	9,059 9.165	611 556	2,618 2.665	18,952 19.152
June	- ,	364 373	2,305	18,461	4,416	1,495	572 574	859	9,165	570	2,665	19,152
July August	D	R 384	R 2,618	R 18,112	R 4,404	R 1,463	R 552	R 772	⁸ ,493	R 551	R 2,603	R 19,208
September		F 437	RE 2,316	RF 17,484	E 4,280	E 1,396	RE 477	F 597	E 9,042	E 502	RE 2,705	RE 18,522
October		F 520	E 2,468	F 16,978	E 4,275	E 1,327	E 438	F 468	E 9.108	E 441	E 2,351	E 17.970
10-Month Average		E 415	E 2,200	E 17,320	E 4,143	E 1,420	E 543	E 695	E 9,011	E 565	E 2,534	E 18,368
2009 10-Month Average		464 466	2,087	16,966 17 161	4,068 4,253	1,398 1,511	534 523	666 685	8,751 8 500	593 625	2,466 2,581	17,943 18 155
2008 10-Month Average	14,683	466	2,012	17,161	4,253	1,511	523	685	8,500	625	2,581	18,155

See "Refinery and Blender Net Inputs," in Glossary.

R=Revised. E=Estimate. F=Forecast. Totals may not equal sum of components due to independent Notes: •

Notes: • Totals may not equal sum of compositions and the District of Columbia.

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/emeu/mer/petro.html. • For related information, see

http://www.eia.gov/eine/mei/petroleum/info_glance/petroleum.html.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

b See "Refinery and Blender Net Production," in Glossary.

Liquefied petroleum gases. Includes lease condensate.

Natural gas plant liquids (liquefied petroleum gases and pentanes plus).

f Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981, also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes oxygenates (net), including fuel ethanol. Beginning in 2009,

also includes renewable diesel fuel (including tidel entariol. Beginning in 2009, also includes renewable diesel fuel (including biodiesel).

⁹ Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in

^{2005,} includes kerosene-type jet fuel only; naphtha-type jet fuel is included in 'Other Products."

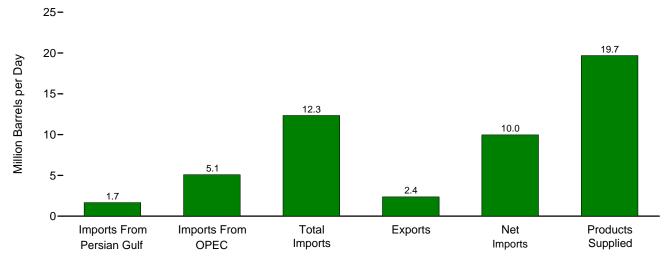
Includes propylene.

Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

^k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel.

Figure 3.3a Petroleum Trade: Overview

Overview, August 2010



60-

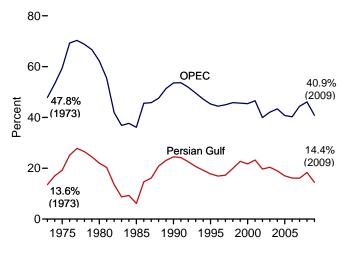
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Imports From OPEC and Persian Gulf as Share of Total Imports, 1973-2009

Imports From OPEC and Persian Gulf as Share of Total Imports, January-August

OPEC Persian Gulf



40-40-40-40-40.5 41.8 41.8 20-18.7 14.6 14.7

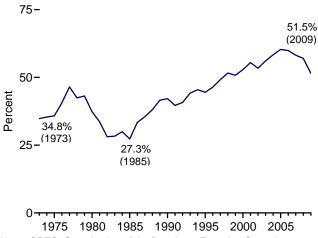
2009

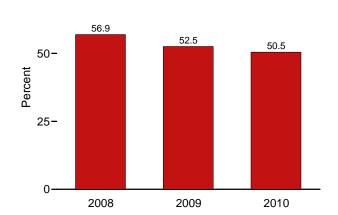
2010

Net Imports as Share of Products Supplied, 1973-2009

Net Imports as Share of Products Supplied, January-October

2008





Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/emeu/mer/petro.html.

Source: Table 3.3a.

Table 3.3a Petroleum Trade: Overview

										are of Supplied			hare of Imports
		Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^b
				Thousand Ba	arrels per Day	/				Pei	rcent		
1973 Average		848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1975 Average		1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
1980 Average		1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
1985 Average		311	1,830	5,067	781	4,286	15,726	2.0	11.6 25.3	32.2 47.2	27.3	6.1	36.1
1990 Average 1995 Average		1,966 1,573	4,296 4,002	8,018 8,835	857 949	7,161 7,886	16,988 17,725	11.6 8.9	25.3 22.6	47.2 49.8	42.2 44.5	24.5 17.8	53.6 45.3
1996 Average		1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
1997 Average		1,755	4,569	10,162	1,003	9,158	18,620	9.4	24.5	54.6	49.2	17.3	45.0
1998 Average		2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
1999 Average		2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
2000 Average		2,488	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
2001 Average		2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
2002 Average		2,269 2,501	4,605 5,162	11,530 12,264	984 1,027	10,546 11,238	19,761 20,034	11.5 12.5	23.3 25.8	58.3 61.2	53.4 56.1	19.7 20.4	39.9 42.1
2003 Average 2004 Average		2,493	5,701	13,145	1,027	12,097	20,034	12.0	27.5	63.4	58.4	19.0	43.4
2005 Average		2,334	5,587	13,714	1,165	12,549	20,802	11.2	26.9	65.9	60.3	17.0	40.7
2006 Average		2,211	5,517	13,707	1,317	12,390	20,687	10.7	26.7	66.3	59.9	16.1	40.2
2007 Average		2,163	5,980	13,468	1,433	12,036	20,680	10.5	28.9	65.1	58.2	16.1	44.4
2008 January		2,307	6,415	13,568	1,620	11,949	20,247	11.4	31.7	67.0	59.0	17.0	47.3
February		2,663	5,834	12,660	1,848	10,812	20,029	13.3	29.1	63.2	54.0	21.0	46.1
March		2,518	5,934	12,598	1,807	10,791	19,831	12.7	29.9	63.5	54.4	20.0	47.1
April May		2,323 2,450	6,262 5,931	13,331 12,902	1,739 1,793	11,593 11,109	19,815 19,798	11.7 12.4	31.6 30.0	67.3 65.2	58.5 56.1	17.4 19.0	47.0 46.0
June		2,363	6,054	13,398	2,146	11,103	19,678	12.4	30.8	68.1	57.2	17.6	45.2
July		2,507	6,125	13,124	2,051	11,073	19,557	12.8	31.3	67.1	56.6	19.1	46.7
August		2,438	6,391	13,118	2,053	11,064	19,272	12.7	33.2	68.1	57.4	18.6	48.7
September		2,086	5,127	11,562	1,323	10,239	17,839	11.7	28.7	64.8	57.4	18.0	44.3
October		2,304	5,875	13,202	1,658	11,545	19,698	11.7	29.8	67.0	58.6	17.5	44.5
November		2,283	5,799	12,881	1,720	11,160	19,052	12.0	30.4	67.6	58.6	17.7	45.0
December Average		2,208 2,370	5,679 5,954	12,607 12,915	1,856 1,802	10,751 11,114	19,142 19,498	11.5 12.2	29.7 30.5	65.9 66.2	56.2 57.0	17.5 18.4	45.0 46.1
2009 January		2,218	5,689	13,127	1,922	11,205	19,040	11.6	29.9	68.9	58.9	16.9	43.3
February		1,974	4,958	12,095	1,808	10,287	18,822	10.5	26.3	64.3	54.7	16.3	41.0
March		1,823	5,212	12,446	1,838	10,609	18,719	9.7	27.8	66.5	56.7	14.6	41.9
April		1,735	4,803	11,962	1,900	10,061	18,672	9.3	25.7	64.1	53.9	14.5	40.2
May		1,548	4,372	11,477	2,015	9,461	18,211	8.5	24.0	63.0	52.0	13.5	38.1
June		1,602	4,825 4,554	11,936	1,963	9,973 9,482	18,828 18,626	8.5 9.3	25.6 24.4	63.4 63.5	53.0 50.9	13.4 14.6	40.4 38.5
July August		1,730 1,428	4,534	11,830 11,183	2,348 2,119	9,462	18,949	7.5	23.9	59.0	47.8	12.8	40.5
September		1,718	5,052	11,756	2,105	9,651	18,594	9.2	27.2	63.2	51.9	14.6	43.0
October		1,545	4,581	10,878	2,223	8,655	18,803	8.2	24.4	57.9	46.0	14.2	42.1
November		1,606	4,585	11,105	2,029	9,076	18,753	8.6	24.5	59.2	48.4	14.5	41.3
December		1,362	4,171	10,534	1,996	8,538	19,237	7.1	21.7	54.8	44.4	12.9	39.6
Average		1,689	4,776	11,691	2,024	9,667	18,771	9.0	25.4	62.3	51.5	14.4	40.9
2010 January		1,546	4,503	11,236	1,883	9,352	18,528	8.3	24.3	60.6	50.5	13.8	40.1
February		1,666	4,587	11,148	2,012	9,136	18,860	8.8	24.3	59.1	48.4	14.9	41.1
March		1,842 2,026	5,068 5,414	11,588 12,508	2,108 2,389	9,480 10,119	19,070 18,910	9.7	26.6 28.6	60.8 66.1	49.7 53.5	15.9 16.2	43.7 43.3
April May		2,026 1,724	5,414	12,508	2,369	9,731	18,827	10.7 9.2	26.6 26.7	64.3	53.5 51.7	14.3	43.3 41.5
June		1,724	5,263	12,100	2,309	10,066	19,314	10.2	27.2	63.9	52.1	16.0	42.7
July		1,679	5,144	12,602	2.479	10,123	19,278	8.7	26.7	65.4	52.5	13.3	40.8
August		R 1,663	R 5,083	R 12,341	^R 2,368	R 9,973	R 19,692	R 8.4	R 25.8	R 62.7	^R 50.6	^R 13.5	^R 41.2
September		NA	NA	E 11,498	E 2,181	E 9,318	E 19,248	NA	NA	E 59.7	E 48.4	NA	NA
October 10-Month Av		NA NA	NA NA	E 11,086 E 11,849	E 2,187 E 2,226	E 8,899 E 9,622	E 18,951 E 19,069	NA NA	NA NA	E 58.5 E 62.1	E 47.0 E 50.5	NA NA	NA NA
	•				•	•							
2009 10-Month Av 2008 10-Month Av		1,730 2,395	4,856 5,998	11,866 12,950	2,026 1,804	9,840 11,146	18,726 19,578	9.2 12.2	25.9 30.6	63.4 66.1	52.5 56.9	14.6 18.5	40.9 46.3

 ^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary.

See Table 3.3c for notes on which countries are included in the data.

R=Revised. E=Estimate. NA=Not available.

Notes: • Readers of this table may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 Monthly Energy Review. See http://www.eia.gov/emeu/mer/pdf/pages/imported_oil.pdf. Beginning in October 1977, data include Strategic Petroleum Reserve imports. See Table 3.3b. • Annual averages may not equal average of months due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports

include receipts from U.S. territories.

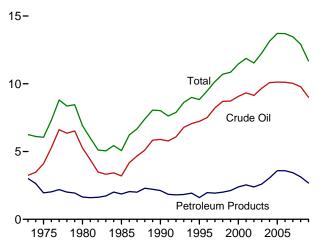
Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/emeu/mer/petro.html. For related information,

http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

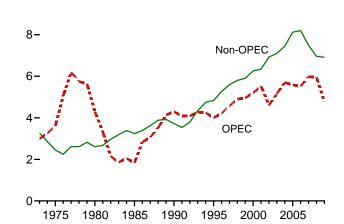
Figure 3.3b Petroleum Trade: Imports (Million Barrels per Day)



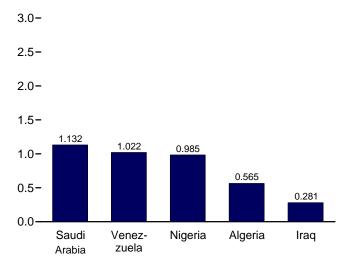


OPEC and Non-OPEC, 1973-2009

10-



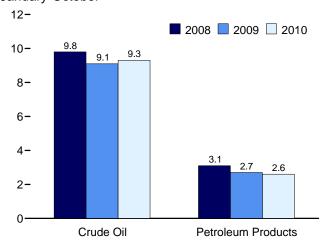
From Selected OPEC Countries, August 2010



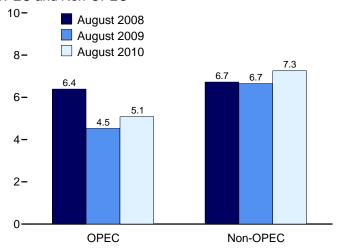
Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/emeu/mer/petro.html.

Sources: Tables 3.3b-3.3d.

Crude Oil and Petroleum Products, January-October



OPEC and Non-OPEC



From Selected Non-OPEC Countries, August 2010

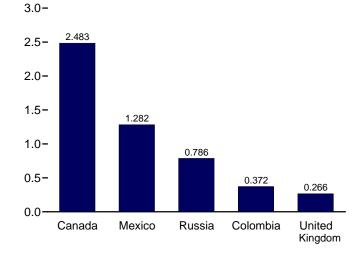


Table 3.3b Petroleum Trade: Imports and Exports by Type

					lm	ports						Exports	i
	Crue	de Oila	Distribute.		LPG	b							
	SPR ^{c,d}	Total	Distillate Fuel Oil	Jet Fuel ^e	Propane ^f	Total	Motor Gasoline ⁹	Residual Fuel Oil	Other ^h	Total	Crude Oila	Petroleum Products	Total
1973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
1975 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
1980 Average	44	5.263	142	80	69	216	140	939	130	6.909	287	258	544
1985 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	577	781
1990 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
1995 Average	-i	7,230	193	106	102	146	265	187	708	8,835	95	855	949
1996 Average	ŏ	7,508	230	111	119	166	336	248	879	9,478	110	871	981
1997 Average	ŏ	8,225	228	91	113	169	309	194	945	10,162	108	896	1,003
1998 Average	ŏ	8,706	210	124	137	194	311	275	888	10,708	110	835	945
1999 Average	8	8,731	250	128	122	182	382	237	943	10,852	118	822	940
2000 Average	8	9,071	295	162	161	215	427	352	938	11,459	50	990	1,040
2001 Average	11	9.328	344	148	145	206	454	295	1.095	11,871	20	951	971
2002 Average	16	9,140	267	107	145	183	498	249	1.085	11,530	9	975	984
2002 Average	0	9.665	333	109	168	225	518	327	1.087	12,264	12	1.014	1.027
2004 Average	77	10,088	325	127	209	263	496	426	1,419	13,145	27	1,021	1,048
2005 Average	52	10,126	329	190	233	328	603	530	1,609	13,714	32	1,133	1,165
2006 Average	8	10,118	365	186	228	332	475	350	1.881	13,707	25	1,292	1,317
2007 Average	7	10,031	304	217	182	247	413	372	1,885	13,468	27	1,405	1,433
2008 January	17	10,082	309	156	263	327	381	435	1,879	13,568	12	1,608	1,620
February	0	9,636	249	106	214	288	354	308	1,719	12,660	20	1,828	1,848
March	35	9,636	249	110	218	252	374	416	1,561	12,598	29	1,778	1,807
April	17	9,979	266	180	155	232	386	361	1,927	13,331	14	1,725	1,739
May	94	9,664	188	140	164	225	383	351	1,951	12,902	19	1,774	1,793
June	43	10,018	180	91	99	186	461	383	2,080	13,398	22	2,124	2,146
July	26	10,132	181	72	130	194	323	282	1,940	13,124	29	2,022	2,051
August	0	10,324	109	76	186	306	205	334	1,763	13,118	40	2,013	2,053
September	0	8,447	195	88	186	268	253	289	2,023	11,562	39	1,283	1,323
October	0	10,086	166	98	179	225	239	355	2,033	13,202	43	1,615	1,658
November	0	9,944	203	47	196	250	115	285	2,036	12,881	31	1,690	1,720
December	0	9,419	262	68	229	281	148	383	2,045	12,607	46	1,810	1,856
Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,802
2009 January	33	9,779	368	89	223	253	236	424	1,978	13,127	36	1,885	1,922
February	34	9,074	327	71	207	234	263	349	1,776	12,095	30	1,778	1,808
March	221	9,378	269	92	218	249	274	381	1,804	12,446	30	1,807	1,838
April	154	9,374	166	90	124	164	227	396	1,545	11,962	27	1,874	1,900
May	52	8,797	206	66	105	172	244	341	1,650	11,477	53	1,962	2,015
June	77	9,135	245	65	70	98	218	363	1,812	11,936	57	1,906	1,963
July	-	9,094	191	102	100	128	230	268	1,818	11,830	31	2,317	2,348
August	16	8,814	166	92 91	63 95	105	304	256 309	1,446	11,183	35 42	2,084	2,119
September	32	9,254 8.566	205 177	84	95 145	124 182	142 161	309	1,631 1,404	11,756 10,878	72	2,063 2.151	2,105 2.223
October	_ 35	8,740	164	71	206	238	149	282	1,462	11,105	46	1,983	2,223
November		8,170	224	55	212	230	232	307	1,305		65	1,983	1,996
December	16 56	9,013	224 225	81	147	182	232 223	307 331		10,534 11,691	44	1,980	2,024
Average	30	,							1,635	•		•	•
2010 January	_	8,454	429	150	191	216	179	373	1,433	11,236	33	1,851	1,883
February	-	8,680	293	75	216	234	196	378	1,291	11,148	58	1,954	2,012
March	-	9,292	179	74	136	149	120	395	1,378	11,588	45	2,063	2,108
April	-	9,741	201	74	78	101	178	474	1,739	12,508	37	2,352	2,389
May	-	9,622	191	63	81	108	107	404	1,606	12,100	36	2,333	2,369
June	-	9,872	237	79	69	109	163	279	1,599	12,339	31	2,242	2,273
July	_ P	9,890	166	76	55	103	114	400	1,851	12,602	69	2,410	2,479
August	R	R 9,486	R 236	R 103	62	R 106	R 129	R 329	R 1,952	R 12,341	R 36	R 2,332	R 2,368
September	NA	E 9,058	E 197	E 95	E 90	NA	E 112	E 315	NA	E 11,498	E 33	2,148	E 2,181
October 10-Month Average	NA NA	E 8,634 E 9,276	E 155 E 228	E 63 E 85	E 129 E 110	NA NA	E 126 E 142	E 345 E 369	NA NA	E 11,086 E 11,849	E 33 E 41	2,154 2,185	E 2,187 E 2,226
2009 10-Month Average	62	9,126	231	84	135	171	230	339	1,686	11,866	41	1,985	2,026
2008 10-Month Average	23	9,805	209	112	180	250	336	352	1,887	12,950	27	1,777	1,804

a Includes lease condensate.

naphtha-type jet fuel.

R=Revised. E=Estimate. NA=Not available. - - =Not applicable. - =No data reported.

Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/emeu/mer/petro.html. • For related information, see

http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

d Includes lease concensate.

b Liquefied petroleum gases.
c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.

Through 2003, includes crude oil imports by SPR only; beginning in 2004, includes crude oil imports by SPR, and crude oil imports into SPR by others.
d See Note 6, "Petroleum Data Discrepancies," at end of section.
Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in

^{2005,} includes kerosene-type jet fuel only; naphtha-type jet fuel is included in

[&]quot;Other."

f Includes propylene.
g Finished motor gasoline. Through 1980, also includes motor gasoline blending components.

h Asphalt and road oil, finished aviation gasoline, gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Beginning in 2005, also includes

Table 3.3c Petroleum Trade: Imports From OPEC Countries

1973 Average	136 282 488 187 280 234 256 285 290 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a)	48 57 27 67 49 (b) (b) (b) (b) (b) (b) (b) (b) (c) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	4 2 28 46 518 0 1 89 336 725 620 795 459 481 656 531 553 484	47 16 27 21 86 218 236 253 301 248 272 250 228 220 250 243 185 181	164 232 554 4 0 0 0 0 0 0 0 0 0 0 0	459 762 857 293 800 627 617 698 696 657 896 885 621 867 1,140	486 715 1,261 168 1,339 1,344 1,363 1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558 1,537	1,135 702 481 605 1,025 1,480 1,676 1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	514 832 577 439 199 98 62 64 73 93 72 105 83 61	2,993 3,601 4,300 1,830 4,296 4,002 4,211 4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1975 Average 1980 Average 1985 Average 1990 Average 1995 Average 1997 Average 1998 Average 1998 Average 1998 Average 2000 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February February February August September October November December Average 2009 January February February February February February February February February February March April May June July August September October November December Average	282 488 187 280 234 256 285 290 259 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a)	57 27 67 49 (b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	2 28 46 518 0 1 89 336 725 620 795 459 481 656 531 553 484	16 27 21 86 218 236 253 301 248 272 250 228 220 250 243 185	232 554 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	762 857 293 800 627 617 698 696 657 896 885 621 867 1,140	715 1,261 168 1,339 1,344 1,363 1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558	702 481 605 1,025 1,480 1,676 1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	832 577 439 199 98 62 64 73 93 72 105 83 61	3,601 4,300 1,830 4,296 4,002 4,211 4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1980 Average 1985 Average 1995 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February February March April November Pecember Average 2009 January February February February Average 2009 January February March April May Average	488 187 280 234 256 285 290 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a)	27 67 49 (b) (b) (b) (b) (b) (b) (b) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	28 46 518 0 1 89 336 725 620 795 459 481 656 531 553 484	27 21 86 218 236 253 301 248 272 250 228 220 250 243 185	554 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	857 293 800 627 617 698 696 657 896 885 621 867 1,140 1,166	1,261 168 1,339 1,344 1,363 1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558	481 605 1,025 1,480 1,676 1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	577 439 199 98 62 64 73 93 72 105 83 61	4,300 1,830 4,296 4,002 4,211 4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April Agust September October November December Average 2009 January February March April May June July August September October November December Average 2009 January February March April May March April May March April May March April	187 280 234 256 285 299 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a)	67 49 (b) (b) (b) (b) (b) (b) (b) (b)	46 518 0 1 89 336 725 620 795 459 481 656 531 553 484	21 86 218 236 253 301 248 272 250 228 220 250 243 185	4 0 0 0 0 0 0 0 0 0 0 20 56 87	293 800 627 617 698 696 657 896 885 621 867 1,140	168 1,339 1,344 1,363 1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558	605 1,025 1,480 1,676 1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	439 199 98 62 64 73 93 72 105 83 61	1,830 4,296 4,002 4,211 4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2007 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February Pebruary March April May June July August September October November December Average 2009 January February March April May	280 234 256 285 290 259 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a)	(b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	518 0 1 89 336 725 620 795 459 481 656 531 553 484	86 218 236 253 301 248 272 250 228 220 250 243 185	0 0 0 0 0 0 0 0 0 0 20 56	800 627 617 698 696 657 896 885 621 867 1,140 1,166	1,339 1,344 1,363 1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558	1,025 1,480 1,676 1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	199 98 62 64 73 93 72 105 83 61	4,296 4,002 4,211 4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May August September October November December Average 2009 January February March April May August Average	234 256 285 290 259 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	(b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	0 1 89 336 725 620 795 459 481 656 531 553 484	218 236 253 301 248 272 250 228 220 250 243 185	0 0 0 0 0 0 0 0 0 20 56 87	627 617 698 696 657 896 885 621 867 1,140	1,344 1,363 1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558	1,480 1,676 1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	98 62 64 73 93 72 105 83 61	4,002 4,211 4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1996 Average 1997 Average 1998 Average 1999 Average 2001 Average 2002 Average 2003 Average 2005 Average 2006 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February February Average 2009 January February Average 2009 January February February Average	256 285 290 259 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	(b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	1 89 336 725 620 795 459 481 656 531 553 484	236 253 301 248 272 250 228 220 250 243 185	0 0 0 0 0 0 0 0 20 56	617 698 696 657 896 885 621 867 1,140 1,166	1,363 1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558	1,676 1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	62 64 73 93 72 105 83 61	4,211 4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February February March April May June July August September October November December Average 2009 January February March April May May March April May May March April May May March April May May	285 290 259 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	(b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	89 336 725 620 795 459 481 656 531 553 484	253 301 248 272 250 228 220 250 243 185	0 0 0 0 0 0 0 20 56 87	698 696 657 896 885 621 867 1,140 1,166	1,407 1,491 1,478 1,572 1,662 1,552 1,774 1,558	1,773 1,719 1,493 1,546 1,553 1,398 1,376 1,554	64 73 93 72 105 83 61	4,569 4,905 4,953 5,203 5,528 4,605 5,162 5,701
1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February February February Androth April May June July August September October November December Average 2009 January February March April May March April May March April May March April May May	290 259 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) (a) (a) (a) 508 578 351 388	(b) (b) (b) (b) (b) (b) (b) (b) (b) (c) 260	336 725 620 795 459 481 656 531 553 484	301 248 272 250 228 220 250 243 185	0 0 0 0 0 0 20 56 87	696 657 896 885 621 867 1,140 1,166	1,491 1,478 1,572 1,662 1,552 1,774 1,558	1,719 1,493 1,546 1,553 1,398 1,376 1,554	73 93 72 105 83 61	4,905 4,953 5,203 5,528 4,605 5,162 5,701
1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February February Average 2009 January February Average 2009 January February March April May Average 2009 January February March April May	259 225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) (a) (a) 508 578 351 388	(b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	725 620 795 459 481 656 531 553 484	248 272 250 228 220 250 243 185	0 0 0 0 0 20 56 87	657 896 885 621 867 1,140 1,166	1,478 1,572 1,662 1,552 1,774 1,558	1,493 1,546 1,553 1,398 1,376 1,554	93 72 105 83 61	4,953 5,203 5,528 4,605 5,162 5,701
2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May	225 278 264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) (a) (a) 508 578 351 388	(b) (b) (b) (b) (b) (b) (b) (b) (b)	620 795 459 481 656 531 553 484	272 250 228 220 250 243 185	0 0 0 0 20 56 87	896 885 621 867 1,140 1,166	1,572 1,662 1,552 1,774 1,558	1,546 1,553 1,398 1,376 1,554	72 105 83 61	5,203 5,528 4,605 5,162 5,701
2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May	278 264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) 508 578 351 388	(b) (b) (b) (b) (b) (b) (b) (b)	795 459 481 656 531 553 484	250 228 220 250 243 185	0 0 0 20 56 87	885 621 867 1,140 1,166	1,662 1,552 1,774 1,558	1,553 1,398 1,376 1,554	105 83 61	5,528 4,605 5,162 5,701
2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May	264 382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) (a) 508 578 351 388	(b) (b) (b) (b) (b) (b) (b)	459 481 656 531 553 484	228 220 250 243 185	0 0 20 56 87	621 867 1,140 1,166	1,552 1,774 1,558	1,398 1,376 1,554	83 61	4,605 5,162 5,701
2003 Average 2004 Average 2005 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May	382 452 478 657 670 651 380 441 632 620 492	(a) (a) (a) (a) (a) 508 578 351 388	(b) (b) (b) (b) (b) (b) 260 186	481 656 531 553 484	220 250 243 185	0 20 56 87	867 1,140 1,166	1,774 1,558	1,376 1,554	61	5,162 5,701
2004 Average 2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May	452 478 657 670 651 380 441 632 620 492	(a) (a) (a) 508 578 351 388	(b) (b) (b) 260 186	656 531 553 484	250 243 185	20 56 87	1,140 1,166	1,558	1,554		5,701
2005 Average 2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May	478 657 670 651 380 441 632 620 492	(a) (a) 508 578 351 388	(b) (b) (b) 260 186	531 553 484	243 185	56 87	1,166			70	
2006 Average 2007 Average 2008 January February March April May June July August September October November December Average 2009 January February March April May	657 670 651 380 441 632 620 492	(a) 508 578 351 388	(b) (b) 260 186	553 484	185	87		1,537			
2007 Average 2008 January February March April May June July August September October November December Average 2009 January February April May	670 651 380 441 632 620 492	508 578 351 388	(b) 260 186	484					1,529	47	5,587
2008 January	651 380 441 632 620 492	578 351 388	260 186		181	447	1,114	1,463	1,419	38	5,517
February March April May June July August September October November December Average 2009 January February March April May	380 441 632 620 492	351 388	186	5/13		117	1,134	1,485	1,361	39	5,980
March	441 632 620 492	388			239	105	1,191	1,503	1,276	70	6,415
April May June July August September October November December Average 2009 January February March April May May May March	632 620 492			780	272	87	1,025	1,608	1,131	14	5,834
May	620 492	591	238	773	203	124	1,174	1,542	1,033	18	5,934
June July August September October November December Average 2009 January February March April May	492		170	679	181	133	1,221	1,462	1,189	4	6,262
July		476	162	583	263	116	918	1,604	1,171	19	5,931
July	4=0	649	184	693	183	117	1,016	1,464	1,215	43	6,054
August September October November December Average 2009 January February March April May September August September August March April May May September Moren Mo	456	652	227	696	122	128	822	1,690	1,329	5	6,125
September	530	495	298	663	203	113	1,166	1,573	1,305	47	6,391
October	657	416	233	543	110	63	591	1,431	1,051	32	5,127
November	558	539	200	577	240	132	963	1,487	1,162	16	5,875
December	677	450	229	476	292	79	827	1,514	1,236	20	5,799
Average 2009 January February March April May	484	562	258	519	219	43	939	1,471	1.159	27	5,679
February March April May	548	513	221	627	210	103	988	1,529	1,189	26	5,954
February March April May	720	541	278	568	242	64	524	1,362	1,353	38	5,689
March April May	375	671	243	554	251	60	496	1,118	1,139	51	4,958
April May	463	653	215	587	181	61	891	967	1,106	88	5,212
May	626	462	237	484	105	118	733	1,057	891	90	4.803
	272	505	193	295	106	99	626	1,102	1,141	33	4,372
	433	447	154	390	179	103	830	959	1,256	75	4,825
July	383	320	198	321	187	69	879	1,046	976	176	4,554
August	551	364	131	500	148	68	917	729	1,070	51	4,530
September	655	414	153	428	246	54	912	1,045	1,146	-	5,052
October	491	450	180	499	104	91	869	943	955	_	4,581
November	400	431	155	461	287	140	980	858	874	_	4,585
	544	278	86	325	160	23	1,029	877	849	_	4,171
December Average	493	460	185	450	182	7 9	809	1,004	1,063	 50	4,776
2010 January	498	280	215	506	77	40	1,013	963	911	_	4,503
	461	326	152	540	228	40	932	898	1,009	_	4,587
February	455	502	183	475	220		962		1,009	_	5,068
March						63		1,149		_	
April	464	508	179 160	490 394	278	163	1,125	1,257	950	10	5,414
May	518	448			225	39	1,026	1,097	1,109		5,024
June	550	425	211	630	217	98	1,108	1,125	899	-	5,263
July	518	374	205	430	189	110	1,174	1,053	1,084	7	5,144
August 8-Month Average	565 504	484 419	242 194	281 467	251 210	123 85	985 1,041	1,132 1,086	1,022 1,006	_ 2	5,083 5,013
_									,		•
2009 8-Month Average 2008 8-Month Average	479	494	206 216	462 675	174 208	80 115	740 1,066	1,042 1,556	1,117 1,207	75 27	4,867 6,120

 $^{^{\}rm a}$ Angola joined OPEC in January 2007. For 1973-2006, Angola is included in "Total Non-OPEC" on Table 3.3d.

Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on this table are included on Table 3.3d. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example,

refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/emeu/mer/petro.html. • For related information, see http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2009: EIA, *Petroleum Supply Annual*, annual reports.

• 2010: EIA, Petroleum Supply Monthly, monthly reports.

b Ecuador was a member of OPEC from 1973-1992, and rejoined OPEC in November 2007. For 1993-2007, Ecuador is included in "Total Non-OPEC" on Table 3.3

Table 3.3d. $^{\rm C}$ Imports from the Neutral Zone are reported as originating in either Saudi Arabia or Kuwait depending on the country reported to U.S. Customs.

^d For all years, includes Iran, Qatar, and United Arab Emirates. For 1973-2008, also includes Indonesia; and for 1975-1994, also includes Gabon.

^{- =}No data reported.

Table 3.3d Petroleum Trade: Imports From Non-OPEC Countries

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russiaa	United Kingdom	U.S. Virgin Islands	Other	Total Non-OPEC
1973 Average	9	1,325	9	16	53	1	26	15	329	1.480	3,263
1975 Average	5	846	9	71	19	17	14	14	406	1,052	2,454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
	61	770	23	816	58	32	8	310	247	913	3,237
1985 Average	49	934	182		55	102	45	189			
1990 Average				755					282	1,128	3,721
1995 Average	8	1,332	219	1,068	15	273	25	383	278	1,233	4,833
1996 Average	9	1,424	234	1,244	19	313	25	308	313	1,377	5,267
1997 Average	5	1,563	271	1,385	25	309	13	226	300	1,495	5,593
1998 Average	26	1,598	354	1,351	31	236	24	250	293	1,640	5,803
1999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1,828	296	1,440	43	341	90	324	268	1,631	6,343
2002 Average	116	1,971	260	1,547	66	393	210	478	236	1,649	6,925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8,190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 January	225	2,654	198	1,308	94	86	392	213	383	1,600	7,153
February	172	2,530	240	1,328	141	100	451	155	351	1,357	6,826
March	191	2,563	165	1,359	129	80	402	218	289	1,268	6,664
April	235	2,582	170	1,382	185	137	402	229	340	1,406	7,069
May	338	2,367	278	1,220	199	183	460	237	340	1,347	6,971
June	315	2,430	180	1,256	262	122	764	286	314	1,416	7,344
July	275	2,417	192	1,292	152	94	572	187	294	1,524	6,999
August	208	2.247	257	1.401	143	84	490	222	298	1.378	6.727
September	271	2,399	149	1,003	197	74	433	281	345	1,282	6,435
October	354	2,585	200	1,434	176	70	394	386	267	1,463	7,328
November	286	2,534	176	1,406	138	114	445	245	338	1,403	7,082
December	225	2,604	198	1,228	203	80	382	176	289	1,543	6,928
Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 January	450	2,549	269	1,377	127	90	516	148	367	1,545	7,438
February	381	2,529	241	1,364	189	74	472	281	337	1,269	7,137
March	338	2,446	283	1,199	141	179	642	208	264	1,534	7,235
April	278	2,287	347	1,289	117	112	759	401	290	1,278	7,158
May	386	2,215	243	1,186	150	179	809	250	313	1,373	7,105
June	299	2.538	313	1,190	157	173	618	268	276	1,279	7,111
July	408	2,664	289	1,076	118	101	758	203	273	1,387	7,276
August	275	2.523	269	1,159	160	52	505	225	223	1.263	6.653
September	268	2,358	301	1,271	122	59	486	295	280	1,263	6,703
October	174	2,367	292	1,136	84	97	385	278	215	1,268	6,297
November	268	2,565	237	1,130	227	110	415	190	205	1,219	6,520
December	184	2,710	231	1,204	99	65	385	199	289	998	6,363
Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
2010 January	353	2,593	322	1,131	116	126	463	282	308	1,039	6,733
February	226	2,490	386	1,134	126	99	423	413	187	1,077	6,562
March	302	2,517	251	1,265	136	59	488	267	228	1,008	6,520
April	307	2,486	423	1,276	92	166	587	304	316	1,137	7.093
May	320	2,527	315	1,428	108	119	719	176	193	1,172	7,076
June	308	2,711	407	1,208	87	52	760	269	244	1,030	7,076
	332	2,711	404	1,289	211	119	719	351	239	1,030	7,076
July	251		372				719 786	266	339		
August 8-Month Average	301	2,483 2,543	372 359	1,282 1,253	135 127	57 99	620	290	257	1,286 1,127	7,258 6,976
2009 8-Month Average	352	2,468	282	1,228	144	120	636	247	292	1,368	7,139
2008 8-Month Average	245	2,473	210	1,318	163	111	491	218	326	1,412	6,968

 ^a Through 1992, may include imports from republics other than Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary.
 Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic

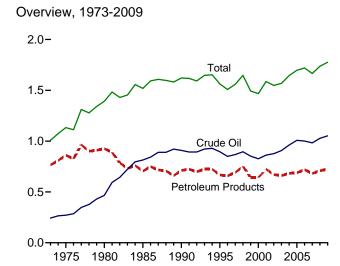
coverage is the 50 States and the District of Columbia.

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/emeu/mer/petro.html. • For related information, see http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

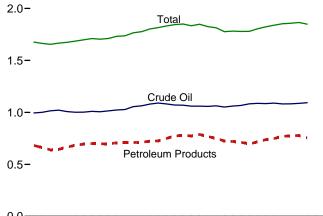
Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010: EIA, Petroleum Supply Monthly, monthly reports.

Figure 3.4 Petroleum Stocks

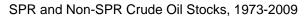
(Billion Barrels, Except as Noted)

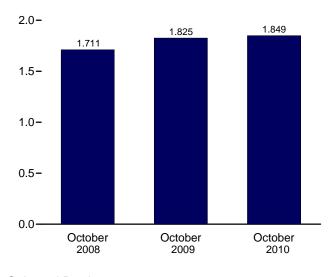


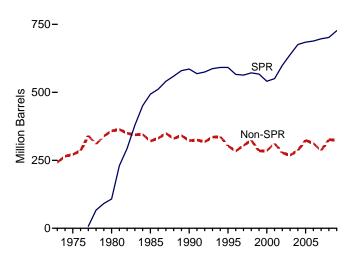
Overview, Monthly



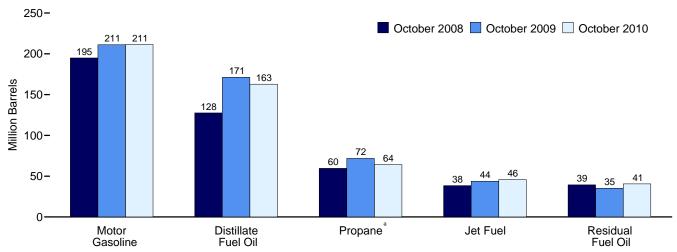
Total Stocks (Crude Oil and Petroleum Products)







Selected Products



^a Includes propylene.
 Notes: • SPR= Strategic Petroleum Reserve. • Stocks are at end of period.

Web Page: http://www.eia.gov/emeu/mer/petro.html. Source: Table 3.4.

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oila		D:		LPC	G b				
	SPR ^c	Non-SPR ^{d,e,f}	Total ^{e,f}	Distillate Fuel Oil ^{f,g}	Jet Fuel ^h	Propane ^{f,i}	Total ^f	Motor Gasoline ^{f,j}	Residual Fuel Oil ^f	Other ^k	Total ^f
1973 Year		242	242	196	29	65	99	209	53	179	1,008
1975 Year		271	271	209	30	82	125	235	74	188	1,133
1980 Year	108	358	466	205	42	65	120	261	92	205	1,392
1985 Year		321	814	144	40	39	74	223	50	174	1,519
1990 Year		323	908	132	52	49	98	220	49	162	1,621
1995 Year	592	303	895	130	40	43	93	202	37	165	1,563
1996 Year	566	284	850	127	40	43	86	195	46	164	1,507
1997 Year	563	305	868	138	44	44	89	210	40	169	1,560
1998 Year	571	324	895	156	45	65	115	216	45	176	1,647
1999 Year		284	852	125	41	43	89	193	36	157	1,493
2000 Year		286	826	118	45	41	83	196	36	164	1,468
2001 Year	550	312	862	145	42	66	121	210	41	166	1,586
2002 Year	599	278	877	134	39	53	106	209	31	152	1,548
2003 Year		269	907	137	39	50	94	207	38	147	1,568
2004 Year	676	286	961	126	40	55	104	218	42	153	1,645
2005 Year		324	1,008	136	42	57	109	208	37	157	1,698
2006 Year	689	312	1,001	144	39	62	113	212	42	169	1,720
2007 Year		286	983	134	39	52	96	218	39	156	1,665
2008 January		296	995	131	41	39	77	233	39	160	1,677
February	699	302	1,001	118	40	29	65	235	39	165	1,664
March	700	315	1,015	108	39	26	64	222	40	167	1,655
April	701	320	1,021	107	39	30	77	211	39	171	1,666
May	704	304	1,008	114	40	38	92	208	40	172	1,674
June	706	296	1,002	122	40	43	103	211	41	168	1,686
July	707	295	1,002	131	41	48	113	207	37	167	1,698
August	707	303	1,010	133	41	54	127	196	39	165	1,711
September		304	1,006	128	38	59	137	190	39	167	1,704
October		313	1,014	128	38	60	133	195	39	163	1,711
November	702	322	1,023	136	38	61	126	204	39	166	1,732
December	702	326	1,028	146	38	55	113	214	36	162	1,737
2009 January		351	1,055	144	41	46	98	220	34	174	1,766
February		358	1,063	148	43	40	89	216	38	178	1,777
March		367	1,080	145	43	40	91	217	38	188	1,803
April		371	1,090	150	44	45	100	211	34	187	1,816
May		360	1,081	157	45	56	117	204	38	189	1,831
June		347	1,071	163	45	64	133	214	37	182	1,844
July		345	1,070	166	47	70	145	212	35	175	1,850
August		336	1,060	169	46	71	153	208	33	165	1,834
September		335	1,060	173	46	75	156	214	35	164	1,848
October		333	1,058	171	44	72	146	211	35	161	1,825
November		337	1,063	171	42	63	123	220	36	158	1,814
December	727	325	1,052	166	43	50	102	223	37	153	1,776
2010 January		334	1,061	163	44	35	80	232	40	162	1,781
February		340	1,067	155	44	28	70	233	41	169	1,779
March		355	1,082	146	42	28	73	224	41	172	1,779
April		361	1,087	145	44	35	89	220	43	176	1,804
May		358	1,085	150	45	42	106	216	46	176	1,823
	707	363	1,089	158	45	51	122	215	42	168	1,839
June											
	727	355	1,082	166	47	55	132	220	41	164	1,853
June	727 727	355 ^R 355	1,082 R 1,082	166 ^R 170	R 47	^R 59	^R 140	R 221	R 39	^R 158	R 1,857
June July	727 727	355	1,082	166				220 R 221 E 220 E 211		164 R 158 RE 155 E 155	

a Includes lease condensate.

components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, miscellaneous products, oxygenates, renewable fuels, and other hydrocarbons. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. --=Not applicable.

Notes: • Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Pages: For all available data beginning in 1973, see http://www.eia.gov/emeu/mer/petro.html. For related information, see http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.
Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum

Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

a Includes lease culturation.
b Liquefied petroleum gases.
c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.

d All crude oil stocks other than those in "SPR."

^e Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section.

f See Note 4, "Petroleum New Stock Basis," at end of section.

⁹ Excludes stocks in the Northeast Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

Through 2004 includes bergeges time and analysis.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other."

Includes propylene.

J Includes finished motor gasoline, motor gasoline blending components, and gasohol; excludes oxygenates.

k Asphalt and road oil, aviation gasoline, aviation gasoline blending

Figure 3.5 Petroleum Products Supplied by Type (Million Barrels per Day)

Total and Motor Gasoline, 1973-2009

24
18Total

12
Motor Gasoline^a

Total, January-October

24-

19.578 18-12-6-

2009

2010

Selected Products, 1973-2009

1980

1985

1975

12-

Selected Products, Monthly 12-

2008

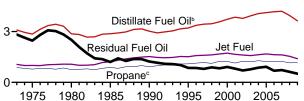


1990

1995

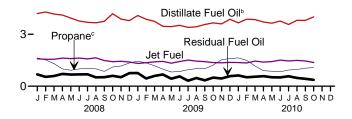
2000

2005



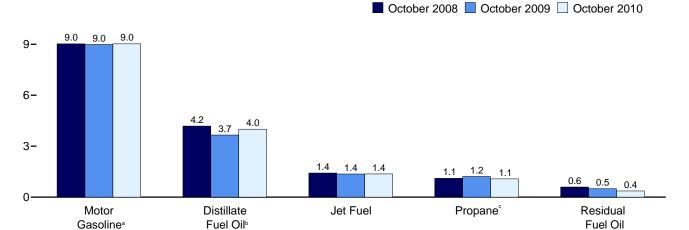






Selected Products

12-



^a Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Note: SPR= Strategic Petroleum Reserve. Web Page: http://www.eia.gov/emeu/mer/petro.html.

Source: Table 3.5.

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^c Includes propylene.

Table 3.5 Petroleum Products Supplied by Type

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	j a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuelc	sene	Propane ^d	Total	cants	Gasoline	Coke	Fuel Oil	Other ^f	Total
1973 Average	522	45	3,092	1,059	216	872	1,449	162	6,674	261	2,822	1,005	17,308
1975 Average		39	2,851	1,001	159	783	1,333	137	6,675	247	2,462	1,001	16,322
1980 Average	396	35	2,866	1,068	158	754	1,469	159	6,579	237	2,508	1,581	17,056
1985 Average	425	27	2,868	1,218	114	883	1,599	145	6,831	264	1,202	1,032	15,726
1990 Average	483	24	3,021	1,522	43	917	1,556	164	7,235	339	1,229	1,373	16,988
1995 Average		21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725
1996 Average		20	3,365	1,578	62	1,136	2,012	151	7,891	379	848	1,518	18,309
1997 Average		22	3,435	1,599	66	1,170	2,038	160	8,017	377	797	1,605	18,620
1998 Average		19 21	3,461 3,572	1,622 1,673	78 73	1,120 1,246	1,952 2,195	168 169	8,253 8,431	447 477	887 830	1,508 1,532	18,917 19,519
1999 Average 2000 Average		20	3,722	1,725	67	1,246	2,195	166	8,472	406	909	1,458	19,701
2001 Average		19	3,847	1,655	72	1,142	2,044	153	8,610	437	811	1,481	19,649
2002 Average		18	3,776	1,614	43	1,248	2,163	151	8,848	463	700	1,474	19,761
2003 Average		16	3,927	1,578	55	1,215	2,074	140	8,935	455	772	1,579	20,034
2004 Average	537	17	4,058	1,630	64	1,276	2,132	141	9,105	524	865	1,657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average		18	4,169	1,633	54	1,215	2,052	137	9,253	522	689	1,640	20,687
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 January	354	13	4,192	1,581	14	1,630	2,399	137	8,810	501	683	1,564	20,247
February		12	4,281	1,553	29	1,514	2,320	131	8,866	425	539	1,570	20,029
March		16	4,161	1,552	25	1,301	2,166	144	9,066	473	589	1,345	19,831
April		17	4,106	1,622	1 7	1,001	1,860	145	9,112	482	707	1,403	19,815
May		19	3,931	1,590	<i>7</i> 5	919	1,845	143	9,251	456 451	673	1,422 1,405	19,798 19,678
June		16 16	3,763 3,688	1,623 1,574	-1	998 1.017	1,914 1,939	138 139	9,110 9.150	538	683 684	1,405	19,557
July August		18	3,659	1,639	3	1,000	1,935	157	9,134	471	511	1,274	19,272
September		16	3,740	1,478	12	857	1,429	97	8,497	353	520	1,167	17,839
October	465	12	4,182	1,417	10	1.106	1,832	146	9.024	466	597	1,547	19,698
November	314	15	3,872	1,440	20	1,167	1,899	91	8,904	438	521	1,540	19,052
December		14	3,783	1,395	47	1,343	1,931	104	8,927	503	753	1,414	19,142
Average	417	15	3,945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
2009 January	195	13	4,079	1,312	44	1,444	2,094	120	8,623	426	760	1,373	19,040
February		10	3,864	1,356	40	1,341	2,139	96	8,836	425	448	1,330	18,822
March	. 300	14	3,744	1,406	16	1,181	2,043	112	8,903	420	591	1,170	18,719
April		15	3,455	1,432	14	981	1,906	125	9,029	498	677	1,222	18,672
May		13	3,436	1,329	14	818	1,774	101	9,084	501	433	1,154	18,211
June		18 19	3,513	1,425	11	849	1,731	124 122	9,180	536 369	566	1,213	18,828
July		15	3,395 3,426	1,506 1.449	1 6	955 1,012	1,807 1,956	138	9,260 9,295	369 407	319 472	1,333 1,244	18,626 18,949
August September		19	3,560	1,449	-4	1,012	1,936	124	9,295 8,911	470	340	1,244	18,594
October		11	3,654	1,362	21	1,219	2,208	123	8,986	329	495	1,236	18,803
November		10	3,596	1,352	22	1,523	2,531	117	8,906	356	445	1,132	18,753
December		15	3,861	1,372	26	1,597	2,504	114	8,931	385	582	1,241	19,237
Average		14	3,631	1,393	18	1,160	2,051	118	8,997	427	511	1,251	18,771
2010 January		11	3,656	1,365	16	1,630	2,545	106	8,525	266	622	1,204	18,528
February		10	3,866	1,342	35	1,495	2,450	125	8,651	334	513	1,285	18,860
March		14	3,842	1,446	12	1,168	2,153	138	8,787	428	545	1,432	19,070
April		17	3,707	1,391	8	894	1,774	127	9,103	387	578	1,484	18,910
May		15	3,635	1,422	11	865	1,800	140	9,217	339	514 505	1,345	18,827
June		18 20	3,759 3,561	1,507 1,458	12 16	832 933	1,812 1,943	160 142	9,284 9,332	411 381	505 574	1,367 1,384	19,314 19,278
July August	D	R 14	8 3,800	R 1,487	R g	933 R 964	R 1,943	R 131	9,332 R 9,366	R 432	R 479	R 1,438	R 19,692
August September		RF 17	E 3,798	E 1,456	F 4	E 1,042	F 1,888	RF 118	E 9,073	F 438	E 425	RE 1,545	E 19,092
October		F 14	€ 3,999	E 1,369	F 10	E 1.074	F 1,996	F 128	€ 9,023	F 418	E 367	E 1.235	E 18,951
10-Month Average	E 383	E 15	E 3,761	E 1,425	E 13	E 1,087	E 2,033	E 131	^E 9,039	E 384	E 512	E 1,372	E 19,069
2009 10-Month Average 2008 10-Month Average	384 442	15 16	3,611 3,969	1,399 1,563	16 10	1,080 1,134	1,958 1,962	119 138	9,012 9,004	438 462	510 619	1,264 1,394	18,726 19,578

a Liquefied petroleum gases.

Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to the consumption of the components due to the components to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages:

For all available data beginning in 1973, see ner/petro.html. • For related information, see http://www.eia.gov/emeu/mer/petro.html. http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in

[&]quot;Other."

d Includes propylene.

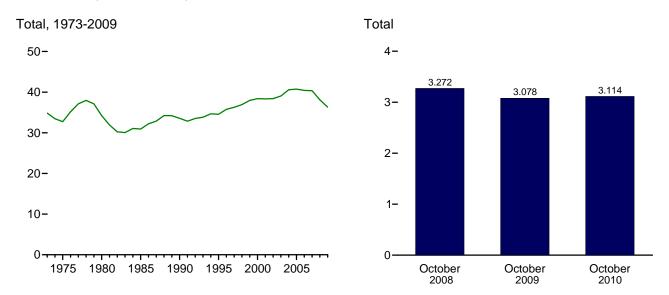
^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery

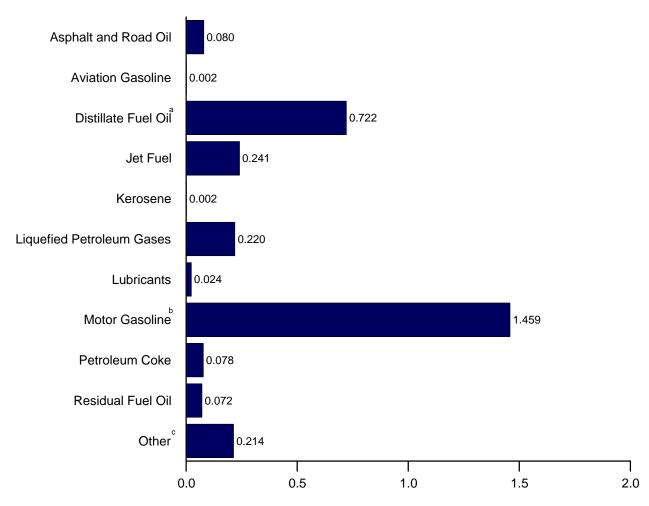
gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast.

Figure 3.6 Heat Content of Petroleum Products Supplied by Type (Quadrillion Btu)



By Product, October 2010



^a Includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

Web Page: http://www.eia.gov/emeu/mer/petro.html. Source: Table 3.6.

^b Includes fuel ethanol blended into motor gasoline.

 $^{^{\}mbox{\tiny c}}$ All petroleum products not shown above.

Table 3.6 Heat Content of Petroleum Products Supplied by Type

(Trillion Btu)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	_i a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuel ^c	sene	Propaned	Total	cants	Gasoline ^e	Coke	Fuel Oil	Other ^f	Total
1973 Total	1,264	83	6,575	2,167	447	1,221	1,981	359	12,797	573	6,477	2,114	34,837
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,109	32,732
1980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,278	34,205
1985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,152	30,925
1990 Total	1,170 1,178	45 40	6,422 6,818	3,129 3,132	88 112	1,284 1,534	2,059 2,512	362 346	13,872 14,825	745 802	2,820 1,955	2,839 2,837	33,552 34,556
1995 Total	1,176	40 37	7,175	3,132	128	1,594	2,660	335	15,064	837	1,953	2,637 3,121	35,759
1997 Total	1,170	40	7,173	3,308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,265
1998 Total	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,934
1999 Total	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,129	37,960
2000 Total	1,276	36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,979	38,402
2001 Total	1,257	35	8,179	3,426	150	1,598	2,697	338	16,373	961	1,861	3,056	38,333
2002 Total	1,240	34	8,028	3,340	90	1,747	2,852	334	16,819	1,018	1,605	3,040	38,400
2003 Total	1,220	30	8,349	3,265	113	1,701	2,748	309	16,981	1,000	1,772	3,264	39,051
2004 Total	1,304	31	8,652	3,383	133	1,791	2,824	313	17,379	1,156	1,990	3,428	40,593
2005 Total	1,323 1,261	35 33	8,755	3,475	144	1,721 1,701	2,682 2,700	312	17,444	1,133	2,111	3,318 3,416	40,732
2006 Total 2007 Total	1,261	33 32	8,864 8,921	3,379 3,358	111 67	1,701 1,729	2,700 2,733	303 313	17,622 17,689	1,148 1,077	1,581 1,659	3,416	40,420 40,358
2007 10tal	1,137	32	0,321	0,000	0,	1,723	2,700	3.3	17,003	1,077	1,000	0,010	40,000
2008 January	73	2	757	278	2	194	268	26	1,425	93	133	277	3,334
February	58	2	723	255	5	168	243	23	1,342	74	98	259	3,081
March	61	2	751	273	4	155	240	27	1,467	88	115	237	3,266
April	72	3	717	276	(s)	115	200	26	1,426	87	133	242	3,182
May	95	3	710	279	1	109	202	27	1,496	85	131	251	3,281
June	114	2	658	276	1	115	206	25	1,426	81	129	241	3,159
July	114 106	2	666 661	277 288	(s) (s)	121 119	217 215	26 30	1,480 1.478	101 88	133 100	225 219	3,242 3.187
August September	106	2	654	250 251	(5)	99	155	18	1,330	64	98	202	2,882
October	96	2	755	249	2	132	206	27	1,460	87	116	272	3,272
November	63	2	677	245	3	134	205	17	1,394	79	98	263	3,046
December	56	2	683	245	8	160	217	20	1,444	94	147	253	3,169
Total	1,012	28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,941	38,101
2009 January	40	2	736	231	8	172	235	23	1,395	80	148	247	3,144
February	51	1	630	215	6	144	215	16	1,291	72	79	214	2,792
March	62 59	2	676 604	247 244	3 2	140	226 201	21 23	1,440 1.413	78 90	115 128	208 209	3,079
April	59 76	2 2	604 621	244 234	2	113 97	193	23 19	1,413	90 94	84	209 206	2,976 3,000
May June	102	3	614	242	2	98	183	23	1,409	97	107	208	3,000
July	102	3	613	265	(s)	114	198	23	1,498	69	62	236	3,069
August	111	2	619	255	1	120	215	26	1,504	76	92	220	3,121
September	92	3	622	241	-1	116	205	23	1,395	85	64	234	2,963
October	78	2	660	239	4	145	243	23	1,454	61	96	218	3,078
November	57	1	628	230	4	175	272	21	1,394	64	84	192	2,949
December	42	2	697	241	5	190	278	22	1,445	72	113	219	3,136
Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,321
2010 January	44	2	660	240	3	194	283	20	1,379	50	121	213	3,014
February	46	1	631	213	5	161	247	21	1,264	56	90	206	2,781
March	56	2	694	254	2	139	238	26	1,421	80	106	254	3,134
April	67	3	648	237	1	103	191	23	1,425	70	109	255	3,028
May	80	2	656 657	250	2	103	198	26	1,491	63	100	239	3,109
June	96 96	3	657 643	256 256	2	96 111	192 213	29 27	1,453 1,509	74 71	95 112	234 244	3,092 3,178
July August	R 112	R 2	R 686	R 261	R 2	R 115	R 217	R 25	1,509 R 1,515	81	R 93	R 254	3,176 R 3.248
September	RF 97	RF 3	E 664	E 248	F 1	E 120	F 202	RF 21	E 1,420	F 79	E 80	E 255	RE 3,069
October	F 80	F ₂	E 722	E 241	F 2	E 128	F 220	F 24	E 1,459	F 78	E 72	E 214	E 3,114
10-Month Total	^E 774	E 23	^E 6,661	E 2,456	E 23	E 1,268	E 2,201	E 242	E 14,338	E 702	E 979	E 2,369	E 30,768
2009 10-Month Total 2008 10-Month Total	774 894	23 24	6,394 7,052	2,412 2,703	28 18	1,259 1,326	2,113 2,152	219 255	14,296 14,330	802 849	976 1,187	2,200 2,425	30,236 31,887

as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes:
• Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption" and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

For all available data beginning in 1973, see Web Pages: http://www.eia.gov/emeu/mer/petro.html. http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: See end of section.

blended into distillate fuel oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other."

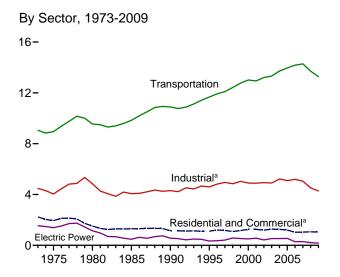
d Includes propylene.

^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended

into motor gasoline.

f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned

Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)



Residential and Commercial Sectors,^a Selected Products, August 2010

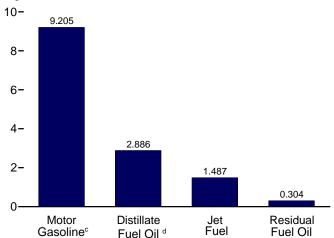
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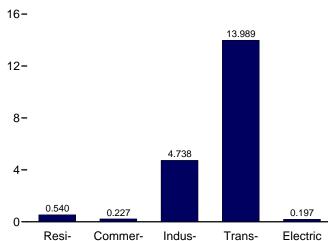
LPG Distillate Motor Residual Fuel Oil Gasoline Fuel Oil

Transportation Sector, Selected Products, August 2010



^a Includes combined-heat-and-power plants and a small number of electricity-only plants.





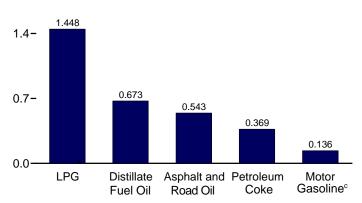
Industrial Sector,^a Selected Products, August 2010

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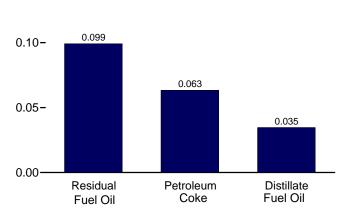


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Power

Electric Power Sector, August 2010



^d Includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

Web Page: http://www.eia.gov/emeu/mer/petro.html.

Sources: Tables 3.7a-3.7c.

^b Liquefied petroleum gases.

^c Includes fuel ethanol blended into motor gasoline.

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

	Residential Sector					Commercial Sector ^a							
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total		
1973 Average	942 850	110 78	407 365	1,459 1,293	303 276	31 24	105 92	45 46	NA NA	290 214	774		
1975 Average	617	76 51	365 222	890	243	24	63	46 56	NA NA	214 245	653 626		
1980 Average 1985 Average	514	77	224	815	297	16	68	50	NA	99	530		
1990 Average	460	31	252	742	252	6	73	58	0	100	489		
1995 Average	426	36	282	742	225	11	73 78	10	(s)	62	385		
1996 Average	434	43	334	811	227	10	87	14	(s)	60	397		
1997 Average	411	45	325	781	209	12	86	22	(s)	48	378		
1998 Average	363	52	303	718	202	15	84	20	(s)	37	358		
1999 Average	389	54	376	819	206	13	100	15	(s)	32	366		
2000 Average	424	46	395	865	230	14	107	23	(s)	40	415		
2001 Average	427	46	375	849	239	15	102	20	(s)	30	406		
2002 Average	404	29	384	817	209	8	101	24	(s)	35	376		
2003 Average	425	34	389	848	226	9	112	32	(s)	48	428		
2004 Average	433	41	364	839	221	10	108	23	(s)	53	416		
2005 Average	402	40	366	809	210	10	94	24	(s)	50	389		
2006 Average	335	32	318	685	189	7	88	26	(s)	33	343		
2007 Average	342	21	345	708	181	4	87	32	(s)	33	337		
2008 January	516	10	483	1,009	287	2	138	23	(s)	53	503		
February	530	21	467	1,018	294	4	134	24	(s)	54	510		
March	376	18	436	830	209	4	125	24	(s)	38	400		
April	293	1	375	668	163	(s)	107	24	(s)	30	324		
May	207	5	372	584	115	1	106	25	0	21	268		
June	228	4	386	618	127	, 1	110	24	0	23	285		
July	216	-1	391	606	120	(s)	112	24	0	22	278		
August	194	2	386	582	108	(s)	110	24	0	20	262		
September	208	9	288	505	116	2	82	23	(s)	21	244		
October	233 292	7	369	610	130	1 3	106	24 24	(s)	24 30	285		
November	292 449	14 34	383 389	689 872	162 249	3 7	109 111	24 24	(s) (s)	30 46	328 437		
December Average	311	1 0	394	715	173	2	113	24 24	(s) (s)	32	343		
									. ,				
2009 January	451 418	32	422	904	250	6	121	23	(s)	43 40	443		
February		29 12	431	878	232 201	6	123	24	(s)	40 34	425		
March	363 287	12	412 384	786 681	159	2 2	118 110	24 24	(s) 0	34 27	380 322		
April	194	10	357	561	108	2	102	24	0	18	322 254		
May June	185	8	349	542	103	2	102	24	0	18	246		
July	208	1	364	573	115	(s)	104	25	0	20	264		
August	217	4	394	615	120	(3)	113	25	(s)	21	279		
September	262	-3	389	648	146	-i	111	24	(s)	25	305		
October	225	15	445	686	125	3	127	24	0	21	301		
November	229	16	510	755	127	3	146	24	(s)	22	322		
December	405	19	504	929	225	4	144	24	(s)	39	436		
Average	286	13	413	712	159	3	118	24	(s)	27	331		
2010 January	360	11	513	884	200	2	147	23	(s)	34	406		
February	369	25	494	888	205	5	141	23	(s)	35	409		
March	212	9	434	655	118	2	124	23	(s)	20	287		
April	153	5	358	516	85	1	102	24	(s)	15	227		
May	162	8	363	533	90	2	104	25	Ô	15	235		
June	191	8	365	565	106	2	104	25	0	18	255		
July	148	12	391	551	82	2	112	25	0	14	235		
August	132	6	402	540	74	1	115	25	(s)	13	227		
8-Month Average	215	11	414	639	119	2	118	24	(s)	20	284		
2009 8-Month Average 2008 8-Month Average	289 319	13 7	389 412	691 738	160 177	3 1	111 118	24 24	(s) (s)	27 33	326 353		

^a Commercial fuel including commercial sector use, that combined-heat-and-power (CHP) and commercial electricity-only plants.

b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is

Sources: See end of section.

blended into motor gasoline.

NA=Not available. (s)=Less than 500 barrels per day and greater than -500

barrels per day.

an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

• Totals may not equal sum of components due to independent rounding.

• Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/petro.html for all available data beginning in 1973.

Table 3.7b Petroleum Consumption: Industrial Sector

					Industria	Industrial Sector ^a									
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total					
1973 Average	522	691	75	902	88	133	254	809	1,005	4.479					
1975 Average	419	630	58	844	68	116	246	658	1,001	4,038					
1980 Average	396	621	87	1,172	82	82	234	586	1,581	4,842					
1985 Average	425	526	21	1,285	75	114	261	326	1,032	4,065					
1990 Average	483	541	6	1,215	73 84	97	325	179	1,373	4,304					
	486	532	7	1,527	80	105	328	147	1,381	4,594					
1995 Average	484	557	9	1,527	78	105	343	146	1,518	4,819					
1996 Average	505	566	9	1,617	82	111	331	127	1,605	4,953					
1997 Average	503 521	570	11		86	105	390	100	1,508	4,955 4.844					
1998 Average	547	558	6	1,553 1.709	87	80	390 426	90							
1999 Average				,					1,532	5,035					
2000 Average	525	563	8	1,720	86	79	361	105	1,458	4,903					
2001 Average	519	611	1 <u>1</u>	1,557	79	155	390	89	1,481	4,892					
2002 Average	512	566	7	1,668	78	163	383	83	1,474	4,934					
2003 Average	503	534	12	1,561	72	171	375	96	1,579	4,903					
2004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222					
2005 Average	546	594	19	1,549	72	187	404	123	1,605	5,100					
2006 Average	521	594	14	1,627	71	198	425	104	1,640	5,193					
2007 Average	494	595	6	1,637	73	161	412	84	1,593	5,056					
2008 January	354	774	2	1,743	71	128	422	99	1,564	5,157					
February	301	801	4	1,686	67	129	348	77	1,570	4,983					
March	295	764	3	1,574	74	132	413	87	1,345	4,685					
April	360	710	(s)	1,351	75	133	413	102	1,403	4,547					
May	461	633	1	1,341	73	135	394	97	1,422	4,556					
June	570	418	1	1,391	71	133	372	88	1,405	4,448					
July	556	366	(s)	1,408	71	133	470	91	1,274	4,369					
August	517	359	(s)	1,391	81	133	399	68	1,249	4,197					
September	531	501	2	1,038	50	124	282	65	1,167	3,761					
October	465	789	1	1,331	75	131	394	84	1,547	4,819					
November	314	610	3	1,379	47	130	371	71	1,540	4,464					
December	271	414	6	1,403	53	130	437	107	1,414	4,236					
Average	417	594	2	1,420	67	131	394	86	1,408	4,518					
2009 January	195	885	6	1,522	62	126	360	101	1,373	4,629					
February	277	712	5	1,554	49	129	358	63	1,330	4,478					
March	300	623	2	1,484	58	130	344	85	1,170	4,197					
April	299	423	2	1,385	64	131	429	100	1,222	4,055					
May	371	458	2	1,289	52	132	434	66	1,154	3,959					
June	512	457	2	1,258	64	134	467	80	1,213	4,185					
July	495	333	(s)	1,313	63	135	300	40	1,333	4,012					
August	542	332	` 1	1,421	71	135	339	63	1,244	4,147					
September	461	474	-1	1,401	64	130	402	46	1,372	4,348					
October	377	584	3	1,604	63	131	288	70	1,236	4,356					
November	287	630	3	1,839	60	130	314	65	1,132	4,460					
December	204	657	4	1,819	59	130	330	86	1,241	4,530					
Average	360	547	2	1,490	61	131	363	72	1,251	4,278					
2010 January	213	678	2	1.849	54	124	197	86	1,204	4.409					
February	249	772	5	1.780	64	126	264	78	1.285	4,623					
March	272	861	2	1,564	71	128	359	80	1,432	4,769					
April	335	738	1	1.289	65	133	325	85	1.484	4.455					
May	389	627	2	1,308	72	134	274	73	1,345	4,224					
June	481	611	2	1,316	82	135	333	66	1,367	4,393					
July	467	500	2	1,411	73	136	299	76	1,384	4,349					
August	543	673	1	1,448	67	136	369	63	1,438	4,738					
8-Month Average	370	682	2	1,494	69	132	303	76	1,368	4,736					
2009 8-Month Average	375	526	2	1,402	60	131	379	75	1,254	4,205					
2008 8-Month Average	427	602	1	1,485	73	132	404	73 88	1,403	4,616					

a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
 b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

• Totals may not equal sum of components due to independent rounding.

• Geographic coverage is the 50 States and the District of Columbia

Web Page: See http://www.eia.gov/emeu/mer/petro.html for all available data beginning in 1973.

Sources: See end of section.

Definished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

C Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

(s)=Less than 500 barrels per day and greater than -500 barrels per day.

Geographic coverage is the 50 States and the District of Columbia.

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

1975 Average	
1975 Average 39 998 992 31 70 6,512 310 8,951 107 1 1 1980 Average 35 1,311 1,062 13 77 6,461 608 9,546 79 2 1 1985 Average 27 1,491 1,218 21 71 6,667 342 9,838 40 3 1990 Average 24 1,722 1,522 16 80 7,080 443 10,888 45 14 1995 Average 21 1,973 1,514 13 76 7,674 397 11,668 51 37 1996 Average 22 2,198 1,599 10 78 7,883 310 12,099 52 46 1997 Average 22 2,198 1,599 10 78 7,883 310 12,099 52 46 1998 Average 19 2,263 1,622 13 81 8,128 294 12,420 64 56 51 2000 Average 20 2,422 1,725 8 81 8,370 366 13,012 82 45 2000 Average 20 2,422 1,725 8 81 8,370 366 13,012 82 45 2000 Average 19 2,489 1,655 10 74 8,435 255 12,938 80 47 2002 Average 18 2,536 1,614 10 73 8,662 295 13,208 60 80 2003 Average 16 2,665 1,578 12 68 8,733 249 13,321 76 79 2004 Average 17 2,783 1,630 14 69 8,887 321 13,720 52 101 2005 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2007 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2007 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2007 Average 17 2,783 1,550 31 70 8,910 389 13,750 30 60 April 17 2,908 1,552 31 70 8,910 399 3,750 30 60 April 17 2,908 1,552 31 70 8,910 399 3,750 30 60 April 17 2,908 1,552 31 70 8,910 399 3,750 30 60 62 3,748 3,749 3	30 1,388 39 1,151 478 35 478 37 566 477 334 73 360 11 410 56 576 58 505 58 505 57 427 79 534 42 535 52 547 57 289 73 293
1975 Average	30 1,388 39 1,151 478 35 478 37 566 477 334 73 360 11 410 56 576 58 505 58 505 57 427 79 534 42 535 52 547 57 289 73 293
1986 Average	59 1,151 55 478 57 566 57 334 73 360 11 410 56 576 58 505 58 5
1986 Average	35 478 107 566 147 334 143 360 11 410 166 576 18 535 18 535 18 505 18 535 18 505 18 535 18 505 18 535 18
1999 Average	07 566 47 334 73 360 111 410 56 576 18 535 78 505 87 427 79 534 32 535 32 535 32 547 57 289 73 293 255 235
1995 Average 21	47 334 73 360 11 410 56 576 58 505 87 564 37 427 79 534 32 535 32 547 57 289 73 293 255 235
1996 Average	73 360 11 410 56 576 68 535 78 505 87 564 87 427 79 534 422 535 82 547 67 289 73 293
1997 Average	11 410 56 576 18 535 18 505 18 505
1998 Average	56 576 18 535 78 505 87 564 87 427 79 534 82 535 82 547 67 289 73 293 95 235
1999 Average	18 535 78 505 87 564 87 427 79 534 32 535 32 547 77 289 73 293 05 235
2000 Average 20 2,422 1,725 8 81 8,370 386 13,012 82 45 2001 Average 19 2,489 1,655 10 74 8,435 255 12,938 80 47 2002 Average 18 2,536 1,614 10 73 8,662 295 13,208 60 80 2003 Average 16 2,665 1,578 12 68 8,733 249 13,321 76 79 2004 Average 17 2,783 1,630 14 69 8,887 321 13,720 52 101 2005 Average 19 2,858 1,679 20 68 8,948 365 13,957 54 111 2006 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2007 Average 17 3,037 1,622 16 69 9,093 433 14,287 42 78 2008 January 13 2,564 1,581 34 67 8,658 426 13,343 51 78 78 78 78 78 79 79 79	78 505 87 564 87 427 79 534 82 535 82 547 67 289 73 293 95 235
2001 Average	87 564 87 427 79 534 82 535 82 547 67 289 73 293 05 235
2002 Average 18 2,536 1,614 10 73 8,662 295 13,208 60 80 2003 Average 16 2,665 1,578 12 68 8,733 249 13,321 76 79 2004 Average 19 2,858 1,679 20 68 8,948 365 13,957 54 111 2006 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2007 Average 17 3,037 1,622 16 69 9,093 433 14,287 42 78 2008 January 13 2,564 1,581 34 67 8,658 426 13,343 51 78 Ebruary 12 2,616 1,553 33 64 8,713 318 13,309 41 77 March 16 2,783 1,552 31 70 8,910 389 13,750	37 427 79 534 32 535 32 547 57 289 73 293
2003 Average 16 2,665 1,578 12 68 8,733 249 13,321 76 79 2004 Average 17 2,783 1,630 14 69 8,887 321 13,720 52 101 2005 Average 19 2,858 1,679 20 68 8,948 365 13,957 54 111 2006 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2008 January 13 2,564 1,581 34 67 8,658 426 13,343 51 78 February 12 2,616 1,553 33 64 8,713 318 13,309 41 77 March 16 2,783 1,552 31 70 8,910 389 13,750 30 60 April 17 2,908 1,622 27 71 8,955 488 14,088	79 534 32 535 32 547 57 289 73 293
2004 Average	32 535 32 547 57 289 73 293
2005 Average 19 2,858 1,679 20 68 8,948 365 13,957 54 111 2006 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2007 Average 17 3,037 1,622 16 69 9,093 433 14,287 42 78 2008 January 13 2,564 1,581 34 67 8,658 426 13,343 51 78 February 12 2,616 1,553 33 64 8,713 318 13,349 41 77 March 16 2,783 1,552 31 70 8,910 389 13,750 30 60 April 17 2,908 1,622 27 71 8,955 488 14,088 31 68 May 19 2,945 1,520 26 69 9,092 465 14,208 31 </td <td>32 547 57 289 73 293</td>	32 547 57 289 73 293
2006 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 2007 Average 17 3,037 1,622 16 69 9,093 433 14,178 35 97 2008 January 13 2,564 1,581 34 67 8,658 426 13,343 51 78 February 12 2,616 1,553 33 64 8,713 318 13,309 41 77 March 16 2,783 1,552 31 70 8,910 389 13,750 30 60 April 17 2,908 1,622 27 71 8,955 488 14,088 31 68 May 19 2,945 1,590 26 69 9,092 465 14,206 30 62 June 16 2,945 1,623 27 67 8,953 414 14,078 32	289 293 295 235
2007 Average 17 3,037 1,622 16 69 9,093 433 14,287 42 78 2008 January 13 2,564 1,581 34 67 8,658 426 13,343 51 78 February 12 2,616 1,553 33 64 8,713 318 13,309 41 77 March 16 2,783 1,552 31 70 8,910 389 13,750 30 60 April 17 2,908 1,622 27 71 8,955 488 14,088 31 68 May 19 2,945 1,590 26 69 9,092 465 14,206 30 62 June 16 2,945 1,623 27 67 8,953 414 14,046 45 79 July 16 2,955 1,574 28 67 8,997 318 14,026 28 7	73 293 05 235
February 12 2,616 1,553 33 64 8,713 318 13,309 41 77 March 16 2,783 1,552 31 70 8,910 389 13,750 30 60 April 17 2,908 1,622 27 71 8,955 488 14,088 31 68 May 19 2,945 1,590 26 69 9,092 465 14,206 30 62 June 16 2,945 1,623 27 67 8,953 414 14,046 45 79 July 16 2,955 1,574 28 67 8,992 445 14,078 32 68 August 18 2,971 1,639 27 76 8,977 318 14,026 28 72 September 16 2,886 1,478 21 47 8,351 302 13,100 29 70	
February 12 2,616 1,553 33 64 8,713 318 13,309 41 77 March 16 2,783 1,552 31 70 8,910 389 13,750 30 60 April 17 2,908 1,622 27 71 8,955 488 14,088 31 68 May 19 2,945 1,590 26 69 9,092 465 14,206 30 62 June 16 2,945 1,623 27 67 8,953 414 14,046 45 79 July 16 2,955 1,574 28 67 8,953 414 14,078 32 68 August 18 2,971 1,639 27 76 8,977 318 14,078 32 68 August 18 2,971 1,639 27 76 8,977 318 14,008 28 72 <	11 209
April 17 2,908 1,622 27 71 8,955 488 14,088 31 68 May 19 2,945 1,590 26 69 9,092 465 14,206 30 62 June 16 2,945 1,623 27 67 8,953 414 14,046 45 79 July 16 2,955 1,574 28 67 8,992 445 14,078 32 68 August 18 2,971 1,639 27 76 8,977 318 14,026 28 72 September 16 2,886 1,478 21 47 8,351 302 13,100 29 70 October 12 3,005 1,417 26 71 8,869 412 13,812 25 72 November 15 2,780 1,440 27 44 8,750 332 13,88 28 67 December 14 2,629 1,395 28 50 8,774 <	
April 17 2,908 1,622 27 71 8,955 488 14,088 31 68 May 19 2,945 1,590 26 69 9,092 465 14,206 30 62 June 16 2,945 1,623 27 67 8,953 414 14,046 45 79 July 16 2,955 1,574 28 67 8,992 445 14,078 32 68 August 18 2,971 1,639 27 76 8,977 318 14,026 28 72 September 16 2,886 1,478 21 47 8,351 302 13,100 29 70 October 12 3,005 1,417 26 71 8,869 412 13,812 25 72 November 15 2,780 1,440 27 44 8,750 332 13,388 28 67 December 14 2,629 1,395 28 64 8,834	75 165
June 16 2,945 1,623 27 67 8,953 414 14,046 45 79 July 16 2,955 1,574 28 67 8,992 445 14,078 32 68 August 18 2,971 1,639 27 76 8,977 318 14,026 28 72 September 16 2,886 1,478 21 47 8,351 302 13,100 29 70 October 12 3,005 1,417 26 71 8,869 412 13,812 25 72 November 15 2,780 1,440 27 44 8,750 332 13,388 28 67 December 14 2,629 1,395 28 50 8,774 480 13,369 43 66 Average 15 2,833 1,539 28 64 8,834 400 13,712 34 7	38 187
July 16 2,955 1,574 28 67 8,992 445 14,078 32 68 August 18 2,971 1,639 27 76 8,977 318 14,026 28 72 September 16 2,886 1,478 21 47 8,351 302 13,100 29 70 October 12 3,005 1,417 26 71 8,869 412 13,812 25 72 November 15 2,780 1,440 27 44 8,750 332 13,388 28 67 December 14 2,629 1,395 28 50 8,774 480 13,369 43 66 Average 15 2,833 1,539 28 64 8,834 400 13,712 34 70 2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,	91 183
August 18 2,971 1,639 27 76 8,977 318 14,026 28 72 September 16 2,886 1,478 21 47 8,351 302 13,100 29 70 October 12 3,005 1,417 26 71 8,869 412 13,812 25 72 November 15 2,780 1,440 27 44 8,750 332 13,388 28 67 December 14 2,629 1,395 28 50 8,774 480 13,369 43 66 Average 15 2,833 1,539 28 64 8,834 400 13,712 34 70 2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8	58 281
September 16 2,886 1,478 21 47 8,351 302 13,100 29 70 October 12 3,005 1,417 26 71 8,869 412 13,812 25 72 November 15 2,780 1,440 27 44 8,750 332 13,388 28 67 December 14 2,629 1,395 28 50 8,774 480 13,369 43 66 Average 15 2,833 1,539 28 64 8,834 400 13,712 34 70 2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8,749 407 13,177 39	25 226
October 12 3,005 1,417 26 71 8,869 412 13,812 25 72 November 15 2,780 1,440 27 44 8,750 332 13,388 28 67 December 14 2,629 1,395 28 50 8,774 480 13,369 43 66 Average 15 2,833 1,539 28 64 8,834 400 13,712 34 70 2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8,749 407 13,177 39 76 April 15 2,561 1,432 27 61 8,874 493 13,463 26	06 205
November 15 2,780 1,440 27 44 8,750 332 13,388 28 67 December 14 2,629 1,395 28 50 8,774 480 13,369 43 66 Average 15 2,833 1,539 28 64 8,834 400 13,712 34 70 2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8,749 407 13,177 39 76 April 15 2,561 1,432 27 61 8,874 493 13,463 26 69 May 13 2,644 1,329 25 49 8,927 277 13,265 33 <t< td=""><td>31 230</td></t<>	31 230
December 14 2,629 1,395 28 50 8,774 480 13,369 43 66 Average 15 2,833 1,539 28 64 8,834 400 13,712 34 70 2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8,749 407 13,177 39 76 April 15 2,561 1,432 27 61 8,874 493 13,463 26 69 May 13 2,644 1,329 25 49 8,927 277 13,265 33 67 June 18 2,736 1,425 25 60 9,022 388 13,674 32 69	76 173
Average 15 2,833 1,539 28 64 8,834 400 13,712 34 70 2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8,749 407 13,177 39 76 April 15 2,561 1,432 27 61 8,874 493 13,463 26 69 May 13 2,644 1,329 25 49 8,927 277 13,265 33 67 June 18 2,736 1,425 25 60 9,022 388 13,674 32 69 July 19 2,710 1,506 26 59 9,101 175 13,596 29 69	38 183
2009 January 13 2,434 1,312 30 58 8,474 427 12,750 58 66 February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8,749 407 13,177 39 76 April 15 2,561 1,432 27 61 8,874 493 13,463 26 69 May 13 2,644 1,329 25 49 8,927 277 13,265 33 67 June 18 2,736 1,425 25 60 9,022 388 13,674 32 69 July 19 2,710 1,506 26 59 9,101 175 13,596 29 69	21 229
February 10 2,462 1,356 31 47 8,684 260 12,851 39 67 March 14 2,517 1,406 29 55 8,749 407 13,177 39 76 April 15 2,561 1,432 27 61 8,874 493 13,463 26 69 May 13 2,644 1,329 25 49 8,927 277 13,265 33 67 June 18 2,736 1,425 25 60 9,022 388 13,674 32 69 July 19 2,710 1,506 26 59 9,101 175 13,596 29 69	04 209
March 14 2,517 1,406 29 55 8,749 407 13,177 39 76 April 15 2,561 1,432 27 61 8,874 493 13,463 26 69 May 13 2,644 1,329 25 49 8,927 277 13,265 33 67 June 18 2,736 1,425 25 60 9,022 388 13,674 32 69 July 19 2,710 1,506 26 59 9,101 175 13,596 29 69	90 314
April 15 2,561 1,432 27 61 8,874 493 13,463 26 69 May 13 2,644 1,329 25 49 8,927 277 13,265 33 67 June 18 2,736 1,425 25 60 9,022 388 13,674 32 69 July 19 2,710 1,506 26 59 9,101 175 13,596 29 69	34 191
May 13 2,644 1,329 25 49 8,927 277 13,265 33 67 June 18 2,736 1,425 25 60 9,022 388 13,674 32 69 July 19 2,710 1,506 26 59 9,101 175 13,596 29 69	180
June	56 151
July	72 171
	30 181
	33 181
	98 197 63 157
	53 157 59 138
	12 110
	+2 110 11 129
December	79 175
2010 January	92 241
February	38 137
March	11 134
April	11 125
May	67 164
June	06 225
July	21 245
August	99 197
8-Month Average 15 2,673 1,428 30 65 8,881 369 13,460 38 70	76 184
2009 8-Month Average 15 2,600 1,402 28 57 8,872 340 13,315 36 69 2008 8-Month Average 16 2,837 1,592 29 69 8,907 408 13,859 36 71	

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

b Beginning in 2009, includes renewable diesel fuel (including biodiesel)

blended into distillate fuel oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector, Other" on Table 3.7b.

^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

^e Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

amounts of kerosene and jet fuel.

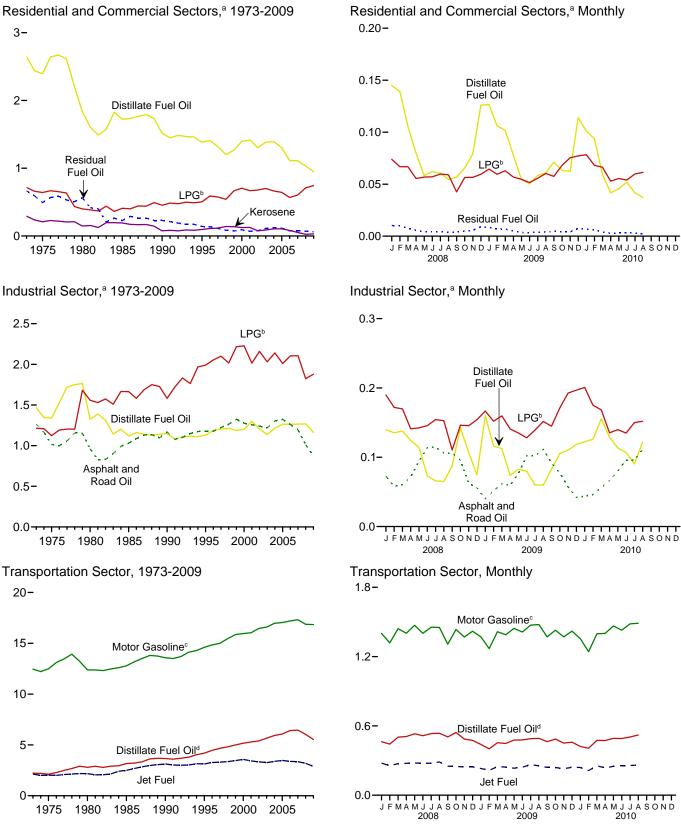
f Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

Notes: • Transportation sector data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. · Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/petro.html for all available data beginning in 1973.

Sources: See end of section.

Figure 3.8 Heat Content of Petroleum Consumption by Sector, Selected Products (Quadrillion Btu)



^a Includes combined-heat-and-power plants and a small number of electricity-only plants.

Sources: Tables 3.8a-3.8c.

^b Liquefied petroleum gases.

[°] Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
Web Page: http://www.eia.gov/emeu/mer/petro.html.

Table 3.8a Heat Content of Petroleum Consumption: Residential and Commercial Sectors (Trillion Btu)

	Residential Sector					Commercial Sector ^a								
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total			
1973 Total	2,003	227	570	2,800	644	65	147	87	NA	665	1,607			
1975 Total	1,807	161	512	2,479	587	49	129	89	NA NA	492	1,346			
1980 Total	1,316	107	311	1,734	518	41	88	107	NA NA	565	1,318			
1985 Total	1,092	159	314	1,565	631	33	95	96	NA NA	228	1,083			
1990 Total	978	64	352	1,394	536	12	102	111	· · · 0	230	991			
1995 Total	905	74	395	1,374	479	22	109	18	(s)	141	769			
1996 Total	926	89	469	1,484	483	21	122	27	(s)	137	790			
1997 Total	874	93	455	1,422	444	25	120	43	(s)	111	743			
1998 Total	772	108	424	1,304	429	31	118	39	(s)	85	702			
1999 Total	828	111	526	1,465	438	27	140	28	(s)	73	707			
2000 Total	905	95	555	1,554	491	30	150	45	(s)	92	807			
2001 Total	908	95	526	1,529	508	31	143	37	(s)	70	790			
2002 Total	860	60	537	1,457	444	16	141	45	(s)	80	726			
2003 Total	905	70	544	1,519	481	19	157	60	(s)	111	828			
2004 Total	924	85	512	1,520	470	20	152	45	(s)	122	810			
2005 Total	854	84	513	1,451	447	22	131	46	(s)	116	762			
2006 Total	712	66	446	1,224	401	15	123	49	(s)	75	664			
2007 Total	726	44	484	1,254	384	9	121	61	(s)	75	651			
2008 January	93	2	57	152	52	(s)	16	4	(s)	10	83			
February	89	3	52	145	50	1	15	4	(s)	10	79			
March	68	3	52	123	38	1	15	4	(s)	7	65			
April	51	(s)	43	94	28	(s)	12	4	(s)	6	50			
May	37	1	44	82	21	(s)	13	4	0	4	42			
June	40	. 1	44	85	22	(s)	13	4	0	4	43			
July	39	(s)	46	85	22	(s)	13	4	0	4	43			
August	35	(s)	46	81	19	(s)	13	4	0	4	40			
September	36	1	33	71	20	(s)	9	4	(s)	4	38			
October	42	1	44	87	23	(s)	13	4	(s)	5	45			
November	51	2	44	97	28	(s)	13	4	(s)	6	51			
December Total	81 664	6 21	46 553	133 1,238	45 369	1 4	13 158	4 46	(s) (s)	9 73	72 650			
Total	004		333	1,230	303	7	130	70	(3)		030			
2009 January	81 68	6 5	50 46	137 119	45 38	1 1	14 13	4 3	(s) (s)	8 7	73 62			
March	65	2	49	116	36	(s)	14	4	(s)	7	61			
April	50	2	44	96	28	(s)	13	4	0	5	50			
May	35	2	43	79	19	(s)	12	4	0	4	39			
June	32	1	40	74	18	(s)	11	4	0	3	37			
July	38	(s)	43	81	21	(s)	12	4	0	4	41			
August	39	1	47	87	22	(s)	13	4	(s)	4	43			
September	46	-1	45	90	25	(s)	13	4	(s)	5	47			
October	41	3	53	96	23	1	15	4	0	4	46			
November	40	3	59	101	22	1	17	4	(s)	4	47			
December	73	3	60	137	41	1	17	4	(s)	8	70			
Total	609	26	579	1,214	338	5	165	46	(s)	62	617			
2010 January	65	2	61	128	36	(s)	17	4	(s)	7	64			
February	60	4	53	117	33	`1	15	3	(s)	6	59			
March	38	2	52	91	21	(s)	15	4	(s)	4	44			
April	27	1	41	69	15	(s)	12	4	(s)	3	33			
May	29	1	43	74	16	(s)	12	4	0	3	36			
June	33	1	42	77	19	(s)	12	4	0	3	38			
July	27	2	47	75	15	(s)	13	4	0	3	35			
August	24	1	48	73	13	(s)	14	4	(s)	2	34			
8-Month Total	304	15	386	704	169	3	110	31	(s)	31	344			
2009 8-Month Total 2008 8-Month Total	409 453	18 10	362 385	789 849	227 252	4 2	104 110	30 31	(s) (s)	42 50	407 445			

^a Commercial sector fuel use, including combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

NA=Not available. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu. Notes: • Data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption

and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/petro.html for all available data beginning in 1973.

Sources: See end of section.

blended into motor gasoline.

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

					Industri	al Sector ^a				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1973 Total	1,264	1,469	156	1,215	195	255	558	1,858	2,114	9.083
1975 Total	1,014	1,339	119	1,123	149	223	540	1,509	2,109	8.127
1980 Total	962	1,339	181	1,559	182	158	516	1,349	3,278	9,509
1985 Total	1.029	1,119	44	1,664	166	218	575	748	2.152	7,714
1990 Total	1,170	1,150	12	1,582	186	185	714	411	2,839	8,251
1995 Total	1,178	1,131	15	1,990	178	200	721	337	2,837	8,588
1996 Total	1,176	1,187	18	2,054	173	200	757	335	3,121	9,020
1997 Total	1,224	1,203	19	2,100	182	212	727	291	3,298	9.256
1998 Total	1,263	1,211	22	2.016	191	199	858	230	3,093	9.083
1999 Total	1,324	1.187	13	2,217	193	152	936	207	3,129	9.357
2000 Total	1,276	1,200	16	2,228	190	150	796	241	2,979	9.076
2001 Total	1,257	1,300	23	2,014	174	295	858	203	3,056	9,181
2002 Total	1,240	1,204	14	2.160	172	309	842	190	3,040	9,171
2003 Total	1,220	1,136	24	2.030	159	324	825	220	3,264	9,202
2004 Total	1,304	1,214	28	2.141	161	372	934	249	3,428	9,831
2005 Total	1,323	1,264	39	2,009	160	356	889	281	3,318	9,640
2006 Total	1,261	1,263	30	2.104	156	376	934	239	3,416	9,780
2007 Total	1,197	1,265	13	2,106	161	306	906	193	3,313	9,461
2008 January	73	140	(s)	190	13	21	79	19	277	812
February	58	135	1	172	12	20	61	14	259	730
March	61	138	1	170	14	21	77	17	237	735
April	72	124	(s)	141	14	21	75	19	242	707
May	95	114	(s)	142	14	22	74	19	251	730
June	114	73	(s)	146	13	21	67	17	241	691
July	114	66	(s)	154	13	22	88	18	225	700
August	106	65	(s)	153	15	22	75	13	219	668
September	106	88	(s)	110	9	19	51	12	202	598
October	96	142	(s)	146	14	21	74	16	272	782
November	63	107	(s)	146	9	20	67	13	263	688
December	56	75	1	154	10	21	82	21	253	672
Total	1,012	1,267	4	1,824	150	250	868	198	2,941	8,513
2009 January	40 51	160 116	1	167 152	12 8	20 19	67 60	20 11	247 214	733
February			•			21		17		633 655
March	62 59	113 74	(s)	160 141	11 12	21	64 78	17	208 209	612
April	76	83	(s)	135	10	21	81	13	209	626
May	102	80	(s) (s)	128	12	21	84	15 15	208	650
June July	102	60	(s)	139	12	22	56	8	236	635
August	111	60	(s)	152	13	22	63	12	220	654
September	92	83	(s)	145	12	20	73	9	234	667
October	78	106	(3)	171	12	21	73 54	14	218	673
November	57	110	(s)	193	11	20	57	12	192	653
December	42	119	(3)	197	11	21	62	17	219	687
Total	873	1,162	5	1,878	135	250	799	166	2,611	7,878
2010 January	44	122	(s)	201	10	20	37	17	213	664
February	46	126	1	175	11	18	44	14	206	641
March	56	155	(s)	168	13	21	67	16	254	751
April	67	129	(s)	135	12	21	59	16	255	693
May	80	113	(s)	140	13	22	51	14	239	673
June	96	107	(s)	135	15	21	60	12	234	681
July	96	90	(s)	150	14	22	56	15	244	687
August	112	122	(s)	152	13	22	69	12	254	755
8-Month Total	596	965	` 3	1,256	101	167	443	116	1,900	5,546
2009 8-Month Total 2008 8-Month Total	604 692	745 855	3 2	1,173 1,268	89 108	167 168	554 595	114 136	1,748 1,950	5,198 5,773

a Industrial sector fuel use, including that at industrial combined-heat-and-power

Notes: • Data are estimates. • For total heat content of petroleum consumption Notes. • Data are estimates. • For total rear content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a—3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/petro.html for all available data

beginning in 1973.

Sources: See end of section.

⁽CHP) and industrial electricity-only plants.

^b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

blended into motor gasoline.

^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

Table 3.8c Heat Content of Petroleum Consumption: Transportation and Electric Power **Sectors** (Trillion Btu)

				Transporta	tion Secto	r			Electric Power Sector ^a					
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oile	Petro- leum Coke	Residual Fuel Oil ^f	Total		
1973 Total	83	2,222	2,131	49	163	12,455	727	17,832	273	15	3,226	3,515		
1975 Total	71	2,121	2,029	43	155	12,435	711	17,632	226	2	2,937	3,313		
1980 Total	64	2,795	2,029	18	172	12,463	1,398	19,009	169	5	2,957	2,634		
1985 Total	50	3,170	2,179	30	156	12,784	786	19,472	85	7	998	1,090		
1990 Total	45	3,661	3,129	23	176	13,575	1,016	21,626	97	30	1,163	1,289		
1995 Total	40	4,195	3,132	18	168	14,607	911	23,070	108	81	566	755		
1996 Total	37	4.469	3,274	16	163	14.837	851	23,648	109	80	628	817		
1997 Total	40	4,672	3,308	14	172	14,999	712	23,918	111	102	715	927		
1998 Total	35	4,812	3,357	18	180	15,463	674	24,538	136	124	1,047	1,306		
1999 Total	39	5.001	3.462	14	182	15.855	665	25,219	140	112	959	1,211		
2000 Total	36	5,165	3,580	12	179	15,960	888	25,820	175	99	871	1,144		
2001 Total	35	5,292	3,426	14	164	16,041	586	25,557	171	103	1,003	1,277		
2002 Total	34	5,392	3,340	14	162	16,465	677	26,085	127	175	659	961		
2003 Total	30	5,666	3,265	17	150	16,597	571	26,297	161	175	869	1.205		
2004 Total	31	5,932	3,383	19	152	16,962	740	27,219	111	222	879	1,212		
2005 Total	35	6,076	3,475	28	151	17,043	837	27,645	115	243	876	1,235		
2006 Total	33	6.414	3,379	27	147	17,197	906	28.105	74	214	361	648		
2007 Total	32	6,457	3,358	22	152	17,321	994	28,335	89	171	397	657		
2008 January	2	463	278	4	13	1.401	83	2,243	9	15	21	44		
February	2	442	255	4	11	1,319	58	2,090	7	14	17	37		
March	2	503	273	4	13	1,319	76	2,090	5	11	15	31		
	3	508	276	3	13	1,402	92	2,312	5	12	17	34		
April May	3	532	279	3	13	1,402	92	2,290	5	12	18	35		
June	2	515	276	3	12	1,401	78	2,332	8	14	30	52 52		
July	2	534	277	3	13	1,455	87	2,200	6	13	24	43		
	3	536	288	3	14	1,452	62	2,370	5	13	21	39		
August September	2	504	251	2	9	1,432	57	2,339	5	13	25	42		
October	2	543	249	3	13	1,435	80	2,133	4	13	15	33		
November	2	486	245	3	8	1,433	63	2,323	5	12	17	34		
December	2	475	245	3	9	1,419	94	2,177	8	12	24	44		
Total	28	6,039	3,193	39	141	16,872	920	27,233	73	154	240	468		
0000 1	0	440	,	4	44	4.074	00	-	40		07	00		
2009 January	2 1	440	231 215	3	11 8	1,371 1,269	83 46	2,141 1,944	10 6	12 11	37 15	60 33		
February	2	402 454	215 247	3	10	1,269	46 79	2,212	7	14	13	33 34		
March		454 448	247	3	10		79 93		4	12	11			
April	2 2			3		1,389	93 54	2,190	1			28		
May		477	234	3	9	1,444	54 73	2,223	6	13	14	32		
June	3 3	478 489	242 265	3	11 11	1,412 1.472	73 34	2,223	6 5	12 13	15 16	33 34		
July	2	489 492	265 255	3	11	1,472	34 57	2,278 2.300	6	13	19	34 37		
August				3		1,478			4	13	19	37 29		
September October	3 2	464 486	241 239	3 4	11 11	1,371	39 65	2,131 2,236	5	8	13	29 26		
	1	486 451	239	4	10	1,429	60	2,236 2,127	5	8	8	20 20		
November December	2	451 459	230	4	10	1,370	81	2,127	6	10	8	20 24		
Total	2 7	5,541	2,883	41	127	16,839	764	26,222	71	139	181	390		
		*	•					-						
2010 January February	2 1	422 406	240 213	4 4	10 10	1,355 1,242	80 64	2,113 1,941	15 5	13 12	18 7	45 23		
March	2	475	254	4	13	1,397	79	2,223	4	13	8	25 25		
April	3	473	237	3	11	1,397	82	2,223	4	11	8	23		
May	2	492	250	3	13	1,465	70	2,210	6	12	13	31		
June	3	491	256	3	14	1,403	70 59	2,255	7	14	20	41		
July	3	504	256	3	13	1,420	71	2,233	8	15	24	47		
August	2	521	261	3	12	1,489	59	2,333	6	12	19	37		
8-Month Total	18	3,784	1,968	28	96	11,261	564	17,717	54	102	116	273		
2009 8-Month Total	18	3,681	1,932	26	84	11,250	520	17,510	51	100	139	291		
2008 8-Month Total	20	4,032	2,202	27	102	11,341	626	18,351	51	104	161	315		

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

Beginning in 2009, includes renewable diesel fuel (including biodiesel)

beginning in 2005, includes refrewable dieser füer (including blodieser) blended into distillate fuel oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector Other" on Table 3.8b.

^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

blended into motor gasoline.

^e Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

amounts of kerosene and jet fuel.

f Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

Notes: • Transportation sector data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.beginning in 1973.
Sources: See end of section. See http://www.eia.gov/emeu/mer/petro.html for all available data

Petroleum

Note 1. Petroleum Survey Respondents. The U.S. Energy Information Administration (EIA) uses a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review such industry publications as the *Oil & Gas Journal* and *Oil Daily* for information on facilities or companies starting up or closing down operations. Those sources are augmented by articles in newspapers, communications from respondents indicating changes in status, and information received from survey systems.

To supplement routine frames maintenance and to provide more thorough coverage, a comprehensive frames investigation is conducted every 3 years. This investigation results in the reassessment and recompilation of the complete frame for each survey. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

In 1991, EIA conducted a frame identifier survey of companies that produce, blend, store, or import oxygenates. A summary of the results from the identification survey was published in the *Weekly Petroleum Status Report* dated February 12, 1992, and in the February 1992 issue of the *Petroleum Supply Monthly*. In order to continue to provide relevant information about U.S. and regional gasoline supply, EIA conducted a second frame identifier survey of those companies during 1992. As a result, numerous respondents were added to the monthly surveys effective in January 1993. See *Petroleum Supply Monthly (PSM)*, Appendix B, "Frame."

Note 2. Motor Gasoline. Beginning in January 1981, EIA expanded its universe to include non-refinery blenders and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to describe refinery operations more accurately.

Beginning with the reporting of January 1993 data, EIA made adjustments to the product supplied series for finished motor gasoline. It was recognized that motor gasoline statistics published by EIA through 1992 were underreported because the reporting system was (1) not collecting all fuel ethanol blending, and (2) there was a misreporting of motor gasoline blending components that were blended into finished gasoline. The adjustments are incorporated into EIA's data beginning in January 1993. To facilitate data analysis across the 1992–1993 period, EIA prepared a table of 1992 data adjusted according to the 1993 basis. See *Petroleum Supply Monthly*, March 1993, Table H3.

Note 3. Distillate and Residual Fuel Oils. The requirement to report crude oil in pipelines or burned on leases as either distillate or residual fuel oil was eliminated. Prior to

January 1981, the refinery input of unfinished oils typically exceeded the available supply of unfinished oils.

That discrepancy was assumed to be due to the redesignation of distillate and residual fuel oils received as such but used as unfinished oil inputs by the receiving refinery. The imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of that difference was subtracted from distillate and one-third from residual. Beginning in January 1981, EIA modified its survey forms to account for redesignated product and discontinued the above-mentioned adjustment.

Prior to 1983, crude oil burned on leases and used at pipeline pump stations was reported as either distillate or residual fuel oil and was included as product supplied for these products.

Note 4. Petroleum New Stock Basis. In January 1975, 1979, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, affecting subsequent stocks reported and stock change calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:

Crude Oil: 1982—645 (Total) and 351 (Non-SPR).

Distillate Fuel Oil: 1974—224; 1980—205; and 1982—186.

Jet Fuel (Total): 1974—30; 1980—42; and 1982—39.

Liquefied Petroleum Gases: 1974—113; 1978—136; 1980—128; and 1982—102.

Propane and Propylene: 1978—86; 1980—69; and 1982—57.

Motor Gasoline (Total): 1974—225; 1980—263; 1982—244.

Residual Fuel Oil: 1974—75; 1980—91; and 1982—69. Total Petroleum: 1974—1,121; 1980—1,425; and 1982—1,461.

Stock change calculations beginning in 1975, 1979, 1981, and 1983 were made by using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream is now reported on a component basis (ethane, propane, normal butane, isobutane, and pentanes plus). This change affects stocks reported and stock change calculations. Under the new basis, 1983 end-of-year stocks, in million barrels, would have been 108 for liquefied petroleum gases, and 55 for propane and propylene.

In January 1993, changes were made in the monthly surveys to begin collecting bulk terminal and pipeline stocks of oxygenates. This change affected stocks reported and stock change calculations. However, a new basis stock level was not calculated for 1992 end-of-year stocks.

Note 5. Stocks of Alaskan Crude Oil. Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the

reporting of stock change calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Non-SPR).

Note 6. Petroleum Data Discrepancies. Due to differences internal to EIA data processing systems, some small discrepancies exist between data in the *Monthly Energy Review (MER)* and the *Petroleum Supply Annual (PSA)* and *Petroleum Supply Monthly (PSM)*. The data that have discrepancies are footnoted in Section 3 tables. The corresponding PSA/PSM values, in thousand barrels per day, are: Natural Gas Plant Liquids Production, 1976: 1,603; Total Exports, 1979: 472; Petroleum Products Exports, 1979: 237; and SPR Crude Oil Imports, 1978: 162.

Note 7. Petroleum Products Supplied and Petroleum Consumption. Total petroleum products supplied is the sum of the products supplied for each petroleum product, crude oil, unfinished oils, and gasoline blending components. For each of these except crude oil, product supplied is calculated by adding refinery production, natural gas plant liquids production, new supply of other liquids, imports, and stock withdrawals, and subtracting stock additions, refinery inputs, and exports. Crude oil product supplied is the sum of crude oil burned on leases and at pipeline pump stations as reported on Form EIA-813, "Monthly Crude Oil Report." Prior to 1983, crude oil burned on leases and used at pipeline pump stations was reported as either distillate or residual fuel oil and was included as product supplied for these products. Petroleum product supplied (see Tables 3.5 and 3.6) is an approximation of petroleum consumption and is synonymous with the term "Petroleum Consumption" in Tables 3.7a-3.8c.

Table 3.6 Sources

Asphalt and Road Oil, Aviation Gasoline, Distillate Fuel Oil, Kerosene, Propane, Lubricants, Petroleum Coke, and Residual Fuel Oil

Product supplied data in thousand barrels per day for these petroleum products are from Table 3.5, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Jet Fuel

Product supplied data in thousand barrels per day for kerosene-type jet fuel and, through 2004, naphtha-type jet fuel are from EIA's *Petroleum Supply Annual (PSA)*, *Petroleum Supply Monthly (PSM)*, and earlier publications (see sources for Table 3.5). These data are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total jet fuel product supplied is the sum of the data in trillion Btu for kerosene-type and naphtha-type jet fuel.

Liquefied Petroleum Gases (LPG) Total

Prior to the current two months, product supplied data in thousand barrels per day for the component products of

LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) are from the PSA, PSM, and earlier publications (see sources for Table 3.5). These data are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total LPG product supplied is the sum of the data in trillion Btu for the LPG component products.

For the current two months, product supplied data in thousand barrels per day for total LPG are from Table 3.5, and are converted to trillion Btu by multiplying by the LPG heat content factors in Table A3.

Motor Gasoline

Product supplied data in thousand barrels per day for motor gasoline are from Table 3.5, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Other Petroleum Products

Prior to the current two months, product supplied data in thousand barrels per day for "other" petroleum products are from the PSA, PSM, and earlier publications (see "Other" petroleum products sources for Table 3.5). include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products; beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components; beginning in 1983, also includes crude oil burned as fuel; and beginning in 2005, also includes naphtha-type jet fuel. These data are converted to trillion Btu by multiplying by the appropriate heat content factors in MER Table A1. Total "Other" petroleum product supplied is the sum of the data in trillion Btu for the individual products.

For the current two months, total "Other" petroleum products supplied is calculated using data in trillion Btu from Table 3.6 as total petroleum product supplied minus asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, total LPG, lubricants, motor gasoline, petroleum coke, and residual fuel oil.

Total Petroleum

Prior to the current two months, total petroleum product supplied is the sum of the data in trillion Btu for the products (except "Propane") shown in Table 3.6. For the current two months, product supplied data in thousand barrels per day for total petroleum are from Table 3.5, and are converted to trillion Btu by multiplying by the total petroleum consumption heat content factors in Table A3.

Tables 3.7a-3.7c Sources

Petroleum consumption data in these tables are derived from data for "petroleum products supplied" from the following sources:

1973–1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual."

1976–1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual."

1981–2009: EIA, Petroleum Supply Annual.

2010: EIA, Petroleum Supply Monthly.

Energy-use allocation procedures by individual product are as follows:

Asphalt and Road Oil

All consumption of asphalt and road oil is assigned to the industrial sector.

Aviation Gasoline

All consumption of aviation gasoline is assigned to the transportation sector.

Distillate Fuel Oil

Distillate fuel oil consumption is assigned to the sectors as follows:

Distillate Fuel Oil Consumed by the Electric Power Sector

See sources for Table 7.4b. For 1973–1979, electric utility consumption of distillate fuel oil is assumed to be the amount of petroleum (minus small amounts of kerosene and kerosene-type jet fuel deliveries) consumed in gas turbine and internal combustion plants. For 1980–2000, electric utility consumption of distillate fuel oil is assumed to be the amount of light oil (fuel oil nos. 1 and 2, plus small amounts of kerosene and jet fuel) consumed.

Distillate Fuel Oil Consumed by the End-Use Sectors, Annually

The aggregate end-use amount is total distillate fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated into the individual end-use sectors (residential, commercial, industrial, and transportation) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172). Shares for the current year are based on the most recent Sales report.

Following are notes on the individual sector groupings:

Since 1979, the residential sector sales total is directly from the Sales reports. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

Since 1979, the commercial sector sales total is directly from the Sales reports. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into

residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

Since 1979, the industrial sector sales total is the sum of the sales for industrial, farm, oil company, off-highway diesel, and all other uses. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil company, off-highway diesel, and all other uses.

The transportation sector sales total is the sum of the sales for railroad, vessel bunkering, on-highway diesel, and military uses for all years.

Distillate Fuel Oil Consumed by the End-Use Sectors, Monthly

Residential sector and commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the residential and commercial consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: 1973–1980, the Ethyl Corporation, Monthly Report of Heating Oil Sales; for 1981 and 1982, the American Petroleum Institute, Monthly Report of Heating Oil Sales; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

The transportation highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." After 1993, the sales-for-highway-use data are no longer available as a monthly series; the 1993 data are used for allocating succeeding year's totals into months.

A distillate fuel oil "balance" is calculated as total distillate fuel oil supplied minus the amount consumed by the electric power sector, residential sector, commercial sector, and for highway use.

Industrial sector monthly consumption is estimated by multiplying each month's distillate fuel oil "balance" by the annual industrial consumption share of the annual distillate fuel oil "balance."

Total transportation sector monthly consumption is estimated as total distillate fuel oil supplied minus the amount consumed by the residential, commercial, industrial, and electric power sectors.

Jet Fuel

Through 1982, small amounts of kerosene-type jet fuel were consumed by the electric power sector. Kerosene-type jet fuel deliveries to the electric power sector as reported on Form FERC-423 (formerly Form FPC-423) were used as estimates of this consumption. Through 2004, all remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector. Beginning in 2005, kerosene-type jet fuel is consumed by the transportation sector, while naphtha-type jet fuel is classified under "Other Petroleum Products," which is assigned to the industrial sector.

Kerosene

Kerosene product supplied is allocated into the individual end-use sectors (residential, commercial, and industrial) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172).

Since 1979, the residential sector sales total is directly from the Sales reports. Prior to 1979, each year's sales category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares.

Since 1979, the commercial sector sales total is directly from the Sales reports. Prior to 1979, each year's sales category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares.

Since 1979, the industrial sector sales total is the sum of the sales for industrial, farm, and all other uses. Prior to 1979, each year's sales category called "heating" is split into residential, commercial and industrial in proportion to the 1979 shares, and this estimated industrial (including farm) portion is added to all other uses.

Liquefied Petroleum Gases (LPG)

The annual shares of LPG's total consumption that are estimated to be used by each sector are applied to each month's total LPG consumption to create monthly sector consumption estimates. The annual sector shares are calculated as described below.

Sales of LPG to the residential and commercial sectors combined are converted from thousand gallons per year to thousand barrels per year and are assumed to be the annual consumption of LPG by the combined sectors. Since 2003, residential sector LPG consumption is assumed to equal propane retail sales, with the remainder of the combined residential and commercial LPG consumption being assigned to the commercial sector. Prior to 2003, residential sector LPG consumption is based on the average of the State residential shares for 2003–2008, with the remainder of the combined residential and commercial LPG consumption being assigned to the commercial sector.

The quantity of LPG sold each year for consumption in internal combustion engines is allocated between the transportation and industrial sectors on the basis of data for special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration, in *Highway Statistics*. The allocations of LPG sold for internal combustion engine use to the transportation sector range from a low of 20 percent (in 2001) to a high of 78 percent (in 2008).

LPG consumed annually by the industrial sector is estimated as the difference between LPG total product supplied and the sum of the estimated LPG consumption by the residential, commercial, and transportation sectors. The industrial sector LPG consumption includes LPG used by chemical plants as raw materials or solvents and used in the production of synthetic rubber; refinery fuel use; use as synthetic natural gas feedstock and use in secondary recovery projects; all farm use; LPG sold to gas utility companies for distribution through the mains; and a portion of the use of LPG as an internal combustion engine fuel.

Sources of the annual sales data for creating annual energy shares are:

1973–1982: EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports, based primarily on data collected by Form EIA-174, "Sales of Liquefied Petroleum Gases." 1983: End-use consumption estimates for 1983 are based on 1982 end-use consumption because the collection of data under Form EIA-174 was discontinued after data year 1982. 1984 forward: American Petroleum Institute (API), "Sales of Natural Gas Liquids and Liquefied Refinery Gases," which is based on an LPG sales survey jointly sponsored by API, the Gas Processors Association, and the National Liquefied Petroleum Gas Association. EIA adjusts the data to remove quantities of pentanes plus and to estimate withheld values.

Lubricants

The consumption of lubricants is allocated to the industrial and transportation sectors for all months according to proportions developed from annual sales of lubricants to the two sectors from U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases." The 1973 shares are applied to 1973 and 1974; the 1975 shares are applied to 1975 and 1976; and the 1977 shares are applied to 1977 forward.

Motor Gasoline

The total monthly consumption of motor gasoline is allocated to the sectors in proportion to aggregations of annual sales categories created on the basis of the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Tables MF-21, MF-24, and MF-25, as follows:

Commercial sales are the sum of sales for public non-highway use and miscellaneous and unclassified uses.

Industrial sales are the sum of sales for agriculture, construction, and industrial and commercial use as classified in the Highway Statistics.

Transportation sales are the sum of sales for highway use (minus the sales of special fuels, which are primarily diesel fuel and are accounted for in the transportation sector of distillate fuel) and sales for marine use.

Petroleum Coke

Portions of petroleum coke are consumed by the electric power sector (see sources for Table 7.4b) and the commercial sector (see sources for Table 7.4c). The remaining petroleum coke is assigned to the industrial sector.

Residual Fuel Oil

Residual fuel oil consumption is assigned to the sectors as follows:

Residual Fuel Oil Consumed by the Electric Power Sector

See sources for Table 7.4b. For 1973–1979, electric utility consumption of residual fuel oil is assumed to be the amount of petroleum consumed in steam-electric power plants. For 1980-2000, electric utility consumption of residual fuel oil is assumed to be the amount of heavy oil (fuel oil nos. 4, 5, and 6) consumed.

Residual Fuel Oil Consumed by the End-Use Sectors, Annually

The aggregate end-use amount is total residual fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated into the individual end-use sectors (commercial, industrial, and transportation) in proportion to each sector's share of sales as reported in EIA's Fuel Oil and Kerosene Sales (Sales) report series (DOE/EIA-535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172). Shares for the current year are based on the most recent Sales report.

Following are notes on the individual sector groupings:

Since 1979, commercial sales data are directly from the Sales reports. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into commercial and industrial in proportion to the 1979 shares.

Since 1979, industrial sales data are the sum of sales for industrial, oil company, and all other uses. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into commercial and industrial in proportion to the 1979 shares, and this estimated industrial portion is added to oil company and all other uses.

Transportation sales are the sum of sales for railroad, vessel bunkering, and military uses for all years.

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Residual Fuel Oil Consumed by the End-Use Sectors, Monthly

Commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: for 1973–1980, the Ethyl Corporation, *Monthly* Report of Heating Oil Sales; for 1981 and 1982, the American Petroleum Institute, Monthly Report of Heating Oil Sales; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

A residual fuel oil "balance" is calculated as total residual fuel oil supplied minus the amount consumed by the electric power sector, commercial sector, and by industrial combined-heat-and-power plants (see sources for Table 7.4c).

Transportation sector monthly consumption is estimated by multiplying each month's residual fuel oil "balance" by the annual transportation consumption share of the annual residual fuel oil "balance."

Total industrial sector monthly consumption is estimated as total residual fuel oil supplied minus the amount consumed by the commercial, transportation, and electric power sectors.

Other Petroleum Products

Consumption of all remaining petroleum products is assigned to the industrial sector. Other petroleum products include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

Table 3.8a Sources

Distillate Fuel Oil, Kerosene, Petroleum Coke, and Residual Fuel Oil

Residential and/or commercial sector consumption data in thousand barrels per day for these petroleum products are from Table 3.7a, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Liquefied Petroleum Gases (LPG)

Residential and commercial sector consumption data in thousand barrels per day for LPG are from Table 3.7a, and are converted to trillion Btu by multiplying by the propane heat content factor in Table A1.

Motor Gasoline

Commercial sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7a, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Total Petroleum

Residential sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Residential Sector" in Table 3.8a. Commercial sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Commercial Sector" in Table 3.8a.

Table 3.8b Sources

Asphalt and Road Oil, Distillate Fuel Oil, Kerosene, Lubricants, Petroleum Coke, and Residual Fuel Oil Industrial sector consumption data in thousand barrels per day for these petroleum products are from Table 3.7b, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Liquefied Petroleum Gases (LPG)

Industrial sector consumption data for LPG are calculated by subtracting LPG consumption data in trillion Btu for the residential (Table 3.8a), commercial (Table 3.8a), and transportation (Table 3.8c) sectors from total LPG consumption (Table 3.6).

Motor Gasoline

Industrial sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7b, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Other Petroleum Products

Industrial sector "Other" petroleum data are equal to the "Other" petroleum data in Table 3.6.

Total Petroleum

Industrial sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown in Table 3.8b.

Table 3.8c Sources

Aviation Gasoline, Distillate Fuel Oil, Lubricants, Petroleum Coke, and Residual Fuel Oil

Transportation and/or electric power sector consumption data in thousand barrels per day for these petroleum products are from Table 3.7c, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Jet Fuel

Transportation sector consumption data in thousand barrels per day for kerosene-type jet fuel and, through 2004, naphtha-type jet fuel (see sources for Table 3.7c) are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total transportation sector jet fuel consumption is the sum of the data in trillion Btu for kerosene-type and naphtha-type jet fuel.

Liquefied Petroleum Gases (LPG)

Transportation sector consumption data in thousand barrels per day for LPG are from Table 3.7c, and are converted to trillion Btu by multiplying by the propane heat content factor in Table A1.

Motor Gasoline

Transportation sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7c, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Total Petroleum

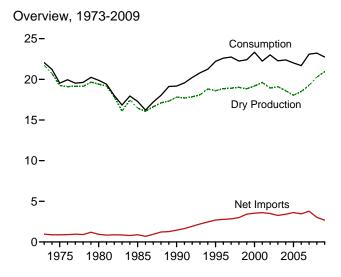
Transportation sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Transportation Sector" in Table 3.8c. Electric power sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Electric Power Sector" in Table 3.8c.

Natural Gas

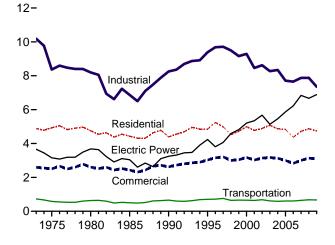


Natural gas pipeline, El Paso County, Texas. Source: U.S. Department of Energy.

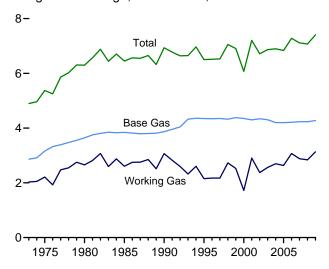
Figure 4.1 Natural Gas (Trillion Cubic Feet)



Consumption by Sector, 1973-2009



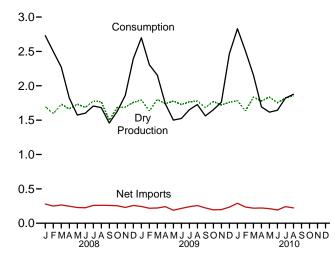
Underground Storage, End of Year, 1973-2009



Web Page: http://www.eia.gov/emeu/mer/natgas.html.

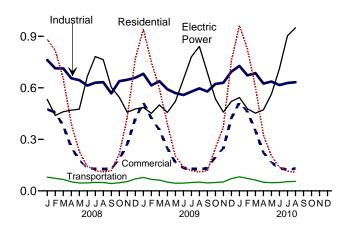
Sources: Tables 4.1, 4.3, and 4.4.

Overview, Monthly



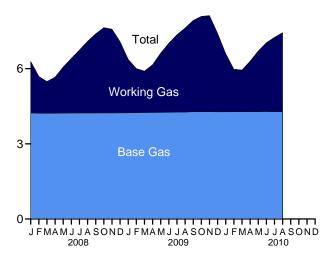
Consumption by Sector, Monthly

1.2-



Underground Storage, End of Month

9-



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Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	Gross With- drawals ^a	Marketed Production (Wet) ^b	Extraction Loss ^c	Dry Gas Production ^d	Supple- mental Gaseous Fuels ^e	Imports	Trade Exports	Net Imports	Net Storage With- drawals ^f	Balancing Item ^g	Consump- tion ^h
1973 Total 1975 Total 1980 Total	24,067 21,104 21,870	^j 22,648 ^j 20,109 20,180	917 872 777	^j 21,731 ^j 19,236 19,403	NA NA 155	1,033 953 985	77 73 49	956 880 936	-442 -344 23	-196 -235 -640	22,049 19,538 19,877
1985 Total	19,607	17,270	816	16,454	126	950	55	894	235	-428	17,281
1990 Total	21,523	18,594	784	17,810	123	1,532	86	1,447	-513	307	¹ 19,174
1995 Total 1996 Total	23,744 24,114	19,506 19,812	908 958	18,599 18,854	110 109	2,841 2,937	154 153	2,687 2.784	415 2	396 860	22,207 22,609
1997 Total	24,213	19,866	964	18.902	103	2,994	157	2.837	24	871	22,737
1998 Total	24,108	19,961	938	19,024	102	3,152	159	2,993	-530	657	22,246
1999 Total	23,823	19,805	973	18,832	98	3,586	163	3,422	172	-119	22,405
2000 Total 2001 Total	24,174 24,501	20,198 20,570	1,016 954	19,182 19,616	90 86	3,782 3,977	244 373	3,538 3,604	829 -1,166	-305 99	23,333 22,239
2002 Total	23,941	19,885	957	18,928	68	4,015	516	3,499	468	44	23,007
2003 Total	24,119	19,974	876	19,099	68	3,944	680	3,264	-197	44	22,277
2004 Total	23,970	19,517	927	18,591	60	4,259	854	3,404	-114	448	22,389
2005 Total 2006 Total	23,457 23,535	18,927 19,410	876 906	18,051 18,504	64 66	4,341 4,186	729 724	3,612 3,462	52 -436	232 89	22,011 21,685
2007 Total	24,664	20,196	930	19,266	63	4,608	822	3,785	192	-209	23,097
2008 January	2,164	1,775	80	1,695	1	R 390	109	R 280	837	R -85	2,729
February March	2,049 2,213	1,672 1.814	75 81	1,597 1,732	5 6	^R 350 ^R 367	99 100	^R 250 ^R 266	603 225	^R 44 ^R 42	2,499 2.271
April	2,213	1,742	78	1,664	5	R 322	74	R 248	-195	R 99	1.822
May	2,169	1,815	81	1,733	5	R 297	69	R 228	-412	R 20	1,575
June	2,122	1,764	79	1,685	6	R 287	62	R 225	-349	R 34	1,602
July August	2,212 2,217	1,861 1,851	84 83	1,777 1,768	4 5	R 323 R 329	63 67	^R 259 ^R 262	-348 -357	R 14 R 3	1,706 1,681
September	1,929	1,569	70	1,766	5 5	R 314	55	R 259	-306	R 2	1,458
October	2,165	1,767	79	1,687	6	R 321	67	R 254	-248	R -69	1,631
November	2,160	1,769	79	1,690	6	R 320	90	R 230	61	R -127	1,860
December Total	2,240 25,754	1,841 21,240	83 953	1,759 20,286	6 61	R 365 R 3,984	106 963	^R 259 ^R 3,021	523 34	^R -153 ^R -175	2,393 23,227
2009 January	2,250	E 1,867	74	E 1,793	6	357	113	244	698	-42	2,699
February	2,070	E 1,704 E 1.879	68	E 1,636 E 1,801	5	322	103 104	218	371 98	75 28	R 2,305
March April	2,281 2,183	E 1,814	78 76	E 1,739	6 5	325 322	80	221 242	-246	26 -4	2,154 1,736
May	2,231	E 1,860	81	E 1,779	5	266	77	189	-467	-5	1,501
June	2,140	E 1,804	77	E 1,727	2	282	66	216	-387	-33	1,525
July	2,176 2.167	E 1,846 E 1,859	79 80	E 1,767 E 1,779	5 6	317 337	76 79	240 258	-330 -268	-31 ^R -48	1,651 ^R 1,727
August September	2,107	E 1,761	79	E 1,683	5	307	79 84	223	-288	-61	1.561
October	2,212	E 1,853	82	E 1.771	6	273	78	195	-161	-160	1,651
November	2,163	E 1,800	81	E 1,720	6	295	97	198	-31	-131	1,761
December Total	2,205 26,177	E 1,845 E 21,893	84 938	E 1,760 E 20,955	6 64	350 3,751	115 1,072	234 2,679	699 -313	-233 R -646	2,467 R 22,739
2010 January	2,239	E 1,864	80	E 1,783	6	384	93	291	812	^R -62	^R 2,831
February	2,064	E 1,709	75	E 1,634	5	324	R 88	236	620	R 12	R 2,508
March	2,318	E 1,919 E 1,859	84	E 1,835 E 1,779	6	319 ^R 298	99 ^R 76	^R 219 ^R 222	36	^R 59 ^R 43	R 2,155
April May	2,222 2,266	E 1,859	81 85	E 1,779	5 4	R 298	'` 76 86	213	-355 -409	R -30	^R 1,693 ^R 1,616
June	2,156	E 1,833	80	E 1,753	6	R 282	R 90	R 192	-321	^R 15	R 1,645
July	R 2,209	RE 1,905	^R 81	RE 1,824	5	R 327	R 86	^R 241	-227	R -23	R 1,822
August 8-Month Total	2,244 17,718	E 1,940 E 14,952	87 654	E 1,852 E 14,298	6 43	E 306 E 2,538	E 82 E 700	E 223 E 1,837	-186 -29	-20 -4	1,876 16,145
2009 8-Month Total 2008 8-Month Total	17,497 17,260	E 14,633 14,293	612 642	E 14,021 13,652	41 38	2,527 2,664	698 645	1,828 2,019	-530 5	-61 172	15,299 15,885

^a Gas withdrawn from natural gas and crude oil wells; excludes lease

j For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.3. See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.

R=Revised. E=Estimate. NA=Not available.

Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/natgas.html for all available data beginning in 1973.

Sources: • Imports and Exports: Table 4.2. • Consumption: Table 4.3. Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals.
 All Other 1973-2004—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2005 forward—EIA, Natural Gas Monthly, October 2010, Table 1.

condensate.

^b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section.

^c See Note 2, "Natural Gas Extraction Loss," at end of section.

d Marketed production (wet) minus extraction loss.

See Note 3, "Supplemental Gaseous Fuels," at end of section.

f Net withdrawals from underground storage. For 1980-2008, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section.

g See Note 5, "Natural Gas Balancing Item," at end of section. Since 1980,

excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

See Note 6, "Natural Gas Consumption," at end of section.

May include unknown quantities of nonhydrocarbon gases.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports							Exports		
	Algeriaª	Canada ^b	Egypta	Mexicob	Nigeria	Qatara	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	Japan ^a	Mexico ^b	Other ^{a,d}	Total
1973 Total	3	1,028	0	2	0	0	0	0	1,033	15	48	14	0	77
1975 Total	5	948	0	0	0	0	0	0	953	10	53	9	0	73
1980 Total	86	797	0	102	0	0	0	0	985	0	45	4	0	49
1985 Total	24	926	0	0	0	0	0	0	950	0	53	2	0	55
1990 Total	84	1,448	0	0	0	0	0	0	1,532	17	53	16	0	86
1995 Total	18	2,816	0	7	0	0	0	0	2,841	28	65	61	0	154
1996 Total	35	2,883	0	14	0	0	0	5	2,937	52	68	34	0	153
1997 Total	66	2,899	0	17	0	0	0	12	2,994	56	62	38	0	157
1998 Total	69	3,052	0	15	0	0	0	17	3,152	40	66	53	0	159
1999 Total	76	3,368	0	55	0	20	51	17	3,586	39	64	61	0	163
2000 Total	47	3,544	0	12	13	46	99	21	3,782	73	66	106	0	244
2001 Total	65	3,729	0	10	38	23	98	14	3,977	167	66	141	0	373
2002 Total	27	3,785	0	2	8	35	151	8	4,015	189	63	263	0	516
2003 Total	53	3,437	0	0	50	14	378	11	3,944	271	66	343	0	680
2004 Total	120	3,607	0	0	12	12	462	46	4,259	395	62	397	0	854
2005 Total	97 17	3,700	73 120	9 13	8 57	3 0	439 389	11 0	4,341 4,186	358 341	65 61	305 322	0	729 724
2007 Total	77	3,590 3,783	115	54	95	18	369 448	18	4,608	482	47	322 292	2	822
2007 Total	"	3,703	113	34	33	10	440	10	4,000	402	41	232	2	022
2008 January	0	R 360	3	1	0	0	25	0	R 390	67	3	40	0	109
February	0	R 326	0	0	0	0	21	3	R 350	59	3	37	0	99
March	0	R 342	0	1	0	0	21	3	R 367	66	3	31	0	100
April	0	R 290	3	(s)	3	0	26	0	R 322	43	3	28	0	74
May	0	R 261	3	4	0	0	25	3	R 297	40	3	25	0	69
June	0	R 251	6	3	3	3	21	0	R 287	27	4	30	0	62
July	0	R 288	6	4	0	0	25	0	R 323	30	4	30	0	63
August	0	R 289	3	4	3	0	26	3	R 329	28	5	35	0	67
September	0	^R 276 ^R 288	9	7	3	0	20	0	^R 314 ^R 321	26	3	27	0	55 67
October	0 0	R 291	3 9	6 6	0	0	24 14	0 0	R 321	35 61	3 3	28 26	0 0	67 90
November December	0	R 327	9	7	0	0	19	3	R 365	76	3	26 28	0	106
Total	0	R 3,589	55	43	12	3	267	15	R 3,984	559	39	365	0	963
2009 January	0	324	5	6	0	0	19	3	357	84	2	28	0	113
February	0	293	6	(s)	0	0	16	6	322	75	3	25	0	103
March	0	293	12	(3)	0	0	17	3	325	77	3	24	0	103
April	0	259	22	7	8	0	20	6	322	55	2	23	0	80
May	0	216	15	1	0	0	31	3	266	46	2	29	0	77
June	Ö	230	14	1	Ö	Ö	34	3	282	37	2	28	Ö	66
July	0	270	14	2	3	0	21	6	317	42	4	31	0	76
August	0	299	17	3	0	0	17	0	337	45	2	32	0	79
September	0	274	14	1	2	0	15	0	307	47	4	33	0	84
October	0	244	15	2	0	0	13	0	273	47	2	29	0	78
November	0	258	12	(s)	0	8	17	0	295	66	2	29	0	97
December	0	311	14	3	0	4	17	0	350	81	4	28	3	115
Total	0	3,271	160	28	13	13	236	29	3,751	701	31	338	3	1,072
2010 January	0	326	17	1	0	12	22	6	384	^R 68	2	23	0	93
February	0	277	12	1	0	6	16	12	324	60	2	22	3	R 88
March	0	276	9	5	3	1	16	9	319	R 77	2	21	0	99
April	0	R 251	6	5	9	9	15	3	R 298	50	4	22	0	R 76
May	0	R 257	9	4	9	0	16	3	R 298	_ 55	2	29	0	_ 86
June	0	R 248	6	2	11	0	11	5	R 282	^R 51	2	34	3	R 90
July	0	R 290	6	_ 1	5	0	17	8	R 327	_50	4	R 32	0	R 86
August	0	E 283	0	E 1	0	0	17	5	E 306	E 48	2	E 32	0	E 82
8-Month Total	0	^E 2,208	64	E 22	37	28	129	50	E 2,538	E 459	19	^E 216	7	^E 700
2009 8-Month Total	0	2,184	106	22	11	0	175	29	2,527	460	19	219	0	698
2008 8-Month Total	0	2,407	25	17	9	3	190	12	2,664	361	27	257	0	645

^a As liquefied natural gas.

Sources: • 1973-1987: U.S. Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." • 1988-2007: EIA, Natural Gas Annual, annual reports. • 2008 forward: EIA, Natural Gas Monthly, October 2010, Table 4; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

b By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981 and exported to Mexico beginning in 1998. See Note 8, "Natural Gas Imports and Exports," at end of section.

c Australia in 1997-2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002-2005; Norway in 2008 forward; Oman in 2000-2005; United Arab Emirates in 1996-2000; Yemen in 2010; and Other (unassigned) in 2004.

^d Russia in 2007; South Korea in 2009; and Spain in 2010. R=Revised. E=Estimate. (s)=Less than 500 million cubic feet.

Notes: • See Note 8, "Natural Gas Imports and Exports," at end of section.

[•] Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/natgas.html for all available data beginning in 1973.

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

		End-Use Sectors										
					Industrial		1	Tr	ansportatio	n		
	Resi-	Com-	Lease and		Other Industr	ial	-	Pipelines ^d and Dis-	Vehicle		Electric Power	
	dential	merciala	Plant Fuel	CHPb	Non-CHP ^c	Total	Total	tributione	Fuel	Total	Sector ^{f,g}	Total
1973 Total 1975 Total	4,879 4,924	2,597 2,508	1,496 1,396	(h)	8,689 6,968	8,689 6,968	10,185 8,365	728 583	NA NA	728 583	3,660 3,158	22,049 19,538
1980 Total	4,752	2,611	1,026	(h)	7,172	7,172	8,198	635	NA	635	3,682	19,877
1985 Total	4,433	2,432	966	(h)	5,901	5,901	6,867	504	NA.	504	3,044	17,281
1990 Total1995 Total	4,391 4.850	2,623 3.031	1,236 1,220	1,055 1,258	5,963 6.906	ⁱ 7,018 8.164	8,255 9.384	660 700	(s) 5	660 705	i 3,245 4,237	ⁱ 19,174 22,207
1996 Total	5.241	3,051	1,250	1,230	7,146	8.435	9.685	700 711	6	703 718	3.807	22,207
1997 Total	4,984	3,215	1,203	1,282	7,229	8,511	9,714	751	8	760	4,065	22,737
1998 Total	4,520	2,999	1,173	1,355	6,965	8,320	9,493	635	9	645	4,588	22,246
1999 Total 2000 Total	4,726 4,996	3,045 3,182	1,079 1,151	1,401 1,386	6,678 6,757	8,079 8,142	9,158 9,293	645 642	12 13	657 655	4,820 5,206	22,405 23,333
2001 Total	4,771	3,023	1,119	1,310	6,035	7,344	8,463	625	15	640	5,342	22,239
2002 Total	4,889	3,144	1,113	1,240	6,267	7,507	8,620	667	15	682	5,672	23,007
2003 Total	5,079 4.869	3,179 3.129	1,122 1.098	1,144 1.191	6,007	7,150	8,273	591 566	18 21	610 587	5,135 5,464	22,277
2004 Total 2005 Total	4,869 4.827	3,129 2,999	1,098	1,191	6,052 5,514	7,243 6,597	8,341 7,709	584	23	587 607	5,464 5,869	22,389 22.011
2006 Total	4.368	2,832	1,142	1,115	5,398	6,512	7,654	584	24	608	6.222	21,685
2007 Total	4,722	3,013	1,226	1,050	5,598	6,648	7,874	621	25	646	6,841	23,097
2008 January	882	475	103	87	572	659	761	77	2	80	531	2,729
February	817 654	457 378	97 105	78 80	538	616 608	713 713	71 64	2	73 66	439 461	2,499
March April	389	378 254	105	80 75	527 480	555	656	54 51	2 2	53	461	2,271 1,822
May	230	179	104	79	462	541	645	43	2	46	475	1,575
June	143	133	101	80	432	512	613	44	2 2	47	665	1,602
July	118	127	106	88	436	524	630	47	2	50	782	1,706
August September	111 117	126 129	106 91	89 71	438 405	527 476	632 567	46 40	2 2	49 43	763 603	1,681 1,458
October	215	184	103	80	456	536	638	45	2	47	545	1,631
November	428	273	102	74	470	544	647	52	2	54	458	1,860
December Total	768 4.872	420 3,136	106 1.224	75 955	477 5,695	552 6.650	659 7,874	67 648	2 28	70 676	476 6,668	2,393 23.227
	,-	•	,		•	.,	•				,	-,
2009 January	941 750	513 423	E 108 E 98	80 72	494 444	574 516	681 614	E 75 E 64	E 3 E 2	E 78 E 67	485 452	2,699 R 2,305
March	597	355	E 108	80	450	R 530	639	E 60	E 3	€ 63	500	2,154
April	389	247	E 105	77	410	487	592	E 48	E 3	E 51	456	1,736
May	201	166	E 107	77	385	462	569	E 42	E 3 E 3	E 45	521	1,501
June July	140 117	133 128	E 104 E 106	79 82	375 389	454 471	558 577	E 43 E 46	Eα	E 45 E 49	649 780	1,525 1.651
August	110	128	E 107	83	406	R 490	R 597	E 48	E 3	E 51	841	R 1,727
September	118	131	E 101	81	396	477	578	E 44	E 3	E 46	689	1,561
October	247	197 249	E 107 E 104	82	434 444	516	622	E 46 E 49	E 3 E 3	E 49 E 52	536	1,651
November December	372 756	249 424	E 104	82 89	R 499	526 588	630 ^R 694	E 69	E3	E 72	459 521	1,761 2,467
Total	4,739	3,095	E 1,261	964	R 5,126	R 6,090	R 7,351	E 634	E 32	E 666	6,888	R 22,739
2010 January	964	515	E_107	88	^R 531	R 620	R 727	E 79	E 3	E 82	543	R 2,831
February	825	460	E 98	77	R 497	R 574	R 672	E 70	E 3	RE 72	478	R 2,508
March April	605 324	350 223	E 111 E 107	81 77	R 494 R 440	^R 575 ^R 517	^R 686 ^R 625	E 60 E 47	E 3 E 3	E 63 E 50	452 472	R 2,155 R 1,693
May	203	166	E 111	79	^R 446	R 525	R 636	E 45	E 3	E 48	563	R 1,616
June	137	132	E 106	82	R 429	^R 510	R 616	E 46	E 3	E 49	712	R 1,645
July	114	124	RE 110	87	R 431	R 518	R 628	E 51	E 3 E 3	RE 54	903	R 1,822
August 8-Month Total	109 3,280	130 2,098	E 112 E 862	86 657	435 3,704	521 4,361	633 5,223	^E 52 ^E 450	E 22	E 55 E 472	949 5,072	1,876 16,145
2009 8-Month Total	3,246	2,094	^E 843	631	3,353	3,984	4,827	^E 427	^E 21	^E 448	4,684	15,299
2008 8-Month Total	3,343	2,130	821	655	3,887	4,542	5,363	444	19	462	4,587	15,885

 $^{^{\}rm a}$ All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table 7.4c for CHP fuel use.

b Industrial combined-heat-and-power (CHP) and a small number of industrial

Notes: • Data are for natural gas, plus a small amount of supplemental gaseous fuels. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/natgas.html for all available data

ources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Sources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1973-2004—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports. 2005 forward—EIA, Natural Gas Monthly (NGM), October 2010, Table 2. • Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992-1998—"Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). 1999-2004—EIA, NGA, annual reports. 2005 forward—EIA, NGM, October 2010, Table 2. • Electric Power Sector: Table 7.4b. October 2010, Table 2. • Electric Power Sector: Table 7.4b.

beginning in 1973.

electricity-only plants. $^{\rm c}$ All industrial sector fuel use other than that in "Lease and Plant Fuel" and

CHP."

d Natural gas consumed in the operation of pipelines, primarily in compressors.

e Natural gas used as fuel in the delivery of natural gas to consumers.

f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

h Included in "Non-CHP."

For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector."

See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 500 million cubic

feet.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	Natural Gas in Underground Storage, End of Period			From Sar	Norking Gas me Period us Year		Storage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
1973 Total	2.864	2,034	4.898	305	17.6	1,533	1.974	-442
1975 Total	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
1980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14
	3,842	2,607	6.448	-270	-3.0 -9.4	2,359		231
1985 Total			6,446 6,936		-9.4 22.1		2,128	-499
990 Total	3,868	3,068		555		1,934	2,433	
995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
1997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
1998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526
1999 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174
2000 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814
001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
2002 Total	4,340	2,375	6.715	-528	-18.2	3,138	2,670	468
2003 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193
2004 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113
2005 Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55
2006 Total	4,200 4,211	3,070	7,281	435	16.5	2,493	2,924	-431
2006 Total	4,211	3,070 2,879	7,201 7,113	-191	-6.2	2,493 3,325	2,924 3,133	-431 192
2007 TOTAL	4,234	2,079	7,113	-191	-0.2	3,323	3,133	192
2008 January	4,232	2,056	6,288	-327	-13.7	891	67	824
February	4,222	1,465	5,686	-187	-11.3	648	56	593
March	4.221	1,266	5,487	-337	-21.0	350	131	219
April	4.222	1,436	5,659	-286	-16.6	106	296	-190
May	4,225	1,840	6,065	-342	-15.7	56	461	-405
June	4,230	2,178	6,407	-405	-15.7	81	423	-342
	4,228		6,745	-379	-13.1	88	430	-342
July	4,228	2,517				92	442	-342
August		2,866	7,094	-155	-5.1			
September	4,230	3,161	7,391	-155	-4.7	98	398	-300
October	4,235	3,399	7,634	-166	-4.7	91	334	-242
November	4,232	3,346	7,577	-96	-2.8	250	193	57
December	4,232	2,840	7,073	-39	-1.4	622	110	513
Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34
2009 January	4,236	2,137	6,373	81	4.0	778	79	698
February	4.242	1,757	5,999	293	20.0	472	100	371
March	4,246	1,656	5,902	390	30.8	296	199	98
April	4,252	1,903	6,155	467	32.5	107	354	-246
May	4,253	2,367	6.620	527	28.7	45	512	-467
June	4,260	2,752	7,012	575 560	26.4	62	449	-387
July	4,266	3,086	7,352	569	22.6	83	413	-330
August	4,268	3,353	7,621	487	17.0	88	356	-268
September	4,278	3,643	7,921	482	15.3	57	346	-288
October	4,279	3,807	8,087	408	12.0	97	258	-161
November	4,284	3,833	8,117	487	14.6	140	171	-31
December	4,276	3,131	7,407	290	10.2	743	44	699
Total	4,276	3,131	7,407	290	10.2	2,968	3,281	-313
010 January	4.278	2 240	6 507	181	8.5	877	65	812
010 January		2,319	6,597					
February	4,281	1,696	5,978	-61	-3.5	660	40	620
March	4,282	1,662	5,944	6	4	240	204	36
April	4,281	2,012	6,293	109	5.7	70	425	-355
May	4,282	2,421	6,703	54	2.3	55	464	-409
June	4,289	2,741	7,030	-11	4	64	385	-321
July	4,283	2,967	7,249	-119	-3.9	114	340	-227
August	4,283	3,150	7,433	-202	-6.0	143	329	-186
8-Month Total						2,224	2,254	-29
1000 0 Manual: T-4-1						4.004	0.400	F00
009 8-Month Total 008 8-Month Total						1,931 2,312	2,462 2,305	-530 7
UUU O-IVIUIILII I ULAI						2,312	2,303	,

^a For total underground storage capacity at the end of each calendar year, see

1976-1979—EIA, Natural Gas Production and Consumption 1979, Table 1. 1980-1995—EIA, Historical Natural Gas Annual 1930 Through 2000, Table 11. 1996-2004—EIA, Natural Gas Monthly (NGM), monthly issues. 2005 forward—EIA, NGM, October 2010, Table 6. • All Other Data: 1973 and 1974—American Gas Association (AGA), Gas Facts, 1972 Data, Table 57, Gas Facts, 1973 Data, Table 57, and Gas Facts, 1974 Data, Table 40. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report," 1996-2006—EIA, NGM, monthly issues. 2007 forward—EIA, NGM, October 2010, Table 6. 1976-1979-EIA, Natural Gas Production and Consumption 1979, Table 1. forward-EIA, NGM, October 2010, Table 6.

Note 4, "Natural Gas Storage," at end of section.

b For 1980-2008, data differ from those shown on Table 4.1, which includes

liquefied natural gas storage for that period.

^c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that injections are greater than withdrawals. withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section. - =Not applicable.

Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/natgas.html for all available data beginning in 1973.

Sources: • Storage Activity: 1973-1975—U.S. Energy Information Administration (EIA), Natural Gas Annual 1994, Volume 2, Table 9.

Natural Gas

Note 1. Natural Gas Production.

Annual data—Final annual data are from the U.S. Energy Information Administration (EIA) *Natural Gas Annual (NGA)*.

Estimated monthly data—Data for the two most recent months presented are estimated. Some of the data for earlier months are also estimated or computed. For a discussion of computation and estimation procedures, see the EIA *Natural Gas Monthly (NGM)*.

Preliminary monthly data—Monthly data are considered preliminary until after publication of the EIA NGA. Preliminary monthly data are gathered from reports to the Interstate Oil Compact Commission and the U.S. Minerals Management Service. Volumetric data are converted, as necessary, to a standard 14.73 psi pressure base. Unless there are major changes, data are not revised until after publication of the EIA NGA.

Final monthly data—Differences between annual data in the EIA NGA and the sum of preliminary monthly data (January–December) are allocated proportionally to the months to create final monthly data.

Note 2. Natural Gas Extraction Loss. Extraction loss is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

Annual data are from the EIA NGA, where they are estimated on the basis of the type and quantity of liquid products extracted from the gas stream and the calculated volume of such products at standard conditions. For a detailed explanation of the calculations used to derive estimated extraction losses, see the EIA NGA.

Preliminary monthly data are estimated on the basis of extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

Monthly data are revised and considered final after the publication of the EIA NGA. Final monthly data are estimated by allocating annual extraction loss data to the months on the basis of total natural gas marketed production data from the EIA NGA.

Note 3. Supplemental Gaseous Fuels. Supplemental gaseous fuels are any substances that, introduced into or commingled with natural gas, increase the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, and air or inert gases added for Btu stabilization.

Annual data beginning with 1980 are from the EIA NGA.

Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years. Monthly data are considered preliminary until after the publication of the EIA NGA. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. The ratio is applied to the monthly sum of the three elements to compute a monthly supplemental gaseous fuels figure.

Although the total amount of supplemental gaseous fuels consumed is known for 1980 forward, the amount consumed by each energy-use sector is estimated by EIA. These estimates are used to create natural gas (without supplemental gaseous fuels) data for Tables 1.3, 2.2, 2.3, 2.4, and 2.6 (note: to avoid double-counting in these tables, supplemental gaseous fuels are accounted for in their primary energy category: "Coal," "Petroleum," or "Biomass"). It is assumed that supplemental gaseous fuels are commingled with natural gas consumed by the residential, commercial, other industrial, and electric power sectors, but are not commingled with natural gas used for lease and plant fuel, pipelines and distribution, or vehicle fuel. The estimated consumption of supplemental gaseous fuels by each sector (residential, commercial, other industrial, and electric power) is calculated as that sector's natural gas consumption (see Table 4.3) divided by the sum of natural gas consumption by the residential, commercial, other industrial, and electric power sectors (see Table 4.3), and then multiplied by total supplemental gaseous fuels consumption (see Table 4.1). For estimated sectoral consumption of supplemental gaseous fuels in Btu, the residential, commercial, and other industrial values in cubic feet are multiplied by the "End-Use Sectors" conversion factors (see Table A4), and the electric power values in cubic feet are multiplied by the "Electric Power Sector" conversion factors (see Table A4). Total supplemental gaseous fuels consumption in Btu is calculated as the sum of the Btu values for the sectors.

Note 4. Natural Gas Storage. Natural gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. The difference is due to changes in the quantity of native gas included in the base gas and/or losses in base gas due to migration from storage reservoirs.

Total underground storage capacity at the end of each calendar year since 1975 (first year data were available), in billion cubic feet, was:

1987 8,124	1999 8,229
1988 8,124	2000 8,241
1989 8,120	2001 8,415
1990 7,794	2002 8,207
1991 7,993	2003 8,206
1992 7,932	2004 8,255
1993 7,989	2005 8,268
1994 8,043	2006 8,330
1995 7,953	2007 8,402
1996 7,980	2008 8,499
1997 8,332	2009 8,569*
1998 8,179	
	1988 8,124 1989 8,120 1990 7,794 1991 7,993 1992 7,982 1993 7,989 1994 8,043 1995 7,953 1996 7,980 1997 8,332

^{*} Preliminary

Monthly underground storage data are collected from the Federal Energy Regulatory Commission (FERC) Form FERC-8 (interstate data) and EIA Form EIA-191 (intrastate data). Beginning in January 1991, all data are collected on the revised Form EIA-191. Injection and withdrawal data from the FERC-8/EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the EIA NGA.

The final monthly and annual storage and withdrawal data for 1980–2008 include both underground and liquefied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying the ratio to the annual LNG data.

Note 5. Natural Gas Balancing Item. The balancing item for natural gas represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas disposition. The differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems that vary in scope, format, definitions, and type of respondents.

The increase of 0.2 trillion cubic feet (Tcf) in the "Balancing Item" category in 1983, followed by a decline of 0.5 Tcf in 1984, reflected unusually large differences resulting from the use of the annual billing cycle (essentially December 15 through the following December 14) consumption data in conjunction with calendar year supply data. Record cold temperatures during the last half of December 1983 resulted in a reported 0.3 Tcf increase in net withdrawals from underground storage for peak shaving as compared with the same period in 1982, but the effect of this cold weather was reflected primarily in 1984 consumption data. For underground storage data, see Table F2 in the May 1985 EIA NGM, which was published in July 1985.

Note 6. Natural Gas Consumption. Consumption includes use for lease and plant fuel, pipelines and distribution, vehicle fuel, and electric power plants, as well as deliveries to residential, commercial, and other industrial customers.

Final data for series other than "Other Industrial CHP" and "Electric Power Sector" are from the EIA NGA. Monthly data are considered preliminary until after publication of the EIA NGA. For more detailed information on the methods of estimating preliminary and final monthly data, see the EIA NGM.

Note 7. Natural Gas Consumption, **1989-1992.** Prior to 1993, deliveries to nonutility generators were not separately collected from natural gas companies on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." As a result, for 1989 through 1992, those volumes are probably included in both the industrial and electric power sectors and double-counted in total consumption. In 1993, 0.28 trillion cubic feet was reported as delivered to nonutility generators.

Note 8. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Qatar, Trinidad and Tobago, the United Arab Emirates, and Yemen. In addition, very small amounts of LNG arrived from Canada in 1973 (667 million cubic feet), 1977 (572 million cubic feet), and 1981 (6 million cubic feet). The United States exports natural gas via pipeline to Canada and Mexico; and exports LNG via tanker to Japan, Russia, South Korea, and Spain. Also, small amounts of LNG have gone to Mexico since 1998.

Annual and final monthly data are from the annual EIA Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," which requires data to be reported by month for the calendar year.

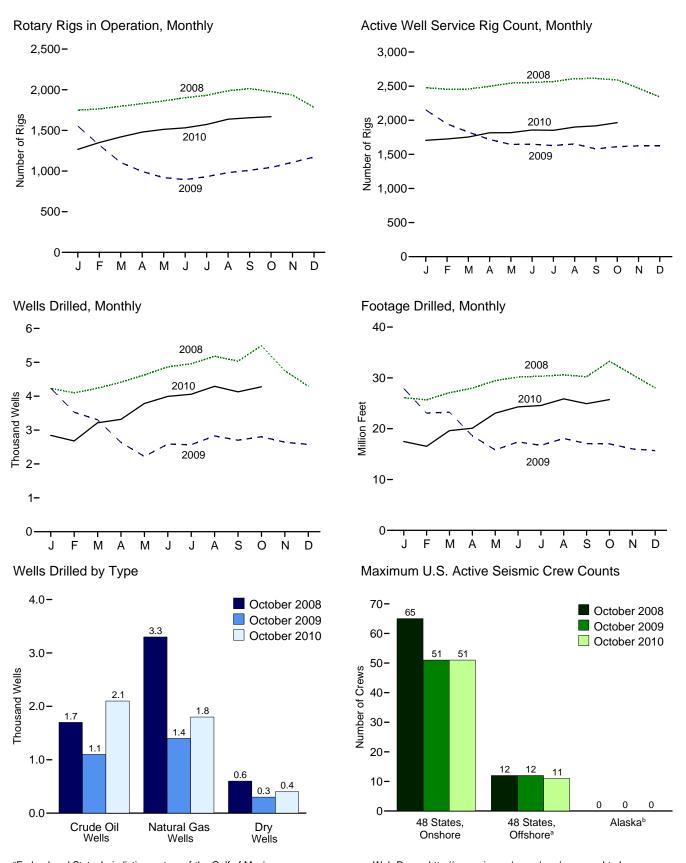
Preliminary monthly data are EIA estimates. For a discussion of estimation procedures, see the EIA NGM. Preliminary data are revised after the publication of the EIA *U.S. Imports and Exports of Natural Gas.*

Crude Oil and Natural Gas Resource Development



New oil and gas drilling activity in Wyoming. Source: Dreamstime Stock Photos.

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



^aFederal and State Jurisdiction waters of the Gulf of Mexico. ^bAll onshore.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

		R	otary Rigs in Operatio	n ^a		
	Ву	Site	Ву	Туре		Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Rig Count ^c
973 Average	1,110	84	NA	NA	1,194	2,008
	1,554	106	NA NA	NA NA	1,660	2,486
975 Average						
980 Average	2,678	231	NA	NA	2,909	4,089
985 Average	1,774	206	NA	NA	1,980	4,716
990 Average	902	108	532	464	1,010	3,658
995 Average	622	101	323	385	723	3,041
996 Average	671	108	306	464	779	3,445
997 Average	821	122	376	564	943	3,499
998 Average	703	123	264	560	827	3,014
999 Average	519	106	128	496	625	2,232
000 Average	778	140	197	720	918	2,692
000 Average		153	217	939		
001 Average	1,003				1,156	2,267
002 Average	717	113	137	691	830	1,830
003 Average	924	108	157	872	1,032	1,967
004 Average	1,095	97	165	1,025	1,192	2,064
005 Average	1,287	94	194	1,184	1,381	2,222
2006 Average	1,559	90	274	1,372	1,649	2,364
007 Average	1,695	72	297	1,466	1,768	2,388
008 January	1,690	60	321	1,421	1,749	2,476
February	1,709	56	331	1,426	1,765	2,455
March	1.737	60	343	1.444	1,797	2.457
April	1,765	64	358	1,461	1,829	2,498
May	1,794	68	375	1.478	1,863	2,546
		67	383		1,902	2,540
June	1,834			1,510		
July	1,865	67	380	1,543	1,932	2,567
August	1,920	67	397	1,581	1,987	2,611
September	1,942	72	417	1,585	2,014	2,612
October	1,903	73	422	1,542	1,976	2,591
November	1,872	63	426	1,498	1,935	2,469
December	1,716	66	391	1,380	1,782	2,342
Average	1,814	65	379	1,491	1,879	2,515
009 January	1,487	66	328	1,215	1,553	2,152
February	1.263	57	271	1.037	1.320	1.947
March	1,059	46	225	867	1,105	1,825
April	947	48	209	775	995	1,718
	864	54	187	723	918	1,646
May	848	54 47	194	691	895	1,648
June						
July	893	38	245	675	931	1,629
August	949	31	279	691	980	1,653
September	976	33	293	704	1,009	1,579
October	1,011	33	312	722	1,044	1,613
November	1,071	36	362	734	1,107	1,625
December	1,136	37	404	758	1,172	1,625
Average	1,046	44	278	801	1,089	1,722
010 January	1,225	42	433	822	1,267	1,706
February	1,305	45	446	892	1,350	1,726
March	1,368	51	471	933	1,419	1.754
April	1,426	53	508	959	1,479	1,816
	1,464	49	541	960	1,513	1.818
May						
June	1,511	20	566	953	1,531	1,857
July	1,558	15	591	971	1,573	1,852
August	1,619	20	644	983	1,638	1,900
September	1,635	19	668	977	1,655	1,918
October	1,647	21	693	966	1,668	1,965
10-Month Average	1,481	33	559	943	1,514	1,831
009 10-Month Average	1,033	45	256	812	1,078	1,741
008 10-Month Average	1,817	66	374	1,500	1,883	2,537

^a Rotary rigs in operation are reported weekly. Monthly data are averages of 4-or 5-week reporting periods, not calendar months. Multi-month data are averages of the reported data over the covered months, not averages of the weekly data. Annual data are averages over 52 or 53 weeks, not calendar years. Published data are rounded to the nearest whole number.

b Sum of rigs drilling for crude oil, rigs drilling for natural gas, and other rigs (not

NA=Not available.

NA=Not available.

Note: Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/resource.html for all available

Web Page: See http://www.eia.gov/emeu/mier/resource.ntini ioi all available data beginning in 1973.

Sources: • Rotary Rigs in Operation: By Site—Baker Hughes, Inc., Houston, Texas, Rotary Rigs Running—by State. By Type—Baker Hughes, Inc., Houston, Texas, weekly phone recording. • Active Well Service Rig Count: Cameron International Corporation, Houston, Texas. See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-

shown) drilling for miscellaneous purposes, such as service wells, injection wells,

and stratigraphic tests.

^c The number of rigs doing true workovers (where tubing is pulled from the well), or doing rod string and pump repair operations, and that are, on average, crewed and working every day of the month.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

Process	973 Total	642 982 1,777	Natural Gas	Dry	Total		Natural	<u> </u>		Crude		al		Total
Process	973 Total	642 982 1,777	1,067		Total									
Number	973 Total	982 1,777		5.050				ыу	Total	Oil		Dry	Total	Drilled
1975 Total	973 Total	982 1,777		F 050			Num	nber						Thousan Feet
1975 Total		1,777	1,248	5,952	7,661	9,525	5,866	4,368	19,759	10,167	6,933	10,320	27,420	138,223
1985 Total 1,680	1975 Total													180,494
1990 Total	980 Total	1,680												316,943
1995 Total	905 Total	778												
1996 Total	995 Total													
1997 Total	996 Total						R 8.449		R 19.725		R 9.025		R 22.746	R 126,598
1998 Total 327 566 1,590 2,483 7,348 *1,174 3,170 *21,592 7,675 *11,640 4,760 *24,075 *137,6199 Total 197 567 1,157 1,957 1,952 1 4,589 *14,1453 2,956 *18,436 *12,020 3,653 *70,0359 *10,200 Total 2267 683 1,339 2,284 7,306 *16,368 2,739 *126,985 8,093 17,044 4,122 *29,289 *144,151 2000 Total 2267 683 1,339 2,284 7,306 *16,368 2,739 *126,985 8,093 17,044 4,122 *29,289 *144,151 2000 Total 2267 844 1,279 2,284 7,760 *16,368 2,739 *16,368 8,093 *17,044 4,122 *29,289 *144,151 2000 Total 2267 844 1,279 2,284 7,760 *16,496 2,448 *22,461 8,246 *12,441 4,	997 Total						R 10,936		R 25.403		R 11,497		R 28.568	R 161.680
1999 Total 1997 Total 1997 567 1,157 1,921 4,889 *11,453 2,396 *18,438 4,786 *12,020 3,553 *20,359 *102,37 (2000 Total 287 688 1,339 2,234 7,396 *16,886 2,373 *12,948 4,786 *12,020 3,553 *20,359 *102,37 (2000 Total 352 1,724 5),134 6,824 *1,104 2,48 8,238 *1,104 2,48 8,238 8,	1998 Total								R 21,592		R 11,640		R 24,075	R 137,621
2001 Total									R 18,438				R 20,359	₹ 102,976
2002 Total											[™] 17,044		R 29,269	* 144,509
2003 Total 352 997 1,299 2,648 7,761 19,709 2,671 2,011 23,014 23,016 37,009 204,64 2005 Total 85 1,687 1,349 3,421 8,368 22,487 2,711 2,35,588 8,765 24,184 4,060 37,009 204,64 2,000 201,64 2,145 1,471 4,165 10,170 2,64,642 3,186 39,848 8,765 24,184 4,060 37,009 204,64 2,000 201,64 2,489 1,534 4,631 12,619 30,436 3,646 4,6701 13,267 32,885 5,158 51,533 2,800 2,146 2,140	2001 Total								R 25 451		R 17 340		R 27 931	R 145 205
2004 Total	2003 Total						R 19.709		R 30.141		R 20.706		R 32.789	R 177.428
2005 Total	2004 Total	385							R 33,588				R 37,009	R 204,647
2008 January 90 216 154 460 1,099 2,362 287 3,768 1,189 2,598 441 4,228 8,26,08 February 82 239 111 432 1,098 2,304 265 3,667 1,180 2,598 441 4,228 8,26,08 March 67 236 134 437 1,101 2,407 292 3,800 1,168 2,543 426 4,237 8,27,08 May 8,91 224 137 8,452 1,341 2,550 253 4,174 8,1432 2,804 390 8,46,26 8,29,48 May 8,91 224 137 8,452 1,341 2,550 253 4,174 8,1432 2,804 390 8,46,26 8,29,48 May 77 1,00 152 8,426 1,432 2,488 304 4,41 8,153 2,864 4,626 8,29,44 May 77 1,00 152 8,426 1,432 2,484 3,29 4,41 8,153 2,864 4,626 8,29,44 May 77 1,00 152 8,426 1,432 2,484 3,29 4,41 8,153 2,854 8,86 8,301 8,159 2,200 2,301 8,20 8,20 8,20 8,20 8,20 8,20 8,20 8,20	2005 Total	R 540	2,154	1,471			R 26,492	3,186		R 10,710		4,657		241,045
Property	2006 Total				R 4,631									R 283,731
February	2007 Total	^ℵ 828	2,839	1,597	₹ 5,264	12,567	30,254	3,548	46,369	™ 13,395	33,093	5,145	₹ 51,633	₹ 306,857
February	2008 January	90	216	154	460	1 099	2 382	287	3 768	1 189	2 598	441	4 228	R 26,096
March 67 236 134 437 1,101 2,407 292 3,800 1,168 2,643 426 4,237 R 27,19 May P 91 224 137 R 452 1,341 2,580 253 4,174 R 1,432 2,804 390 R 4,626 R 29 Jule R 67 205 152 R 424 1,431 2,580 253 4,174 R 1,432 2,804 390 R 4,626 R 29 July 77 170 179 426 1,432 2,746 353 4,631 1,509 2,916 532 4,957 R 90.32 August 70 183 153 406 1,490 2,902 382 4,774 1,509 2,916 532 4,957 R 90.32 September 56 191 179 426 1,592 2,707 369 4,608 1,588 2,898 548 5,034 R 90.22 2,002 302 1,507 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,098</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>R 25,683</td>						1,098								R 25,683
May R 91 224 137 R 452 1,341 2,580 253 4,174 R 1,432 2,804 390 R 4,626 R 29,44 June R 67 205 152 R 424 1,463 2,649 329 4,441 R 1,530 2,854 481 R 4,865 R 30,14 July 777 170 179 426 1,432 2,746 353 4,531 1,509 2,916 532 4,957 R 30,33 August 70 183 153 406 1,490 2,902 382 4,774 1,560 3,085 6,355 5,180 R 30,55 September 56 191 179 426 1,532 2,707 369 4,608 1,588 2,898 548 5,034 R 30,22 November 90 275 178 543 1,592 2,980 377 4,949 1,682 3,255 555 5,492 R 33,27 November 103 217 173 493 1,404 2,515 340 4,259 1,507 2,732 513 4,752 R 30,66 Total R 927 2,558 1,827 R 5,312 16,026 30,959 3,879 50,864 R 16,953 33,517 5,706 R 56,176 R 349,61 Total R 927 2,558 1,827 R 5,312 16,026 30,959 3,879 50,864 R 16,953 33,517 5,706 R 56,176 R 349,61 September R 68 R 146 93 R 30,71 1,064 1,920 235 3,219 1,132 R 2,066 328 R 3,526 R 23,07 May R 68 R 146 93 R 30,71 1,064 1,920 235 3,219 1,132 R 2,066 328 R 3,526 R 23,07 May R 68 R 16,65 R 30,18 R 1,429 R 2,979 R 963 2,018 323 R 3,304 R 23,22 April 1,32 R 2,066 328 R 3,526 R 23,07 May R 68 R 16,65 R 30,18 R 1,429 R 2,979 R 963 2,018 323 R 3,304 R 23,22 April 1,32 R 2,066 8,1505 3,25 R 2,66 R 1,450 April 38 R 76 R 102 R 216 768 R 1,429 2,29 2,214 R 1,92 R 2,066 R 1,505 3,25 R 2,66 R 1,505 April 38 R 76 R 102 R 216 768 R 1,429 2,29 2,240 8,06 R 1,505 3,25 R 2,66 R 1,605 April 38 R 76 R 103 R 2,24 R 1,361 1,965 R 63 R 1,316 252 R 2,221 R 1,58 R 1,450 R 1,45				134	437	1,101	2,407		3,800	1,168	2,643	426	4,237	R 27,099
June R67 205 152 R424 1,463 2,649 329 4,441 R1,530 2,854 481 R4,865 R30,16 July 777 170 179 426 1,432 2,746 353 4,531 1,509 2,916 532 4,957 R30,32 August 70 183 153 406 1,490 2,902 382 4,774 1,560 3,085 535 5,180 R30,55 September 56 191 179 426 1,532 2,707 389 4,608 1,588 2,888 E,888 E,8					_ 410					1,276			_ 4,411	R 27,982
July 77 170 179 426 1,432 2,746 353 4,531 1,509 2,916 532 4,957 8,90.3 August 70 183 153 406 1,490 2,902 382 4,774 1,560 3,085 535 5,180 8,30,55 September 56 191 179 426 1,532 2,707 369 4,608 1,588 2,898 548 5,034 8,30,27 November 90 275 178 543 1,592 2,980 377 4,949 1,682 3,255 555 5,5492 8,32,27 November 103 217 173 493 1,404 2,515 340 4,259 1,507 2,732 513 4,752 8,30,60 Total 8,927 2,558 1,827 8,5312 16,026 30,959 3,879 50,864 8,16,953 33,517 5,706 8,56,176 8,346,60 Total 8,927 2,558 1,827 8,5312 16,026 30,959 3,879 50,864 8,16,953 33,517 5,706 8,56,176 8,349,61 2009 January 86 193 111 390 1,252 2,340 255 3,847 1,338 2,533 366 4,237 8,27,91 February 68 8 8,146 93 8,307 1,064 1,920 235 3,219 1,132 8,2066 328 8,3526 8,320 March 8,59 167 99 8,325 904 1,851 224 2,979 8,633 2,018 323 8,3304 8,326 April 38 8,76 102 8,216 768 1,429 223 2,420 806 8,150 325 82,636 8,140 April 38 8,76 102 8,216 768 1,429 223 2,420 806 8,150 325 8,2636 8,145 April 31,340 4,44 103 103 250 822 1,275 222 2,319 8,66 1,378 325 2,569 8,16,77 August 8,44 103 103 250 822 1,275 222 2,319 8,66 1,378 325 2,569 8,16,77 August 8,46 89 99 8,224 3,244 1,441 229 2,594 8,70 1,530 328 8,228 8,230 April 33 8,47 1,323 334 2,700 8,17,00 April 33 8,47 1,338 2,24 3,304 8,322 4,324 4,44 1,44 103 103 2,250 8,22 1,275 222 2,319 8,66 1,378 325 2,269 8,16,77 April 34 1,47 1,47 1,47 1,47 1,47 1,47 1,47 1,4					K 452					K 1,432			^K 4,626	K 29,463
August 70 183 153 406 1,490 2,902 382 4,774 1,560 3,085 535 5,180 \$30,085 \$35 5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$3,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$3,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$3,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$3,180 \$30,085 \$35 \$5,180 \$30,085 \$35 \$3,180 \$30,085 \$35 \$3,295 \$30,085 \$3													1 4,865	" 30,169
September 56 191 179 426 1,532 2,707 369 4,608 1,588 2,898 548 5,034 R30,22 Cotober 90 275 178 543 1,592 2,980 377 4,949 1,682 3,255 555 5,549 R33,27 November 103 217 173 493 1,404 2,515 340 4,259 1,507 2,732 513 4,752 R30,60 Total R927 2,558 1,827 R5,312 16,026 30,959 3,879 50,864 R16,953 33,517 5,706 R56,176 R349,61 Total R927 2,558 1,827 R5,312 16,026 30,959 3,879 50,864 R16,953 33,517 5,706 R56,176 R349,61 R50 R94 R16,953														R 30,520
October 90 275 178 543 1,592 2,980 377 4,949 1,682 3,255 555 5,492 R 32,7 November 67 190 146 403 1,265 2,299 328 3,892 1,332 2,489 474 4,295 R 207 Total R 927 2,558 1,827 R 5,312 16,026 30,959 3,879 50,864 R 16,953 33,517 5,706 R 56,176 R 349,61 2009 January 86 193 111 390 1,252 2,340 255 3,847 1,332 2,2066 328 8,3526 R 23,094 R 237 March R 59 167 99 R 325 904 1,851 224 2,979 R 963 2,018 333 R 3,304 R 23,04 May 555 110 91 256 588 1,206 161 1,965 653 1,316 252 2,221 R 1,52 <tr< td=""><td>September</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>R 30,229</td></tr<>	September													R 30,229
November	October								4,949					R 33,272
December 67 190 146 403 1,265 2,299 328 3,892 1,332 2,489 474 4,295 *28,02	November													R 30,664
2009 January 86	December	67												R 28,029
February 68 R 146 93 R 307 1,064 1,920 235 3,219 1,132 R 2,066 328 R 3,526 R 23,07 March 759 167 99 R 325 904 1,851 224 2,979 R 963 2,018 323 R 3,304 R 23,22 April 38 R 76 102 R 216 768 1,429 223 2,420 806 R 1,505 325 R 2,636 R 18,61 May 55 110 91 256 598 1,206 161 1,965 653 1,316 252 2,221 R 15,82 June R 64 95 83 R 224 804 1,361 198 2,363 R 850 1,456 281 R 2,587 R 14,58 July 44 103 103 250 822 1,275 222 2,319 866 1,378 325 2,589 R 16,73 August R 64 89 99 R 234 924 1,441 229 2,594 R 970 1,530 328 R 2,828 R 18,07 October 60 88 84 232 1,023 1,298 251 2,572 1,083 1,386 335 2,804 R 17,02 October 60 88 84 232 1,023 1,298 251 2,572 1,083 1,386 335 2,804 R 17,02 December 33 102 94 229 987 1,144 217 2,348 1,020 1,246 311 2,577 R 15,68 Total 628 R 1,353 1,151 R 3,132 11,176 17,681 2,642 31,499 11,804 R 19,034 3,793 R 34,631 R 226,66 R 23,07 R 1,466 R	lotal	× 927	2,558	1,827	^5,312	16,026	30,959	3,879	50,864	^ 16,953	33,517	5,706	^ 56,176	^ 349,611
February 68	2009 January	86	193	111	390	1,252	2,340	255	3,847	1,338		366		R 27,914
April 38 R 76 102 R 216 768 1,429 223 2,420 806 R 1,505 325 R 2,636 R 18,61 May 55 110 91 256 598 1,206 161 1,965 653 1,316 252 2,221 R 15,82 June R 46 95 83 R 224 804 1,361 198 2,363 R 850 1,456 281 R 2,587 R 17,44 July 4103 103 250 822 1,275 222 2,319 866 1,378 325 2,569 R 16,73 August R 46 89 99 R 234 924 1,441 229 2,594 R 970 1,530 328 R 2,828 R 18,07 September 53 85 105 243 990 1,238 229 2,457 1,043 1,323 334 2,700 R 17,06 October 60 88 84 232 1,023 1,298 251 2,572 1,083 1,386 335 2,804 R 17,06 December 33 102 94 229 987 1,144 217 2,348 1,020 1,246 311 2,577 R 15,66 Total 628 R 1,353 1,151 R 3,132 11,176 17,681 2,642 31,499 11,804 R 19,034 3,793 R 34,631 R 226,66 March R 628 R 1,353 1,151 R 3,132 11,176 17,681 2,642 31,499 11,804 R 19,034 3,793 R 3,4631 R 226,66 April 61 R 90 R 81 R 2,258 1,307 R 1,426 225 R 2,958 R 1,375 R 1,502 339 R 3,216 R 19,61 April 61 R 90 R 81 R 232 1,432 R 1,429 229 R 2,958 R 1,375 R 1,502 339 R 3,216 R 19,61 April 61 R 90 R 81 R 232 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,316 R 2,004 April 61 R 90 R 81 R 2,32 R 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 3,044 R 1,439 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 3,044 R 1,439 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 3,044 R 1,439 R 1,519 R 3,04 R 3,316 R 2,005 April 61 R 90 R 81 R 2,32 R 3,044 R 1,439 R 1,519 R 3,04 R 2,25 R 2,56		68	^R 146		R 307								^R 3,526	R 23,070
May			167		K 325						2,018		^K 3,304	° 23,255
June R 46 95 83 R 224 804 1,361 198 2,363 R 850 1,456 281 R 2,587 R 17,44 July 44 103 103 250 822 1,275 222 2,319 866 1,378 325 2,569 R 16,73 August R 46 89 99 R 234 924 1,441 229 2,594 R 970 1,530 328 R 2,582 R 18,07 September 53 85 105 243 990 1,238 229 2,457 1,043 1,323 334 2,700 R 17,06 October 60 88 84 232 1,023 1,238 251 2,572 1,083 1,386 335 2,804 R 17,00 December 33 102 94 229 987 1,144 217 2,348 1,020 1,246 311 2,577 R 15,68 Total 628 <th< td=""><td></td><td></td><td>110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 316</td><td></td><td></td><td>N 18,614</td></th<>			110								1 316			N 18,614
July 44 103 103 250 822 1,275 222 2,319 866 1,378 325 2,569 R 16,73 August R 46 89 99 R 234 924 1,441 229 2,594 R 970 1,530 328 R 2,828 R 18,07 September 53 85 105 243 990 1,238 229 2,457 1,043 1,323 334 2,700 R 17,00 October 60 88 84 232 1,023 1,298 251 2,572 1,083 1,386 335 2,804 R 17,02 November 40 99 87 226 1,040 1,178 198 2,416 1,080 1,277 285 2,642 R 16,02 December 33 102 94 229 987 1,144 217 2,348 1,020 1,246 311 2,577 R 15,66 Total 628 <td< td=""><td></td><td>R 46</td><td></td><td></td><td>R 224</td><td></td><td></td><td></td><td></td><td>R 850</td><td></td><td></td><td>R 2 587</td><td>R 17 408</td></td<>		R 46			R 224					R 850			R 2 587	R 17 408
August R 46 89 99 R 234 924 1,441 229 2,594 R 970 1,530 328 R 2,828 R 18,07 September 53 85 105 243 990 1,238 229 2,457 1,043 1,333 334 2,700 R 17,06 Cotober 60 88 84 232 1,023 1,298 251 2,572 1,083 1,386 335 2,804 R 17,02 November 40 99 87 226 1,040 1,178 198 2,416 1,080 1,277 285 2,642 R 16,02 December 33 102 94 229 987 1,144 217 2,348 1,020 1,246 311 2,577 R 15,66 Total 628 R 1,353 1,151 R 3,132 11,176 17,681 2,642 31,499 11,804 R 19,034 3,793 R 34,631 R 226,66 2010 January R 59 101 103 R 263 1,056 1,328 196		44			250					866			2.569	R 16,732
September 53 85 105 243 990 1,238 229 2,457 1,043 1,323 334 2,700 *17,06 October 60 88 84 232 1,023 1,298 251 2,572 1,083 1,386 335 2,804 *17,02 November 40 99 87 226 1,040 1,178 198 2,416 1,080 1,277 285 2,642 *R16,02 December 33 102 94 229 987 1,144 217 2,348 1,020 1,246 311 2,577 *R15,66 Total 628 *R1,353 1,151 *R3,132 11,176 17,681 2,642 31,499 11,804 *R19,034 3,793 *R3,4631 *R266 1,588 196 2,580 *R1,115 1,429 299 *R2,843 *R17,46 F8,668 76 114 *R263 1,056 1,328 196 2,580 *R1,115 1,429 299 *R2,843 *R17,46 F8,668 76 114 *R258 1,307 *R1,426 225	August				^R 234		1,441			^R 970			R 2,828	R 18,073
November 40 99 87 226 1,040 1,178 198 2,416 1,080 1,277 285 2,642 **16,02 December 33 102 94 229 987 1,144 217 2,348 1,020 1,246 311 2,577 **15,66 Total 628 **1,353 1,151 **3,132 11,176 17,681 2,642 31,499 11,804 **19,034 3,793 **34,631 **226,685 2010 January **P 59 101 103 **263 1,056 1,328 196 2,580 **1,115 1,429 299 **2,843 ***17,48 February 52 69 80 201 1,003 1,307 168 2,478 1,055 1,376 248 2,679 ***16,55 March **R 68 76 114 ***258 1,307 ***1,426 225 ***2,958 ***1,375 ***1,502 339 ***3,216 ***19,65 April 61 ***90 ***81 ***232 1,432 ***1,429 223 ***3,084 1,493 ***1,519 ***3,04 ***3,316 ***2,00 May 75 ***112 120 ***3,07 1,561 1,672 245 3,478 1,636 ***1,784 365 ***3,785 ***2,3,05 June 77 141 122 340 1,640 1,741 274 3,655 1,717 1,882 396 3,995 ***2,425 July 83 117 124 324 1,749 1,707 277 3,733 1,832 1,824 401 4,057 ***24,55 August 90 ***110 129 ***3,29 1,934 1,749 280 3,963 2,024 ***1,859 409 ***4,29 2,258 September 96 129 132 357 1,817 1,675 280 3,722 1,913 1,804 412 4,129 ***24,710-Month Total 762 1,063 1,135 2,960 15,459 15,718 2,453 33,630 16,221 16,781 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98 2009 10-Month Total 555 1,152 97	September	53			243					1,043			2,700	R 17,067
December	October													R 17,026
Total 628 R1,353 1,151 R 3,132 11,176 17,681 2,642 31,499 11,804 R 19,034 3,793 R 34,631 R 226,668 2010 January R 59 101 103 R 263 1,056 1,328 196 2,580 R 1,115 1,429 299 R 2,843 R 17,48 February 52 69 80 201 1,003 1,307 168 2,478 1,055 1,376 248 2,679 R 16,55 March R 68 76 114 R 258 1,307 R 1,426 225 R 2,958 R 1,375 R 1,502 339 R 3,216 R 19,61 April 61 R 90 R 81 R 232 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 304 R 3,316 R 20,00 May 75 R 112 120 R 307 1,561 1,672 245 3,478 1,636 R 1,784 365 R 3,785 R 2,00	November													
2010 January R 59 101 103 R 263 1,056 1,328 196 2,580 R 1,115 1,429 299 R 2,843 R 17,44 February 52 69 80 201 1,003 1,307 168 2,478 1,055 1,376 248 2,679 R 16,52 March R 68 76 114 R 258 1,307 R 1,426 225 R 2,958 R 1,375 R 1,502 339 R 3,216 R 19,61 April 61 890 R 81 R 232 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 304 R 3,316 R 20,08 May 75 R 112 120 R 307 1,561 1,672 245 3,478 1,636 R 1,784 365 R 3,785 R 23,08 July 83 117 124 324 1,749 1,707 277 3,733 1,822 396 3,995 242,25 2,837 <	Total												R 34,631	R 226,692
February 52 69 80 201 1,003 1,307 168 2,478 1,055 1,376 248 2,679 R 16,55 March R 68 76 114 R 258 1,307 R 1,426 225 R 2,958 R 1,375 R 1,502 339 R 3,216 R 19,61 April 61 R 90 R 81 R 232 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 304 R 3,316 R 20,08 May 75 R 112 120 R 307 1,561 1,672 245 3,478 1,636 R 1,784 365 R 3,785 R 23,08 June 77 141 122 340 1,640 1,741 274 3,655 1,717 1,882 396 3,995 R 24,25 July 83 117 124 324 1,749 1,707 277 3,733 1,832 1,824 401 4,057 R 24,85 August		R 50												
March R 68 76 114 R 258 1,307 R 1,426 225 R 2,958 R 1,375 R 1,502 339 R 3,216 R 19,61 April 61 R 90 R 81 R 232 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 304 R 3,316 R 20,00 May 75 R 112 120 R 307 1,561 1,672 245 3,478 1,636 R 1,784 365 R 3,785 R 23,00 June 77 141 122 340 1,640 1,741 274 3,655 1,717 1,882 396 3,995 R 24,25 July 83 117 124 324 1,749 1,707 277 3,733 1,832 1,824 401 4,057 R 24,56 August 90 R 110 129 R 329 1,934 1,749 280 3,963 2,024 R 1,859 409 R 4,292 R 25,87 September 96 129 132 357 1,817 1,675 280 3,772	February													
April 61 R 90 R 81 R 232 1,432 R 1,429 223 R 3,084 1,493 R 1,519 R 304 R 3,316 R 20,05 May 75 R 112 120 R 307 1,561 1,672 245 3,478 1,636 R 1,784 365 R 3,785 R 23,05 June 77 141 122 340 1,640 1,741 274 3,655 1,717 1,882 396 3,995 R 24,25 July 83 117 124 324 1,749 1,707 277 3,733 1,832 1,824 401 4,057 R 24,55 August 90 R 10 129 R 329 1,934 1,749 280 3,763 2,024 R 1,859 409 R 4,292 R 25,87 September 96 129 132 357 1,817 1,675 280 3,772 1,913 1,804 412 4,129 R 24,92 October 101 118 130 349 1,960 1,684 285 3,929					R 258						R 1,502			R 19,617
May			R 90		R 232		R 1,429			1,493	R 1.519	R 304	R 3,316	R 20,090
June 77 141 122 340 1,640 1,741 274 3,655 1,717 1,882 396 3,995 K² 24,25 July 83 117 124 324 1,749 1,707 277 3,733 1,832 1,824 401 4,057 R² 24,56 August 90 R110 129 R³ 329 1,934 1,749 280 3,963 2,024 R¹ 1,859 409 R⁴ 2,92 R² 25,73 September 96 129 132 357 1,817 1,675 280 3,772 1,913 1,804 412 4,129 R² 24,92 October 101 118 130 349 1,960 1,684 285 3,929 2,061 1,802 415 4,278 25,72 10-Month Total 762 1,063 1,135 2,960 15,459 15,718 2,453 33,630 16,221 16,781 3,588 36,590 222,16 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,2	May				^R 307	1,561	1,672	245	3,478	1,636	^R 1,784	365	R 3,785	R 23,058
August					340						1,882		3,995	R 24,293
September 96 129 132 357 1,817 1,675 280 3,772 1,913 1,804 412 4,129 R 24,92 October 101 118 130 349 1,960 1,684 285 3,929 2,061 1,802 415 4,278 25,72 10-Month Total 762 1,063 1,135 2,960 15,459 15,718 2,453 33,630 16,221 16,781 3,588 36,590 222,16 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98					324								4,057	K 24,560
October														
10-Month Total 762 1,063 1,135 2,960 15,459 15,718 2,453 33,630 16,221 16,781 3,588 36,590 222,16 2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98	October													25,725
2009 10-Month Total 555 1,152 970 2,677 9,149 15,359 2,227 26,735 9,704 16,511 3,197 29,412 194,98	10-Month Total													222,161
2008 10-Month Total 757 2,151 1,508 4,416 13,357 26,145 3,211 42,713 14,114 28,296 4,719 47,129 290,91														194,981 290,918

R=Revised.

R=Revised.

Notes: • Prior to 1990, these well counts include only the original drilling of a hole intended to discover or further develop already discovered crude oil or natural gas resources. Other drilling activities, such as drilling an old well deeper, drilling of laterals from the original well, drilling of service and injection wells, and drilling for resources other than crude oil or natural gas are excluded. After 1990, a new well is defined as the first hole in the ground whether it is lateral or not. Due to the methodology used to estimate ultimate well counts from the available partially reported data, the counts from the property of requestive registers. reported data, the counts shown on this page are frequently revised. See Note,

[&]quot;Crude Oil and Natural Gas Exploratory and Development Wells," at end of section.

Sources: • 1973-1989: U.S. Energy Information Administration (EIA) computations based on well reports submitted to the American Petroleum Institute.
• 1990 forward: EIA computations based on well reports submitted to IHS, Inc., Denver, CO.

Table 5.3 Maximum U.S. Active Seismic Crew Counts

(Number of Crews)

		48 States,	Onshore			48 States,	Offshore ^a			Alas	ska ^b		
		imensions	,c		D	imensions	С		D	imensions	С		
	2	3	4	Totald	2	3	4	Totald	2	3	4	Totald	Tota
2000 October	4	41	1	46	7	9	0	17	0	0	0	0	63
2001 October	5	33	1	39	9	10	0	19	0	0	0	0	58
2002 October	8	30	0	38	10	7	0	17	1	1	0	2	57
2003 October	7	24	Ō	31	5	3	Ō	8	Ö	0	Ō	0	39
2004 October	8	34	0	42	2	2	0	4	0	2	0	2	48
2005 October	6	39	Ō	45	6	5	Ō	11	Ö	1	Ō	1	57
2006 October	5	51	0	56	2	5	0	7	0	1	0	1	64
007 January	3	51	0	54	3	5	0	8	0	1	0	1	63
February	3	51	0	54	3	5	0	8	0	1	0	1	63
March	4	55	0	59	3	5	0	8	0	1	0	1	68
April	4	55	Ö	59	4	6	1	11	Ö	1	Ö	1	7
May	3	55	Ö	58	4	6	1	11	Ö	1	Ō	1	70
June	3	55	Ö	58	3	6	1	10	Ö	1	Ŏ	1	69
July	2	57	ő	59	3	6	i	10	Õ	Ö	ő	Ö	69
August	2	56	0	58	4	8	i	13	0	0	0	ő	7
September	3	58	0	61	3	8	i	12	0	0	0	0	73
October	4	60	0	65	3	8	1	12	0	0	0	0	7
November	4	60	0	65	3	10	i	14	0	0	0	0	79
December	5	54	0	60	4	10	i	15	0	0	0	0	7
008 January	6	55	0	61	4	10	1	15	0	0	0	0	76
February	6	55	0	61	4	11	i	16	0	0	0	ŏ	77
March	6	54	ő	60	3	11	i	15	Õ	Õ	ő	ŏ	7
April	4	53	0	57	3	11	1	15	0	0	0	ő	72
May	4	54	0	58	3	11	i	15	0	0	0	0	73
June	2	56	0	58	3	11	1	15	0	0	0	0	73
July	2	58	0	60	3	8	1	12	0	0	0	0	72
August	2	58	0	60	3	8	1	12	0	0	0	0	72
September	ΝA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
October	4	60	0	65	3	8	1	12	0	0	0	0	77
	2	61	0	63	1	7	1	9	0	0	0	0	72
November	2		0		2	7	0	9	0	0	0	0	73
December	2	62	U	64	2	1	U	9	U	U	U	U	73
009 January	2	63 62	0	65 65	2 2	8 9	0	10 11	0	0	0	0	75 76
February	3	59	-	62	2	-	0		-	-	-	0	72
March			0 0			8	0	10	0 0	0 0	0		
April	3 2	57 54	0	60 56	2 2	8 7	0	10 9	0		0	0 0	70 65
May			0	56 52			0		0	0	0	0	
June	2	50	-		2	6	-	8	-	-	-	-	60
July	2	51 40	0	53	2	6	0	8	0	0	0	0	6′
August	2	49	0	51	3	6	0	9	0	0	0	0	60
September	1	49	0	50	4	6	0	10	0	0	0	0	60
October	1	50	0	51	5	7	0	12	0	0	0	0	63
November	0	49	0	49	5	8	0	13	0	0	0	0	62
December	0	49	0	49	5	8	0	13	0	1	0	1	63
010 January	0	50	0	50	5	8	0	13	0	1	0	1	64
February	0	51	0	51	5	8	0	13	0	1	0	1	65
March	0	49	0	49	5	8	0	13	0	1	0	1	63
April	1	51	0	52	5	8	0	13	0	1	0	1	66
May	1	50	0	52	5	9	0	14	0	1	0	1	6
June	2	50	0	52	4	10	0	14	0	1	0	1	67
July	2	51	0	53	3	10	0	13	0	1	0	1	67
August	2	50	0	52	4	9	0	13	0	0	0	0	6
September	2	49	0	51	4	9	0	13	0	0	0	0	6
October	1	50	0	51	4	7	0	11	0	Ö	0	0	6:

 $[\]mbox{a}$ $\mbox{Federal}$ and State Jurisdiction waters of the Gulf of Mexico. b $\mbox{All onshore}.$

reflection seismic surveying is the exact repetition of a 3D survey at two or more time intervals. The primary application of 4D is mapping the movement of fluid interfaces in producing oil and gas reservoirs.

d Includes crews with unknown survey dimension.
NA=Not available.

Notes: • A "seismic crew" is a group of people, of varying number, engaged in a seismic surveying job. • "48 States" is the United States excluding Alaska and Hawaii. • Data are reported on the first and fifteenth of each month, except January when they are reported only on the fifteenth. When semi-monthly values differ for the month, the larger of the two values is shown here. Consequently, this table reflects the maximum number of crews at work at any time during the month.

Web Page: See http://www.eia.gov/emeu/mer/resource.html for all available data beginning in

March 2000

Source: World Geophysical News, IHS, Inc., Denver, CO, used with permission.

^C In **two-dimensional** (2D) reflection seismic surveying both the sound source and the sound detectors (numbering up to a hundred or more per shot) are moved along a straight line. The resultant product can be thought of as a vertical sonic cross-section of the subsurface beneath the survey line. It is constructed by summing many compressional (pressure) wave reflections from the various sound source and sound detector locations at the halfway sound path points beneath each location (common depth point stacking). In **three-dimensional** (3D) reflection seismic surveying the sound detectors (numbering up to a thousand or more) are spread out over an area and the sound source is moved from location to location through the area. The resultant an area and the sound source is moved from location to location through the area. The resultant product can be thought of as a cube of common depth point stacked reflections. Advantages over 2D include the additional dimension, the fact that many more reflections are available for stacking at each point, which provides greatly improved resolution of subsurface features, and elimination of the "ghost" or "side swipe" reflections from nearby offline features that 2D surveys are prone to (except, of course, along the outer faces of the cube). Four dimensional (4D)

Crude Oil and Natural Gas Resource Development

Note. Crude Oil and Natural Gas Exploratory and Development Wells. Three well types are considered in the *Monthly Energy Review* (*MER*) drilling statistics: "completed for crude oil," "completed for natural gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized as "completed for crude oil." Both development wells and exploratory wells (new field wildcats, new pool tests, and extension tests) are included in the statistics. All other classes of wells drilled in connection with the search for producible hydrocarbons are excluded. If a lateral is drilled at the same time as the original hole it is not counted separately, but its footage is included.

Prior to the March 1985 MER, drilling statistics consisted of

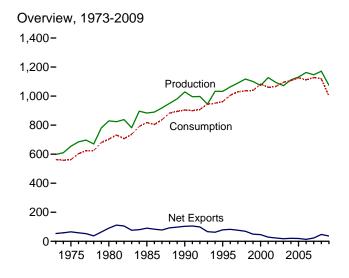
completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example, as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 MER are U.S. Energy Information Administration (EIA) estimates produced by statistically imputing well counts and footage based on the partial data available from the API. These estimates are subject to continuous revision as new data, some of which pertain to earlier months and years, become available. Additional information about the EIA estimation methodology may be found in "Estimating Well Completions," a feature article published in the March 1985 MER.

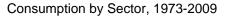
Coal

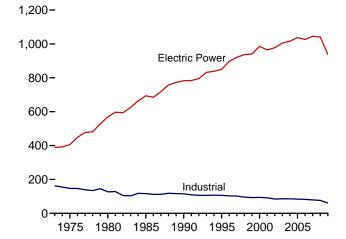


Coal yard, Curtis Bay, Maryland. Source: U.S. Department of Energy.

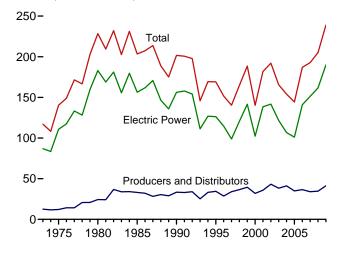
Figure 6.1 Coal (Million Short Tons)



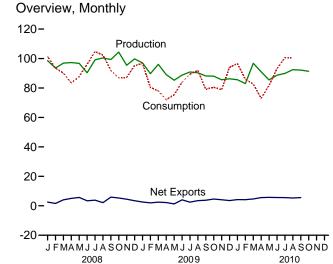




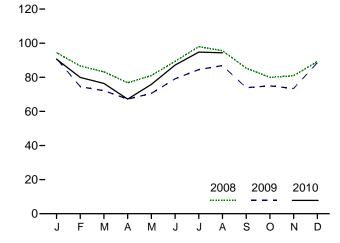
Stocks, End of Year, 1973-2009



Web Page: http://www.eia.gov/emeu/mer/coal.html. Sources: Tables 6.1-6.3.



Electric Power Sector Consumption, Monthly



Electric Power Sector Stocks, End of Month 240-

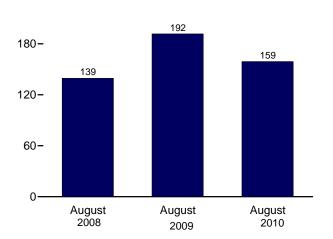


Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Production ^a	Supplied ^b	Imports	Exports	Net Imports ^c	Changed	fore	Consumption
1973 Total	598,568	NA	127	53.587	-53,460	(f)	f-17.476	562,584
1975 Total	654,641	NA NA	940	66,309	-65,369	32,154	-5,522	562,640
1980 Total	829.700	NA NA	1.194	91.742	-90,548	25,595	10.827	702,730
1985 Total	883,638	NA NA	1,952	92,680	-90,727	-27,934	2,796	818,049
1990 Total	1.029.076	3.339	2,699	105,804	-103,104	26.542	-1.730	904,498
1995 Total	1,032,974	8,561	9,473	88,547	-79.074	-275	632	962,104
1996 Total	1,063,856	8,778	8,115	90,473	-82,357	-17,456	1,411	1,006,321
1997 Total	1,089,932	8.096	7.487	83,545	-76.058	-11,253	3.678	1,029,544
1998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4,430	1,037,103
1999 Total	1,100,431	8.683	9.089	58,476	-49,387	23,988	-2.906	1.038.647
2000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48.309	938	1,084,095
2001 Total	1,127,689	10.085	19,787	48,666	-28.879	41,630	7.120	1,060,146
2002 Total	1,094,283	9,052	16,875	39,601	-22,726	10,215	4.040	1,066,355
2003 Total	1.071.753	10,016	25,044	43,014	-17,970	-26.659	-4,403	1,094,861
2004 Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
2005 Total	1.131.498	13,352	30,460	49,942	-19.482	-9.702	9.092	1,125,978
2006 Total	1,162,750	14,409	36,246	49,647	-13,401	42,642	8.824	1,112,292
2007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4,085	1,127,998
2008 January	98,587	1,301	2,381	4,915	-2,535	-3,933	-102	101,389
February	93.525	1.138	2,619	4.205	-1.586	-3.769	3.405	93,442
March	96,903	1,014	2,640	6,682	-4,041	3,045	676	90,154
April	97.287	1.086	2,985	7,979	-4.994	9.314	604	83,462
May	96,725	1,175	2,702	8,394	-5,692	3,271	1,129	87,807
June	90.319	1.160	3.295	6,695	-3.401	-8.840	882	96.036
July	99,132	1,295	2,569	6,404	-3,835	-10,205	2,073	104,724
August	100.428	1,214	3,144	5.264	-2.120	-4.738	1.870	102,390
September	99.351	1.163	2.772	8,653	-5.881	6.047	-3.323	91,909
October	104,390	1.145	2,921	8,233	-5,312	13,226	69	86.927
November	95.405	1,153	2,988	7,460	-4,472	9,224	-4,287	87,149
December	99,758	1,303	3,192	6,636	-3,444	-289	2.744	95,162
Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
2009 January	R 97,022	1,258	2,329	4,907	-2,578	-1,985	^R 961	96,727
February	R 89,688	881	1,855	3,822	-1,968	7,923	R 303	80,375
March	R 96,062	965	2,141	4,605	-2,464	12,417	R 4,132	78,014
April	R 89,072	944	1,303	3,513	-2,210	13,460	R 2,251	72,095
May	R 85,236	854	2,283	3,552	-1,269	7,523	R 1,914	75,384
June	R 88.708	999	1,840	5,886	-4,045	2,793	R -1,131	83,999
July	^R 90,847	1,107	2,018	4,477	-2,459	R -873	^R 984	89,383
August	R 90,308	1,089	1,568	5,056	-3,488	^R -5,047	R 1,008	91,948
September	R 88,185	1,013	1,854	5,625	-3,771	R 4,748	R 1,594	79,085
October	R 88,002	1,050	1,762	6,364	-4,603	R 4,364	R -443	80,528
November	R 85,564	1,090	1,506	5,586	-4,080	R 2,606	R 1,132	78,836
December	R 86,229	1,186	2,179	5,703	-3,524	R -14,218	R 4,060	94,049
Total	R 1,074,923	12,435	22,639	59,097	-36,458	33,711	R 16,765	1,000,424
2010 January	85,589	1,163	1,665	5,866	-4,202	-13,482	-503	96,536
February	82,968	844	1,239	5,386	-4,146	-7,944	1,686	85,923
March	96,760	1,094	1,899	6,554	-4,655	7,934	2,608	82,657
April	91,010	1,026	1,812	7,358	-5,545	11,953	1,491	73,047
May	85,456	1,110	1,475	7,220	-5,745	2,458	-3,350	81,713
June	88,666	_ 1,135	1,771	7,387	-5,616	-10,607	1,773	93,019
July	89,870	_F_1,069	1,390	6,928	-5,539	-15,367	R 89	R 100,678
August	92,410	RF 1,069	1,702	7,001	-5,299	R -8,277	^R -4,027	^R 100,484
September	92,183	NA	R 1,588	^R 7,145	R -5,556	NA	NA	NA
October	91,356	NA	NA	NA	NA	NA	NA	NA
10-Month Total	896,268	NA	NA	NA	NA	NA	NA	NA
2009 10-Month Total 2008 10-Month Total	903,130 976,646	10,159 11,690	18,953 28,028	47,808 67,423	-28,855 -39,396	45,322 3,419	11,573 7,283	827,538 938,238

^a Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine and cleaned to reduce the concentration of

noncombustible materials).

b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

^o Net imports equal imports minus exports. A minus sign indicates exports are

increase. of "Losses and Unaccounted for" is calculated as the sum of production, imports,

and waste coal supplied, minus exports, stock change, and consumption.

In 1973, stock change is included in "Losses and Unaccounted for."

R=Revised. NA=Not available. F=Forecast.

Notes: • For methodology used to calculate production, consumption, and stocks, see Note 1, "Coal Production," Note 2, "Coal Consumption," and Note 3, "Coal Stocks," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Collumbia.

the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/coal.html for all available data beginning in 1973.

Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-l	Jse Sectors	S					
			Commerci	al			Industrial					
	Resi-				Coke	0	ther Industria	al		Trans-	Electric Power	
	dential	CHPa	Otherb	Total	Plants	CHPc	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total 1975 Total	4,113 2,823	(⁹)	7,004 6,587	7,004 6,587	94,101 83,598	(h)	68,038 63,646	68,038 63,646	162,139 147,244	116 24	389,212 405,962	562,584 562,640
1980 Total	1.355	(9)	5.097	5.097	66,657	(h)	60,347	60,347	127,004	(h) 24	569,274	702,730
1985 Total	1,711	(g)	6,068	6,068	41,056	}h	75,372	75,372	116,429	}h{	693,841	818,049
1990 Total	1,345	1,191	4,189	5,379	38,877	27,781	48,549	76,330	115,207	(h)	782,567	904,498
1995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	(h)	850,230	962,104
1996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	(h)	896,921	1,006,321
1997 Total	711	1,738	4,015	5,752	30,203	29,853	41,661	71,515	101,718	(h)	921,364	1,029,544
1998 Total	534	1,443	2,879	4,322	28,189	28,553	38,887	67,439	95,628	(h)	936,619	1,037,103
1999 Total	585 454	1,490 1.547	2,803	4,293	28,108	27,763	36,975	64,738	92,846 94.147	(")	940,922	1,038,647
2000 Total	454 481	1,547	2,126 2.441	3,673 3,888	28,939 26.075	28,031 25,755	37,177 39,514	65,208 65,268	94,147	\ h \	985,821 964,433	1,084,095 1,060,146
2001 Total 2002 Total	533	1,446	2,441	3,000	23,656	26,232	34,515	60.747	84.403	\ _h {	977.507	1.066.355
2003 Total	551	1,816	1,869	3,685	24,248	24,846	36,415	61,261	85,509	}h{	1,005,116	1,094,861
2004 Total	512	1,917	2,693	4,610	23,670	26,613	35,582	62,195	85,865	(h)	1,016,268	1,107,255
2005 Total	378	1,922	2,420	4,342	23,434	25,875	34,465	60,340	83,774	(h)	1,037,485	1,125,978
2006 Total	290	1,886	1,050	2,936	22,957	25,262	34,210	59,472	82,429	(h)	1,026,636	1,112,292
2007 Total	353	1,927	1,247	3,173	22,715	22,537	34,078	56,615	79,331	(h)	1,045,141	1,127,998
2008 January	40	197	159	356	1,834	1,954	2,746	4,700	6,534	(h)	94,459	101,389
February	36	181	146	327	1,792	1,850	2,811	4,661	6,452	(h) (h)	86,626	93,442
March	35	176	142	317	1,910	1,879	2,797	4,676	6,586	(h)	83,215	90,154
April	23 23	144 145	63 64	207 208	1,864 1.911	1,803 1,857	2,812 2,751	4,615 4.609	6,478 6,520	(h)	76,753 81,056	83,462 87.807
May June	28	177	78	255	1,805	1,772	2,731	4,609	6,406	(h (89,347	96,036
July	25	169	53	222	1,915	1,871	2,659	4,530	6,445	}h ⟨	98,032	104,724
August	25	168	53	221	2,034	1,841	2,680	4,521	6,555	λh Ś	95,590	102,390
September	23	155	49	203	1,818	1,783	2,706	4,489	6,307	(h)	85,376	91,909
October	27	150	96	246	2,208	1,787	2,676	4,463	6,671	(h)	79,982	86,927
November	30	166	107	272	1,626	1,721	2,616	4,337	5,963	(h)	80,883	87,149
December Total	36 351	195 2,021	125 1,134	320 3,155	1,353 22,070	1,784 21,902	2,409 32,491	4,194 54,393	5,547 76,463	(h) (h)	89,259 1,040,580	95,162 1,120,548
2009 January	39	196	158	354	1.390	1.762	2.259	4.022	5.412	(h)	90.921	96.727
February	35	172	139	35 4 311	1,390	1,762	2,259 2.417	4,022	5,412 5,527	(h)	74.503	96,727 80.375
March	33	164	133	297	1,559	1,738	2,246	3,984	5,543	}h {	72,141	78,014
April	22	129	69	198	1,150	1,514	2,011	3,525	4,676	(h j	67,199	72,095
May	21	124	67	191	1,118	1,564	1,956	3,520	4,638	(h)	70,534	75,384
June	23	136	73	208	1,134	1,606	1,900	3,506	4,640	(h)	79,128	83,999
July	21	137	49	187	1,032	1,696	1,957	3,653	4,685	(h)	84,491	89,383
August	21	142	51	193	1,168	1,660	2,053	3,713	4,882	(h) (h)	86,852	91,948
September	20	131	47 91	178	1,250	1,574	2,175	3,750	5,000	('')	73,887	79,085
October November	25 28	134 152	91 103	226 255	1,431 1,274	1,611 1,551	2,233 2,331	3,844 3,881	5,275 5,156	(h)	75,002 73,397	80,528 78,836
December	32	173	118	291	1,371	1,722	2,331	3,874	5,136	(h)	88.481	94.049
Total	321	1,790	1,099	2,889	15,326	19,660	25,691	45,352	60,678	(h)	936,536	1,000,424
2010 January	39	193	156	349	1,472	2,036	2,054	4,090	5,562	(h)	90,587	96,536
February	34	169	136	305	1,584	1,937	2,168	4,105	5,689	(h)	79,896	85,923
March	31	154	125	279	1,801	2,095	2,046	4,141	5,941	(h)	76,405	82,657
April	20	124	53	177	1,786	1,644	2,240	3,885	5,671	(h)	67,179	73,047
May	20	124	53	177	1,794	1,938	1,963	3,901	5,695	(n)	75,822	81,713
June	21 F 20	135 141	58 F 34	193 F 176	1,772 RF 1,703	1,920 2,087	1,955 ^{RF} 1,920	3,875 RF 4,007	5,647 RF 5,710	('')	87,158 94,773	93,019 R 100,678
July August	F 20	153	F 30	F 183	F 1,831	2,087	F 1,944	F 4.098	F 5,930	(h)	94,773 94,351	100,678
8-Month Total	E 204	1,193	E 645	E 1,838	E 13,744	2,154 15,811	E 16,290	E 32,101	E 45,844	(h)	666,170	714,057
2009 8-Month Total	215	1.199	739	1.939	10.000	13.202	16.800	30.002	40.002	(h)	625.769	667.925
2008 8-Month Total	235	1,356	757	2,113	15,065	14,827	22,084	36,910	51,976	(h)	705,079	759,402

^a Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of

Section 7.

Ball commercial sector fuel use other than that in "Commercial CHP."

b All commercial sector fuel use other than that in "Commercial CHP."
c Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
d All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."
e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
f Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

g Included in "Commercial Other."
h Included in "Industrial Non-CHP."
R=Revised. E=Estimate. F=Forecast.
Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Coal Consumption," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/coal.html for all available data beginning in 1973.
Sources: See end of section.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors				
	Producers and	Residential and		Industrial			Electric Power	
	Distributors	Commercial	Coke Plants	Othera	Total	Total	Sector ^{b,c}	Total
1973 Year	12.530	290	6.998	10.370	17,368	17.658	86.967	117.155
1975 Year	12,108	233	8.797	8,529	17,326	17.559	110,724	140,391
1980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
1985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
1990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,629
1995 Year	34,444	NA	2,632	5,702	8,334	8,334	126,304	169,083
1996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,627
1997 Year	33,973	NA	1,978	5,597	7,576	7,576	98,826	140,374
1998 Year	36,530	NA	2,026	5,545	7,571	7,571	120,501	164,602
1999 Year	39,475	NA	1,943	5.569	7,511	7.511	° 141,604	188,590
2000 Year	31,905	NA	1,494	4,587	6.081	6.081	102,296	140,282
2001 Year	35.900	NA	1,510	6,006	7,516	7.516	138,496	181,912
2002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,127
2003 Year	38,277	NA NA	905	4,718	5,623	5,623	121,567	165,468
2004 Year	41.151	NA NA	1,344	4.842	6.186	6,186	106.669	154.006
2005 Year	34,971	NA NA	2,615	5,582	8,196	8,196	101,137	144,304
2006 Year	36,548	NA NA	2,928	6,506	9,434	9,434	140,964	186,946
2007 Year	33,977	NA	1,936	5,624	7,560	7,560	151,221	192,758
2008 January	34.252	F 467	1,778	5,355	7,133	7,600	146,973	188,825
February	35,114	F 453	1,620	5,087	6,707	7,159	142,782	185,055
March	34,876	448	1,462	4,818	6,280	6,728	146,497	188,101
April	36,494	458	1,560	4,873	6,433	6,891	154,029	197,414
May	34.223	468	1.658	4.928	6.586	7.055	159,408	200.686
June	32,086	478	1,756	4,983	6,740	7,218	152,542	191,846
July	31,693	490	1,828	5,058	6,886	7,376	142,572	181,642
August	30,017	502	1,899	5,133	7,033	7,535	139,352	176,904
September	31,354	514	1,971	5,208	7,033 7.179	7,693	143,903	182.950
October	32,444	508	2.091	5,475	7,565	8.074	155.659	196.177
November	33,556	503	2,211	5,741	7,952	8,455	163,390	205,401
December	34,688	498	2,331	6,007	8,338	8,836	161,589	205,401
December	34,000		2,331	0,007	0,330	0,030	101,303	203,112
2009 January	38,394 42.066	490 483	2,260 2.190	5,788 5.570	8,049 7.760	8,539 8,243	156,194 160.741	203,127 211.050
February								
March	41,257	475	2,119	5,352	7,471	7,946	174,264	223,468
April	43,195	477	2,000	5,266	7,266	7,744	185,989	236,928
May	41,622	480	1,880	5,181	7,061	7,541	195,288	244,451
June	44,018	482	1,760	5,096	6,856	7,338	195,887	247,244
July	45,372	496	R 1,702	5,099	R 6,800	R 7,297	193,702	R 246,370
August	42,457	510	R 1,644	5,101	R 6,745	R 7,255	191,611	R 241,323
September	41,690	524	R 1,585	5,104	R 6,690	R 7,214	197,167	R 246,070
October	43,882	526	R 1,683	5,106	R 6,789	R 7,314	199,238	R 250,434
November December	42,217 41,257	527 529	^R 1,780 1,957	5,108 5,109	^R 6,888 7,066	^R 7,415 7,595	203,409 189,971	R 253,041 238,823
	,		,	·	,	·	ŕ	ŕ
2010 January	42,393	509	1,832	4,791	6,623	7,132	175,815	225,341
February	41,825	490	1,708	4,472	6,180	6,669	168,902	217,396
March	43,692	470	1,583	4,153	5,736	6,207	175,432	225,331
April	44,153	482	1,715	4,193	5,908	6,390	186,741	237,284
May	43,787	494	1,846	4,233	6,080	6,574	189,381	239,742
June	_42,206	_506	_1,978	4,274	_6,251	_6,757	180,172	229,135
July	^F 38,644	^F 508	^F 1,948	RF 4,462	^F 6,409	^F 6,917	168,208	213,769
August	F 39,347	^F 508	^F 1,920	F 4,644	^F 6,565	F 7,073	159,072	205,491

 $^{^{\}rm a}$ Through 1977, data are for stocks held by the manufacturing and transportation sectors. Beginning in 1978, data are for stocks held at manufacturing

are from Table 7.5; producers and distributors monthly values are estimates derived from collected annual data; all other monthly values are estimates derived from collected quarterly values. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/coal.html for all available data

beginning in 1973.
Sources: See end of section.

transportation sectors. Beginning in 1978, data are for stocks field at manufacturing plants only.

^b The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

^c Through 1998, data are for stocks at electric utilities only. Beginning in 1999, data also include stocks at independent power producers.

R=Revised. NA=Not available. F=Forecast.

Notes: • Stocks are at end of period. • Electric power sector monthly values

Coal

Note 1. Coal Production. Preliminary monthly estimates of national coal production are the sum of weekly estimates developed by the U.S. Energy Information Administration (EIA) and published in the *Weekly Coal Production* report. When a week extends into a new month, production is allocated on a daily basis and added to the appropriate month. Weekly estimates are based on Association of American Railroads (AAR) data showing the number of railcars loaded with coal during the week by Class I and certain other railroads.

Prior to 2002, the weekly coal production model converted AAR data into short tons of coal by using the average number of short tons of coal per railcar loaded reported in the "Quarterly Freight Commodity Statistics" from the Surface Transportation Board. If an average coal tonnage per railcar loaded was not available for a specific railroad, the national average was used. To derive the estimate of total weekly production, the total rail tonnage for the week was divided by the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years were used to derive this ratio. This method ensured that the seasonal variations were preserved in the production estimates.

Beginning in 2002, the weekly coal production model uses statistical autoregressive methods to estimate national coal production as a function of railcar loadings of coal, and heating degree-days and cooling degree-days. On Thursday of each week, EIA receives from the AAR data for the previous week. The latest weekly national data for heating degree-days and cooling degree-days are obtained from the National Oceanic and Atmospheric Administration's Climate Prediction Center. The weekly coal model is run and a national level coal production estimate is obtained. The weekly coal model is refit every quarter after preliminary coal data are available.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figures. The adjustment procedure uses State-level production data and is explained in EIA's Quarterly Coal Report. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first nine months (three quarters) and weekly/monthly estimates for the fourth quarter. The fourth quarter estimates may or may not be revised when preliminary data become available in March of the following year, depending on the magnitude of the difference between the estimates and the preliminary data. In any event, all quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the Monthly Energy Review in the fall of the following year.

Note 2. Coal Consumption. Coal consumption data are reported by major end-use sector. Forecast data (designated

by an "F") are derived from forecasted values shown in the U.S. Energy Information Administration (EIA) *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Base Case." The monthly estimates are based on the quarterly values, which are released in March, June, September, and December. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows:

Residential and Commercial—Coal consumption by the residential and commercial sectors is reported to EIA for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973-1981 and subsequent odd-numbered years), residential consumption of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. The 2007 share is applied to 2008 forward, and the other missing years' shares are interpolated.

Industrial Coke Plants—Prior to 1980, monthly coke plant consumption data were taken directly from reported data. For 1980–1987, coke plant consumption estimates were derived by proportioning reported quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported. Beginning in January 1988, monthly coke plant consumption estimates are derived from the reported quarterly data by using monthly ratios of raw steel production data from the American Iron and Steel Institute. The ratios are the monthly raw steel production from open hearth and basic oxygen process furnaces as a proportion of the quarterly production from those kinds of furnaces.

Industrial Other—Prior to 1978, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. For 1978 and 1979, monthly estimates were derived from data reported on Forms EIA-3 and EIA-6. For 1980–1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Beginning in January 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the

Federal Reserve System. Indices for six major industry groups are used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 311; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; non-metallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights. Prior to 2008, quarterly consumption data for the other industrial sector were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, and construction consumption data were included where appropriate. Beginning in 2008, quarterly consumption totals for other industrial coal include data for manufacturing and mining only. Over time, surveyed coal consumption data for agriculture, forestry, fishing, and construction dwindled to about 20,000 to 30,000 tons annually. Therefore, in 2008, EIA consolidated its programs by eliminating agriculture, forestry, fishing, and construction as surveyed sectors.

Electric Power Sector—Monthly consumption data for electric power plants are taken directly from reported data.

Note 3. Coal Stocks. Coal stocks data are reported by major end-use sector. Forecast data for the most recent months (designated by an "F") are derived from forecasted values shown in the U.S. Energy Information Administration (EIA) *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Base Case." The monthly estimates are based on the quarterly values (released in March, June, September, and December) or annual values. The estimates are revised as collected data become available from the data sources. Sector-specific information follows.

Producers and Distributors—Prior to 1998, quarterly stocks at producers and distributors were taken directly from reported data. Monthly data were estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Beginning in 1998, end-of-year stocks are taken from reported data. Monthly stocks are estimated by a model.

Residential and Commercial—Prior to 1980, stock estimates for the residential and commercial sector were taken directly from reported data. For 1980-2007, stock estimates were not collected. Beginning in 2008, quarterly stocks data are collected on Form EIA-3 (data for "Commercial and Institutional Coal Users").

Industrial Coke Plants—Prior to 1980, monthly stocks at coke plants were taken directly from reported data. Beginning in 1980, coke plant stocks are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.

Industrial Other—Prior to 1978, stocks for the other industrial sector were derived by using reported data to modify baseline figures from a one-time Bureau of Mines survey of consumers. For 1978–1982, monthly estimates were derived by judgmentally proportioning reported quarterly data based on representative seasonal patterns of supply and demand. Beginning in 1983, other industrial coal stocks are estimated as indicated above for coke plants. Quarterly stocks are taken directly from data reported on Form EIA-3 and therefore include only manufacturing industries; data for agriculture, forestry, fishing, mining, and construction stocks are not available.

Electric Power Sector—Monthly stocks data at electric power plants are taken directly from reported data.

Note 4. Coal Forecast Values. Data values preceded by "F" in this section are forecast values. They are derived from EIA's Short-Term Integrated Forecasting System (STIFS). The model is driven primarily by data and assumptions about key macroeconomic variables, the world oil price, and weather. The coal forecast relies on other variables as well, such as alternative fuel prices (natural gas and oil) and power generation by sources other than fossil fuels, including nuclear and hydroelectric power. Each month, EIA staff review the model output and make adjustments, if appropriate, based on their knowledge of developments in the coal industry.

The STIFS model results are published monthly in EIA's *Short-Term Energy Outlook*, which is accessible on the Web at http://www.eia.gov/emeu/steo/pub/contents.html.

Note 5. Additional Coal Information. EIA's *Quarterly Coal Report* provides additional information about coal data and estimation procedures.

Table 6.1 Sources

Production

1973–September 1977: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977 forward: U.S. Energy Information Administration (EIA), Weekly Coal Production.

Waste Coal Supplied

1989–1997: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

2004–2007: EIA, Form EIA-906, "Power Plant Report," Form EIA-920, "Combined Heat and Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Imports and Exports

U.S. Department of Commerce, Bureau of the Census, Monthly Reports IM 145 (Imports) and EM 545 (Exports).

Stock Change

Calculated from data in Table 6.3.

Losses and Unaccounted for

Calculated as the sum of production, imports, and waste coal supplied, minus exports, stock change, and consumption.

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

Coal consumption by the residential and commercial sectors combined is reported to the U.S. Energy Information Administration (EIA). EIA estimates the sectors individually using the method described in Note 2, "Consumption," at the end of Section 6. Data for the residential and commercial sectors combined are from:

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*.

January–September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks." October 1977–1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers—Upper Lake Docks."

1980–1997: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

1998–2007: DOI, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production."

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users" (data for "Commercial and Institutional Coal Users"); and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Commercial CHP

Table 7.4c.

Commercial Other

Calculated as "Commercial Total" minus "Commercial CHP."

Industrial Coke Plants

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual Supplement."

1981–1984: EIA, Form EIA-5/5A, "Coke Plant Report—Quarterly/Annual Supplement."

1985 forward: EIA, Form EIA–5, "Coke Plant Report—Quarterly"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Other Industrial Total

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1979: EIA, Form EIA-3, "Monthly Coal Consumption Report—Manufacturing Plants."

1980–1997: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants," and Form EIA-6, "Coal Distribution Report," quarterly.

1998-2007: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants," Form EIA-6A, "Coal Distribution Report," annual, and Form EIA-7A, "Coal Production Report," annual.

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users," and Form EIA-7A, "Coal Production Report," annual; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Other Industrial CHP

Table 7.4c.

Other Industrial Non-CHP

Calculated as "Other Industrial Total" minus "Other Industrial CHP."

Transportation

1973–1976: DOI, BOM, Minerals Yearbook.

January–September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks."

October–December 1977: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

Electric Power

Table 7.4b.

Table 6.3 Sources

Producers and Distributors

1973–1979: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Form 6-1419Q, "Distribution of Bituminous Coal and Lignite Shipments."

1980-1997: U.S. Energy Information Administration

(EIA), Form EIA-6, "Coal Distribution Report," quarterly. 1998-2007: EIA, Form EIA-6A, "Coal Distribution Report," annual.

2008 forward: EIA, Form EIA-7A, "Coal Production Report," annual, and Form EIA-8A, "Coal Stocks Report," annual; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Residential and Commercial

1973–1976: DOI, BOM, Minerals Yearbook.

January-September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks." October 1977–1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers—Upper Lake Docks."

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users" (data for "Commercial and Institutional Coal Users"); and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Industrial Coke Plants

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual."

1981–1984: EIA, Form EIA 5/5A, "Coke Plant Report—Quarterly/Annual Supplement."

1985 forward: EIA, Form EIA-5, "Coke Plant Report—Quarterly"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Industrial Other

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1979: EIA, Form EIA-3, "Monthly Coal Consumption Report—Manufacturing Plants."

1998–2007: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants."

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Electric Power

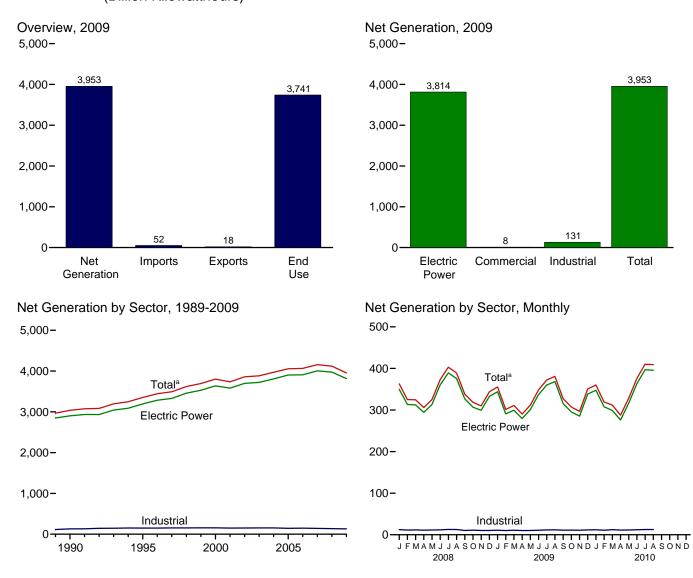
Table 7.5.

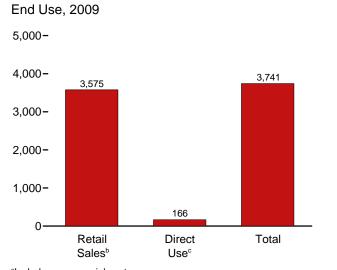
Electricity



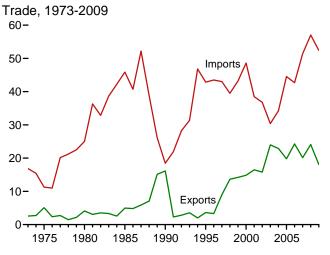
High-tension power lines and towers. Source: U.S. Department of Energy.

Figure 7.1 Electricity Overview (Billion Kilowatthours)





^aIncludes commercial sector. ^bElectricity retail sales to ultimate customers reported by electric utilities and other energy service providers.



°See "Direct Use" in Glossary. Web Page: http://www.eia.gov/emeu/mer/elect.html. Source: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

1973 Total	Electric Power Sector ^a 1,861 1,918 2,286 2,470 2,901 3,194 3,284 3,329	Com- mercial Sector ^b NA NA NA NA NA 8	Industrial Sector ^c 3 3 3 3	Total 1,864 1,921 2,290	Imports ^d	Exports ^d	Net Imports ^d	T&D Losses ^e and Unaccounted for ^f	Retail Sales	Direct Use ^h	Total
1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total	1,918 2,286 2,470 2,901 3,194 3,284 3,329	NA NA NA 6	3 3 3	1,921							
1999 Total	3,457	9 9 9	131 151 151 154 154	2,473 3,038 3,353 3,444 3,492 3,620	25 46 18 43 43 43 40	3 5 4 5 16 4 3 9	14 6 21 41 2 39 40 34 26	165 180 216 190 203 229 231 224 221	1,713 1,747 2,094 2,324 2,713 3,013 3,101 3,146 3,264	NA NA NA 125 151 153 156 161	1,713 1,747 2,094 2,324 2,837 3,164 3,254 3,302 3,425
2004 Total 2005 Total 2006 Total 2007 Total	3,530 3,638 3,580 3,698 3,721 3,808 3,902 3,908 4,005	9 8 7 7 7 8 8 8	1556 157 149 153 155 154 145 148 143	3,695 3,802 3,737 3,858 3,883 3,971 4,055 4,065 4,157	43 49 39 37 30 34 45 43	14 15 16 16 24 23 20 24 20	29 34 22 21 6 11 25 18 31	240 244 202 248 228 266 269 266 264	3,312 3,421 3,394 3,465 3,494 3,547 3,661 3,670 3,765	172 171 163 166 168 168 150 147	3,484 3,592 3,557 3,632 3,662 3,716 3,811 3,817 3,924
2008 January February March April May June July August September October November December Total	350 313 312 294 313 361 389 376 327 307 299 333 3,974	1 1 1 1 1 1 1 1 1 1 1 1 1 8	12 11 12 11 11 12 13 13 10 10 11 10 10	363 325 325 306 325 373 403 389 338 319 310 344 4,119	5 5 5 4 5 6 6 6 5 4 3 3 5 7	2 2 3 1 3 3 2 1 2 2 2 2 1 2	3 3 2 3 2 3 4 4 4 3 2 1 2 3 3	24 9 18 17 25 33 31 25 5 14 20 25 246	326 305 295 278 288 328 360 352 322 278 308 3,733	E 16 E 14 E 15 E 14 E 15 E 16 E 16 E 13 E 14 E 13 E 13	342 319 309 292 303 343 377 368 336 306 291 321 3,906
2009 January February March April May June July August September October November December Total	344 291 299 279 301 337 360 368 315 295 285 338 3,814	1 1 1 1 1 1 1 1 1 1 1 1 1 8	11 10 11 10 10 11 12 12 11 11 11 11 12 12	355 301 311 290 312 348 372 381 327 307 297 351 3,953	4 4 3 3 4 5 6 6 4 5 5 5 5	2 2 1 1 2 1 1 1 1 1 1 1 1	2 2 1 2 3 3 4 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	24 6 16 15 28 34 26 27 7 11 20 32 246	320 285 282 264 273 303 336 343 309 285 266 308 3,575	E 14 E 13 E 14 E 13 E 14 E 15 E 15 E 14 E 14 E 15 E 166	334 298 296 277 286 317 351 358 323 299 280 322 3,741
2010 January	348 308 299 276 316 364 397 396 2,702	1 1 1 1 1 1 1 5	12 11 12 11 11 12 13 13 95	360 319 312 288 328 376 410 409 2,803	5 4 4 4 3 4 4 4 33 33	1 1 1 1 2 2 2 2 2 2 12	4 3 3 3 1 2 3 2 22 22	18 11 8 10 33 36 29 24 169	331 297 292 266 282 328 368 371 2,535	E 15 E 14 E 15 E 14 E 14 E 15 E 16 E 16 E 120	346 311 307 280 296 343 384 387 2,655

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data

⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning

E=Estimate. NA=Not available.

Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data beginning in 1973.

Sources: See end of section.

are for electric utilities and independent power producers.

b Commercial combined-heat-and-power (CHP) and commercial electricity-only

plants.

^c Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. Through 1988, data are for industrial hydroelectric power only.

^d Electricity transmitted across U.S. borders. Net imports equal imports minus

exports.

^e Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 2, "Electrical System Energy Losses," at end of Section 2.

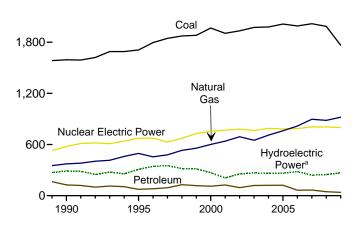
^f Data collection frame differences and nonsampling error.

in 1996, other energy service providers.

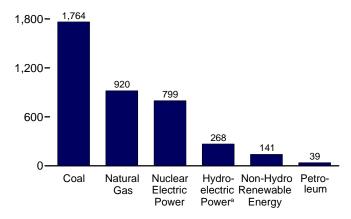
^h Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

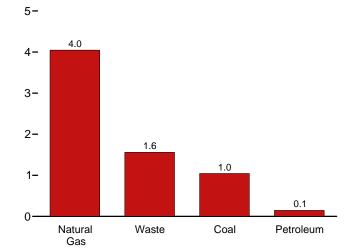
Total (All Sectors), Major Sources, 1989-2009 2,400-



Total (All Sectors), Major Sources, 2009 2,400-

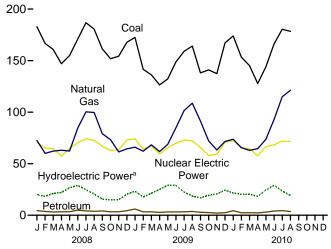


Commercial Sector, Major Sources, 2009



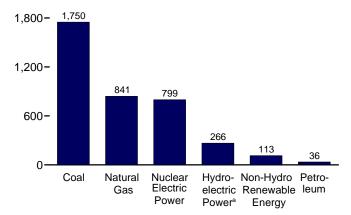
^aConventional and pumped storage hydroelectric power.

Total (All Sectors), Major Sources, Monthly

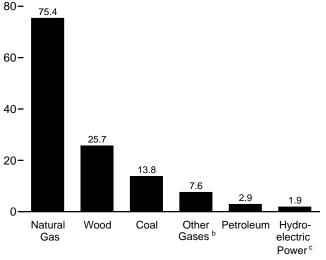


Electric Power Sector, Major Sources, 2009

2,400-



Industrial Sector, Major Sources, 2009



^cConventional hydroelectric power.

Web Page: http://www.eia.gov/emeu/mer/elect.html.

Sources: Tables 7.2a-7.2c.

^bBlast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Table 7.2a Electricity Net Generation: Total (All Sectors)

(Sum of Tables 7.2b and 7.2c; Million Kilowatthours)

	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power ^f	Bior Wood ^g	mass Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total ^k 1995 Total 1996 Total	1,402,128 1,594,011 1,709,426 1,795,196	314,343 289,095 245,994 100,202 126,460 74,554 81,411	340,858 299,778 346,240 291,946 372,765 496,058 455,056	NA NA NA 10,383 13,870 14,356	83,479 172,505 251,116 383,691 576,862 673,402 674,729	(f) (f) (f) (f) (f) -3,508 -2,725 -3,088	275,431 303,153 279,182 284,311 292,866 310,833 347,162	130 18 275 743 32,522 36,521 36,800	198 174 158 640 13,260 20,405 20,911	1,966 3,246 5,073 9,325 15,434 13,378 14,329	NA NA NA 11 367 497 521	NA NA NA 6 2,789 3,164 3,234	1,864,057 1,920,755 2,289,600 2,473,002 3,037,827 3,353,487 3,444,188
1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total	1,873,516 1,881,087 1,966,265 1,903,956 1,933,130 1,973,737 1,978,301 2,012,873 1,990,511	92,555 128,800 118,061 111,221 124,880 94,567 119,406 121,145 122,225 64,166 65,739	479,399 531,257 556,396 601,038 639,129 691,006 649,908 710,100 760,960 816,441 896,590	13,351 13,492 14,126 13,955 9,039 11,463 15,600 15,252 13,464 14,177 13,453	628,644 673,702 728,254 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,425	-4,040 -4,467 -6,097 -5,539 -8,823 -8,743 -8,535 -8,488 -6,558 -6,558 -6,589	356,453 323,336 319,536 275,573 216,961 264,329 275,806 268,417 270,321 289,246 247,510	36,948 36,338 37,041 37,595 35,200 38,665 37,529 38,117 38,856 38,762 39,014	21,709 22,448 22,572 23,131 14,548 15,044 15,812 15,420 16,099 16,525	14,726 14,774 14,827 14,093 13,741 14,491 14,424 14,811 14,658 14,568	511 502 495 493 543 555 534 575 550 508 612	3,288 3,026 4,488 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450	3,492,172 3,620,295 3,694,810 3,802,105 3,736,644 3,858,452 3,883,185 3,970,555 4,055,423 4,064,702 4,156,745
February	182,876 166,666 160,743 146,983 154,916 171,043 186,733 180,576 161,356 151,841 154,281 167,786 1,985,801	4,498 3,669 3,151 3,400 3,398 4,962 4,157 3,811 4,171 3,286 3,345 4,394 46,243	72,600 60,042 62,171 63,046 62,270 84,620 100,321 99,673 79,136 73,283 61,454 64,364 882,981	1,063 972 1,049 1,021 1,044 1,132 1,174 1,147 823 806 721 753	70,735 65,130 64,716 57,333 64,826 70,319 74,318 72,617 67,054 62,820 63,408 72,931	-746 -451 -553 -132 -587 -372 -799 -648 -517 -497 -489 -498	20,779 18,789 21,669 22,234 27,221 29,177 25,555 21,229 16,178 15,470 15,668 20,861 254,831	3,338 3,010 3,123 2,930 2,927 3,114 3,327 3,059 3,064 3,077 2,988 37,300	1,407 1,364 1,472 1,504 1,475 1,502 1,608 1,529 1,427 1,490 1,449 1,506	1,213 1,090 1,261 1,229 1,270 1,270 1,289 1,283 1,244 1,287 1,244 1,272 14,951	16 36 75 94 99 128 111 105 93 60 29 19	4,273 3,852 4,782 5,225 5,340 5,140 4,008 3,264 3,111 4,756 4,994 6,616 55,363	362,998 325,106 324,630 305,865 325,245 373,109 402,900 388,987 338,056 318,547 310,046 343,898 4,119,388
Panuary February April May June July August September October November December Total	172,498 141,574 136,167 126,461 132,204 148,679 159,099 164,078 138,087 140,992 137,407 167,241 1,764,486	6,013 3,284 3,328 2,785 3,228 3,337 3,649 2,859 2,590 2,087 2,418 38,827	65,991 62,104 68,308 61,770 68,697 84,703 101,570 108,724 91,413 72,204 63,325 71,570 920,378	801 774 820 753 763 872 966 1,036 1,037 977 935 963 10,698	74,102 64,227 67,241 59,408 65,375 69,735 72,949 72,245 65,662 58,021 59,069 70,710 798,745	-501 -243 -315 -272 -349 -226 -491 -613 -237 -385 -330 -383 -4,346	23,829 17,887 21,692 25,418 29,419 29,130 22,930 19,215 17,265 19,650 20,905 24,792 272,131	3,067 2,809 2,889 2,707 2,744 3,020 3,218 3,333 3,009 3,057 3,195 3,195 36,243	1,442 1,343 1,547 1,556 1,498 1,543 1,608 1,477 1,485 1,452 1,549	1,313 1,191 1,334 1,205 1,257 1,265 1,261 1,242 1,269 1,292 1,352	5 28 71 91 101 97 111 105 85 61 36 17	6,018 5,675 6,938 7,294 6,094 5,405 4,700 5,243 4,367 6,326 6,430 6,270 70,761	355,379 301,443 310,941 290,120 311,996 348,379 372,249 380,890 327,175 307,156 296,735 350,647 3,953,111
2010 January	173,965 153,388 145,198 127,821 144,019 166,162 178,354 1,269,309 1,180,759 1,350,537	4,396 2,360 2,459 2,270 3,019 4,050 4,475 3,610 26,640 28,872 31,046	73,685 65,587 62,882 64,595 73,590 92,824 114,896 121,268 669,327 621,867 604,743	922 823 1,004 951 991 918 949 1,016 7,576 6,785 8,604	72,534 65,247 64,639 57,611 66,658 68,301 71,913 71,574 538,479 545,282 539,995	-537 -96 -49 -303 -197 -226 -466 -533 -2,406 -3,011 -4,287	22,071 20,448 20,574 18,543 24,793 29,294 24,023 19,717 179,464 189,519 186,654	3,227 3,003 3,306 2,967 2,974 3,151 3,373 3,363 25,364 23,788 25,111	1,432 1,266 1,504 1,526 1,488 1,534 1,537 11,772	1,350 1,181 1,246 1,225 1,308 1,281 1,287 1,352 10,229	8 28 64 90 124 143 132 166 755	6,355 5,110 8,196 9,530 8,440 7,793 6,490 6,627 58,540	360,302 319,142 311,933 287,773 328,192 376,216 410,053 409,094 2,802,706 2,671,398 2,808,840

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

NA=Not available.

Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data

beginning in 1973.
Sources: See sources for Tables 7.2b and 7.2c.

synfuel.

b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

Natural gas, plus a small amount of supplemental gaseous fuels.

Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

derived from fossil fuels.

e Pumped storage facility production minus energy used for pumping.
f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
g Wood and wood-derived fuels.
h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

Solar thermal and photovoltaic (PV) energy.

i Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

K Thoruph 1988 all data except hydroglectic are for electric utilities only:

k Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels												
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power ^f	Bior Wood ^g	mass Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total 1980 Total 1985 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total	1,402,128 1,572,109 1,686,056 1,771,973 1,820,762 1,850,193 1,858,618 1,943,111 1,882,826 1,910,613 1,952,714 1,957,188 1,992,054 1,969,737	314,343 289,095 245,994 100,202 118,864 68,146 74,783 86,479 122,211 111,539 105,192 119,149 89,733 113,697 114,678 116,482 59,708 61,306	340,858 299,778 346,240 291,946 309,486 419,179 378,757 399,596 449,293 472,996 517,978 554,940 607,683 567,303 627,172 683,829 734,417 814,752	NA NA NA 621 1,927 1,341 1,533 2,315 1,607 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042	83,479 172,505 251,116 383,691 576,862 673,402 674,729 628,644 673,702 728,254 753,893 768,826 780,064 763,733 788,528 781,986 787,219	(f) (f) (f) (f) -3,508 -2,725 -3,088 -4,040 -4,467 -6,097 -5,539 -8,823 -8,743 -8,535 -8,488 -6,558 -6,558 -6,558 -6,558	272,083 300,047 276,021 281,149 289,753 305,410 341,159 350,648 317,867 314,663 271,338 213,749 260,491 271,512 265,064 267,040 286,254 245,843	130 18 275 743 7,032 7,537 8,386 8,680 8,961 8,916 8,294 9,009 9,528 9,736 10,570 10,341 10,711	198 174 158 640 11,500 17,986 17,816 18,485 19,233 19,493 20,307 12,944 13,145 13,808 13,062 13,031 13,927 14,294	1,966 3,246 5,073 9,325 15,434 13,378 14,726 14,774 14,827 14,093 13,741 14,491 14,424 14,811 14,692 14,568 14,637	NA NA NA 11 367 497 521 511 502 493 543 555 534 575 550 508 612	NA NA NA 6 2,789 3,164 3,234 3,228 3,026 5,593 6,737 10,354 11,187 14,144 17,811 126,589 34,450	1,860,710 1,917,649 2,286,439 2,469,841 2,901,322 3,194,230 3,284,141 3,329,375 3,457,416 3,529,982 3,637,529 3,580,053 3,698,458 3,721,159 3,808,360 3,902,192 3,900,077 4,005,343
2008 January February March April May June July August September October November December Total	181,337 165,343 159,284 145,587 153,473 169,600 185,208 179,082 159,933 150,464 153,016 166,512 1,968,838	4,145 3,377 2,856 3,141 3,155 4,676 3,904 3,554 3,888 3,030 3,105 4,050 42,881	65,197 53,460 55,499 56,765 55,665 77,685 92,534 92,025 73,270 66,624 55,482 58,166 802,372	293 247 274 280 312 325 342 316 193 221 172 224 3,200	70,735 65,130 64,716 57,333 64,826 70,319 74,318 72,617 67,054 62,820 63,408 72,931 806,208	-746 -451 -553 -132 -587 -372 -799 -648 -517 -497 -489 -498	20,611 18,627 21,485 22,050 27,046 29,043 25,429 21,111 16,081 15,372 15,546 20,696 253,096	960 872 885 754 753 883 988 983 894 802 911 953 10,638	1,229 1,169 1,285 1,301 1,283 1,309 1,384 1,325 1,246 1,286 1,253 1,308	1,213 1,090 1,261 1,229 1,270 1,270 1,289 1,283 1,244 1,287 1,244 1,272	16 36 75 94 99 128 111 105 93 60 29 19	4,273 3,852 4,782 5,225 5,340 5,140 4,008 3,264 3,111 4,756 4,994 6,616 55,363	349,836 313,292 312,410 294,203 313,216 360,612 389,318 375,612 327,021 306,769 299,222 332,839 3,974,349
2009 January February March April May June July August September October November December Total	171,125 140,382 134,933 125,289 131,022 147,429 157,805 162,732 136,856 139,730 136,342 165,980 1,749,626	5,649 3,000 3,066 2,526 2,960 2,985 3,098 3,386 2,617 2,399 1,893 2,214 35,793	59,500 55,924 61,709 55,664 62,502 78,112 94,529 101,573 84,725 65,535 56,782 64,390 840,946	224 215 242 233 234 257 295 283 303 286 263 272 3,108	74,102 64,227 67,241 59,408 65,375 72,949 72,245 65,662 58,021 59,069 70,710 798,745	-501 -243 -315 -272 -349 -226 -491 -613 -237 -385 -330 -383 -4,346	23,648 17,738 21,502 25,224 29,218 28,943 22,793 19,083 17,168 19,509 20,771 24,605 270,202	962 897 805 705 767 956 944 1,013 855 819 843 999	1,250 1,195 1,351 1,373 1,306 1,345 1,387 1,390 1,273 1,297 1,252 1,356	1,313 1,191 1,334 1,205 1,257 1,267 1,265 1,261 1,242 1,269 1,292 1,352	5 28 71 91 101 97 111 105 85 61 36 17	6,018 5,675 6,938 7,294 6,094 5,405 4,700 5,243 4,367 6,326 6,430 6,270 70,761	343,878 290,761 299,472 279,350 301,083 336,868 360,019 368,336 315,490 295,438 285,06 338,398 3,814,298
2010 January	172,318 151,840 143,526 126,571 142,463 164,560 178,652 176,528 1,256,457 1,170,717 1,338,913	4,139 2,153 2,274 2,090 2,812 3,823 4,238 3,396 24,925 26,669 28,808	66,422 59,129 55,709 57,831 66,939 85,645 107,365 113,674 612,714 569,514 548,830	276 249 269 265 270 244 259 229 2,062 1,984 2,390	72,534 65,247 64,639 57,611 66,658 68,301 71,913 71,574 538,479 545,282 539,995	-537 -96 -49 -303 -197 -226 -466 -533 -2,406 -3,011 -4,287	21,898 20,280 20,390 18,366 24,618 29,148 23,917 19,621 178,238 188,149 185,402	1,003 894 890 791 839 929 1,030 1,056 7,433 7,049 7,078	1,246 1,113 1,332 1,324 1,273 1,290 1,323 1,313 10,214 10,597 10,285	1,350 1,181 1,246 1,225 1,308 1,281 1,287 1,352 10,229 10,054 9,905	8 28 64 90 124 143 132 165 754 609 664	6,355 5,110 8,196 9,530 8,440 7,793 6,490 6,627 58,540 47,367 35,886	347,584 307,643 299,065 275,998 316,181 363,571 396,790 395,654 2,702,486 2,579,767 2,708,497

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

* Inrough 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available.

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data

beginning in 1973.
Sources: See end of section.

synfuel.

b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

petroleum, and waste oil.

C Natural gas, plus a small amount of supplemental gaseous fuels.

Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Pumped storage facility production minus energy used for pumping.

† Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

Hydroelectric Power."

g Wood and wood-derived fuels.

h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

i Solar thermal and photovoltaic (PV) energy.
j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power products.

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Subset of Table 7.2a; Million Kilowatthours)

		Com	mercial Se	ectora		Industrial Sector ^b								
		Datas	National	Biomass		Coal ^c	Petro- leum ^d	Natural	Other	Hydro-	Biomass			
	Coalc	Petro- leum ^d	Natural Gas ^e	Waste ^f	Totalg			Natural Gas ^e	Other Gases ^h	electric Power ⁱ	Wood ^j	Wastef	Total ^k	
1973 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,347	NA	NA	3,347	
1975 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106	
1980 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161	
1985 Total	NA	NA	NA	NA	NA.	NA.	NA.	NA	NA	3,161	NA.	NA	3,161	
1990 Total	796	589	3,272	812	5,837	21,107	7,008	60,007	9,641	2,975	25,379	949	130,830	
1995 Total	998	379	5,162	1,519 2,176	8,232	22,372	6,030 6,260	71,717	11,943	5,304	28,868	900 919	151,025	
1996 Total 1997 Total	1,051 1,040	369 427	5,249 4,725	2,176	9,030 8,701	22,172 23,214	5,649	71,049 75,078	13,015 11,814	5,878 5,685	28,354 28,225	882	151,017 154.097	
1998 Total	985	383	4.879	2,335	8,748	22,337	6,206	77,085	11,170	5,349	27,693	880	154,132	
1999 Total	995	434	4,607	2,393	8,563	21,474	6.088	78,793	12,519	4.758	28,060	686	156,264	
2000 Total	1,097	432	4,262	1.985	7,903	22,056	5,597	78,798	11,927	4.135	28,652	839	156,673	
2001 Total	995	438	4,434	1,007	7,416	20,135	5,293	79,755	8,454	3,145	26,888	596	149,175	
2002 Total	992	431	4,310	1,053	7,415	21,525	4,403	79,013	9,493	3,825	29,643	846	152,580	
2003 Total	1,206	423	3,899	1,289	7,496	19,817	5,285	78,705	12,953	4,222	27,988	715	154,530	
2004 Total	1,340	499	3,969	1,562	8,270	19,773	5,967	78,959	11,684	3,248	28,367	797	153,925	
2005 Total	1,353	375	4,249	1,657	8,492	19,466	5,368	72,882	9,687	3,195	28,271	733	144,739	
2006 Total	1,310	235	4,355	1,599	8,371	19,464	4,223	77,669	9,923	2,899	28,400	572	148,254	
2007 Total	1,371	189	4,257	1,599	8,273	16,694	4,243	77,580	9,411	1,590	28,287	631	143,128	
2008 January	117	20	395	117	709	1,422	333	7,008	770	163	2,376	61	12,453	
February	107	14	346	114	636	1,217	278	6,236	725	158	2,136	82	11,178	
March	79	9	352	117	619	1,380	286	6,319	775	174	2,237	70	11,601	
April	88	8	307	135	614	1,308	251	5,974	741	174	2,174	67	11,049	
May	96 116	8 12	292 330	137 139	609 675	1,347 1,327	235 273	6,314 6.605	732 807	170 128	2,173 2.229	55 55	11,420 11,822	
June July	122	17	384	134	728	1,403	236	7,402	832	120	2,229	91	12,855	
August	117	9	390	132	715	1,378	248	7,402	831	117	2,358	72	12,660	
September	106	7	366	129	675	1,317	276	5,500	630	96	2,163	52	10,360	
October	101	8	344	126	642	1,276	248	6,315	585	95	2,261	77	11,137	
November	99	11	320	128	623	1,166	229	5,653	549	119	2,165	68	10,201	
December	112	18	360	127	681	1,161	326	5,838	529	160	2,033	71	10,378	
Total	1,261	142	4,188	1,534	7,926	15,703	3,219	76,421	8,507	1,676	26,641	821	137,113	
2009 January	108	30	357	125	681	1,265	335	6,134	577	172	2,104	66	10,821	
February	85	12	333	98	580	1,107	273	5,847	559	142	1,910	50	10,102	
March	85	10	346	132	648	1,148	252	6,253	578	180	2,082	64	10,820	
April	75	11	338	122	621	1,096	248	5,768	520	185	2,001	62	10,149	
May	75 76	13	321	136	624	1,107	255	5,874	529	192	1,976	56	10,289	
June	76 88	9 10	328 356	137 138	627 662	1,174 1,206	253 229	6,264 6.685	614 671	179 136	2,062 2,273	60 69	10,884 11.568	
July August	101	14	364	146	698	1,206	249	6,787	754	132	2,273	72	11,856	
September	85	10	316	135	613	1.146	232	6,372	734	96	2,152	68	11,030	
October	80	11	328	127	614	1.181	180	6,341	691	138	2,132	61	11,104	
November	85	8	308	136	611	979	186	6,234	672	129	2,350	64	10,918	
December	102	9	354	127	657	1,159	195	6,826	692	180	2,194	67	11,592	
Total	1,044	148	4,047	1,560	7,638	13,816	2,886	75,385	7,590	1,860	25,658	758	131,174	
2010 January	114	10	353	123	664	1,534	247	6,910	645	167	2,222	63	12,055	
February	99	8	313	95	568	1,448	200	6,146	574	162	2,107	58	10,931	
March	83	9	326	114	596	1,590	177	6,846	735	178	2,414	58	12,272	
April	76	8	318	135	615	1,175	172	6,445	687	166	2,174	67	11,161	
May	80	12	323	144	646	1,475	195	6,327	721	164	2,133	68	11,365	
June	84	13	359	141	683	1,519	213	6,821	674	136	2,220	68	11,962	
July	90	15	416	137	733	1,661	222	7,115	690	103	2,341	74	12,529	
August 8-Month Total	89 714	12 86	430 2,838	145 1,034	756 5,260	1,737 12,138	201 1,628	7,165 53,775	787 5,514	94 1,170	2,305 17,916	69 524	12,685 94,959	
			•	,	-		-	-		-	-			
2009 8-Month Total 2008 8-Month Total	692 842	109 98	2,741 2,798	1,034 1,023	5,143 5,305	9,349 10,782	2,093 2,140	49,612 53,116	4,801 6,214	1,318 1,206	16,725 18,019	498 554	86,489 95,037	

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only

Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent

rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data beginning in 1973.

Sources: See end of section.

plants.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

synfuel.

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

petroleum, and waste oil.

e Natural gas, plus a small amount of supplemental gaseous fuels.

f Municipal solid waste from biogenic sources, landfill gas, sludge waste,

Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

g Includes a small amount of conventional hydroelectric power, other gases,

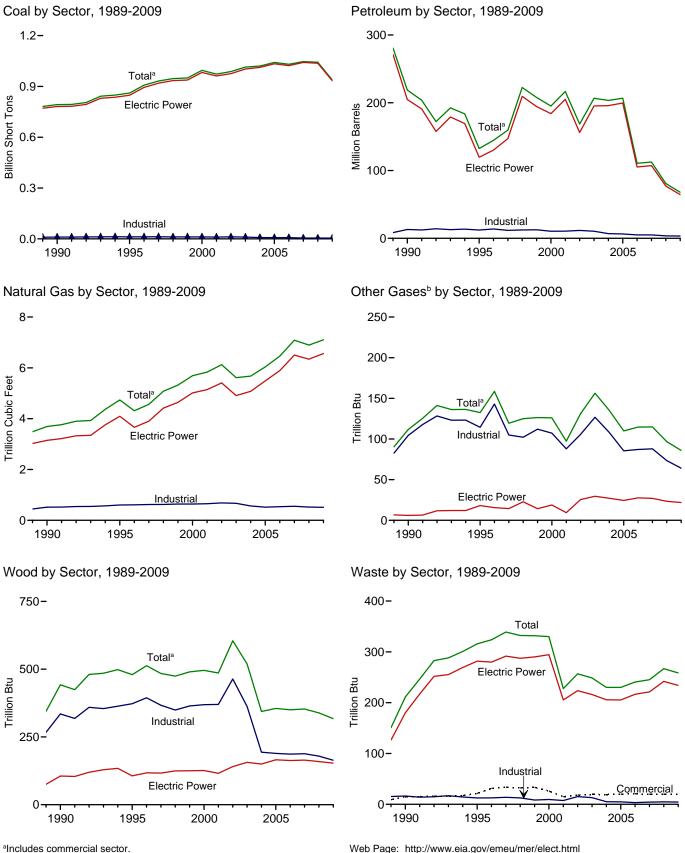
photovoltaic (PV) energy, wood, and other, which are not separately displayed.

^h Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Conventional hydroelectric power.
Wood and wood-derived fuels.

k Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). NA=Not available.

Consumption of Selected Combustible Fuels for Electricity Generation Figure 7.3



Web Page: http://www.eia.gov/emeu/mer/elect.html Sources: Tables 7.3a-7.3c.

^bBlast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Table 7.3a Consumption of Combustible Fuels for Electricity Generation: **Total (All Sectors)** (Sum of Tables 7.3b and 7.3c)

				Petroleum	,				Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total	389,212 405,962 569,274	47,058 38,907 29.051	513,190 467,221 391,163	NA NA NA	507 70 179	562,781 506,479 421,110	3,660 3,158 3.682	NA NA NA	1 (s) 3	2 2 2	NA NA NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k 1995 Total	792,457 860,594	18,143 19,615	190,652 95,507	437 680	1,914 3,355	218,800 132,578	3,692 4,738	112 133	442 480	211 316	36 42
1996 Total	907,209	20,252	106,055	1,712	3,322	144,626	4,312	159	513	324	37
1997 Total	931,949	20,309	118,741	237	4,086	159,715	4,565	119	484	339	36
1998 Total	946,295 949.802	25,062 25,951	172,728 158,187	549 974	4,860 4,552	222,640 207,871	5,081 5,322	125 126	475 490	332 332	36 41
2000 Total	994,933	31,675	143,381	1,450	3,744	195,228	5,691	126	496	330	46
2001 Total	972,691	31,150	165,312	855	3,871	216,672	5,832	97	486	228	160
2002 Total	987,583 1,014,058	23,286 29,672	109,235 142,518	1,894 2,947	6,836 6,303	168,597 206,653	6,126 5,616	131 156	605 519	257 249	191 193
2004 Total		20,163	142,088	2,856	7,677	203,494	5,675	135	344	230	183
2005 Total	1,041,448	20,651	141,518	2,968	8,330	206,785	6,036	110	355	230	173
2006 Total 2007 Total	1,030,556 1,046,795	13,174 15,683	58,473 63,833	2,174 2,917	7,363 6,036	110,634 112,615	6,462 7,089	115 115	350 353	241 245	172 168
2008 January	94,532	1,633	3,309	350	514	7,864	554	9	30	21	14
February	86,702	1,198	2,697	265	469	6,508	458	8	28	20	13
March April	83,373 76.924	936 934	2,352 2.627	250 193	396 432	5,517 5.915	480 487	9 8	29 26	23 22	15 14
May	81,248	940	2,802	196	409	5,982	495	8	26	22	15
June	89,532	1,351	4,722	237	500	8,812	682	9	28	23	15
July August	98,194 95,752	1,028 901	3,863 3,223	200 179	452 480	7,349 6,703	805 786	10 10	30 30	24 23	16 15
September	85,545	929	3,896	194	447	7,253	618	7	28	22	14
October	80,186	771	2,339	176	469	5,633	565	7	27	22	13
November December	80,993 89.353	850 1.358	2,610 3.751	210 373	423 426	5,786 7.610	473 491	6 6	28 27	22 23	13 14
Total		12,832	38,191	2,822	5,417	80,932	6,896	97	339	267	170
2009 January	91,018	1,767	5,936	443	428	10,287	500	6	28	21	12
February March	74,577 72,264	1,176 1,217	2,365 1,993	288 274	392 496	5,788 5,966	467 518	6 6	25 25	19 22	11 13
April	67,328	794	1,655	197	436	4,826	471	6	23	22	13
May	70,665	1,083	2,202	210	438	5,687	536	6	24	22	14
June July	79,264 84.658	1,006 953	2,366 2.538	166 176	435 448	5,712 5.909	667 800	7 8	26 29	23 23	14 14
August	87,039	1,025	2,999	206	441	6,435	860	8	30	23	14
September	74,051	803	1,856	178	432	4,997	708	8	26	21	13
October November	75,163 73.459	888 791	2,068 1,219	195 185	273 273	4,517 3.562	555 478	8 7	26 28	21 21	13 13
December	88,572 938,059	1,020 12,523	1,229	203 2,723	362 4,855	4,262 67,948	543 7,105	9 86	29 318	22 259	13 159
Total	•	,	28,426	•	,	•	,				
2010 January February	90,914 80,231	2,508 817	2,838 1.077	251 193	447 413	7,832 4,150	564 497	8 6	29 26	20 18	13 11
March	76,855	750	1,259	133	446	4,370	474	8	28	22	13
April	67,329	681	1,167	121	392	3,931	493	8	26	22	14
May June	76,249 87,543	1,009 1,245	2,013 3,131	120 152	427 501	5,275 7,031	582 734	8 7	26 28	22 21	14 14
July	95,221	1,331	3,719	202	538	7,940	924	7	29	22	14
August 8-Month Total	94,872 669,214	1,086 9,428	3,024 18,227	163 1,335	426 3,589	6,405 46,935	972 5,240	8 62	30 223	22 169	15 108
2009 8-Month Total	626,814	9,021	22.054	1,961	3,515	50,610	4,820	53	209	174	106
2008 8-Month Total	706,258	8,924	25,596	1,869	3,652	54,650	4,820	71	209	174	117

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

Wood and wood-derived fuels.

tire-derived fuels).

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants.
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.

and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data beginning in 1973.

Sources: See sources for Tables 7.3b and 7.3c.

synfuel.

b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal

combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, and waste oil.

e Petroleum coke is converted from short tons to barrels by multiplying by 5.

Natural gas, plus a small amount of supplemental gaseous fuels

g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste

from non-biogenic sources, and tire-derived fuels).

k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial

Table 7.3b Consumption of Combustible Fuels for Electricity Generation: **Electric Power Sector** (Subset of Table 7.3a)

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total 1985 Total	569,274 693,841	29,051 14,635	391,163 158,779	NA NA	179 231	421,110 174,571	3,682 3,044	NA NA	3 8	2 7	NA NA
1990 Total k	781,301	16,394	183,285	25	1,008	204,745	3,147	6	106	180	(s)
1995 Total	847,854	18,066	88,895	441	2,452	119,663	4,094	18	106	282	2
1996 Total	894,400	18,472	98,795	567	2,467	130,168	3,660	16	117	280	2
1997 Total 1998 Total	919,009 934,126	18,646 23,166	112,423 165,875	130 411	3,201 3,999	147,202 209,447	3,903 4,416	14 23	117 125	292 287	1 2
1999 Total	937,888	23,875	151,921	514	3,999	194.345	4,416	14	125	290	1
2000 Total	982,713	29,722	138,047	403	3,155	183,946	5,014	19	126	294	1
2001 Total	961,523	29,056	159,150	374	3,308	205,119	5,142	9	116	205	109
2002 Total	975,251	21,810	104,577	1,243	5,705	156,154	5,408	25	141	224	137
2003 Total 2004 Total	1,003,036 1,012,459	27,441 18,793	137,361 138,831	1,937 2,511	5,719 7,135	195,336 195,809	4,909 5,075	30 27	156 150	216 206	136 131
2005 Total	1,012,459	19,450	138,337	2,591	7,135 7,877	199,760	5,485	24	166	205	116
2006 Total	1,022,802	12,578	56,347	1,783	6,905	105,235	5,891	28	163	216	117
2007 Total	1,041,346	15,135	62,072	2,496	5,523	107,316	6,502	27	165	221	117
2008 January	94,085	1,573	3,175	336	476	7,467	503	2	14	20	10
February	86,301	1,155	2,584	252	437	6,177	413	2	13	18	9
March	82,904	905	2,248	224	363	5,192	434	2	14	21	11
April	76,465 80,763	910 911	2,547 2,731	182 185	398 376	5,631 5,707	444 450	2 2	11 12	20 20	10 10
May June	89,057	1,320	4.648	226	461	8,500	634	2	13	20	10
July	97,694	971	3,806	189	414	7,035	752	2	15	22	11
August	95,263	857	3,171	171	441	6,405	734	2	15	21	11
September	85,078	849	3,845	174	412	6,930	578	1	13	20	10
October November	79,729 80.601	747 815	2,281 2,548	158 202	433 393	5,352 5,531	519 432	2 1	12 13	20 20	10 10
December	88,952	1,307	3,637	309	394	7,220	449	2	14	21	10
Total	1,036,891	12,318	37,222	2,608	5,000	77,149	6,342	23	159	242	120
2009 January	90,589	1,691	5,794	424	394	9,879	456	1	14	19	10
February	74,201	1,073	2,291	270	362	5,446	425	1	13	17	9
March	71,854	1,179	1,932	233	461	5,650	473	2	12	20	10
April May	66,938 70.259	746 991	1,605 2.148	170 199	402 404	4,531 5,358	430 494	2 2	10 11	20 20	10 10
June	78,847	938	2,146	148	401	5,410	622	2	13	21	10
July	84,227	885	2,496	169	414	5,620	752	2	14	21	11
August	86,591	951	2,950	190	406	6,122	811	2	15	21	11
September	73,644 74,743	744 850	1,811 2,026	165 187	399 248	4,715 4,303	662 509	2 2	12 12	19 19	10
October November	74,743 73,128	757	2,026 1,180	187	248 245	4,303 3,340	433	2	13	19	9
December	88,177	985	1,173	194	333	4,018	494	2 2	15	20	10
Total	933,197	11,791	27,723	2,525	4,471	64,393	6,561	22	153	234	118
2010 January	90,260	2,464	2,779	240	412	7,541	514	2	15	18	g
February	79,591	789	1,029	188	382	3,913	453	2	13	16	8
March	76,125	720	1,226	127	416	4,152	426	2 2	13	20	10
April May	66,902 75,539	658 983	1,138 1,973	117 114	361 393	3,721 5,036	448 536	2	12 12	20 19	10 10
June	86,874	1,216	3,087	146	463	6,765	685	2	13	19	10
July	94,471	1,299	3,660	199	500	7,659	871	2	14	20	10
August	94,059	1,060	2,985	159	391	6,157	920	2	15	20	10
8-Month Total	663,822	9,188	17,876	1,290	3,318	44,943	4,852	15	107	152	79
2009 8-Month Total	623,506	8,455	21,534	1,803	3,245	48,017	4,463	14	102	157	79
2008 8-Month Total	702,531	8,600	24,910	1,766	3,368	52.115	4,364	17	106	162	81

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

tire-derived fuels).

Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

synfuel.

b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal

For 1980-2000 electric utility data also include combustion plant use of petroleum. For 1980-2000, electric utility data also include

small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel

Jet fuel, kerosene, other petroleum liquids, and waste oil.
Petroleum coke is converted from short tons to barrels by multiplying by 5.

Natural gas, plus a small amount of supplemental gaseous fuels

g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Wood and wood-derived fuels.

i Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

i Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

k Through 1988, data are for electric utilities as

k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data beginning in 1973.

Table 7.3c Consumption of Selected Combustible Fuels for Electricity Generation: Commercial and Industrial Sectors (Subset of Table 7.3a)

		Commerci	ial Sector ^a				Indu	strial Sector	b		
			Natural	Biomass			Natural	Other	Bion	nass	
	Coalc	Petroleum ^d	Gase	Waste ^f	Coalc	Petroleum ^d	Gas ^e	Gases	Woodh	Wastef	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillior	n Btu	
1989 Total	414	1,165	18	9	9,707	8,482	444	83	267	15	37
1990 Total	417	953	28	15	10,740	13,103	517	104	335	16	36
1995 Total1996 Total	569 656	649 645	43 42	21 31	12,171 12,153	12,265 13,813	601 610	114 143	373 394	13 13	40 35
1997 Total	630	790	39	34	12,311	11,723	623	105	367	14	36
1998 Total	440	802	41	32	11,728	12,392	625	102	349	13	35
1999 Total	481	931 823	39	33	11,432	12,595	639 640	112 107	364	8 10	39 45
2000 Total 2001 Total	514 532	823 1,023	37 36	26 15	11,706 10,636	10,459 10,530	654	107 88	369 370	10 7	45 44
2002 Total	477	834	33	18	11,855	11,608	685	106	464	15	43
2003 Total	582	894	38	19	10,440	10,424	668	127	362	13	46
2004 Total	377	766	33	19	7,687	6,919	566	108	194	5	41
2005 Total	377 347	585 333	34 35	20 21	7,504 7,408	6,440 5,066	518 536	85 87	189 187	5 3	46 45
2007 Total	361	258	34	19	5,089	5,041	554	88	188	4	41
2008 January	33	22	3	2	414	375	48	6	16	(s)	3
February	31	18 10	3 3	2 2	371 444	313	42	6 7	14	1	3
March April	25 25	9	3 2	2	433	315 274	43 41	6	15 15	(s) (s)	3
May	28	9	2	2	457	266	43	6	15	(s)	4
June	35	13	3	2	441	299	45	7	15	(s)	4
July	36	18	3	2	464	296	50	7	16	. 1	4
August September	34 32	11 8	3	2 2	455 435	287 315	49 37	8 6	16 14	(s) (s)	4 3
October	28	10	3	2	428	271	43	5	15	(s)	3
November	29	14	3	2	362	242	39	5	15	(s)	2 2
December	32	24	3	2	369	365	39	5	13	(s)	
Total	369	166	33	20	5,075	3,617	520	73	179	5	39
2009 January February	33 28	31 13	3	2 1	396 347	377 330	42 39	5 5	13 12	(s) (s)	2
March	25 25	11	3 3	2	385	304	42	5	13	(s)	2
April	23	13	3	2	367	282	39	4	13	(s)	3
May	22	15	3	2	383	314	40	4	13	(s)	3
June	23	11	3	2 2	394	291	42	5	13	(s)	3
July August	26 29	12 17	3	2	405 420	276 296	45 46	6 6	15 15	(s) (s)	3
September	25	13	3	2	383	268	44	6	14	(s)	3
October	24	13	3	2 2	396	201	43	6	14	(s)	3
November	25	10	2		307	211	43	6	15	(s)	3
December Total	29 313	11 171	3 32	2 20	366 4,549	233 3,383	47 511	7 64	14 164	(s) 4	3 31
2010 January	33	11	3	2	621	280	48	6	14	(s)	3
February	29	11	3	1	611	225	42	5	14	(s)	2
March	25 22	11 10	3	2	705 406	207 200	45 43	6 6	15 14	(s)	3
April May	22	10 13	3 3	2 2	406 687	200 227	43 43	6	14 14	(s) (s)	3
June	26	15	3	2	643	251	46	6	14	(s)	3
July	27	17	3	2	722	264	49	6	15	(s)	3
August 8-Month Total	27 211	14 103	3 23	2 14	786 5,181	234 1,889	49 365	6 47	15 115	(s) 3	3 22
2009 8-Month Total	211	123	22	14	3,098	2,470	335	40	107	3	20
2008 8-Month Total	247	111	22	14	3,480	2,425	362	53	122	3	28

a Commercial combined-heat-and-power (CHP) and commercial electricity-only

technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

See http://www.eia.gov/emeu/mer/elect.html for all available data Web Page:

web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data beginning in 1989.
Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report.—Nonutility." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

plants.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

synfuel.

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

Natural gas, plus a small amount of supplemental gaseous fuels.

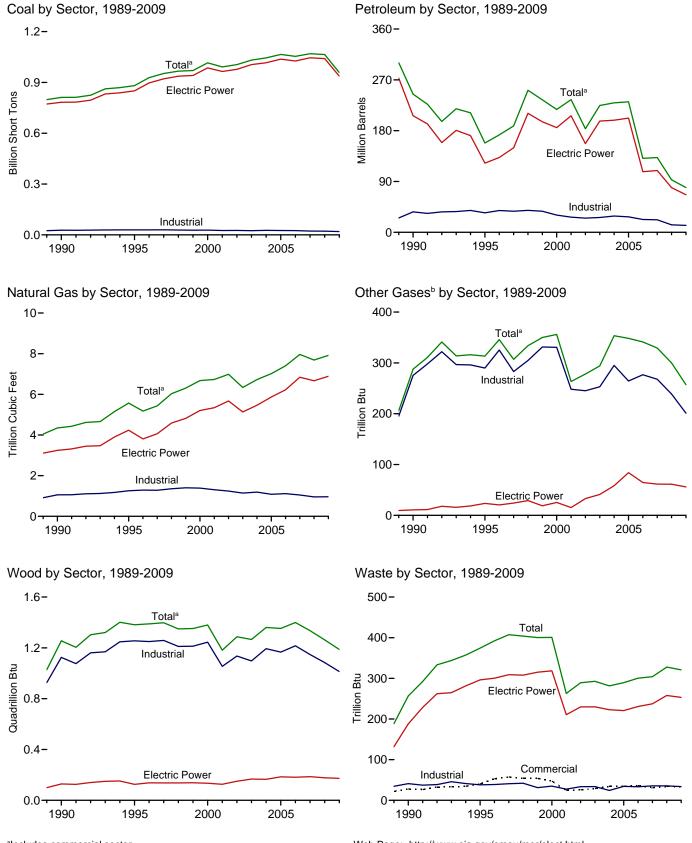
f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Wood and wood-derived fuels.

Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous

Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output



^aIncludes commercial sector.

^bBlast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Web Page: http://www.eia.gov/emeu/mer/elect.html Sources: Tables 7.4a-7.4c.

Table 7.4a Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Total (All Sectors) (Sum of Tables 7.4b and 7.4c)

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	0	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2 7	NA
1985 Total 1990 Total ^k	693,841 811,538	14,635 20,194	<u>158,779</u> 209,081	NA 1,332	231 2,832	174,571 244,765	3,044 4,346	NA 288	8 1,256	257	NA 86
1995 Total	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	97
1996 Total	928,015	22,444	124,607	2,468	4,596	172,499	5,178	346	1,389	392	91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433 6,030	307 334	1,397	407 404	103 95
1998 Total 1999 Total	966,615 970,175	30,006 30,616	189,267 172,319	1,230 1,812	6,196 5,989	251,486 234,694	6,305	350	1,349 1,352	404 400	95 101
2000 Total	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2001 Total	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	263	229
2002 Total	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	289	252
2003 Total 2004 Total	1,031,778 1,044,798	31,825 23,520	152,859 157,478	4,576 4,764	7,067 8,721	224,593 229,364	6,337 6,727	294 353	1,266 1,360	293 282	262 254
2005 Total	1,065,281	23,320 24,446	156,915	4,764	9,113	229,304	7,021	348	1,353	289	234
2006 Total	1,053,783	14,655	69,846	3,396	8,622	131,005	7,404	341	1,399	300	247
2007 Total	1,069,606	17,042	74,616	4,237	7,299	132,389	7,962	329	1,336	304	239
2008 January	96,610	1.830	3,975	468	592	9,233	625	31	128	27	17
February	88,657	1,294	3,214	369	537	7,561	522	32	106	27	17
March	85,270	1,017	2,826	373	464	6,534	547	27	108	29	18
April	78,700	1,007	3,038	271	499	6,810	550 550	24	106	27	17
May June	83,058 91,296	1,017 1.450	3,203 5.131	267 299	480 576	6,887 9,761	559 750	25 26	105 102	27 27	18 18
July	100,072	1,129	4,247	257	525	8,258	876	27	102	28	19
August	97,599	987	3,587	230	556	7,586	858	27	105	27	19
September	87,314	1,000	4,244	251	521	8,098	679	22	99	26	17
October	81,919	867 986	2,662	236 259	554 504	6,533	630	22 18	102 101	27 28	16
November December	82,770 91,239	1,553	2,978 4,372	485	504 507	6,743 8,945	537 557	19	94	28 28	16 17
Total	1,064,503	14,137	43,477	3,765	6,314	92,948	7,689	300	1,263	328	209
2009 January	92,879	1,991	6,628	517	515	11,712	571	21	99	27	14
February	76,337	1,351	2,804	354	475	6,884	529	20	92	23	13
March April	74,043 68,842	1,344 931	2,327 1,965	355 272	565 502	6,852 5,679	587 539	21 19	94 90	31 26	15 15
May	72,222	1,225	2,695	277	501	6,701	602	19	92	20 27	16
June	80,870	1,149	2,646	204	497	6,483	733	20	94	27	16
July	86,324	1,109	2,833	211	516	6,733	867	23	105	28	17
August	88,654 75,503	1,156	3,323	249	515	7,304	929 774	24	109	28	17
September October	75,593 76,748	934 986	2,150 2,381	239 238	499 368	5,816 5,443	774 623	24 22	99 104	26 25	15 15
November	75,099	881	1,482	225	378	4,476	545	21	103	26	15
December	90,376	1,103	1,571	249	463	5,237	615	23	106	28	16
Total	957,986	14,158	32,805	3,390	5,793	79,318	7,915	257	1,187	321	185
2010 January	92,816	2,620	3,204	316	527	8,776	637	22	105	26	15
February	82,001	900	1,370	254	484	4,945	560	19	95	23	13
March	78,655 68,948	836 733	1,457 1,366	170 152	512 460	5,021 4,553	538 554	22 22	105 99	26 27	15 16
April May	77,884	1,085	2,289	152	493	4,553 5,997	647	22	100	27 27	17
June	89,212	1,318	3,430	179	563	7,741	798	22	103	26	16
July	97,001	1,406	4,039	223	601	8,673	995	21	107	27	17
August	96,658	1,163	3,299	187	479	7,046	1,042	23	107	27	17
8-Month Total	683,175	10,062	20,453	1,636	4,120	52,752	5,771	174	821	209	125
2009 8-Month Total	640,171	10,255	25,221	2,440	4,086	58,347	5,357	167	775	216	124
2008 8-Month Total	721,262	9,730	29,221	2,535	4,229	62,629	5,286	219	867	219	144

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

tire-derived fuels)

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

k Through 1988, data are for closeric within the sources.

k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available.

Notes:

• Data are for fuels consumed to produce electricity and useful thermal output.

• Totals may not equal sum of components due to independent rounding.

• Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data

beginning in 1973.

Sources: See sources for Tables 7.4b and 7.4c.

amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small

amount of fuel oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, and waste oil.
e Petroleum coke is converted from short tons to barrels by multiplying by 5.

Natural gas, plus a small amount of supplemental gaseous fuels

⁹ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

h Wood and wood-derived fuels.

Model and Wood-derived Idea: i Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

Table 7.4b Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Electric Power Sector (Subset of Table 7.4a)

				Petroleum					Bion	nass	
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ⁹	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	TI	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA NA	70	506,479	3,158	NA NA	(s)	2	NA NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total 1990 Total ^k	693,841 782,567	14,635 16,567	158,779 184,915	NA 26	231 1,008	174,571 206,550	3,044 3,245	<u>NA</u> 11	<u>8</u> 129	7 188	NA (s)
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	(3)
1996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	2
1997 Total	921,364	18,989	113,669	152	3,372	149,668	4,065	24	137	309	1
1998 Total 1999 Total	936,619 940,922	23,300 24,058	166,528 152,493	431 544	4,102 3,735	210,769 195,769	4,588 4,820	29 19	137 138	308 315	2 1
2000 Total	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	i
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	211	113
2002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	143
2003 Total 2004 Total	1,005,116 1,016,268	27,632 19,107	138,279 139,816	2,026 2,713	5,799 7,372	196,932 198,498	5,135 5,464	41 58	167 165	230 223	140 138
2005 Total	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	221	123
2006 Total	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	182	231	125
2007 Total	1,045,141	15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
2008 January	94.459	1.596	3,263	344	486	7.631	531	5	16	21	11
February	86,626	1,182	2,629	259	449	6,315	439	5	15	20	11
March	83,215	925	2,323	245	374	5,363	461	6	15	23	11
April	76,753 81,056	925 928	2,635 2,817	189 191	409 385	5,791 5,863	470 475	5 6	13 13	21 21	10 11
May June	89.347	1.339	4.726	228	472	8,652	665	6	13	22	11
July	98,032	986	3,890	190	424	7,186	782	6	16	23	11
August	95,590	873	3,271	172	445	6,541	763	6	16	22	11
September October	85,376 79,982	866 764	3,931 2,369	175 161	421 444	7,075 5,513	603 545	4 5	15 14	21 21	10 10
November	80,883	836	2,646	205	405	5,710	458	4	15	21	10
December	89,259	1,327	3,742	312	407	7,415	476	4	16	22	11
Total	1,040,580	12,547	38,241	2,670	5,119	79,056	6,668	61	177	258	128
2009 January	90,921	1,798	5,897	447	406	10,173	485	4	16	20	10
February	74,503	1,105	2,363	292	373	5,627	452	4	14	19	.9
March	72,141 67,199	1,220 765	1,997 1.691	245 180	471 413	5,817 4.702	500 456	4 4	13 12	24 21	10 10
April May	70,534	1,009	2,225	218	415	5,527	521	5	13	21	11
June	79,128	952	2,397	150	414	5,567	649	5	15	22	11
July	84,491	898	2,580	171	426	5,780	780	5	15	22	11
August	86,852 73,887	966 757	3,037 1,894	192 167	418 409	6,284 4,865	841 689	5 5	16 13	22 20	11 10
September October	73,887 75,002	866	2,127	189	257	4,865	536	5 5	13	20	10
November	73,397	773	1,267	178	255	3,493	459	5	14	20	10
December	88,481	1,004	1,263	196	343	4,180	521	5	17	22	11
Total	936,536	12,115	28,738	2,622	4,602	66,483	6,888	56	173	253	126
2010 January	90,587	2,499	2,862	245	422	7,718	543	5	17	20	10
February	79,896	814	1,066	212	393	4,055	478	4	15	18	9
March April	76,405 67,179	731 673	1,268 1,220	129 118	430 371	4,277 3,864	452 472	5 5	15 14	21 21	10 11
May	75,822	998	2,064	115	403	5,192	563	5	13	20	11
June	87,158	1,230	3,174	147	471	6,906	712	5	15	20	11
July	94,773	1,314	3,747	200	509	7,805	903	4	16	21	11
August 8-Month Total	94,351 666,170	1,075 9,333	3,073 18,473	160 1,328	393 3,391	6,272 46,089	949 5,072	4 37	17 122	21 164	11 84
	•	,	•		-	ŕ	,				
2009 8-Month Total	625,769	8,715	22,186	1,893	3,337	49,477	4,684	36	115	170	85
2008 8-Month Total	705,079	8,755	25,554	1,816	3,443	53,342	4,587	45	118	173	87

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data

beginning in 1973. Sources: See end of section.

synfuel.

b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

^d let fuel kerosene ether potreleum liquids, and waste eil.

Jet fuel, kerosene, other petroleum liquids, and waste oil.

Petroleum coke is converted from short tons to barrels by multiplying by 5.

f Natural gas, plus a small amount of supplemental gaseous fuels.

g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

h Wood and wood decircle.

Wood and wood-derived fuels.

Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

 $^{^{\}rm j}$ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

k Through 1988, data are for all this willing.

Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output.

The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

Totals may not equal sum of components due to independent rounding.

Geographic coverage is the 50 States and the District of Columbia.

Table 7.4c Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output: Commercial and Industrial Sectors (Subset of Table 7.4a)

		Commerci	ial Sector ^a				Indu	strial Sector	b		
			Nier ein	Biomass			N	0.1	Biom	nass	
	Coalc	Petroleumd	Natural Gas ^e	Waste ^f	Coalc	Petroleumd	Natural Gas ^e	Other Gases	Woodh	Waste ^f	O ther ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
1989 Total	1,125	1,967	30	22	24,867	25,444	914	195	926	35	85
1990 Total	1,191	2,056	46	28	27,781	36,159	1,055	275	1,125	41	86
1995 Total	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95
1996 Total	1,660	1,246	82	53	29,434	38,661	1,289	325	1,249	39	89
1997 Total	1,738	1,584	87	58	29,853	37,265	1,282	283	1,259	41	102
1998 Total	1,443	1,807	87	54	28,553	38,910	1,355	305	1,211	42	93
1999 Total	1,490	1,613	84	54	27,763	37,312	1,401	331	1,213	31	99
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total	1,448 1,405 1,816	1,832 1,250 1,449	79 74 58 72	25 26 29 34	25,755 26,232 24,846	26,817 25,163 26,212	1,310 1,240 1,144	248 245 253	1,054 1,136 1,097	27 34 34 24	101 92 103 94
2004 Total 2005 Total 2006 Total 2007 Total	1,917 1,922 1,886 1,927	2,009 1,630 935 752	68 68 70	34 34 36 31	26,613 25,875 25,262 22,537	28,857 27,380 22,706 22,207	1,191 1,084 1,115 1,050	295 264 277 268	1,193 1,166 1,216 1,148	34 33 36	94 94 102 98
2008 January	197 181	108 71	6 6	3	1,954 1,850	1,494 1,175	87 78	26 27	112 92	3 4	5 5
March	176	35	6	3	1,879	1,136	80	21	92	4	5
April	144	26	5	3	1,803	992	75	19	93	3	5
May	145	20	4	3	1,857	1,004	79	20	92	2	6
June July August	177 169 168	60 93 36 22	5 6 6	3 3 3 3	1,772 1,871 1,841 1,783	1,048 978 1,008	80 88 89	20 21 21	88 90 88 84	2 2 2 2	6 6 5
September October November December	155 150 166 195	22 29 51 118	6 5 5 6	3 3 3 3	1,783 1,787 1,721 1,784	1,001 991 981 1,412	71 80 74 75	18 17 15 15	84 88 86 78	3 4 4	5 4 4 4
Total	2,021	671	66	34	21,902	13,222	955	239	1,084	35	60
February March	172	48	5	2	1,662	1,208	72	16	77	2	3
	164	47	6	4	1,738	987	80	16	81	4	3
	129	40	5	3	1,514	937	77	15	78	3	3
May	124	49	5	3	1,564	1,125	77	15	79	3	4
June	136	43	5	3	1,606	872	79	15	79	3	3
July	137	45	5	3	1,696	908	82	18	89	3	4
August September October	142	58	5	3	1,660	962	83	19	93	3	4
	131	44	5	3	1,574	906	81	19	86	3	3
	134	42	5	2	1,611	933	82	17	91	3	3
November	152	35	5	3	1,551	948	82	16	88	3	4
December	173	47	6	3	1,722	1,010	89	18	89	3	3
Total	1,790	617	63	34	19,660	12,219	964	201	1,013	34	39
2010 January	193	49	6	3	2,036	1,010	88	18	88	3	3
February	169	39	5	2	1,937	851	77	14	80	3	3
March	154	40	5	3	2,095	705	81	17	90	2	3
April	124	33	5	3	1,644	656	77	17	86	3	3
May	124	42	5	3	1,938	763	79	18	87	3	3
June	135	51	5	3	1,920	784	82	18	88	3	4
July	141	59	6	3	2,087	809	87	17	91	3	4
August	153	59	6	3	2,154	715	86	19	90	3	4
8-Month Total	1,193	371	42	23	15,811	6,292	657	137	698	23	27
2009 8-Month Total	1,199	448	43	23	13,202	8,422	631	131	659	23	25
2008 8-Month Total	1,356	450	44	23	14,827	8,837	655	174	748	23	44

a Commercial combined-heat-and-power (CHP) and commercial electricity-only

ⁱ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. Through 1988, data are not available. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

See http://www.eia.gov/emeu/mer/elect.html for all available data Web Page:

Web Page: See http://www.eia.gov/eineu/mei/eiect.iniii ioi dii dvalidatio beginning in 1989.
Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA Form EIA-923 "Power Plant Operations Report."

plants.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

synfuel.

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

Natural gas, plus a small amount of supplemental gaseous fuels.

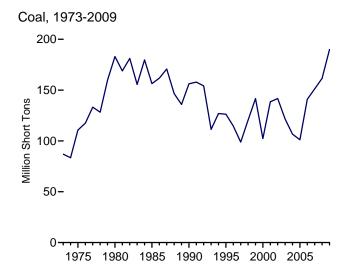
f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

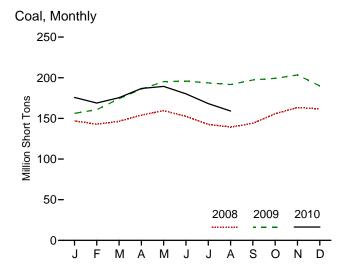
g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

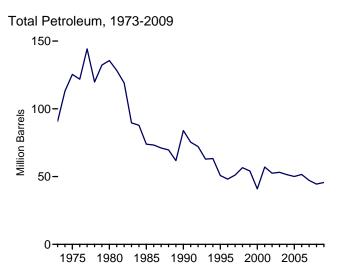
h Wood and wood-derived fuels.

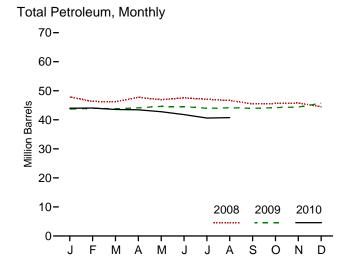
^{• 2008} forward: EIA, Form EIA-923, "Power Plant Operations Report."

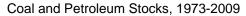
Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector

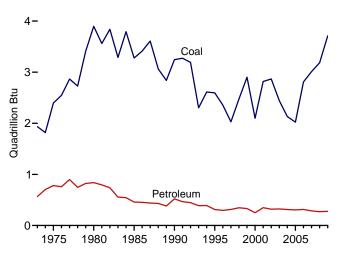




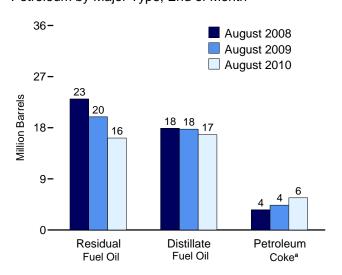








Petroleum by Major Type, End of Month



^aConverted from short tons to barrels by multiplying by 5. Web Page: http://www.eia.gov/emeu/mer/elect.html. Sources: Tables 7.5, A1, and A5 (column 6).

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrels
1973 Year	86,967	10,095	79,121	NA	312	90,776
1975 Year	•	16,432	108,825	NA NA	31	125,413
1980 Year		30,023	105,351	NA NA	52	135,635
		,	,	NA NA	49	73.933
1985 Year		16,386	57,304		49 94	,
1990 Year		16,471	67,030	NA		83,970
1995 Year		15,392	35,102	NA	65	50,821
1996 Year		15,216	32,473	NA	91	48,146
1997 Year		15,456	33,336	NA	469	51,138
1998 Year		16,343	37,451	NA	559	56,591
1999 Year ^f	141,604	17,995	34,256	NA	372	54,109
2000 Year	102,296	15,127	24,748	NA	211	40,932
2001 Year		20,486	34,594	NA	390	57,031
2002 Year	•	17,413	25,723	800	1.711	52,490
2003 Year		19,153	25,820	779	1,484	53,170
2004 Year		19,275	26,596	879	937	51,434
		,			530	
2005 Year		18,778	27,624	1,012		50,062
2006 Year		18,013	28,823	1,380	674	51,583
2007 Year	151,221	18,395	24,136	1,902	554	47,203
2008 January	146,973	18,633	23,972	1,997	656	47,884
February	142,782	18,307	23,301	1,859	573	46,334
March		18,091	22,807	2,062	662	46,271
April	*	17,888	24,164	2,083	722	47,743
May		17,824	23,228	2,087	758	46,927
June		17,880	23,963	2.106	723	47,562
	- /-	17,900	23,175	2,100	723 776	47,075
July	, -		-, -	,		,
August		17,909	23,078	2,126	712	46,671
September		17,830	22,081	2,129	689	45,483
October		17,911	22,112	2,197	683	45,634
November	163,390	18,241	21,488	2,198	777	45,811
December	161,589	17,761	21,088	1,955	739	44,498
2009 January	156,194	17,470	20,452	2,043	749	43,713
February	*	17,204	21,083	2,038	733	43,988
March	*	17,134	21,087	2,038	712	43,821
April		17,794	20,796	2.043	701	44.137
May	,	17,794	20,730	2,043	786	44.624
	,		- /		757	44,624 44,554
June	*	17,621	21,046	2,101		
July		17,692	20,588	2,091	722	43,981
August		17,759	19,928	2,075	876	44,140
September		17,858	19,212	2,081	965	43,978
October	199,238	17,695	18,669	2,074	1,152	44,197
November	203,409	17,595	18,509	2,062	1,252	44,424
December	189,971	17,804	18,846	2,049	1,395	45,675
2010 January	175,815	17,115	17,953	2,018	1,384	44,006
February		17,375	18,466	2,039	1,239	44,076
		17,373	18.545	1.916	1,239	43.556
March	-, -	,	- /	,	,	- /
April	*	17,239	18,216	2,046	1,190	43,450
May		17,186	17,803	2,073	1,145	42,789
June		17,071	17,276	2,018	1,087	41,803
July	168,208	17,015	16,280	2,102	1,042	40,606
August		16,780	16,184	2,116	1,133	40,745

^a Anthracite, bituminous coal, subbituminous coal, and lignite.

NA=Not available.

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Stocks

are at end of period.

• Totals may not equal sum of components due to independent rounding.

• Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data beginning in 1973.

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982-1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001-2003: Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

^b Fuel oil nos. 1, 2 and 4. For 1973-1979, data are for gas turbine and internal combustion plant stocks of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant stocks of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

d Jet fuel and kerosene. Through 2003, data also include a small amount of

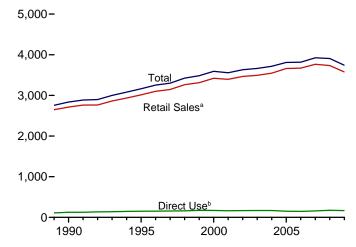
waste oil.

e Petroleum coke is converted from short tons to barrels by multiplying by 5.

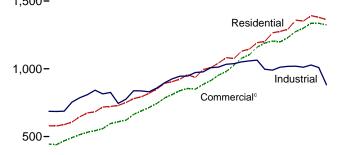
f Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

Figure 7.6 Electricity End Use (Billion Kilowatthours)



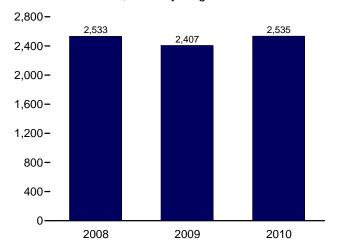


Retail Sales^a by Sector, 1973-2009 1,500-



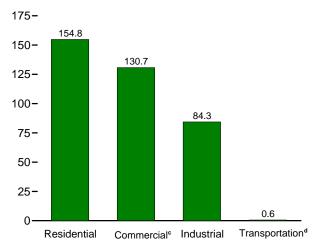


Retail Sales^a Total, January-August

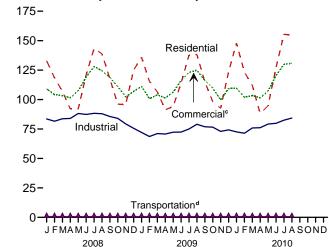


^aElectricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

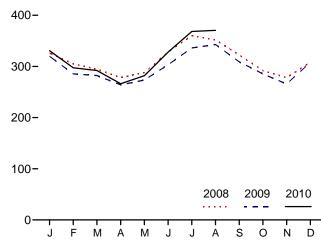
Retail Sales^a by Sector, August 2010



Retail Sales^a by Sector, Monthly



Retail Sales^a Total, Monthly



partmental sales, and other sales to public authorities.

daransportation sector, including sales to railroads and railways.

Web Page: http://www.eia.gov/emeu/mer/elect.html.

Source: Table 7.6.

^bSee "Direct Use" in Glossary.

^cCommercial sector, including public street and highway lighting, interde-

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercialb	Industrial ^c	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ⁹	Commercial (Old) ^h	Other (Old) ⁱ
973 Total	579,231	E 444.505	686,085	^E 3.087	1,712,909	NA.	1,712,909	388,266	59,32
975 Total	588,140	^E 468,296	687,680	^E 2.974	1,747,091	NA NA	1,747,091	403.049	68.22
980 Total	717,495	558,643	815,067	3,244	2,094,449	NA NA	2,094,449	488,155	73,73
985 Total	793,934	689,121	836,772	4,147	2,323,974	NA NA	2,323,974	605,989	87,27
990 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91.98
95 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,40
96 Total	1.082.512	980.061	1.033.631	4,923	3,101,127	152,638	3,253,765	887,445	97,53
97 Total	1,075,880	1,026,626	1,038,197	4,907	3,145,610	156,239	3,301,849	928,633	102,90
98 Total	1,130,109	1,077,957	1,051,203	4,962	3,264,231	160,866	3,425,097	979,401	103,51
99 Total	1,144,923	1,103,821	1,058,217	5,126	3,312,087	171,629	3,483,716	1,001,996	106,95
00 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,49
01 Total	1,201,607	1,190,518	996,609	5.724	3,394,458	162,649	3,557,107	1.083.069	113.17
002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,55
003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029		
04 Total	1,291,982	1,230,425	1.017.850	7,224	3,547,479	168,470	3,715,949		
05 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
06 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
07 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	159,254	3,923,814		
	400.000	400.000				F 4 = 7 40	0.40.000		
08 January	132,938	109,028	83,582	714	326,263	E 15,743	342,006		
February	118,471	104,288	81,603	658	305,021	E 14,131	319,151		
March	107,057	103,239	83,714	638	294,647	E 14,616	309,264		
April	91,977	101,502	83,999	617	278,095	E 13,950	292,044		
May	92,018	107,379	88,166	598	288,162	E 14,388	302,550		
June	121,137	119,063	87,345	625	328,170	E 14,948	343,118		
July	143,269	128,028	88,310	653	360,261	E 16,246	376,507		
August	138,765	124,496	87,990	647	351,898	E 15,998	367,896		
September	117,589	118,677	85,565	626	322,457	E 13,199	335,655		
October	96,093	110,988	84,032	635	291,748	E 14,088	305,836		
November	95,665	102,384	79,373	615	278,037	E 12,947	290,984		
December Total	125,003 1,379,981	106,909 1,335,981	75,619 1,009,300	672 7,700	308,203 3,732,962	E 13,228 173,481	321,431 3,906,443		
10141	1,010,001	1,000,001	1,000,000	1,100	0,102,002	110,401	0,000,110		
09 January	135,904	111,126	72,088	746	319,865	E 13,757	333,622		
February	115,432	100,772	68,603	655	285,461	E 12,777	298,239		
March	106,467	104,015	71,105	664	282,252	E 13,718	295,969		
April	91,395	101,302	70,730	604	264,032	E 12,882	276,914		
May	94,084	106,401	72,267	587	273,340	E 13,053	286,393		
June	114,178	116,139	72,425	605	303,347	E 13,769	317,115		
July	137,467	123,010	75,032	656	336,166	E 14,628	350,794		
August	138,290	124,975	79,016	633	342,915	E 15,016	357,932		
September	115,217	116,315	76,884	636	309,051	E 13,976	323,027		
October	98,399	109,895	76,556	603	285,452	E 14,016	299,468		
November	92,614	99,669	72,945	597	265,825	E 13,791	279,616		
December	123,423	109,370	74,252	701	307,745	E 14,651	322,396		
Total	1,362,869	1,322,989	881,903	7,689	3,575,450	E 166,034	3,741,484		
10 January	147.849	109.639	72.584	732	330.804	^E 15,213	346.017		
February	123,330	101,901	71,420	694	297,344	E 13,754	311,098		
March	112,057	103,426	75,905	651	292,039	E 15,391	307,429		
April	88.111	101,487	76,084	598	266,279	E 14.085	280.364		
May	94,777	107,239	79,227	607	281,850	E 14,366	296,216		
June	126,975	120.372	79.841	652	327,840	E 15,124	342.964		
July	155,325	129,895	82.498	658	368,375	E 15,863	384,239		
August	154.838	130.749	84.330	609	370.525	E 16,076	386.602		
8-Month Total	1,003,262	904,707	621,888	5,199	2,535,056	E 119,873	2,654,929		
		•		•		,			
9 8-Month Total	933,218	887,741	581,267	5,151	2,407,377	E 109,600	2,516,978		
08 8-Month Total	945,632	897,023	684,711	5,152	2,532,517	E 120,020	2,652,537		

a Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Description Commercial Sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.

Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.

Transportation sector, including sales to railroads and railways.

The sum of "Residential," "Commercial," "Industrial," and "Transportation."

I lise of electricity that is 1) self-enerated 2) produced by either the same

Sources: See end of section.

f Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

g The sum of "Total Retail Sales" and "Direct Use."

h "Commercial (Old)" is a discontinued series—data are for the commercial sector, excluding public street and highway lighting, interdepartmental sales, and other sales to public authorities.

i "Other (Old)" is a discontinued series—data are for public street and highway

lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

E=Estimate. NA=Not available. — =Not applicable.

Notes: • Totals may not equal sum of components due to independent

rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/elect.html for all available data beginning in 1973.

Electricity

Note. Classification of Power Plants Into Energy-

Use Sectors. The U.S. Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-and-power plants) into energy-use sectors based on the North American Industry Classification System (NAICS), which replaced the Standard Industrial Classification (SIC) system in 1997. Plants with a NAICS code of 22 are assigned to the Electric Power Sector. Those with NAICS codes beginning with 11 (agriculture, forestry, fishing, and hunting); 21 (mining, including oil and gas extraction); 23 (construction); 31-33 (manufacturing); 2212 (natural gas distribution); and 22131 (water supply and irrigation systems) are assigned to the Industrial Sector. Those with all other codes are assigned to the Commercial Sector. Form EIA-860, "Annual Electric Generator Report," asks respondents to indicate the primary purpose of the facility by assigning a NAICS code from the list at:

http://www.eia.gov/cneaf/electricity/forms/eia860/eia860.doc.

Table 7.1 Sources

Net Generation, Electric Power Sector

Table 7.2b.

Net Generation, Commercial and Industrial Sectors Table 7.2c.

Imports and Exports, Electricity Trade With Canada and Mexico, 1973–1989

1973–September 1977: Unpublished Federal Power Commission data.

October 1977–1980: Unpublished Economic Regulatory Administration (ERA) data.

1981: U.S. Department of Energy (DOE), Office of Energy Emergency Operations, "Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981," April 1982 (revised June 1982).

1982 and 1983: DOE, ERA, *Electricity Exchanges Across International Borders*.

1984–1986: DOE, ERA, Electricity Transactions Across International Borders.

1987 and 1988: DOE, ERA, Form ERA-781R, "Annual Report of International Electrical Export/Import Data."

1989: DOE, Fossil Energy, Form FE-781R, "Annual Report of International Electrical Export/Import Data."

Imports and Exports, Electricity Trade with Canada, 1990 Forward

National Energy Board of Canada, data for total sales (firm and interruptible; which exclude non-revenue, inadvertent, and service) from Canada to the United States, and data for total purchases (which exclude non-revenue, inadvertent, and service) by Canada from the United States.

Imports and Exports, Electricity Trade with Mexico, 1990 Forward

DOE, Fossil Energy, Office of Fuels Programs, Form FE-781R, "Annual Report of International Electrical Export/Import Data." For 2001 forward, data from the California Independent System Operator were used in combination with the Form FE-781R values to estimate electricity trade with Mexico.

T&D Losses and Unaccounted for

Calculated as the sum of total net generation and imports minus end use and exports.

End Use

Table 7.6.

Table 7.2b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report." 2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1973-1988

1973–September 1977: Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

October 1977–1978: Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FERC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

1979: FERC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and U.S. Energy Information Administration (EIA) estimates for all other plants.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

All Data, 1989 Forward

1989–1997: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.3b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.4b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report." 2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.6 Sources

Retail Sales, Residential and Industrial

1973–September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

October 1977–February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

March 1980–1982: FERC, Form FPC-5, "Electric Utility Company Monthly Statement."

1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." 1984–1993: EIA, Form EIA-861, "Annual Electric Utility Report."

1994 forward: EIA, *Electric Power Monthly*, November 2010, Table 5.1.

Retail Sales, Commercial

1973–2002: Estimated by EIA as the sum of "Commercial (Old)" and the non-transportation portion of "Other (Old)." See estimation methodology at

http://www.eia.gov/emeu/states/sep_use/notes/use_elec.pdf. 2003 forward: EIA, *Electric Power Monthly*, November 2010, Table 5.1.

Retail Sales, Transportation

1973–2002: Estimated by EIA as the transportation portion of "Other (Old)." See estimation methodology at http://www.eia.gov/emeu/states/sep_use/notes/use_elec.pdf. 2003 forward: EIA, *Electric Power Monthly*, November 2010, Table 5.1.

Direct Use. Annual

1989–1996: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1997–2008: EIA, *Electric Power Annual* 2008, January 2010, Table 7.2.

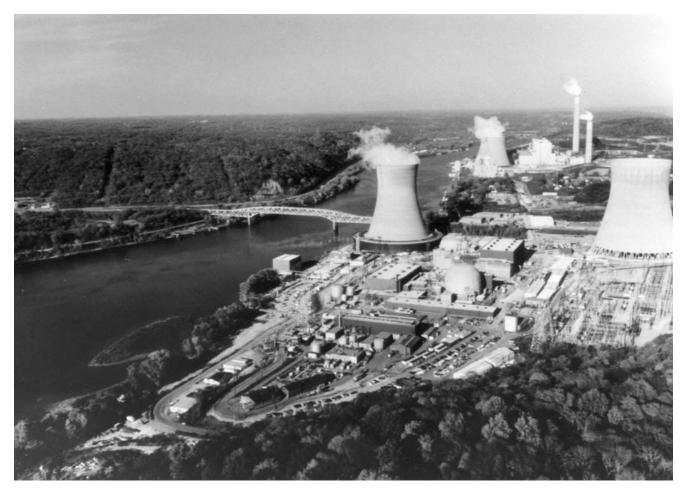
2009: Sum of monthly estimates.

Direct Use, Monthly

Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2009 and 2010, the 2008 annual share is used.

Discontinued Retail Sales Series Commercial (Old) and **Other (Old)** 1973–2002: See sources for "Residential" and "Industrial."

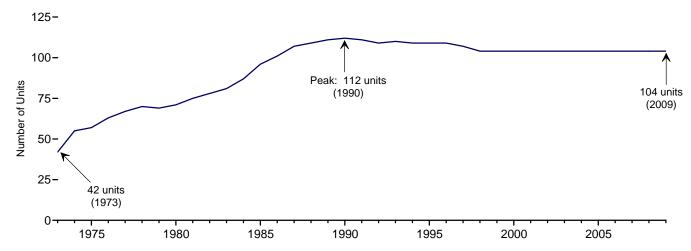
Nuclear Energy



Site of Shippingport atomic power station, the first commercial nuclear power plant in the United States (rectangular reactor building and foreground); background, Beaver Valley 1 and 2 nuclear power plants and Bruce Mansfield coal-fired power plant (southwestern Pennsylvania). Source: U.S. Department of Energy.

Figure 8.1 Nuclear Energy Overview

Operable Units, End of Year, 1973-2009



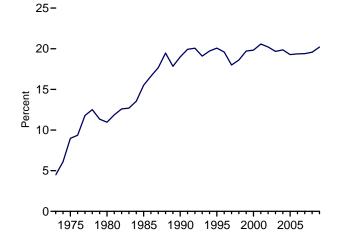
Electricity Net Generation, 1973-2009

5
4Total

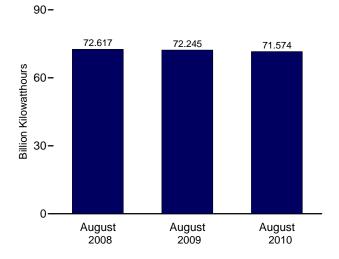
3
1Nuclear Electric Power

1975 1980 1985 1990 1995 2000 2005

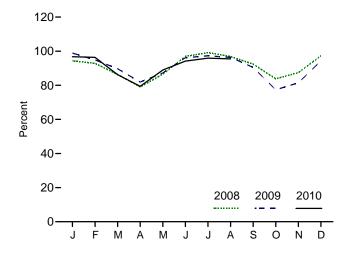
Nuclear Share of Electricity Net Generation, 1973-2009



Nuclear Electricity Net Generation



Capacity Factor, Monthly



Web Page: http://www.eia.gov/emeu/mer/nuclear.html. Sources: Tables 7.2a and 8.1.

Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor
	Number	Million Kilowatts	Million Kilowatthours	Per	rcent
973 Total	42	22.683	83,479	4.5	53.5
975 Total	57	37.267	172,505	9.0	55.9
980 Total	71	51.810	251,116	11.0	56.3
85 Total	96	79.397	•	15.5	
			383,691		58.0
90 Total	112	99.624	576,862	19.0	66.0
95 Total	109	99.515	673,402	20.1	77.4
96 Total	109	100.784	674,729	19.6	76.2
97 Total	107	99.716	628,644	18.0	71.1
98 Total	104	97.070	673,702	18.6	78.2
99 Total	104	97.411	728,254	19.7	85.3
00 Total	104	97.860	753,893	19.8	88.1
01 Total	104	98.159	768,826	20.6	89.4
02 Total	104	98.657	780,064	20.2	90.3
03 Total	104	99,209	763,733	19.7	87.9
04 Total	104	99.628	788,528	19.9	90.1
05 Total	104	99.988	781,986	19.3	89.3
06 Total	104	100.334	787,219	19.4	89.6
07 Total	104	100.266	806,425	19.4	91.8
108 January	104	100.755	70,735	19.5	94.4
February	104	100.755	65,130	20.0	92.9
March	104	100.755	64,716	19.9	86.3
April	104	100.755	57,333	18.7	79.0
May	104	100.755	64,826	19.9	86.5
June	104	100.755	70,319	18.8	96.9
July	104	100.755	74,318	18.4	99.1
August	104	100.755	72,617	18.7	96.9
September	104	100.755	67,054	19.8	92.4
October	104	100.755	62,820	19.7	83.8
November	104	100.755	63,408	20.5	87.4
December	104	100.755	72,931	21.2	97.3
Total	104	100.755	806,208	19.6	91.1
00 1	404	400.755	74.400	00.0	00.0
09 January	104	100.755	74,102	20.9	98.9
February	104	100.755	64,227	21.3	94.9
March	104	100.755	67,241	21.6	89.7
April	104	100.755	59,408	20.5	81.9
May	104	100.755	65,375	21.0	87.2
June	104	100.755	69,735	20.0	96.1
July	104	100.755	72,949	19.6	97.3
August	104	100.755	72,245	19.0	96.4
September	104	100.755	65,662	20.1	90.5
October	104	100.755	58,021	18.9	77.4
November	104	100.755	59,069	19.9	81.4
December	104	100.755	70,710	20.2	94.3
Total	104	100.755	798,745	20.2	90.5
10 leguen	104	100 755	72 524	20.1	06.9
10 January	104	100.755	72,534	20.1	96.8
February	104	100.755	65,247	20.4	96.4
March	104	100.755	64,639	20.7	86.2
April	104	100.755	57,611	20.0	79.4
May	104	100.755	66,658	20.3	88.9
June	104	100.755	68,301	18.2	94.2
July	104	100.755	71,913	17.5	95.9
August	104	100.755	71,574	17.5	95.5
8-Month Total	104	100.755	538,479	19.2	91.6
09 8-Month Total	104	100.755	545,282	20.4	92.8
03 0-WOILH OLAI	104	100.733	343.202		

^a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at end of period. See Note 1, "Operable Nuclear Reactors," at end of section. For additional information on nuclear generating units, see Annual Energy Review 2009, August 2010, Table 9.1, http://www.eia.gov/emeu/aer/nuclear.html.

b At end of period.

Sources: See end of section.

^c For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity,"

at end of section.

d For an explanation of the method of calculating the capacity factor, see Note

 [&]quot;Nuclear Capacity," at end of section.
 Notes:
 • For a discussion of nuclear reactor unit coverage, see Note 1,
"Operable Nuclear Reactors," at end of section.
 • Nuclear electricity net generation totals may not equal sum of components due to independent rounding.

[•] Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/nuclear.html for all available data beginning in 1973.

Nuclear Energy

- **Note 1. Operable Nuclear Reactors.** A reactor is generally defined as operable while it possessed a full-power license from the Nuclear Regulatory Commission or its predecessor the Atomic Energy Commission, or equivalent permission to operate, at the end of the year or month shown. The definition is liberal in that it does not exclude units retaining full-power licenses during long, non-routine shutdowns that for a time rendered them unable to generate electricity. Examples are:
- (a) In 1985 the five then-active Tennessee Valley Authority (TVA) units (Browns Ferry 1, 2, and 3, and Sequoyah 1 and 2) were shut down under a regulatory forced outage. All five units were idle for several years, restarting in 2007, 1991, 1995, 1988, and 1988, respectively and were counted as operable during the shutdowns.
- (b) Shippingport was shut down from 1974 through 1976 for conversion to a light-water breeder reactor, but is counted as operable from 1957 until its retirement in 1982.
- (c) Calvert Cliffs 2 was shut down in 1989 and 1990 for replacement of pressurizer heater sleeves but is counted as operable during those years.

Exceptions to the definition are Shoreham and Three Mile Island 2. Shoreham was granted a full-power license in April 1989, but was shut down two months later and never restarted. In 1991, the license was changed to Possession Only. Although not operable at the end of the year, Shoreham is counted as operable during 1989. A major accident closed Three Mile Island 2 in 1979, and although the unit retained its full-power license for several years, it is considered permanently shut down since that year.

- **Note 2. Nuclear Capacity.** Nuclear generating units may have more than one type of net capacity rating, including the following:
- (a) Net Summer Capacity—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the

time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of gross generation.

(b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.

The monthly capacity factors are calculated as the monthly nuclear electricity net generation divided by the maximum possible nuclear electricity net generation for that month. The maximum possible nuclear electricity net generation is the number of hours in the month (assuming 24-hour days, with no adjustment for changes to or from Daylight Savings Time) multiplied by the net summer capacity of operable nuclear generating units at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are calculated as the annual nuclear electricity net generation divided by the annual maximum possible nuclear electricity net generation (the sum of the monthly values for maximum possible nuclear electricity net generation).

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units

1973-1982: Compiled from various sources, primarily U.S. Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones."

1983 forward: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," and monthly updates as appropriate. For a list of currently operable units, see:

http://www.eia.gov/cneaf/nuclear/page/nuc_reactors/operational.xls.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

See Table 7.2a.

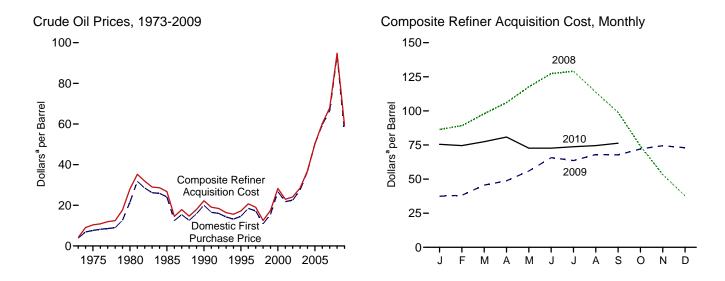
Capacity Factor

Calculated by EIA using the method described above in Note 2.

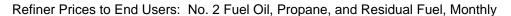
Energy Prices

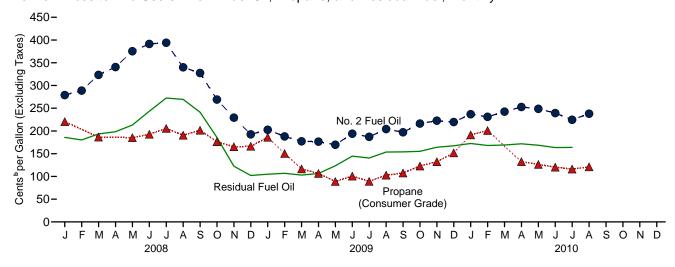


Figure 9.1 Petroleum Prices



Refiner Prices to End Users: Motor Gasoline, Diesel Fuel, and Jet Fuel, Monthly 450-Cents ber Gallon (Excluding Taxes) 400-350-300-No. 2 Finished 250-Diesel Fuel Motor Gasoline 200-Kerosene-Type 150-Jet Fuel 100-50-0 A S ASONDJFMA M A MONDJF M A M J A S O N D F J M J 2008 2009 2010





^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary. ^bPrices are not adjusted for inflation. See "Nominal Price" in Glossary.

Web Page: http://www.eia.gov/emeu/mer/prices.html. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

				R	efiner Acquisition Co	st ^b
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
1973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	^E 4.08	^E 4.15
1975 Average	7.67	11.18	12.70	8.39	13.93	10.38
1980 Average	21.59	32.37	33.67	24.23	33.89	28.07
1985 Average	24.09	25.84	26.67	26.66	26.99	26.75
1990 Average	20.03	20.37	21.13	22.59	21.76	22.22
	14.62	15.69	16.78	17.33	17.14	17.23
1995 Average	18.46	19.32	20.31	20.77	20.64	20.71
1996 Average		16.94	18.11			19.04
1997 Average	17.23		11.84	19.61	18.53 12.04	
1998 Average	10.87	10.76		13.18		12.52 17.51
1999 Average	15.56	16.47	17.23	17.90	17.26	
2000 Average	26.72	26.27	27.53	29.11	27.70	28.26
2001 Average	21.84	20.46	21.82	24.33	22.00	22.95
2002 Average	22.51	22.63	23.91	24.65	23.71	24.10
2003 Average	27.56	25.86	27.69	29.82	27.71	28.53
2004 Average	36.77	33.75	36.07	38.97	35.90	36.98
2005 Average	50.28	47.60	49.29	52.94	48.86	50.24
2006 Average	59.69	57.03	59.11	62.62	59.02	60.24
2007 Average	66.52	66.36	67.97	69.65	67.04	67.94
2008 January	87.06	83.49	86.65	89.57	84.82	86.48
February	89.41	87.84	90.71	92.23	87.41	89.09
March	98.44	96.32	99.94	99.87	96.96	97.96
April	106.64	104.04	108.40	108.54	104.72	106.09
May	118.55	115.02	119.40	119.75	116.55	117.64
June	127.47	123.34	125.65	129.45	126.22	127.32
July	128.08	122.12	124.20	131.47	127.77	129.03
August	112.83	108.10	109.64	118.42	111.19	113.74
September	98.50	90.85	91.83	103.73	96.38	98.91
October	73.18	63.09	65.40	81.03	70.84	74.22
November	53.67	44.95	46.96	61.65	49.10	53.33
December	36.80	34.23	36.86	41.42	35.59	37.67
Average	94.04	90.32	93.33	98.47	92.77	94.74
2009 January	35.00	36.87	38.74	38.67	36.84	37.45
February	34.14	38.08	40.27	37.51	38.56	38.15
March	42.45	44.34	46.74	44.92	45.96	45.57
April	45.19	47.67	51.43	47.52	49.58	48.78
May	52.67	55.61	58.27	54.58	56.77	55.96
June	63.09	64.82	65.89	64.65	66.37	65.72
July	60.44	62.32	64.78	63.79	63.46	63.58
August	65.28	67.47	68.53	67.81	68.09	67.99
September	65.28	65.41	68.50	67.87	67.65	67.74
October	69.82	70.45	72.58	72.09	72.06	72.08
	71.99	73.16	74.41	74.60	74.40	74.48
November	70.42	71.24	73.50	73.35	72.67	74.46 72.95
December Average	56.35	57.78	60.23	59.49	59.17	59.29
2010 January	72.89	72.96	74.78	76.04	75.07	75.48
2010 January	72.69 72.74	72.96 71.50	74.76 75.01	75.91	73.73	75.46 74.58
February						
March	75.77	75.41	77.65	78.52	76.77	77.43
April	78.80	78.27	79.34	82.12	80.03	80.83
May	70.90	69.21	72.00	75.23	71.15	72.66
June	70.77	R 70.17	R 72.62	73.93	71.91	72.66
July	71.37	^R 71.06	R 73.38	74.54	73.25	73.73
August	R 72.07	^R 71.25	R 72.97	R 76.21	R 73.50	R 74.58
September	NA	NA	NA	^E 76.16	E 76.50	E 76.34

f Based on October, November, and December data only.
R=Revised. NA=Not available. E=Estimate.
Notes: • Values for Domestic First Purchase Price and Refiner Acquisition Cost for the current two months and for F.O.B. and Landed Costs of Imports for the

current three months are preliminary. • F.O.B. and landed costs through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are the averages of the monthly prices, weighted by volume.

Virgin Islands, and all U.S. Territories and Possessions.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: See end of section.

<sup>a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b See Note 1, "Crude Oil Refinery Acquisition Costs," at end of section.
c See Note 2, "Crude Oil Domestic First Purchase Prices," at end of section.
d See Note 3, "Crude Oil F.O.B. Costs," at end of section.
e See Note 4, "Crude Oil Landed Costs," at end of section.</sup>

Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the

Table 9.2 F.O.B. Costs of Crude Oil Imports From Selected Countries

(Dollars^a per Barrel)

			S	elected Count	ries			B		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC [©]
1973 Average ^d	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1975 Average	10.97	-	11.44	11.82	10.87	_	11.04	10.88	11.34	10.62
1980 Average	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	_	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
1996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2004 Average	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2005 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2006 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
2007 Average	67.80	67.93	61.35	76.64	W	69.96	64.10	69.93	69.58	62.69
2008 January	88.77	80.54	80.10	93.59	88.52	_	80.49	83.79	85.51	80.72
February	93.84	83.63	80.49	98.72	W	W	84.10	94.00	91.87	83.21
March	101.34	99.67	87.46	107.04	W	_	89.63	101.72	99.90	92.25
April	110.80	106.06	94.08	114.87	W	_	96.71	113.04	108.19	98.89
May	119.61	117.49	103.53	127.35	123.98		107.89	121.13	118.23	111.30
June	130.72	125.58	116.15	140.01	125.58	W	119.15	124.37	126.30	120.14
July	127.19	122.27	123.19	134.58	110.61	W	123.18	110.34	121.93	122.37
August	107.58	108.36	108.45	117.21	107.54	W	110.20	105.06	108.99	107.17
September	92.42	95.87	92.26	95.68	70.86	W	92.76	75.41	89.61	92.24
October	62.08	61.83	63.74	67.28	66.18	W	60.35	61.78	62.77	63.42
November	48.16 W	42.14 W	42.37	51.45	47.97 W	_	42.22	45.14	45.61	44.30
December Average	95.66	91.17	32.86 84.61	44.02 102.06	93.03	96.33	32.98 88.06	35.69 91.44	35.79 93.15	32.90 87.15
2009 January	39.50	26.24	36.96	46.26	W	W	36.68	35.24	37.61	36.15
February	40.60	32.55	37.59	45.02	W		38.03	36.38	39.71	36.81
March	44.56	46.69	40.94	50.34	48.31	W	41.78	47.66	45.75	42.96
April	50.59	W	46.71	54.00	W	_	45.98	51.05	48.82	46.87
May	55.23	54.17	55.49	59.02	W	_	54.91	58.05	56.30	55.12
June	66.96	62.94	63.83	69.00	W	_	63.16	64.26	65.37	64.34
July	63.34	58.58	60.42	69.73	W	_	60.16	63.42	63.25	61.39
August	72.25	64.41	67.20	72.37	66.37	W	65.42	66.14	67.65	67.31
September	67.49	63.68	64.51	69.65	W	_	64.18	67.25	65.91	65.04
October	71.19	69.59	68.71	76.01	W	W	66.95	73.45	70.54	70.38
November	76.89	70.96	72.71	77.58	W	W	69.43	72.99	73.60	72.81
December	74.56	66.72	69.75	76.06	W	-	68.32	72.85	72.48	70.01
Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
2010 January	74.62	70.08	72.96	75.91	W		70.86	W	73.42	72.49
February	W	68.70	69.16	76.07	W	_	68.83	71.89	71.77	71.14
March	78.11	73.90	72.76	81.27	W		70.88	76.10	75.83	74.91
April	84.40	74.85	75.57	85.94	W	W	72.59	80.01	78.88	77.73
May	71.86	64.32	68.30	74.28	W	-	66.37	73.60	70.45	68.24
June	72.90	67.19	67.64	75.61	W	_	66.19	72.49	71.39	R 69.20
July	74.77	70.00	68.53	R 79.63	W	_	R 67.25	R 71.76	R 72.16	R 69.96
August	78.48	70.51	69.45	W	W	W	68.58	72.79	72.01	70.66

Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all costs related to insurance and transportation. See "F.O.B." in Glossary, and Note 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published detainstill the netted prices have been determined and reported. data until the actual prices have been determined and reported. • U.S. geographic

coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: See end of section.

Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary.

the Neutral Zone (between Kuwait and Saudi Arabia).

C See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973-2008, also includes Indonesia; for 1973-1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974-1995, also includes Gabon (although Gabon was a member of OPEC for only 1975-1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

d Based on October, November, and December data only.

R=Revised. — =No data reported. W=Value withheld to avoid disclosure of

R=Revised. - =No data reported. W=Value withheld to avoid disclosure of individual company data.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

				Selected 0	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC [©]	Total Non-OPEC
1973 Average ^d 1975 Average	W 11.81	5.33 12.84	w	_ 12.61	9.08 12.70	5.37 12.50	<u>-</u>	5.99 12.36	5.91 12.64	6.85 12.70	5.64 12.70
1980 Average	34.76	30.11	W	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1985 Average	27.39	25.71		25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average	21.86	19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
1997 Average	20.24	17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
1999 Average	18.37	17.54	18.09	16.12	17.63	17.48	18.26	15.58	17.37	16.94	17.51
2000 Average	29.57	26.69	29.68	26.03	30.04	26.58	29.26	26.05	26.77	27.29	27.80
2001 Average	25.13	20.72	25.88	19.37	26.55	20.98	25.32	19.81	20.73	21.52	22.17
2002 Average	25.43	22.98	25.28	22.09	26.45	24.77	26.35	21.93	24.13	23.83	23.97
2003 Average	30.14	26.76	30.55	25.48	31.07	27.50	30.62	25.70	27.54	27.70	27.68
2004 Average	39.62	34.51	39.03	32.25	40.95	37.11	39.28	33.79	36.53	36.84	35.29
2005 Average	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2006 Average	64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2007 Average	71.27	60.38	70.91	62.31	78.01	70.78	72.47	66.13	69.83	71.14	63.96
2008 January	93.21 97.79	77.83 81.40	85.22 85.20	81.28 81.33	97.03 101.23	92.42 97.64	W	83.23 86.34	89.70 96.04	89.66 94.71	82.10 85.13
March	106.19	93.34	102.88	88.49	109.73	108.26	W	93.01	105.39	103.78	94.65
April	117.34	103.08	105.95	95.27	117.83	118.54		100.13	115.56	112.11	103.30
May	127.06	111.83	118.43	104.42	130.89	126.38	128.95	111.77	124.49	122.98	114.83
June	133.68	119.41	127.35	117.29	142.66	125.38	W	122.29	125.28	128.10	122.57
July	128.58	122.83	126.22	124.28	137.22	116.22	W	124.91	116.43	124.20	124.20
August	110.00	110.63	113.17	109.61	123.02	104.42	104.13	111.78	103.92	109.56	109.74
September	94.05	96.38	97.72	93.59	98.82	77.92	88.13	95.67	78.65	89.55	94.43
October	62.74	69.52	62.09	65.65	72.38	62.89	69.17	62.47	60.47	64.33	66.68
November	49.22	49.00	44.28	43.05	55.13	47.77	60.68	44.08	46.29	47.34	46.52
December	40.13	33.39	35.28	33.94	47.15	38.28		34.95	37.86	38.36	35.17
Average	98.18	90.00	93.43	85.97	104.83	94.75	96.95	90.76	93.59	95.49	90.59
2009 January February	43.58 42.83 47.58	34.17 35.83 44.22	32.08 34.49 46.70	38.08 38.16 41.76	48.98 47.00	39.78 44.46 52.14	W W	39.12 39.58 43.87	39.41 43.17 50.54	40.26 42.75 48.55	36.96 38.08 45.09
March April	53.45 56.44	44.22 47.60 54.42	46.43 54.90	47.26 56.22	53.02 59.03 63.48	57.32 62.40	47.76 52.41 60.43	48.40 56.78	57.10 62.11	54.22 60.06	48.78 56.79
May June July	68.46 67.21	63.97 62.18	65.65 63.24	64.39 60.99	69.29 71.46	66.27 66.14	68.54 W	64.52 62.11	66.28 66.20	66.63 66.27	65.19 63.23
August	72.52	64.23	66.71	67.71	73.94	69.37	73.66	67.23	69.23	70.00	66.96
September	72.63	66.59	66.27	65.00	71.98	72.77	W	65.85	72.05	70.02	66.84
October	74.94	70.28	71.24	69.40	77.72	74.20	W	68.85	74.18	73.71	71.46
November	78.25	71.95	72.70	73.29	79.00	73.92		71.41	73.99	75.18	73.67
December Average	77.11	70.01	70.18	70.20	78.63	73.08	78.33	70.46	74.54	75.01	71.88
	61.32	57.60	58.50	57.35	68.01	62.14	63.87	57.78	62.15	61.90	58.58
2010 January	77.32	72.59	74.26	73.23	78.58	76.63	77.97	72.63	76.34	75.91	73.59
February	79.06	73.37	73.11	69.48	79.25	77.29	77.84	70.91	77.27	76.24	73.33
March	80.93	76.82	76.08	73.07	83.68	77.57	79.07	72.92	77.55	78.40	76.84
April	82.26	78.36	76.33	75.03	86.80	79.53	80.25	75.21	79.15	80.07	78.61
May	74.80	69.16	66.52	68.71	76.90	77.52	W	68.53	76.20	73.95	70.20
June	^R 76.54	69.14	69.64	68.02	^R 78.14	^R 76.01	^R 77.67	68.30	^R 75.14	^R 74.55	^R 70.92
July	^R 77.09	R 70.34	R 71.61	R 69.31	^R 81.07	^R 75.35	^R 76.60	R 69.59	^R 74.67	^R 74.76	^R 72.07
August	78.57	70.32	72.14	69.88	79.93	75.44	W	70.50	74.98	74.62	71.68

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Costs," at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been been determined and procedured. have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: • October 1973-September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977-December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 22. • 2010: EIA, Petroleum Marketing Monthly, November 2010, Table 22.

b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

the Neutral Zone (between Kuwait and Saudi Arabia).

C See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973-2008, also includes Indonesia; for 1973-1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, or this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974-1995, also includes Gabon (although Gabon was a member of OPEC for only 1975-1994); and beginning in 2007, also included Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

d Based on October, November, and December data only.

Based on October, November, and December data only.
 R=Revised. – =No data reported. W=Value withheld to avoid disclosure of individual company data.

Notes: • See "Landed Costs" in Glossary, and Note 4, "Crude Oil Landed

Table 9.4 Motor Gasoline Retail Prices, U.S. City Average

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
072 Average	38.8	NA	NA	NA
73 Average	56.7	NA NA	NA NA	NA NA
75 Average				
80 Average	119.1	124.5	NA	122.1
85 Average	111.5	120.2	134.0	119.6
90 Average	114.9	116.4	134.9	121.7
95 Average	NA	114.7	133.6	120.5
96 Average	NA	123.1	141.3	128.8
97 Average	NA	123.4	141.6	129.1
98 Average	NA	105.9	125.0	111.5
99 Average	NA	116.5	135.7	122.1
00 Average	NA	151.0	169.3	156.3
01 Average	NA NA	146.1	165.7	153.1
	NA NA	135.8	155.6	144.1
02 Average	NA NA	159.1		
03 Average			177.7	163.8
04 Average	NA	188.0	206.8	192.3
05 Average	NA	229.5	249.1	233.8
06 Average	NA	258.9	280.5	263.5
07 Average	NA	280.1	303.3	284.9
08 January	NA	304.7	329.1	309.6
February	NA	303.3	327.2	308.3
March	NA	325.8	350.2	330.7
April	NA	344.1	369.0	349.1
May	NA	376.4	400.3	381.3
June	NA	406.5	431.9	411.5
July	NA	409.0	435.0	414.2
August	NA	378.6	404.5	383.8
		369.8	394.0	374.9
September	NA			
October	NA	317.3	343.2	322.5
November	NA	215.1	243.3	220.8
December	NA	168.9	195.1	174.2
Average	NA	326.6	351.9	331.7
09 January	NA	178.7	203.6	183.8
February	NA	192.8	218.2	197.9
March	NA	194.9	219.7	200.0
April	NA	205.6	230.9	210.7
May	NA	226.5	251.1	231.4
June	NA	263.1	288.3	268.1
July	NA	254.3	280.6	259.4
August	NA	262.7	288.7	267.7
•	NA NA	257.4	284.5	262.6
September				
October	NA	256.1	282.6	261.3
November	NA	266.0	291.7	270.9
December	NA	262.1	288.2	267.1
Average	NA	235.0	260.7	240.1
10 January	NA	273.1	298.7	277.9
February	NA	265.9	292.2	270.9
March	NA	278.0	303.5	282.9
April	NA	285.8	311.3	290.6
May	NA	286.9	312.4	291.5
June	NA	273.6	300.0	278.3
July	NA NA	273.6	299.7	278.3
	NA NA	273.6 274.5		
August			301.5	279.5
September	NA	270.4	296.8	275.4
October	NA	279.5	305.5	284.3

^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.

NA=Not available.

b The 1981 average (available in Web file) is based on September through

^c Also includes types of motor gasoline not shown separately.

Notes: • See Note 5, "Motor Gasoline Prices," at end of section. • In September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. From September 1981 forward, gasohol is included in the average for all types, and unleaded premium is weighted

more heavily. • Geographic coverage for 1973-1977 is 56 urban areas. Geographic coverage for 1978 forward is 85 urban areas.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: • Monthly Data: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Prices: Energy. • Annual Data: 1973—Platt's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the U.S. Energy Information Administration as the simple averages of monthly data.

Table 9.5 Refiner Prices of Residual Fuel Oil

	Sulfur Co	al Fuel Oil ontent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	Ave	erage
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
978 Average	29.3	31.4	24.5	27.5	26.3	29.8
980 Average	60.8	67.5	47.9	52.3	52.8	60.7
985 Average	61.0	64.4	56.0	58.2	57.7	61.0
990 Average	47.2	50.5	37.2	40.0	41.3	44.4
995 Average	38.3	43.6	33.8	37.7	36.3	39.2
996 Average	45.6	52.6	38.9	43.3	42.0	45.5
997 Average	41.5	48.8	36.6	40.3	38.7	42.3
998 Average	29.9	35.4	26.9	28.7	28.0	30.5
999 Average	38.2	40.5	32.9	36.2	35.4	37.4
000 Average	62.7	70.8	51.2	56.6	56.6	60.2
001 Average	52.3	64.2	42.8	49.2	47.6	53.1
002 Average	54.6	64.0	50.8	54.4	53.0	56.9
003 Average	72.8	80.4	58.8	65.1	66.1	69.8
004 Average	76.4	83.5	60.1	69.2	68.1	73.9
005 Average	111.5	116.8	84.2	97.4	97.1	104.8
2006 Average	120.2	134.2	108.5	117.3	113.6	121.8
007 Average	140.6	143.6	131.4	135.0	135.0	137.4
008 January	199.7	203.9	166.2	178.3	176.4	185.9
February	187.0	200.4	162.5	172.0	171.4	180.2
March	195.6	204.8	171.7	188.1	176.9	193.4
April	213.9	222.1	182.2	190.4	188.0	198.3
May	232.2	234.9	198.9	206.9	204.2	213.2
June	257.8	265.8	218.1	233.3	227.4	243.4
July	283.3	294.5	254.2	265.7	263.6	272.4
August	254.6	300.5	244.5	255.4	248.6	269.4
September	217.5	266.6	218.0	230.0	217.9	241.2
October	157.4	216.6	160.3	175.9	159.2	185.9
November	103.6	165.4	97.1	105.5	100.4	122.5
December	101.0	121.1	78.4	87.7	87.6	102.1
Average	191.8	214.4	184.3	188.9	186.6	196.4
009 January	103.5	116.4	86.1	95.3	92.6	104.9
February	101.1	120.0	91.8	97.4	95.4	106.8
March	101.9	118.3	91.7	95.2	95.2	103.0
April	107.7	117.4	99.2	102.7	101.7	106.6
May	120.5	121.3	119.1	124.5	119.5	123.4
June	140.1	144.0	137.3	145.1	138.1	144.7
July	141.7	148.8	140.0	136.9	140.5	140.4
August	158.4	164.1	156.7	148.8	157.2	153.6
September	153.1	168.9	155.6	149.1	154.9	154.0
October	161.9	171.7	154.9	150.1	156.0	155.2
November	174.3	173.9	170.0	160.2	171.1	164.2
December	172.3	181.3	167.3	161.4	168.5	167.4
Average	133.7	141.3	134.4	130.6	134.2	134.1
010 January	176.7	185.2	170.5	166.0	172.1	172.5
February	172.5	186.2	165.0	157.4	166.6	168.1
March	173.9	186.2	170.0	160.9	171.1	169.2
April	182.7	188.7	172.5	165.5	174.8	171.8
May	167.5	189.8	167.5	160.1	167.5	168.6
June	162.9	187.4	160.4	155.5	161.2	163.6
July	168.6	185.8	R 160.4	153.6	R 162.9	163.9
August	170.5	189.5	162.9	NA	164.5	NA

 $^{^{\}rm a}\,$ Prices are not adjusted for inflation. See "Nominal Price" in Glossary.

R=Revised. NA=Not available.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note

^{6, &}quot;Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data

beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 16.

^{• 2010:} EIA, Petroleum Marketing Monthly, November 2010, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
1978 Average	43.4	53.7	38.6	40.4	36.9	36.5	23.7
980 Average	94.1	112.8	86.8	86.4	80.3	80.1	41.5
	83.5	113.0	79.4	87.4	77.6	77.2	39.8
985 Average						69.4	
990 Average	78.6	106.3	77.3	83.9	69.7		38.6
995 Average	62.6	97.5	53.9	58.0	51.1	53.8	34.4
996 Average	71.3	105.5	64.6	71.4	63.9	65.9	46.1
997 Average	70.0	106.5	61.3	65.3	59.0	60.6	41.6
998 Average	52.6	91.2	45.0	46.5	42.2	44.4	28.8
999 Average	64.5	100.7	53.3	55.0	49.3	54.6	34.2
000 Average	96.3	133.0	88.0	96.9	88.6	89.8	59.5
001 Average	88.6	125.6	76.3	82.1	75.6	78.4	54.0
002 Average	82.8	114.6	71.6	75.2	69.4	72.4	43.1
003 Average	100.2	128.8	87.1	95.5	88.1	88.3	60.7
004 Average	128.8	162.7	120.8	127.1	112.5	118.7	75.1
005 Average	167.0	207.6	172.3	175.7	162.3	173.7	93.3
006 Average	196.9	249.0	196.1	200.7	183.4	201.2	103.1
007 Average	218.2	275.8	217.1	224.9	207.2	220.3	119.4
008 January	239.5	296.9	266.5	283.2	256.4	258.0	151.9
February	243.6	300.7	267.4	284.2	260.7	273.8	146.9
March	264.0	326.3	310.6	328.1	297.7	315.8	149.5
April	286.1	346.8	331.5	354.3	319.5	335.6	157.1
May	317.2	375.1	364.2	376.7	353.6	371.2	167.5
June	341.6	401.8	391.2	397.3	376.1	385.9	176.1
July	334.7	394.6	397.8	398.0	380.2	387.6	183.3
August	307.8	373.7	339.3	345.6	328.7	333.8	166.7
September	300.0	370.5	327.8	336.5	300.3	316.0	156.5
October	214.9	279.0	256.9	268.1	240.0	251.4	124.2
November	139.3	214.0	197.4	228.8	194.7	195.5	100.5
December	106.1	179.9	147.0	171.5	157.9	146.9	91.6
Average	258.6	334.2	302.0	285.1	274.5	299.4	143.7
009 January	124.6	185.1	147.2	181.0	154.8	148.0	97.4
February	133.3	204.0	135.2	160.7	142.7	132.6	89.0
March	139.7	203.1	126.6	145.6	135.8	131.5	80.5
April	148.2	222.5	142.5	148.0	139.7	145.6	71.9
May	176.3	247.8	146.0	154.0	146.8	153.1	72.8
June	202.2	274.3	178.0	184.9	174.4	182.8	83.8
July	186.7	254.8	175.9	177.3	165.8	174.5	76.0
August	202.6	275.9	189.4	195.1	180.4	193.7	83.7
	191.5	259.2	182.2	185.7	177.4	184.8	92.3
September							
October	197.5	261.1	191.7	205.3	191.8	197.8	100.4
November	203.9	270.1	206.0	206.7	200.4	203.7	108.8
December Average	199.9 176.7	265.5 248.0	201.2 171.9	214.8 184.4	198.9 165.7	199.7 171.3	117.8 92.1
010 January	209.7	275.9	212.1	228.2	207.5	207.8	133.2
February	203.3	266.2	199.9	221.6	198.6	207.8	132.4
March	219.7	290.6	212.9	221.9	210.0	216.3	117.9
April	226.5	299.9	224.7	228.1	221.4	231.2	114.4
May	215.2	294.5	218.6	211.0	212.9	217.7	109.8
June	211.3	283.5	209.4	210.3	203.7	212.0	104.9
July	211.3	R 289.1	R 210.0	204.6	200.1	209.8	101.2
August	209.5	284.2	213.8	212.5	204.1	216.1	108.4

^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy

Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 4.

• 2010: EIA, Petroleum Marketing Monthly, November 2010, Table 4.

b See Note 5, "Motor Gasoline Prices," at end of section.

Table 9.7 Refiner Prices of Petroleum Products to End Users

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
978 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
990 Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
•	76.5	100.5	70.0 54.0	58.9	75.4 56.2	72.3 56.0	49.2
95 Average							
996 Average	84.7	111.6	65.1	74.0	67.3	68.1	60.5
997 Average	83.9	112.8	61.3	74.5	63.6	64.2	55.2
998 Average	67.3	97.5	45.2	50.1	48.2	49.4	40.5
999 Average	78.1	105.9	54.3	60.5	55.8	58.4	45.8
000 Average	110.6	130.6	89.9	112.3	92.7	93.5	60.3
001 Average	103.2	132.3	77.5	104.5	82.9	84.2	50.6
002 Average	94.7	128.8	72.1	99.0	73.7	76.2	41.9
003 Average	115.6	149.3	87.2	122.4	93.3	94.4	57.7
004 Average	143.5	181.9	120.7	116.0	117.3	124.3	83.9
005 Average	182.9	223.1	173.5	195.7	170.5	178.6	108.9
006 Average	212.8	268.2	199.8	224.4	198.2	209.6	135.8
007 Average	234.5	284.9	216.5	226.3	224.1	226.7	148.9
••• ••• •• •• •• •• •• •• •• •• •• •• •	200	200					
008 January	257.1	298.7	268.5	338.1	279.0	269.2	220.6
February	256.6	295.4	269.3	340.4	288.8	280.5	NA
March	278.3	329.6	312.0	359.2	323.2	325.2	186.5
April	298.4	335.8	333.4	377.4	340.5	345.1	NA
May	331.6	361.5	366.1	395.0	375.3	380.8	185.3
June	358.0	396.5	393.3	415.9	391.4	400.4	192.8
July	356.8	392.9	400.8	439.3	393.9	402.1	205.5
August	327.9	379.2	342.5	405.5	339.9	357.6	190.6
September	320.7	383.7	326.6	401.3	327.5	332.0	201.5
October	253.7	297.5	260.3	299.3	269.0	278.1	176.3
November	161.7	223.0	198.8	308.5	229.3	213.9	165.2
December	121.9	181.4	151.8	282.3	192.6	169.0	166.4
Average	277.5	327.3	305.2	328.3	298.6	315.0	189.2
009 January	135.8	185.7	148.3	262.6	202.6	163.0	186.1
February	146.8	197.4	136.0	262.7	187.9	149.5	150.5
March	150.3	197.7	128.1	256.5	177.2	145.0	116.6
April	160.1	215.0	145.8	254.0	176.5	158.9	106.5
May	185.6	242.3	148.6	249.7	169.7	164.0	88.9
June	218.7	270.7	181.8	249.0	193.9	194.5	100.8
July	206.7	260.7	177.4	246.2	187.1	189.7	89.1
	215.7	276.4	192.2	254.5	204.1	203.2	102.9
August	208.6	268.4	183.4	254.5 NA	197.2	198.0	102.9
September							
October	210.4	269.3	193.0	273.8	216.3	208.2	122.9
November	217.3	284.5	206.4	287.5	222.7	215.5	132.3
December	214.4	279.9	201.6	289.4	219.7	211.7	151.7
Average	188.8	244.2	170.4	267.5	196.2	183.4	122.0
110 January	224.0	291.4	212.9	298.6	236.9	219.2	191.3
February	217.3	285.5	201.8	297.4	231.0	214.4	200.9
March	230.1	310.3	214.4	297.8	242.5	226.5	NA
April	237.0	320.1	227.2	304.0	252.7	241.0	132.6
May	235.3	312.9	219.9	293.8	248.7	234.3	126.4
				296.5		228.4	120.4
June	225.1	298.1	210.5		239.3	ZZÖ.4 R 224 2	
July	224.7	302.8	210.3	NA OTT O	224.6	R 221.2	116.2
August	225.0	296.7	215.8	277.2	237.9	226.0	121.1

^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.

Notes: • Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy

Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data

beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 2. • 2010: EIA, Petroleum Marketing Monthly, November 2010, Table 2.

b See Note 5, "Motor Gasoline Prices," at end of section.

R=Revised. NA=Not available.

Table 9.8a No. 2 Distillate Prices to Residences: Northeastern States

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
1978 Average	48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
1980 Average	96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
1985 Average	99.7	102.4	107.7	107.0	106.7	108.0	111.3	105.9	102.3
1990 Average	98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
1995 Average	78.7	77.9	85.3	84.4	87.4	86.4	95.5	88.8	82.6
1996 Average	97.2	94.0	96.9	97.6	98.6	98.6	106.3	102.4	95.3
1997 Average	94.2	94.2	98.7	96.0	98.9	96.3	106.5	103.3	95.0
1998 Average	78.8	78.8	87.3	81.8	86.8	83.1	94.8	89.2	81.4
1999 Average	81.3	77.0	85.4	83.6	85.8	85.2	96.9	91.3	81.5
2000 Average	129.7	128.1	125.5	127.3	125.9	129.1	144.2	140.4	122.4
2001 Average	121.7	125.6	126.1	122.1	123.6	123.9	136.3	131.4	115.9
2002 Average	112.9	111.9	117.2	114.1	112.4	111.8	121.8	122.0	106.4
2003 Average	131.4	131.2	130.9	138.6	134.4	135.5	143.6	148.9	130.4
2004 Average	151.1	149.7	150.5	155.9	151.1	151.8	162.7	166.2	148.9
2005 Average	198.6	197.2	198.7	206.4	200.0	201.2	210.5	216.6	197.4
2006 Average	229.4	228.3	240.8	235.5	236.0	235.7	245.8	246.7	228.6
2007 Average	254.0	253.5	267.9	257.6	260.2	261.5	267.4	266.4	250.8
2008 January	304.6	305.1	309.5	313.6	317.3	309.1	321.8	332.5	305.7
February	305.0	305.0	310.5	319.3	320.2	312.3	325.8	335.1	309.7
March	330.9	331.1	337.1	352.5	349.5	336.2	352.1	369.0	340.3
April	349.0	347.4	357.5	370.1	366.2	349.4	364.9	385.5	355.3
May	376.3	384.3	391.3	397.7	392.7	380.6	393.4	413.5	385.1
June	419.7	425.7	425.2	429.3	417.6	411.3	416.4	447.2	416.4
July	429.0	442.7	448.4	435.9	428.7	419.4	428.9	455.4	432.6
August	395.7	404.8	417.6	389.2	384.2	NA	388.9	402.3	NA
September	375.7	376.8	393.9	362.8	357.5	368.1	371.8	376.1	357.3
October	322.8	331.8	350.2	306.7	300.0	319.9	329.5	319.8	310.3
November	279.5	285.7	313.7	264.6	273.5	288.6	296.2	272.7	275.7
December	251.3	255.9	280.2	233.9	240.8	261.3	258.9	238.1	244.9
Average	319.9	320.7	332.3	319.7	321.0	319.5	329.3	326.7	315.7
2009 January	250.6	253.7	277.4	235.6	234.6	257.6	254.3	238.9	242.7
February	240.4	242.6	269.3	222.6	220.9	242.9	244.7	228.8	226.8
March	223.7	228.3	254.5	216.6	212.7	236.2	233.4	216.6	220.2
April	225.0	224.6	243.7	219.2	214.3	231.4	233.8	218.7	217.7
May	217.5	215.1	237.0	214.2	216.9	222.5	230.0	218.7	219.0
June	229.5	220.1	237.6	237.1	238.5	241.3	242.8	238.1	221.1
July	226.8	207.7	232.4	231.2	228.5	235.4	229.1	232.2	213.7
August	235.0	224.3	237.8	243.2	245.4	249.0	252.3	245.4	225.7
September	233.3	227.2	240.3	238.6	235.7	234.9	245.5	243.7	219.6
October	239.1	237.3	248.4	247.0	253.7	251.6	257.4	254.1	231.5
November	246.1	248.4	260.4	261.9	268.5	264.5	274.7	271.0	252.0
December	248.6	252.3	264.0	263.4	271.8	266.5	273.3	273.1	253.6
Average	238.2	237.7	259.3	235.8	237.6	248.7	250.4	240.4	233.0
2010 January	258.3	261.1	275.3	276.2	285.6	276.4	289.3	292.8	269.2
February	253.6	260.0	270.5	272.9	277.7	273.0	284.5	287.1	269.7
March	256.0	263.2	274.7	279.5	280.0	275.8	280.1	292.9	275.5
April	256.5	265.1	277.1	286.8	295.9	281.5	284.5	294.6	275.2
May	251.1	263.6	271.0	281.1	292.1	273.6	278.1	287.3	268.0
June	247.9	257.4	264.9	271.6	282.9	270.5	269.1	274.7	256.1
July	R 247.8	253.2	^R 261.4	R 265.6	R 272.8	R 265.3	^R 265.1	^R 271.5	^R 251.9
August	246.9	251.7	261.9	265.2	273.5	263.4	266.5	270.3	253.6

^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.
 R=Revised. NA=Not available.
 Notes: • States are grouped in Tables 9.8a-9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

Petroleum Prices," at end of section.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15. • 2010: EIA, Petroleum Marketing Monthly, November 2010, Table 15.

Table 9.8b No. 2 Distillate Prices to Residences: Selected South Atlantic and Midwestern States (Cents^a per Gallon, Excluding Taxes)

u	iia iviiav	Western	Otates	(Cerita	pei Galloi	ii, Excido	iiig raxes)			
		District									
		of			West						
	Delaware	Columbia	Maryland	Virginia	Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
1978 Average	47.8	50.7	49.2	49.1	46.2	47.4	47.9	48.5	46.5	44.7	47.8
1980 Average	95.4	102.6	97.9	98.5	92.2	91.9	97.8	99.6	95.8	91.5	99.9
1985 Average	104.6	114.3	108.8	106.3	98.0	99.7	102.1	99.1	97.5	98.3	101.9
1990 Average	105.8	107.8	111.9	110.6	99.1	98.1	100.9	99.3	96.1	94.2	101.4
1995 Average	87.0	101.0	93.6	84.4	81.5	80.8	86.0	81.6	78.5	81.2	80.1
1996 Average	98.4	117.8	106.3	95.2	96.0	92.1	97.7	91.2	89.3	89.9	90.9
1997 Average	98.4	117.4	105.7	94.8	96.2	91.3	94.2	86.5	87.0	93.3	89.9
1998 Average	85.8	102.2	90.2	85.6	81.8	76.7	80.4	74.8	73.5	80.1	73.8
1999 Average	88.4	101.1	90.7	87.0	78.9	82.0	88.3	79.3	71.6	84.7	77.4
2000 Average	127.0	W	135.1	126.9	125.1	122.0	NA	120.7	109.5	117.1	115.6
2001 Average	123.4	143.1	134.2	120.2	113.9	116.0	NA	113.3	112.1	118.0	112.2
2002 Average	116.4	W	120.1	105.7	105.4	105.8	110.9	102.5	97.5	107.3	105.1
2003 Average	143.3	W	145.5	131.1	130.4	128.4	132.1	120.2	119.8	126.9	121.8
2004 Average	157.0	W	163.2	146.2	149.3	147.5	153.9	153.7	140.5	146.5	143.3
2005 Average	207.5	W	212.7	204.4	204.3	200.9	205.3	201.7	202.1	199.3	198.7
2006 Average	238.1	W	239.8	226.8	226.1	224.4	232.9	231.7	231.2	229.7	226.8
2007 Average	258.4	W	266.8	240.7	247.8	249.4	258.8	255.7	252.8	257.1	258.7
2008 January	322.8	W	326.4	306.4	311.5	304.6	304.6	306.3	300.5	303.9	297.1
February	326.0	W	331.1	314.8	316.3	318.4	316.9	312.3	310.0	311.4	311.1
March	354.8	W	354.5	340.6	347.9	354.8	359.1	345.3	357.4	351.2	352.8
April	362.6	W	367.2	352.8	363.9	372.6	370.2	364.3	368.5	365.7	371.3
May	390.3	W	402.9	384.8	391.6	407.6	400.0	409.1	405.0	395.6	399.7
June	423.1	W	424.6	412.6	425.2	417.5	421.4	427.4	NA	NA	417.1
July	434.5	W	441.4	412.3	430.6	414.7	417.8	426.4	401.1	399.3	416.3
August	389.8	W	408.7	376.4	386.3	379.4	373.8	379.7	NA	366.6	379.4
September	362.4	W	382.8	355.8	356.6	367.0	365.2	368.8	360.0	360.1	365.8
October	314.8	W	329.7	315.8	316.2	301.9	307.9	309.8	303.9	308.6	309.8
November	267.7	W	289.4	266.8	268.8	250.9	248.5	252.6	251.4	252.0	258.2
December	244.1	W	255.0	235.0	233.3	208.1	207.9	211.8	212.9	211.1	207.2
Average	318.7	W	327.3	312.4	322.1	314.7	306.7	310.5	315.2	308.8	306.5
2009 January	242.8	W	247.0	222.5	232.9	204.1	199.1	206.2	206.9	200.4	197.4
February	231.0	W	240.7	214.5	218.8	188.8	186.6	191.2	186.9	185.4	181.3
March	225.3	W	227.5	199.9	204.2	182.6	180.6	182.2	183.6	178.1	173.5
April	226.7	W	226.3	NA	203.5	191.7	181.0	192.2	198.3	187.0	189.0
May	225.3	W	222.4	182.4	200.8	194.1	180.7	197.2	NA	197.5	187.2
June	228.9	W	232.0	203.7	211.9	218.0	209.5	217.6	206.0	220.0	215.6
July	225.3	W	230.7	205.5	212.2	210.3	196.4	218.1	NA	216.6	209.2
August	234.0	W	239.7	214.0	221.7	227.9	215.3	232.1	214.7	228.4	229.7
September	230.9	W	239.6	211.8	225.3	220.5	217.9	231.8	NA	226.2	223.2
October	250.5	W	256.1	232.2	239.7	236.4	233.6	239.1	238.6	233.1	230.1
November	268.3	W	270.7	240.8	250.4	247.9	248.5	252.0	248.3	242.1	238.8
December	272.4	W	276.3	249.5	249.6	249.3	244.7	250.7	242.7	239.5	239.4
Average	242.1	W	247.3	219.3	226.5	213.0	209.6	218.9	215.5	210.5	212.4
2010 January	287.8 285.7	W	286.1	259.4	268.1	257.2	252.6 250.1	256.5	252.6	246.6	250.5 W
February		W	283.3	256.1	271.4	253.3		251.0	251.6	242.1	
March	298.8 NA	W	289.4 285.8	258.7 NA	271.2 267.6	258.5 256.6	264.0 273.1	261.4 267.9	266.0 277.7	253.7 264.0	258.0 266.8
April	285.3	W	280.8	NA 243.5	258.3	256.6 257.4	266.9	267.9 NA	277.7	264.0 256.7	258.1
May	265.3 269.5	W									
June	269.5 265.5	W	270.5 R 263.6	235.6 R 234.5	250.1 R 249.9	243.6 ^R 243.6	250.5 ^R 248.1	248.2 R 251.0	NA ^R 258.2	247.8 ^R 250.8	255.7 R 246.6
July August	265.5 261.5	W	266.9	235.1	254.3	250.9	250.9	253.7	258.2 W	251.3	254.8
August	201.0	v v	200.9	233.1	204.0	200.9	200.9	200.1	vv	201.0	204.0

Petroleum Prices," at end of section.

^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.

R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.
• 2010: EIA, Petroleum Marketing Monthly, November 2010, Table 15.

Table 9.8c No. 2 Distillate Prices to Residences: Selected Western States and U.S. Average (Cents^a per Gallon, Excluding Taxes)

	Idaho	Washington	Oregon	Alaska	U.S. Average
		-			
978 Average	43.6	48.6	45.8	53.2	49.0
980 Average	91.6	100.8	97.3	97.8	97.4
985 Average	97.2	101.1	97.1	108.3	105.3
990 Average	97.4	102.9	97.0	110.1	106.3
995 Average	83.9	96.2	89.4	83.4	86.7
996 Average	93.3	108.0	98.9	90.9	98.9
ū					
997 Average	95.3	113.9	103.1	97.3	98.4
998 Average	78.4	97.8	86.1	85.2	85.2
999 Average	76.2	106.5	93.8	96.6	87.6
000 Average	117.0	144.5	136.8	133.7	131.1
001 Average	103.8	133.6	121.1	137.7	125.0
002 Average	91.9	120.4	106.0	108.7	112.9
003 Average	118.8	148.7	130.3	124.3	135.5
004 Average	149.5	174.9	159.4	152.4	154.8
005 Average	212.3	238.5	214.6	206.1	205.2
006 Average	239.1	268.1	241.1	239.5	236.5
007 Average	259.8	290.9	250.0	251.8	259.2
001 /1101ago	200.0	200.0	200.0	201.0	200.2
008 January	296.0	329.1	299.3	301.3	313.8
February	305.7	339.8	311.5	308.4	318.1
March	348.7	382.3	349.5	337.7	347.5
April	375.5	404.3	374.0	365.8	362.6
May	399.8	432.0	399.1	399.9	392.1
June	417.8	454.5	423.7	430.9	420.4
July	421.6	452.5	429.3	446.5	429.6
August	384.4	412.4	383.6	422.1	386.6
	358.2	382.4	355.2	389.7	366.7
September					
October	312.7	327.9	300.7	NA 200.0	316.9
November	245.0	284.1	240.2	262.2	277.9
December	187.8	228.4	190.2	222.6	245.0
Average	307.8	340.1	306.0	348.5	321.9
009 January	187.9	238.8	193.9	216.0	242.6
February	176.2	225.3	181.9	NA	230.9
March	167.4	212.4	172.7	194.6	221.0
April	186.3	241.4	198.6	214.0	221.1
May	187.8	247.3	205.0	225.6	216.7
	214.8	254.4	227.8	250.6	230.7
June					
July	212.3	233.5	214.9	236.2	221.9
August	215.8	248.9	232.6	255.4	236.9
September	227.3	265.8	235.7	NA	233.4
October	233.3	273.7	246.9	NA	245.8
November	245.9	287.1	255.1	NA	260.8
December	235.4	283.0	247.5	NA	262.8
Average	204.8	249.1	213.2	250.3	238.6
010 January	239.2	291.8	258.3	NA	276.3
010 January					
February	241.2	281.7	253.6	279.0	265.8
March	256.9	292.4	266.4	288.4	275.7
April	274.7	310.5	281.7	296.5	278.7
May	267.5	305.3	268.5	295.8	272.3
June	NA	289.2	265.3	289.1	262.3
July	R 254.0	NA	NA	R 287.8	R 258.4
August	R 260.1	R 275.7	R 262.5	R 290.1	R 259.6
September	NA	NA NA	NA	NA NA	E 265.1

^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary. R=Revised. NA=Not available. E=Estimate.

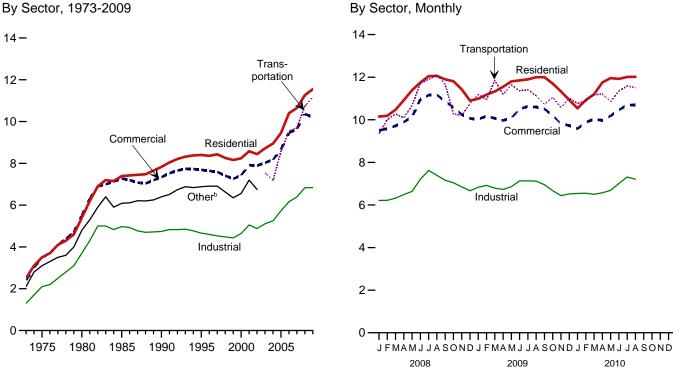
Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

Petroleum Prices," at end of section.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15. • 2010: EIA, Petroleum Marketing Monthly, November 2010, Table 15.

Figure 9.2 Average Retail Prices of Electricity (Cents^a per Kilowatthour)



^aPrices are not adjusted for inflation. See "Nominal Price" in Glossary. ^bPublic street and highway lighting, interdepartmental sales, other sales to public authorities, agricultural and irrigation, and transportation including rail-roads and railways. Note: Includes taxes.

Web Page: http://www.eia.gov/emeu/mer/prices.html.

Source: Table 9.9.

Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollars^a per Million Btu, Including Taxes)

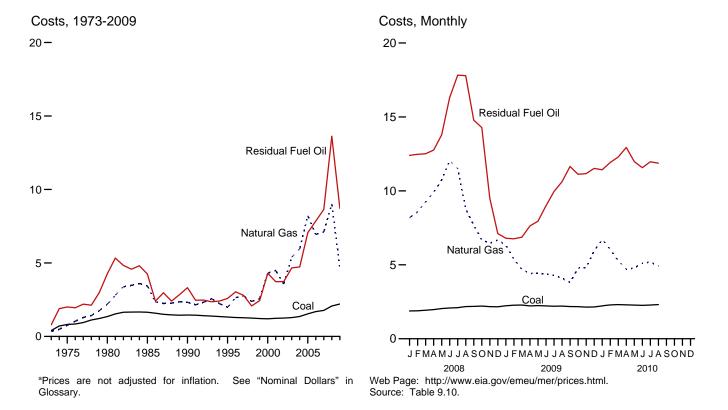


Table 9.9 Average Retail Prices of Electricity

(Centsa per Kilowatthour, Including Taxes)

173 Average 175 Average 180 Average 180 Average 190 Average 195 Average 196 Average 197 Average 198 Average 199 Average 100 Average 101 Average 102 Average 103 Average	2.5 3.5 5.4 7.39 7.83 8.40 8.36 8.43	2.4 3.5 5.5 7.27 7.34 7.69 7.64	1.3 2.1 3.7 4.97 4.74	NA NA NA NA	2.1 3.1 4.8	2.0 2.9 4.7
175 Average 180 Average 180 Average 190 Average 195 Average 196 Average 197 Average 198 Average 199 Average 199 Average 100 Average 101 Average	3.5 5.4 7.39 7.83 8.40 8.36 8.43	3.5 5.5 7.27 7.34 7.69	2.1 3.7 4.97 4.74	NA NA	3.1	2.9
180 Average 185 Average 190 Average 195 Average 196 Average 197 Average 198 Average 199 Average 190 Average 100 Average 101 Average 102 Average	5.4 7.39 7.83 8.40 8.36 8.43	5.5 7.27 7.34 7.69	3.7 4.97 4.74	NA		
185 Average 190 Average 195 Average 196 Average 197 Average 198 Average 199 Average 100 Average 101 Average	7.39 7.83 8.40 8.36 8.43	7.27 7.34 7.69	4.97 4.74		7.0	
90 Average 95 Average 96 Average 97 Average 98 Average 99 Average 00 Average 01 Average	7.83 8.40 8.36 8.43	7.34 7.69	4.74		6.09	6.44
95 Average	8.40 8.36 8.43	7.69		NA NA	6.40	6.57
96 Average 97 Average 98 Average 99 Average 00 Average 01 Average	8.36 8.43					
97 Average 98 Average 99 Average 00 Average 01 Average 02 Average	8.43		4.66	NA NA	6.88	6.89
98 Average 99 Average 00 Average 01 Average			4.60	NA	6.91	6.86
99 Average 00 Average 01 Average 02 Average		7.59	4.53	NA	6.91	6.85
00 Average 01 Average 02 Average	8.26	7.41	4.48	NA	6.63	6.74
01 Average 02 Average	8.16	7.26	4.43	NA	6.35	6.64
02 Average	8.24	7.43	4.64	NA	6.56	6.81
	8.58	7.92	5.05	NA	7.20	7.29
	8.44	7.89	4.88	NA	6.75	7.20
	8.72	8.03	5.11	7.54		7.44
04 Average	8.95	8.17	5.25	7.18		7.61
05 Average	9.45	8.67	5.73	8.57		8.14
06 Average	10.40	9.46	6.16	9.54		8.90
07 Average	10.40	9.65	6.39	9.70		9.13
U/ Average	10.65	9.05	0.39	9.70		9.13
08 January	10.15	9.51	6.21	9.34		8.92
February	10.19	9.58	6.22	10.01		8.92
March	10.47	9.72	6.32	10.27		9.03
April	10.92	9.90	6.49	10.09		9.21
May	11.39	10.13	6.64	10.67		9.47
June	11.75	10.97	7.21	11.72		10.26
July	12.05	11.16	7.62	11.89		10.65
August	12.06	11.17	7.39	12.12		10.58
	11.90	10.86	7.16	11.67		10.26
September						
October	11.81	10.58	7.04	10.27		9.96
November	11.43	10.25	6.85	10.21		9.68
December	10.90	10.06	6.67	10.76		9.57
Average	11.26	10.36	6.83	10.74		9.74
09 January	10.99	10.03	6.83	11.19		9.72
February	11.18	10.17	6.92	10.95		9.80
March	11.33	10.07	6.79	11.85		9.72
April	11.55	9.97	6.73	11.19		9.65
May	11.80	10.08	6.86	11.64		9.83
June	11.85	10.51	7.13	11.36		10.21
July	11.90	10.63	7.13	11.41		10.37
	12.00	10.60	7.13 7.12	11.13		10.36
August						
September	12.00	10.51	6.95	10.72		10.18
October	11.70	10.20	6.67	11.06		9.77
November	11.33	9.82	6.44	10.58		9.42
December	10.93	9.73	6.52	11.01		9.44
Average	11.55	10.21	6.84	11.17		9.89
10 January	10.54	9.58	6.54	10.77		9.35
February	10.93	9.89	6.55	10.87		9.52
March	11.20	10.03	6.50	11.17		9.56
April	11.75	9.97	6.57	11.21		9.59
May	11.96	10.19	6.69	10.85		9.80
	11.92	10.19	7.01	11.35		10.19
June						
July	12.01	10.70	7.31	11.59		10.50
August	12.02	10.69	7.21	11.51		10.45
8-Month Average	11.53	10.22	6.81	11.16		9.91
09 8-Month Average 08 8-Month Average	11.58 11.16	10.28 10.32	6.94 6.78	11.34 10.75		9.98 9.68

a Prices are not adjusted for inflation. See "Nominal Price" in Glossary

and railways.

NA=Not available. ——=Not applicable.

Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other

miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods.

See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values.

Geographic coverage is the 50 States and the District of Columbia.

States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • October 1977-February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March 1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement." • 1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." • 1984-1992: EIA, Form EIA-861, "Annual Electric Utility Report." • 1993 forward: EIA, Electric Power Monthly, November 2010, Table 5.3.

^b Commercial sector. For 1973-2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.

^C Industrial sector. For 1973-2002, prices exclude agriculture and irrigation.

d Transportation sector, including railroads and railways.

e Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

Table 9.10 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars^a per Million Btu, Including Taxes)

			Petrole	um			
	Coal	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total ^d	Natural Gas ^e	All Fossil Fuels ^f
1973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
1975 Average	.81	2.01	NA	NA	2.02	.75	1.04
1980 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
1985 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
1990 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
1995 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
1996 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52
1997 Average	1.27	2.79	4.49	.91	2.73	2.76	1.52
1998 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44
1999 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
2002 Average ⁹	1.25	3.73	5.34	.78	3.34	3.56	1.86
2003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28
2004 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
2005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25
2006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02
2007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23
2008 January	1.88	12.40	19.43	1.62	9.80	8.19	3.73
February	1.89	12.47	20.16	1.82	10.59	8.58	3.66
March	1.93	12.51	21.09	1.82	9.00	9.25	3.83
April	1.97	12.76	23.09	1.79	10.56	9.89	4.11
May	2.04	13.78	25.99	1.96	11.55	10.73	4.33
June	2.08	16.31	26.44	2.01	14.19	12.04	5.45
July	2.10	17.83	27.76	1.96	13.78	11.51	5.45
August	2.18	17.79	25.04	2.75	13.91	8.79	4.46
September	2.19	14.79	23.35	2.49	12.01	7.68	3.91
October	2.21	14.28	19.53	2.39	10.33	6.69	3.50
November	2.17	9.50	15.75	2.38	7.64	6.45	3.28
December	2.16	7.11	12.39	2.30	6.40	6.68	3.37
Average	2.07	13.62	21.46	2.11	10.87	9.02	4.11
2009 January	2.23	6.80	11.45	2.06	6.52	6.33	3.39
February	2.27	6.76	11.08	1.83	6.02	5.39	3.12
March	2.28	6.87	10.61	1.66	5.55	4.69	2.96
April	2.22	7.63	11.39	1.19	5.80	4.41	2.84
May	2.24	7.95	11.91	1.72	6.04	4.43	2.93
June	2.22	8.99	13.44	1.58	7.14	4.39	3.00
July	2.20	9.96	14.07	1.61	7.40	4.28	3.01
August	2.21	10.62	14.72	1.84	7.56	4.10	2.97
September	2.18	11.65	15.03	1.38	6.64	3.80	2.78
October	2.17	11.12	15.49	1.55	7.09	4.78	3.02
November	2.14	11.17	15.40	1.26	7.80	4.81	2.94
December	2.15	11.52	15.73	1.58	8.21	5.93	3.38
Average	2.21	8.71	13.17	1.62	6.79	4.70	3.03
2010 January	2.22	11.43	15.60	1.85	9.57	6.71	3.72
February	2.28	11.92	15.54	1.97	9.44	6.05	3.42
March	2.31	12.29	16.23	2.26	8.74	5.28	3.14
April	2.30	12.94	16.91	2.33	7.72	4.70	3.01
May	2.27	11.98	16.37	2.37	9.35	4.78	3.12
June	2.26	11.57	15.88	2.27	9.07	5.11	3.36
July	2.28	11.97	15.71	2.58	9.51	5.18	3.53
August	2.31	11.87	16.01	2.85	9.08	4.92	3.41
8-Month Average	2.28	11.88	15.94	2.34	9.14	5.30	3.35
2009 8-Month Average 2008 8-Month Average	2.23 2.01	7.98 14.83	12.24 23.70	1.70 1.96	6.52 11.87	4.67 9.97	3.03 4.41

Gas."

⁹ Through 2001, data are for electric utilities only. Beginning in 2002, data also and electric generating plants in the include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.

NA=Not available.

Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: See end of section.

 $^{^{\}rm a}$ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}$ For 1973-2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

smail amounts of ruel oil no. 4).

^c For 1973-2001, electric utility data are for light oil (fuel oil nos. 1 and 2).

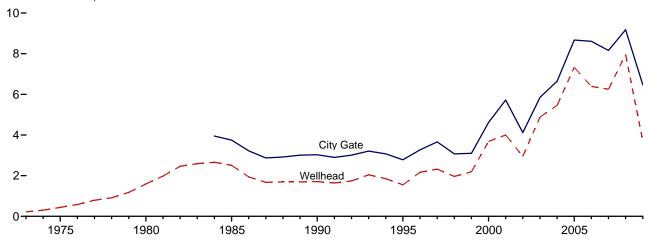
^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973-1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973-1989, data do not include petroleum coke.

⁶ Natural gas, plus a small amount of supplemental gaseous fuels. For 1973-2000, data also include a small amount of blast furnace gas and other gases

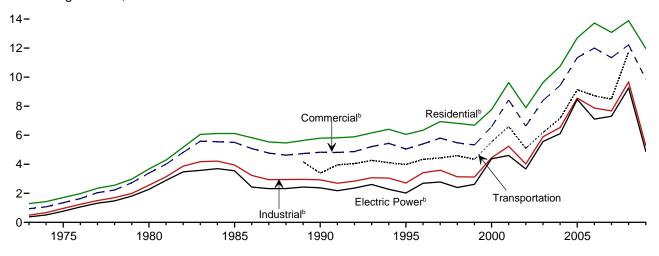
Figure 9.4 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

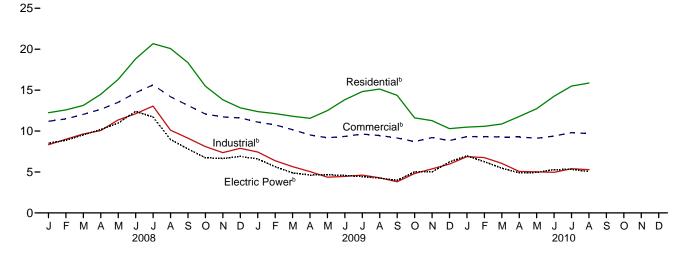
Selected Prices, 1973-2009



Consuming Sectors, 1973-2009



Consuming Sectors, Monthly



 $^{\rm a}\textsc{Prices}$ are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}\textsc{Includes}$ taxes.

Web Page: http://www.eia.gov/emeu/mer/prices.html. Source: Table 9.11.

Table 9.11 Natural Gas Prices

(Dollarsa per Thousand Cubic Feet)

						Co	onsuming	Sectorsb			
		City	Res	idential	Com	mercialc	Ind	ustriald	Transportation	Electi	ric Powere
	Wellhead Price	Gate Price	Price ^f	Percentage of Sector9	Price ^f	Percentage of Sector ⁹	Price ^f	Percentage of Sector9	Vehicle Fuel ^h Price ^f	Pricef	Percentage of Sector9,
1973 Average	0.22	NA	1.29	NA	0.94	NA	0.50	NA	NA	0.38	92.1
1975 Average	.44	NA	1.71	NA	1.35	NA	.96	NA	NA	.77	96.1
1980 Average	1.59	NA	3.68	NA	3.39	NA	2.56	NA	NA	2.27	96.9
1985 Average	2.51	3.75	6.12	NA	5.50	NA	3.95	68.8	NA	3.55	94.0
1990 Average	1.71	3.03	5.80	99.2	4.83	86.6	2.93	35.2	3.39	2.38	76.8
1995 Average	1.55 2.17	2.78 3.27	6.06 6.34	99.0 99.0	5.05 5.40	76.7 77.6	2.71 3.42	24.5 19.4	3.98 4.34	2.02 2.69	71.4 68.4
1996 Average	2.17	3.66	6.94	98.8	5.80	77.6 70.8	3.59	18.1	4.44	2.78	68.0
1997 Average	1.96	3.00	6.82	97.7	5.48	67.0	3.14	16.1	4.59	2.70	63.7
1998 Average 1999 Average	2.19	3.10	6.69	95.2	5.33	66.1	3.12	18.8	4.34	2.62	58.3
2000 Average	3.68	4.62	7.76	92.6	6.59	63.9	4.45	19.8	5.54	4.38	50.5
2001 Average	4.00	5.72	9.63	92.4	8.43	66.0	5.24	20.8	6.60	4.61	40.2
2002 Average	2.95	4.12	7.89	97.9	6.63	77.4	4.02	22.7	5.10	e3.68	83.9
2003 Average	4.88	5.85	9.63	97.5	8.40	78.2	5.89	22.1	6.19	5.57	91.2
2004 Average	5.46	6.65	10.75	97.7	9.43	78.0	6.53	23.7	7.16	6.11	89.8
2005 Average	7.33	8.67	12.70	98.2	11.34	82.1	8.56	24.1	9.14	8.47	91.3
2006 Average	6.39	8.61	13.73	98.1	12.00	80.8	7.87	23.4	8.72	7.11	93.4
2007 Average	6.25	8.16	13.08	98.0	11.34	80.4	7.68	22.2	8.50	7.31	92.2
2008 January	7.16	8.37	12.24	NA	11.20	82.9	8.33	20.7	NA	8.52	100.7
February	7.71	8.91	12.58	NA	11.49	82.6	9.00	20.6	NA	8.87	101.4
March	8.44	9.49	13.13	NA	12.04	82.6	9.64	21.6	NA	9.53	101.4
April	9.04	9.84	14.49	NA	12.65	80.0	10.06	22.1	NA	10.19	101.9
May	10.15	11.05	16.31	NA	13.51	76.9	11.36	21.4	NA	10.97	101.5
June	10.79	11.85	18.82	NA	14.67	76.6	12.11	20.9	NA	12.41	100.9
July	11.32 8.34	12.48 10.20	20.68 20.08	NA NA	15.64 14.20	73.6 72.5	13.05 10.11	20.7 20.5	NA NA	11.71 8.97	100.3 100.8
August September	6.72	8.99	20.08 18.36	NA NA	13.13	72.5 72.7	9.13	20.5 19.1	NA NA	7.81	100.8
October	5.50	7.80	15.49	NA	12.08	75.6	8.11	19.0	NA NA	6.74	101.1
November	4.75	7.93	13.82	NA	11.72	79.6	7.36	19.6	NA	6.64	101.3
December	5.52	8.16	12.84	NA	11.61	82.1	7.89	20.0	NA	6.90	101.1
Average	7.96	9.18	13.89	97.9	12.23	79.9	9.67	20.5	11.75	9.26	101.1
2009 January	E 5.15	7.98	12.38	NA	11.10	78.2	7.44	19.1	NA	6.59	101.1
February	E 4.19	7.25	R 12.13	NA	10.76	76.8	6.38	R 19.0	NA	5.65	101.3
March	E 3.72	6.83	_ 11.81	NA	R _{10.17}	76.0	_ 5.65	18.5	NA	4.89	102.1
April	E 3.43	5.67	R 11.56	NA	R 9.52	72.4	R 5.05	17.8	NA	4.63	101.6
May	E 3.45	5.47	R 12.50	NA	R 9.18	67.9	4.36	18.1	NA	4.66	101.6
June	E 3.45	5.53	13.83	NA	9.35	66.4	4.46	17.8	NA	4.58	101.1
July	E 3.43	5.68	14.82	NA	9.63	62.2	4.62	17.8	NA	4.43	100.9
August	E 3.14 E 2.92	5.59	15.13 R 14.36	NA NA	9.46 ^R 9.15	59.9	4.30	17.3	NA NA	4.25	100.8
September October	E 3.60	5.34 5.64	11.62	NA NA	8.71	60.9 66.5	3.81 4.81	17.2 16.8	NA NA	3.98 5.01	100.6 102.6
November	E 3.64	6.33	11.02	NA NA	9.20	69.7	5.38	16.8	NA NA	5.00	102.6
December	E 4.44	6.23	10.30	NA NA	8.84	75.1	5.97	R 17.8	NA NA	6.23	100.2
Average	^E 3.71	6.47	11.97	^E 98.0	9.86	72.3	5.28	R 17.8	NA	4.89	101.2
2010 January	E 5.14	R 6.83	10.48	NA	R 9.32	76.3	6.88	^R 17.7	NA	6.97	101.3
February	E 4.89	6.57	10.58	NA	9.33	76.9	6.76	R 17.2	ŇA	6.26	100.5
March	E 4.36	R 6.37	10.86	NA	9.27	74.1	6.05	^R 16.9	NA	5.47	101.0
April	E 3.92	R 5.79	11.78	NA	9.28	68.7	5.07	R 16.9	NA	4.89	100.8
May	E 4.04	R 5.78	12.73	NA	9.12	65.7	5.02	R 17.0	NA	4.94	100.9
June	E 4.25	R 5.97	14.25	NA	9.39	64.3	4.96	R 16.8	NA	5.29	100.6
July	E 4.36	R 6.18	R 15.50	NA	9.81	R 62.8	5.40	17.6	NA	5.33	100.5
August	E 4.22	6.16	15.87	NA	9.69	61.9	5.28	17.2	NA	5.05	100.4
8-Month Average	^E 4.40	6.37	11.36	NA	9.34	72.0	5.73	17.2	NA	5.46	100.7
2009 8-Month Average 2008 8-Month Average	E 3.75 9.12	6.71 9.71	12.37 13.88	NA NA	10.28 12.39	73.2 80.4	5.39 10.35	18.2 21.1	NA NA	4.85 10.26	101.2 101.0

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b See Note 9, "Natural Gas Prices," at end of section.
c Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
d Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 2001, data are for electric utilities only, beginning in 2002, data also include independent power producers. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.
Includes taxes.

⁹ The percentage of the sector's consumption in Table 4.3 for which price data are available. For details on how the percentages are derived, see Table 9.11 Sources at end of section.

^h Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the cost of gas in the operation of fleet vehicles.
i Percentages exceed 100 percent when reported natural gas receipts are

greater than reported natural gas consumption—this can occur when combined-heat-and-power plants report fuel receipts related to non-electric

combined-heat-and-power plants report fuel receipts related to non-electric generating activities.

R=Revised. NA=Not available. E=Estimate.

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 9, "Natural Gas Prices," at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eig.nov/empsi/mpr/grices.html for all available data.

Web Page: See http://www.eia.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: See end of section.

Energy Prices

Note 1. Crude Oil Refinery Acquisition Costs. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on U.S. Energy Information Administration (EIA) Form EIA-14, "Refiners' Monthly Cost Report." Those costs were previously published from data collected on Economic Regulatory Administration (ERA) Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report." Form ERA-49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for Form EIA-14 in accordance with conventions used for Form ERA-49. The respondents for the two forms are also essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken when comparing the data collected on the two forms.

The refiner acquisition cost of crude oil is the average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1331. Imported crude oil is either that oil reported on Form ERA-51, "Transfer Pricing Report," or any crude oil that is not domestic oil. The composite cost is the weighted average of domestic and imported crude oil costs.

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on Federal Energy Administration (FEA) Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," included unfinished oils but excluded SPR. Imported averages derived from Form ERA-49 exclude oil purchased for SPR, whereas the composite averages derived from Form ERA-49 include SPR. None of the prices derived from Form EIA-14 include either unfinished oils or SPR.

Note 2. Crude Oil Domestic First Purchase Prices. The average domestic first purchase price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the price represented an estimate of the average of posted prices; beginning with February 1976, the price represents an average of actual first purchase prices. The data series was previously called "Actual Domestic Wellhead Price."

Note 3. Crude Oil F.O.B. Costs. F.O.B. literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.

Note 4. Crude Oil Landed Costs. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to April 1975,

imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in April 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

Note 5. Motor Gasoline Prices. Several different series of motor gasoline prices are published in this section. U.S. city average retail prices of motor gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. From 1974–1977, prices were collected in 56 urban areas. From 1978 forward, prices are collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner prices of finished motor gasoline for resale and to end users are determined by the EIA in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on Form FEA-P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for resale are those made to purchasers who are other-than-ultimate consumers. Sales to end users are sales made directly to the consumers of the product, including bulk consumers (such as agriculture, industry, and utilities) and residential and commercial consumers.

Note 6. Historical Petroleum Prices. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous series were generated for annual data 1978-1982 and for monthly data 1981 and 1982 by estimating the prices that would have been published had Form EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment was made for product and sales type matching and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale and between retail and end user. The resale category continues to include sales among resellers. However, sales to bulk consumers, such as utility, industrial, and commercial accounts previously included in the wholesale category, are now counted as made to end users. The end-user category continues to include retail sales through company-owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article by Paula Weir, printed in the December 1983 [3] *Petroleum Marketing Monthly*, published by EIA.

Note 7. Electricity Retail Prices. Average annual retail prices of electricity have the following plant coverage: Through 1979, annual data are for Classes A and B privately owned electric utilities only. For 1980–1982, annual data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, annual data are for a selected sample of electric utilities. Beginning in 1984, data are for a census of electric utilities. Beginning in 1996, annual data also include energy service providers selling to retail customers.

Average monthly retail prices of electricity have the following plant coverage: Through 1985, monthly data are derived from selected privately owned electric utilities and, therefore, are not national averages. Beginning in 1986, monthly data are based on a sample of publicly and privately owned electric utilities. Beginning in 1996, monthly data also include energy service providers selling to retail customers.

Preliminary monthly data are from Form EIA-826, "Monthly Electric Sales and Revenue Report With State Distributions Report," which is a monthly collection of data from approximately 450 of the largest publicly and privately owned electric utilities as well as a census of energy service providers with retail sales in deregulated States; a model is then applied to the collected data to estimate for the entire universe of U.S. electric utilities. Preliminary annual data are the sum of the monthly revenues divided by the sum of the monthly sales. When final annual data become available each year from Form EIA-861, "Annual Electric Power Industry Report," their ratios to the preliminary Form EIA-826 values are used to derive adjusted final monthly values.

Note 8. Costs of Fossil-Fuel Receipts at Electric Generating Plants. Data for 1973–1982 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974–1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983–1990 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991–2001 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50

megawatts or greater. Data for 2002 forward cover the aforementioned regulated generating plants plus unregulated generating plants (independent power producers, as well as combined-heat-and-power generating plants and electricity-only plants in the commercial and industrial sector) whose total facility fossil-fueled nameplate generating capacity is 50 or more megawatts, regardless of unit type.

Note 9. Natural Gas Prices. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Deliveredto-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, vehicle fuel, and electric power consumers. They do not include the price of natural gas delivered on behalf of third parties to residential, commercial, industrial, and vehicle fuel customers except for certain States in the residential and commercial sectors for 2002 forward. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.3. Additional information is available in the EIA *Natural Gas Monthly*, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: Federal Energy Administration, based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report." 1978–2009: U.S. Energy Information Administration (EIA), *Petroleum Marketing Annual* 2009, Table 1.

2010: EIA, *Petroleum Marketing Monthly*, November 2010, Table 1.

F.O.B. and Landed Cost of Imports

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."

October–December 1977: EIA, Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 1

2010: EIA, *Petroleum Marketing Monthly*, November 2010, Table 1.

Refiner Acquisition Cost

1973: EIA estimates. The domestic price was derived by adding estimated transportation costs to the reported domestic first purchase price. The imported price was derived by adding an estimated ocean transport cost to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census.

1974–1976: DOI, BOM, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: January–September, FEA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report." October–December, EIA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 1.

2010: EIA, *Petroleum Marketing Monthly*, November 2010, Table 1.

Table 9.2 Sources

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." October 1977–December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2009: EIA, Petroleum Marketing Annual 2009, Table

2010: EIA, *Petroleum Marketing Monthly*, November 2010. Table 21.

Table 9.10 Sources

1973–September 1977: Federal Power Commission, Form FPC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

October 1977–December 1977: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1978 and 1979: U.S. Energy Information Administration (EIA), Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1980–1989: EIA, Electric Power Monthly, May issues.

1990–2000: EIA, *Electric Power Monthly*, March 2003, Table 26.

2001–2007: EIA, *Electric Power Monthly*, October 2008, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: EIA, *Electric Power Monthly*, November 2010, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.11 Sources

All Prices Except Vehicle Fuel and Electric Power

1973–2002: U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports.

2003 forward: EIA, *Natural Gas Monthly (NGM)*, October 2010, Table 3.

Vehicle Fuel Price

EIA, NGA, annual reports.

Electric Power Sector Price

1973-1998: EIA, NGA 2000, Table 96.

1999-2002: EIA, NGM, October 2004, Table 4.

2003–2007: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: Form EIA-923, "Power Plant Operations Report."

Percentage of Residential Sector

1989–2008: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

2009: Estimated by EIA as the average of the three previous annual values.

Percentage of Commercial Sector

1987–2002: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to commercial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to commercial consumers.

2003 forward: EIA, NGM, October 2010, Table 3.

Percentage of Industrial Sector

1982–2002: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers.

2003 forward: EIA, NGM, October 2010, Table 3.

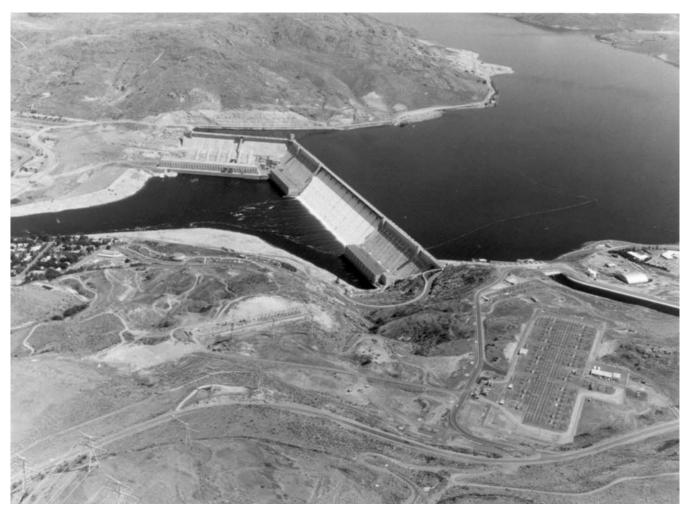
Percentage of Electric Power Sector

1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973-1988, see *Monthly Energy Review*, Table 7.3b; for 1989-2001, see *Monthly Energy Review*, Table 7.4b).

2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed by the electric power sector (see *Monthly Energy Review*, Table 7.4b).

2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see *Monthly Energy Review*, Table 7.4b).

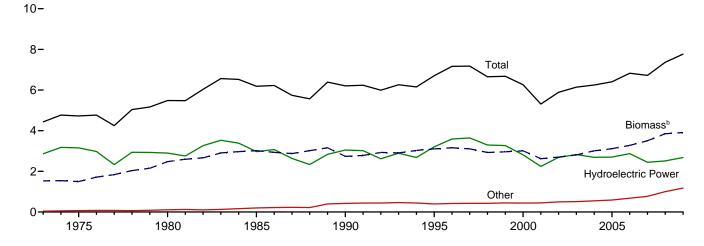
Renewable Energy



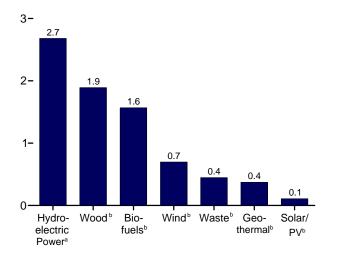
Grand Coulee Dam, Washington State. Source: U.S. Bureau of Reclamation.

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

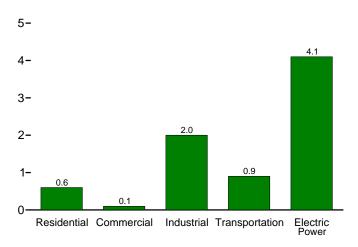
Total and Major Sources, 1973-2009



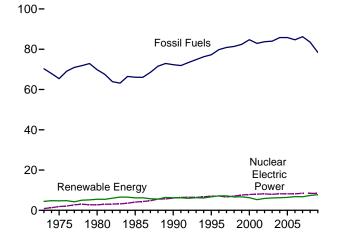
By Source, 2009



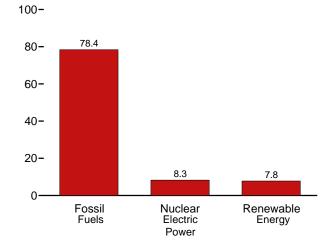
By Sector, 2009



Compared With Other Resources, 1973-2009



Compared With Other Resources, 2009



Web Page: http://www.eia.gov/emeu/mer/renew.html. Sources: Tables 1.3 and 10.1-10.2c.

[°]Conventional hydroelectric power. bSee Table 10.1 for definition. °Geothermal, solar/PV, and wind.

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	a					Consumpti	on			
	Bior	mass	Total	Usedna					Bion	nass		Total
	Bio- fuels ^b	Total ^c	Renew- able Energy ^d	Hydro- electric Power ^e	Geo- thermal ^f	Solar/ PV ⁹	Wind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	Renew- able Energy
1973 Total	NA	1,529	4,433	2,861	43	NA	NA	1,527	2	NA	1,529	4,433
1975 Total	NA	1,499	4,723	3,155	70	NA	NA	1,497	2	NA	1,499	4,723
1980 Total	NA	2,475	5,485	2,900	110	NA	NA	2,474	2	NA	2,475	5,485
1985 Total	93	3,016	6,185	2,970	198	(s)	(s)	2,687	236	93	3,016	6,185
1990 Total	111	2,735	6,206	3,046	336	60	29	2,216	408	111	2,735	6,206
1995 Total	198 141	3,099 3,155	6,701 7,165	3,205 3,590	294 316	70 71	33 33	2,370 2,437	531 577	200 143	3,101 3,157	6,703 7,166
1996 Total1997 Total	186	3,108	7,103	3,640	325	70	33 34	2,437	57 <i>1</i> 551	184	3,105	7,100
1998 Total	202	2,929	6.655	3,297	328	70	31	2,184	542	201	2,928	6.654
1999 Total	211	2,965	6,678	3,268	331	69	46	2,214	540	209	2,963	6,677
2000 Total	233	3,006	6,257	2,811	317	66	57	2,262	511	236	3,008	6,260
2001 Total	254	2,624	5,312	2,242	311	65	70	2,006	364	253	2,622	5,311
2002 Total	308	2,705	5,892	2,689	328	64	105	1,995	402	303	2,701	5,888
2003 Total	402	2,805	6,139	2,825	331	64	115	2,002	401	404	2,807	6,141
2004 Total	487	2,998	6,235	2,690	341	64	142	2,121	389	500	3,010	6,247
2005 Total	564	3,104	6,393	2,703	343	66	178	2,136	403	577	3,117	6,406
2006 Total	720	3,226	6,774	2,869	343	72	264	2,109	397	771	3,277	6,824
2007 Total	978	3,489	6,706	2,446	349	81	341	2,098	413	991	3,503	6,719
2008 January	101	331	615	205	29	8	42	194	36	97	327	611
February	97	300	557	185	27	7	38	168	35	96	300	557
March	109	321	621	214	30	8	47	174	38	102	314	613
April	107	314	622	219	30	8	51	170	36	107	313	622
May	117	324 313	684	268 288	31 30	8 8	53 51	171	36	113 110	320 312	680
June July	111 120	330	690 661	252	30 31	9	39	167 173	35 37	120	330	689 661
August	126	334	614	209	31	9	32	173	36	125	332	613
September	122	319	547	159	30	8	31	163	34	123	320	548
October	126	330	568	152	31	8	47	168	36	127	332	570
November	126	327	568	154	30	8	49	165	37	124	325	566
December	125	323	632	206	31	8	65	161	37	128	326	636
Total	1,387	3,867	7,381	2,511	360	97	546	2,044	436	1,372	3,852	7,366
2009 January	120	316	651	235	32	9	59	159	38	115	311	646
February	111	289	559	176	29	8	56	146	33	102	281	550
March	120	316	640	214	33	9	68	154	42	118	314	638
April	116	301	662	250	30	9	72	148	36	120	305	666
May	126	316	706	290	31	10 9	60	152	37	131	320	710
June	127 139	317 342	697 655	287 226	30 31	10	53 46	152 165	38 38	129 139	319 342	699 655
July August	141	348	630	189	31	10	52	169	38	141	348	630
September	136	329	582	170	31	9	43	157	36	134	327	580
October	144	343	640	194	31	9	62	163	36	145	344	640
November	149	346	656	206	32	9	63	161	36	144	341	651
December	154	359	707	244	33	9	62	166	38	148	353	701
Total	1,583	3,921	7,782	2,682	373	109	697	1,891	447	1,567	3,905	7,766
2010 January	151	353	674	217	33	9	63	164	37	145	346	668
February	140	322	610	201	29	8	50	149	33	135	317	606
March	157	359	682	203	31	9	81	165	37	152	354	677
April	149	343	659	183	30	9	94	157	37	148	343	658
May	156	354	723	244	32	10	83	160	38	155	352	721
June	152	350	756 704	289	31	10	77 64	161	37	155	353	759 707
July	158 160	362 364	704 667	237 194	32 33	10 10	64 65	166 167	37 37	161 161	365 365	707 668
August 8-Month Total	1,223	2,806	5,476	1,768	33 251	74	577	1,290	293	1,212	2, 794	5,465
G-WICHTHI TOTAL	1,223	2,000	3,410	1,700	231	/4	311	1,230	233	1,414	2,134	3,403
2009 8-Month Total 2008 8-Month Total	1,000 889	2,544 2,568	5,198 5,065	1,868 1,839	247 239	73 65	467 354	1,244 1,388	300 291	996 870	2,540 2,549	5,194 5,046

a Production equals consumption for all renewable energy sources except biofuels.

^j Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

k Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and

co-products from the production of fuel ethanol and biodiesel. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," at end of section.

 Totals may not equal sum of components due to independent rounding.
 Geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.gov/emeu/mer/renew.html for all available data beginning in 1973.

Sources: Tables 10.2a-10.4.

Total biomass inputs to the production of fuel ethanol and biodiesel.

^c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.

d Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and

biomass.

Conventional hydroelectricity net generation (converted to Btu using the

fossil-fueled plants heat rate).

Geothermal electricity net generation (converted to Btu using the geothermal

energy plants heat rate), and geothermal heat pump and direct use energy.

^g Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy.

^h Wind electricity net generation (converted to Btu using the fossil-fueled plants

heat rate).

Wood and wood-derived fuels.

Table 10.2a Renewable Energy Consumption: Residential and Commercial Sectors (Trillion Btu)

		Residenti	al Sector					Commerci	al Sector ^a			
			Biomass		Ultraduca				Bio	mass		
	Geo- thermal ^b	Solar/ PV ^c	Woodd	Total	Hydro- electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Woodd	Waste ^g	Fuel Ethanol ^h	Total	Total
1973 Total	NA	NA	354	354	NA	NA	NA	7	NA	NA	7	7
1975 Total	NA	NA	425	425	NA	NA	NA	8	NA	NA	8	8
1980 Total	NA	NA	850	850	NA	NA	NA	21	NA	NA	21	21
1985 Total	NA	NA	1,010	1,010	NA	NA	NA	24	NA	(s)	24	24
1990 Total	6	56	580	641	1	3	_	66	28	(s)	94	98
1995 Total	7	65	520	591	1	5	_	72	40	(s)	113	118
1996 Total	7	65	540	612	1	5	_	76	53	(s)	129	135
1997 Total	8	65	430	503	1	6	_	73	58	(s)	131	138
1998 Total	8	65	380	452	1	7	_	64	54	(s)	118	127
1999 Total	9	64	390	462	1	7	_	67	54	(s)	121	129
2000 Total	9	61	420	490	1	8	_	71	47	(s)	119	128
2001 Total	9	60	370	439	i i	8	_	67	25	(s)	92	101
2002 Total	10	59	380	449	(s)	9	_	69	26	(s)	95	104
2003 Total	13	58	400	471	1	11	_	71	29	1	101	113
2004 Total	14	59	410	483	1	12	_	70	34	i	105	118
2005 Total	16	61	430	507	1	14	_	70	34	1	105	119
	18	67	390	475	1	14		65	36	1	103	117
2006 Total					1		_					
2007 Total	22	75	430	527	1	14	-	69	31	2	102	118
2008 January	2	7	38	48	(s)	1	(s)	6	3	(s)	9	10
February	2	7	36	45	(s)	1	(s)	6	3	(s)	9	10
March	2	7	38	48	(s)	1	(s)	6	3	(s)	9	10
April	2	7	37	46	(s)	1	(s)	6	3	(s)	9	10
May	2	7	38	48	(s)	1	(s)	6	3	(s)	9	11
June	2	7	37	46	(s)	1	(s)	6	3	(s)	9	10
July	2	7	38	48	(s)	1	(s)	6	3	(s)	9	11
August	2	7	38	48	(s)	1	(s)	6	3	(s)	9	11
September	2	7	37	46	(s)	1	(s)	6	3	(s)	9	10
October	2	7	38	48	(s)	i	(s)	6	3	(s)	9	10
November	2	7	37	46	(s)	i	(s)	6	3	(s)	9	10
December	2	7	38	48		1	(s)	6	3	(s)	9	11
Total	26	88	450	565	(s) 1	15	(s)	73	34	2	109	125
	0	0	07	40	(-)	4	. ,	0	0	(-)	0	44
2009 January	3	9	37	48	(s)	1	0	6	3	(s)	9	11
February	3	8	33	43	(s)	1	(s)	6	2	(s)	8	9
March	3	9	37	48	(s)	1	(s)	6	4	(s)	10	12
April	3	8	35	46	(s)	1	(s)	6	3	(s)	9	10
May	3	9	37	48	(s)	1	(s)	6	3	(s)	9	11
June	3	8	35	46	(s)	1	(s)	6	3	(s)	9	10
July	3	9	37	48	(s)	1	(s)	6	3	(s)	9	10
August	3	9	37	48	(s)	1	(s)	6	3	(s)	9	11
September	3	8	35	46	(s)	1	(s)	6	3	(s)	9	10
October	3	9	37	48	(s)	1	(s)	6	2	(s)	9	10
November	3	8	35	46	(s)	1	(s)	6	3	(s)	9	10
December	3	9	37	48	(s)	1	`ó	6	3	(s)	9	11
Total	33	101	430	563	1	17	(s)	72	34	2	108	125
2010 January	3	9	37	48	(s)	1	0	6	3	(s)	9	11
February	3	8	33	43	(s)	i	(s)	6	2	(s)	8	10
March	3	9	33 37	43 48	(s)	1	(s)	6	3	(s)	9	10
	3	8	37 35	46 46		1		6	3		9	10
April					(s)	1	(s)			(s)	-	
May	3	9	37	48	(s)	•	(s)	6	3	(s)	10	11
June	3	8	35	46	(s)	1	(s)	6	3	(s)	9	11
July	3	9	37	48	(s)	1	(s)	6	3	(s)	9	11
August	3	9	37	48	(s)	1	(s)	6	3	(s)	9	11
8-Month Total	22	67	286	375	1	11	(s)	48	23	2	72	84
2009 8-Month Total	22	67	286	375	1	11	(s)	48	23	2	72	84
2008 8-Month Total	18	59	300	376	(s)	10	(s)	49	23	1	73	83

^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b Geothermal heat nums and directure appears.

agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

Geothermal heat pump and direct use energy.

C Solar thermal direct use energy, and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fueled plants heat rate). Includes small amounts of distributed solar thermal and PV energy used in the commercial, industrial, and electric power sectors.

d Wood and wood-derived fuels.

^e Conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate).

f Photovoltaic (PV) electricity net generation (converted to Btu using the

fossil-fueled plants heat rate) at commercial plants with capacity of 1 megawatt

or greater. $$^{\rm g}$$ Municipal solid waste from biogenic sources, landfill gas, sludge waste,

The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the commercial sector.

NA=Not available. - =No data reported. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes: • Data are estimates, except for commercial sector solar/PV, hydroelectric power, and waste. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/renew.html for all available data beginning in 1973.

Sources: See end of section.

Table 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors (Trillion Btu)

				Industria	al Sectora				Trans	sportation S	ector
					Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^C	Wood ^d	Waste ^e	Fuel Ethanol ^f	Losses and Co- products ^g	Total	Total	Fuel Ethanol ^h	Bio- diesel ⁱ	Total
1973 Total	35 32 33 33 31 55 61 58 55 49 42 33 39 43 32 29	NA NA NA 2 3 3 3 4 4 4 5 5 5 3 4 4 4 5 5	1,165 1,063 1,600 1,645 1,442 1,652 1,683 1,731 1,603 1,620 1,636 1,443 1,396 1,363 1,476 1,472 1,472	NA NA NA 230 192 195 224 184 180 171 145 129 146 142 132 148 130	NA NA NA 1 1 2 1 1 1 1 1 1 1 3 3 3 4 6 6 7 10 10	NA NA NA 42 49 86 61 80 86 90 99 108 130 169 203 230 285 377	1,165 1,063 1,060 1,918 1,684 1,934 1,996 1,872 1,882 1,881 1,676 1,676 1,679 1,817 1,837 1,897 1,944	1,200 1,096 1,633 1,951 1,717 1,992 2,033 2,057 1,929 1,934 1,928 1,719 1,720 1,726 1,853 1,873 1,930 1,964	NA NA NA 50 60 113 81 102 113 118 135 141 168 228 286 328 442 557	NA NA NA NA NA NA NA 1 2 2 3 12 33 46	NA NA NA 50 60 113 81 102 113 118 135 142 170 230 290 339 475 603
2008 January	2 2 2 2 1 1 1 1 1 1 1 2 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	134 112 114 114 114 109 112 110 105 110 107 100 1,344	12 13 13 12 12 11 12 11 11 12 12 13	1 1 1 1 1 1 1 1 1 1 1 1 1 1	39 37 42 41 45 42 46 48 46 48 49 532	185 163 170 168 172 163 171 171 163 172 169 163 2,031	188 165 172 171 174 165 172 172 165 173 170 165 2,053	54 55 57 63 65 65 69 70 70 73 69 75 786	4 3 2 2 2 1 4 5 5 5 5 4 40	57 58 59 65 67 67 73 75 75 78 74 78
2009 January February March April May June July August September October November December Total	2 1 2 2 2 2 1 1 1 1 1 2 1 1 2 1 1 1 1 2 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	100 93 98 95 97 96 106 110 102 108 107 1,217	14 12 14 13 13 13 14 13 13 13 13 14 160	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46 43 48 46 50 50 54 55 53 56 60 617	161 149 161 155 161 160 175 180 169 178 177 181 2,007	163 150 163 157 163 162 177 181 171 180 178 183 2,029	67 58 67 70 77 75 80 81 75 82 81 82 894	(s) (s) 3 3 2 3 3 4 6 6 4 4 5 40	67 58 70 73 79 78 83 85 80 88 85 87 934
2010 January	2 2 2 2 2 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s)	105 96 107 102 104 105 108 108 834	14 12 13 13 14 13 14 14 14	1 1 1 1 1 1 1 1 1	59 55 62 59 62 60 62 63 481	180 164 183 175 180 179 185 186 1,432	182 166 185 177 182 181 187 187	83 76 87 85 89 91 94 94	1 4 2 3 2 2 3 2 19	84 79 89 88 92 93 97 96 718
2009 8-Month Total 2008 8-Month Total	13 12	3 3	795 921	106 95	9 7	392 340	1,302 1,364	1,318 1,379	575 499	19 22	594 521

^a Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
^b Conventional hydroelectricity net generation (converted to Btu using the

production of fuel ethanol and biodiesel-these are included in the industrial sector consumption statistics for the appropriate energy source.

^h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and

Notes: • Data are estimates, except for industrial sector hydroelectric power in 1973-1978 and 1989 forward. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia

Web Page: See http://www.eia.gov/emeu/mer/renew.html for all available data beginning in 1973.

fossil-fueled plants heat rate).

Geothermal heat pump and direct use energy.
 Wood and wood-derived fuels.

e Municipal solid waste from biogenic sources, landfill gas, sludge waste, withclast solid waste from biogenic sources, fartifiling as, studge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

f The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

consumed by the industrial sector.

⁹ Losses and co-products from the production of fuel ethanol and biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the

E85, consumed by the transportation sector.

i "Biodiesel" is any liquid biofuel suitable as a diesel fuel substitute, additive, or extender. See "Biodiesel" in Glossary.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro-	Geo-				Biomass		
	electric Power ^a	thermal ^b	Solar/PV ^c	Wind ^d	Woode	Waste ^f	Total	Total
1973 Total	2,827	43	NA	NA	1	2	3	2,873
1975 Total	2,627 3,122	43 70	NA NA	NA NA	(s)	2	2	2,673 3,194
1980 Total	2.867	110	NA NA	NA NA	3	2	4	2,982
1985 Total	2,937	198	(s)	(s)	8	7	14	2,962 3,150
	3,014	326	<u>(s)</u>	29	129	188	317	3,689
1990 Total 9	3,014	280	5	33	125	296	422	3,889
1995 Total	3,149	300	5	33	138	300	438	4,305
1996 Total			5					
1997 Total	3,581	309	5 5	34	137	309	446	4,375
1998 Total	3,241	311	5 5	31	137	308	444	4,032
1999 Total	3,218	312		46	138	315	453	4,034
2000 Total	2,768	296	5	57	134	318	453	3,579
2001 Total	2,209	289	6	70	126	211	337	2,910
2002 Total	2,650	305	6	105	150	230	380	3,445
2003 Total	2,781	303	5	115	167	230	397	3,601
2004 Total	2,656	311	6	142	165	223	388	3,503
2005 Total	2,670	309	6	178	185	221	406	3,568
2006 Total	2,839	306	5	264	182	231	412	3,827
2007 Total	2,430	308	6	341	186	237	423	3,508
2008 January	203	26	(s)	42	16	21	37	308
February	184	23	(s)	38	15	20	35	279
March	212	26	1	47	15	23	38	324
April	217	26	1	51	13	21	34	330
May	267	27	1	53	13	21	34	381
June	286	27	1	51	14	22	36	401
July	251	27	1	39	16	23	39	357
August	208	27	1	32	16	22	38	307
September	158	26	1	31	15	21	36	252
October	151	27	1	47	14	21	35	261
November	153	26	(s)	49	15	21	36	265
December	204	27	(s)	65	16	22	38	334
Total	2,494	314	`9 ´	546	177	258	435	3,798
2009 January	233	28	(s)	59	16	20	36	356
February	175	25	(s)	56	14	19	33	289
March	212	28	ìí	68	13	24	37	346
April	249	25	1	72	12	21	33	379
May	288	26	1	60	13	21	34	409
June	285	26	1	53	15	22	37	402
July	225	27	1	46	15	22	37	336
August	188	27	1	52	16	22	38	305
September	169	26	1	43	13	20	34	273
October	192	27	i	62	13	20	33	315
November	205	27	(s)	63	14	20	35	330
December	242	28	(s)	62	17	22	39	371
Total	2,663	320	8	697	173	253	426	4,113
2010 January	216	28	(s)	63	17	20	37	344
February	200	25	(s)	50	15	18	33	308
March	201	26	1	81	15	21	37	345
April	181	26	1	94	14	21	35	336
May	243	27	1	83	13	20	34	388
	287	27 27	1	77	15	20	36	428
June	236	27 27	1	64	16	20 21	36 37	365
July	236 193	27 28	2	64 65		21	37 38	365 326
August 8-Month Total	193 1,756	28 215	2 7	577	17 122	21 164	285	326 2,841
	•							•
2009 8-Month Total 2008 8-Month Total	1,854 1,827	211 208	6 7	467 354	115 118	170 173	286 291	2,824 2,686

^a Conventional hydroelectricity net generation (converted to Btu using the Convented to Bid using the fossil-fueled plants heat rate).

^b Geothermal electricity net generation (converted to Biu using the geothermal

tire-derived fuels).

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/renew.html for all available data beginning in 1973.

Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

energy plants heat rate).

^c Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu

using the plants heat rate).

^d Wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate).

Wood and wood-derived fuels.

f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

Table 10.3 Fuel Ethanol Overview

	Feed- stock ^a	Losses and Co- products ^b	Dena- turant ^c	Pı	roduction	I	Trade ^d Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,9}	Coi	nsumption	n d	Consump- tion Minus Denaturant ^h
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1981 Total	13	6	40	1,978	83	7	NA	NA	NA	1,978	83	7	7
1985 Total	93	42	294	14,693	617	52	NA	NA	NA	14,693	617	52	51
1990 Total	111	49	356	17,802	748	63	NA	NA	NA	17,802	748	63	62
1995 Total	198	86	647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
1996 Total	141	61	464	23,178	973	83	313	2,065	-121	23,612	992	84	82
1997 Total	186	80	613	30,674	1,288	109	85	2,925	860	29,899	1,256	107	104
1998 Total 1999 Total 2000 Total	202 211 233 253	86 90 99 108	669 698 773 841	33,453 34,881 38,627 42,028	1,405 1,465 1,622 1,765	119 124 138 150	66 87 116 315	3,406 4,024 3,400 4,298	481 618 -624 898	33,038 34,350 39,367 41,445	1,388 1,443 1,653 1,741	118 122 140 148	115 119 137 144
2001 Total 2002 Total 2003 Total 2004 Total	307 400 484	130 169 203	1,019 1,335 1,621	50,956 66,772 81,058	2,140 2,804 3,404	182 238 289	306 292 3,542	6,200 5,978 6,002	1,902 -222 24	49,360 67,286 84,576	2,073 2,826 3,552	176 240 301	171 233 293
2005 Total	552	230	1,859	92,961	3,904	331	3,234	5,563	-439	96,634	4,059	344	335
2006 Total	688	285	2,326	116,294	4,884	414	17,408	8,760	3,197	130,505	5,481	465	453
2007 Total	914	376	3,105	155,263	6,521	553	10,457	10,535	1,775	163,945	6,886	584	569
2008 January	94	38	321	16,058	674	57	510	11,383	848	15,720	660	56	55
February	91	37	311	15,527	652	55	505	11,173	-210	16,242	682	58	56
March	103	42	351	17,527	736	62	368	12,288	1,115	16,780	705	60	58
April	101	41	343	17,152	720	61	1,491	12,572	284	18,359	771	65	64
May	110	45	375	18,756	788	67	962	13,297	725	18,993	798	68	66
June	103	42	353	17,651	741	63	1,571	13,323	26	19,196	806	68	67
July	112	46	381	19,040	800	68	1,459	13,448	125	20,374	856	73	71
August	118	48	401	20,059	842	71	1,931	14,771	1,323	20,667	868	74	72
September	113	46	387	19,338	812	69	2,466	16,110	1,339	20,465	860	73	71
October	118	48	401	20,048	842	71	606	15,214	-896	21,550	905	77	75
November	118	48	403	20,139	846	72	278	15,286	72	20,345	854	72	71
December	119	49	407	20,342	854	72	463	14,226	-1,060	21,865	918	78	76
Total	1,300	531	4,433	221,637	9,309	790	12,610	14,226	3,691	230,556	9,683	821	800
2009 January February	114 106 117	46 43	403 409	19,561 18,255	822 767	70 65	388 56 79	14,514 15,834	288 1,320	19,661 16,991	826 714	70 61 70	68 59
March April May	117 113 123 123	48 46 50 50	452 427 459 455	20,121 19,374 21,024 21,125	845 814 883 887	72 69 75 75	166 507 705	16,411 15,322 14,173 13,974	577 -1,089 -1,149 -199	19,623 20,629 22,680 22,029	824 866 953 925	70 74 81 78	68 71 79 76
June July August September	133 135 129	54 55 53	503 494 479	22,887 23,136 22,218	961 972 933	82 82 79	960 983 310	14,223 14,671 15,283	249 448 612	23,598 23,671 21,916	923 991 994 920	84 84 78	82 82 76
October November December	137	55	515	23,467	986	84	269	14,933	-350	24,086	1,012	86	83
	141	57	523	24,122	1,013	86	285	15,578	645	23,762	998	85	82
	146	59	569	25,134	1.056	90	12	16,594	1.016	24.130	1.013	86	83
Total	1,517	616	5,688	260,424	10,938	928	4,720	16,594	2,368	262,776	11,037	936	910
2010 January	147	59	533	25,366	1,065	90	34	17,800	ⁱ 1,089	24,311	1,021	87	84
February	135	55	488	23,328	980	83	27	18,897	1,097	22,258	935	79	77
March	153	62	527	26,270	1,103	94	27	19,691	794	25,503	1,071	91	88
April	145	58	512	24,962	1,048	89	36	19,682	-9	25,007	1,050	89	87
May	152	61	534	26,244	1,102	94	39	19,721	39	26,244	1,102	94	91
June	149	60	521	25,631	1,077	91	40	18,610	-1,111	26,782	1,125	95	93
July	154	62	540	26,581	1,116	95	18	17,784	-826	27,425	1,152	98	95
August	157	63	538	26,963	1,132	96	10	17,340	-444	27,417	1,152	98	95
8-Month Total	1,193	481	4,193	205,345	8,624	732	231	17,340	629	204,947	8,608	730	711
2009 8-Month Total	964	391	3,602	165,483	6,950	590	3,844	14,671	445	168,882	7,093	602	585
2008 8-Month Total	831	340	2,835	141,770	5,954	505	8,797	14,771	4,236	146,331	6,146	521	508

^a Total corn and other biomass inputs to the production of undenatured ethanol used for fuel ethanol.

under "Stocks."

NA=Not available.

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by the approximate heat content of fuel ethanol—see Table A3. • Through 1980, data are not available. For 1981-1992, data are estimates. For 1993-2008, only data for losses and co-products, and denaturant are Beginning in 2009, only data for feedstock, and losses and co-products, are estimates. • See "Denaturant," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus Denaturant" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/renew.html for all available data beginning in 1981. Sources: See end of section.

^b Losses and co-products from the production of fuel ethanol. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol—these are included in the industrial sector consumption statistics for the appropriate energy source.

The amount of denaturant in fuel ethanol produced.

d Includes denaturant.

Fuel ethanol imports only. Data for fuel ethanol exports are not available.

Stocks are at end of period.

⁹ A negative value indicates a decrease in stocks and a positive value indicates

an increase.

h Consumption of fuel ethanol minus denaturant. Data for fuel ethanol minus

'arralage data for "Renewable Energy/Biomass" in Tables denaturant are used to develop data for "Renewable Energy/Biomass" in Tables 10.1-10.2b, as well as in Sections 1 and 2.

Derived from the preliminary December 2009 stocks value (16,711 thousand

barrels), not the final December 2009 value (16,594 thousand barrels) that is shown

Table 10.4 Biodiesel Overview

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	P	roduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	onsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total	1 1 2 4 12 32 63	(s) (s) (s) (s) (s) (s)	204 250 338 666 2,162 5,963 11,662	9 10 14 28 91 250 490	1 1 2 4 12 32 62	78 191 94 97 207 1,069 3,342	39 56 110 124 206 828 6,477	39 135 -16 -26 1 242 -3,135	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA NA	243 385 322 640 2,163 6,204 8,528	10 16 14 27 91 261 358	1 2 2 3 12 33 46
Pebruary February March April May June July August September October November December Total	7 6 6 7 7 8 9 9 8 8 8 8 8 8	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1,197 1,074 1,188 1,268 1,292 1,445 1,604 1,623 1,501 1,465 1,438 1,052 16,145	50 45 50 53 54 61 67 68 63 62 60 44 678	6 6 7 7 8 9 9 8 8 8 8 6	598 838 274 688 513 512 526 907 908 721 612 404 7,502	1,100 1,384 1,172 1,592 1,364 1,758 1,421 1,606 1,452 1,333 1,181 766 16,128	-501 -546 -898 -904 -850 -1,246 -894 -699 -544 -612 -569 -362 -8,626	NA NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA	695 528 290 364 442 198 710 923 957 853 869 689 7,519	29 22 12 15 19 8 30 39 40 36 36 29 316	4 3 2 2 2 1 4 5 5 5 5 4 40
Pebruary February March April May June July August September October November December Total	5 4 3 3 4 4 6 6 6 7 8 8 65		1,011 780 599 624 689 761 1,030 1,070 1,158 1,364 1,511 1,455 12,054	42 33 25 26 29 32 43 45 49 57 63 61 506	5 4 3 3 4 4 6 6 6 7 8 8 65	261 158 383 52 117 138 58 126 123 159 105 165 1,844	1,150 1,166 203 154 417 366 581 397 224 424 819 431 6,332	-889 -1,009 180 -102 -300 -228 -523 -271 -101 -265 -714 -265 -4,489	664 424 665 632 600 581 511 511 527 553 531 711 711	664 -240 241 -33 -32 -19 -70 0 16 26 -22 180 711	621 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	79 73 538 554 421 552 576 799 1,041 1,074 819 1,010 7,537	3 23 23 18 23 24 34 44 45 34 42 317	(s) (s) 3 3 2 3 4 6 6 4 5
2010 January	4 4 4 4 3 3 3 30	(s) (s) (s) (s) (s) (s) (s) (s)	764 797 812 735 688 554 670 543 5,563	32 33 34 31 29 23 28 23 234	4 4 4 4 3 4 3 3 30	41 31 60 45 80 54 32 52 395	296 139 433 227 251 304 199 225 2,074	-256 -108 -374 -182 -171 -249 -167 -173 -1,680	834 844 969 931 1,060 968 830 771 771	9328 10 125 -38 129 -92 -138 -59 265	0 0 0 0 0 0	181 679 314 591 387 397 641 429 3,619	8 29 13 25 16 17 27 18 152	1 4 2 3 2 2 3 2 19
2009 8-Month Total 2008 8-Month Total	36 58	(s) 1	6,565 10,691	276 449	35 57	1,291 4,856	4,434 11,396	-3,143 -6,539	511 NA	511 NA	682 NA	3,593 4,151	151 174	19 22

^a Total vegetable oil and other biomass inputs to the production of biodiesel.

under "Stocks."

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A3). • Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/renew.html for all available data beginning in 2001.

b Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

Net imports equal imports minus exports.

d Stocks are at end of period.

^e A negative value indicates a decrease in stocks and a positive value indicates an increase.

Beginning in 2009, because of incomplete data coverage and different data

sources, "Balancing Item" is used to balance biodiesel supply and disposition.

⁹ Derived from the preliminary December 2009 stocks value (506 thousand barrels), not the final December 2009 value (711 thousand barrels) that is shown

Renewable Energy

Note. Renewable Energy Production and Consump-

tion. In Table 10.1, renewable energy consumption consists of: conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the geothermal plants heat rate), and geothermal heat pump and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossilfueled plants heat rate); wood and wood-derived fuels consumption; biomass waste (municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass) consumption; fuel ethanol (minus denaturant) and biodiesel consumption; and losses and co-products from the production of fuel ethanol and biodiesel. Production is assumed to equal consumption for all renewable energy sources except biofuels (biofuels production comprises biomass inputs to the production of fuel ethanol and biodiesel).

Table 10.2a Sources

Residential Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Residential Sector, Solar/PV

U.S. Energy Information Administration (EIA) estimates based on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Residential Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980 forward: EIA, Form EIA-457, "Residential Energy Consumption Survey"; and EIA estimates based on Form EIA-457 and regional heating degree-day data. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Hydroelectric Power

1989 forward: Commercial sector conventional hydroelectricity net generation data from EIA, Form EIA-923, "Power

Plant Operations Report," and predecessor forms, are converted to Btu by multiplying by the fossil-fueled plants heat rates in Table A6

Commercial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Solar/PV

2008 forward: Commercial sector solar thermal and photovoltaic (PV) electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fueled plants heat rates in Table A6.

Commercial Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA estimate based on the 1983 value.

1985-1988: Values interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Tables 7.4a–7.4c; and EIA estimates based on Form EIA-871, "Commercial Buildings Energy Consumption Survey." Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (MER, Table 7.4a) minus wood consumption in the electric power sector (MER, Table 7.4b) and at industrial CHP plants (MER, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7a, and 10.3. Calculated as commercial sector motor gasoline consumption (Table 3.7a) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

Industrial sector conventional hydroelectricity net

generation data from Table 7.2c are converted to Btu by multiplying by the fossil-fueled plants heat rates in Table A6.

Industrial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Industrial Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1985 and 1986: Values interpolated.

1987: EIA, Estimates of Biofuels Consumption in the United States During 1987, Table 2.

1988: Value interpolated.

1989 forward: EIA, MER, Table 7.4c; and EIA estimates based on Form EIA-846, "Manufacturing Energy Consumption Survey." Data for wood consumption at industrial combined-heat-and-power (CHP) plants are from MER, Table 7.4c. Annual estimates for wood consumption at other industrial plants are based on Form EIA-846 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Biomass Waste

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1982 and 1983: EIA estimates for total waste consumption based on *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1988: Value interpolated.

1989 forward: EIA, MER, Table 7.4c; and EIA estimates based on information presented in Government Advisory Associates, *Resource Recovery Yearbook* and *Methane Recovery Yearbook*, and information provided by the U.S. Environmental Protection Agency, Landfill Methane Outreach Program. Data for waste consumption at industrial CHP plants are from MER, Table 7.4c. Annual estimates for waste consumption at other industrial plants are based on the non-EIA sources listed above (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7b, and 10.3. Calculated as industrial sector motor gasoline consumption (Table 3.7b) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Industrial Sector, Losses and Co-products

Calculated as fuel ethanol losses and co-products (Table 10.3) plus biodiesel losses and co-products (Table 10.4).

Transportation Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7c, and 10.3. Calculated as transportation sector motor gasoline consumption (Table 3.7c) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Transportation Sector, Biodiesel

EIA, MER, Table 10.4. Transportation sector biodiesel consumption is assumed to equal total biodiesel consumption.

Table 10.3 Sources

Feedstock

Calculated as fuel ethanol production (in thousand barrels) minus denaturant, and then multiplied by the fuel ethanol feedstock factor—see Table A3.

Losses and Co-products

Calculated as fuel ethanol feedstock plus denaturant minus fuel ethanol production.

Denaturant

1981–2008: Data in thousand barrels for petroleum denaturant in fuel ethanol produced are estimated as 2 percent of

fuel ethanol production; these data are converted to Btu by multiplying by 4.645 million Btu per barrel (the estimated quantity-weighted factor of pentanes plus and conventional motor gasoline used as denaturant).

2009: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus and conventional motor gasoline.

2010: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

Production

1981–1992: Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption."

1993–2004: Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data from EIA, Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance.

2005–2008: EIA, Form EIA-819, "Monthly Oxygenate Report."

2009: EIA, PSA, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2010: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

1992–2009: EIA, *Petroleum Supply Annual (PSA)*, annual reports, Table 1.

2010: EIA, PSM, monthly reports, Table 1.

Consumption

1981–1989: EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 10; and interpolated values for 1982, 1983, 1985, 1986, and 1988.

1990–1992: EIA, *Estimates of U.S. Biomass Energy Consumption* 1992, Table D2; and interpolated value for 1991.

1993–2004: EIA, PSA, annual reports, Tables 2 and 16. Calculated as 10 percent of oxygenated finished motor gasoline field production (Table 2), plus fuel ethanol refinery input (Table 16).

2005–2008: EIA, PSA, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15).

2009: EIA, PSA, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2010: EIA, PSM, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

Consumption Minus Denaturant

Calculated as fuel ethanol consumption minus the amount of denaturant in fuel ethanol consumed. Denaturant in fuel ethanol consumed is estimated by multiplying denaturant in fuel ethanol produced by the fuel ethanol consumption-toproduction ratio.

Table 10.4 Sources

Feedstock

Calculated as biodiesel production in thousand barrels multiplied by 5.433 million Btu per barrel (the biodiesel feedstock factor—see Table A3).

Losses and Co-products

Calculated as biodiesel feedstock minus biodiesel production.

Production

2001–2005: U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. Monthly data are estimated by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month.

2006: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and

Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, EIA estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007 and January 2010 forward: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel).

January 2008–December 2009: EIA, *Monthly Biodiesel Production Report*, December 2009 (release date October 2010), Table 11. Monthly data for 2008 are estimated based on U.S. Department of Commerce, Bureau of the Census, M311K data, multiplied by the EIA 2008 annual value's share of the M311K 2008 annual value.

Trade

U.S. Department of Agriculture, imports data for Harmonized Tariff Schedule codes 3824.90.40.20, "Fatty Esters Animal/Vegetable/Mixture" (for data through June 2010), and 3824.90.40.30, "Biodiesel/Mixes" (for data beginning in July 2010); and exports data for Schedule B code 3824.90.40.00, "Fatty Substances Animal/Vegetable/Mixture." Although these categories include products other than biodiesel (such as biodiesel coprocessed with petroleum feedstocks; and products destined for soaps, cosmetics, and other items),

biodiesel is the largest component. In the absence of other reliable data for biodiesel trade, EIA sees these data as good substitutes.

Stocks and Stock Change

2009: EIA, *Petroleum Supply Annual (PSA)*, Table 1, data for renewable fuels except fuel ethanol.

2010: EIA, *Petroleum Supply Monthly*, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports.

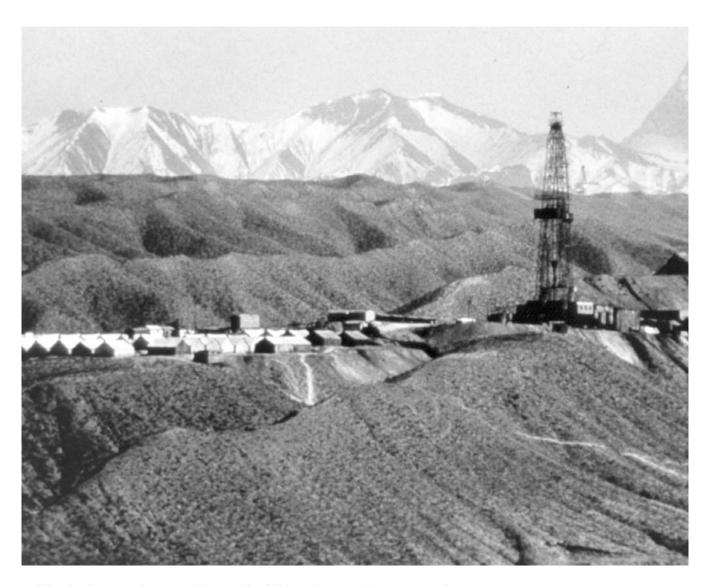
Consumption

2001–2008: Calculated as biodiesel production plus biodiesel net imports.

January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

March 2009 forward: Calculated as biodiesel production plus biodiesel net imports minus biodiesel stock change.

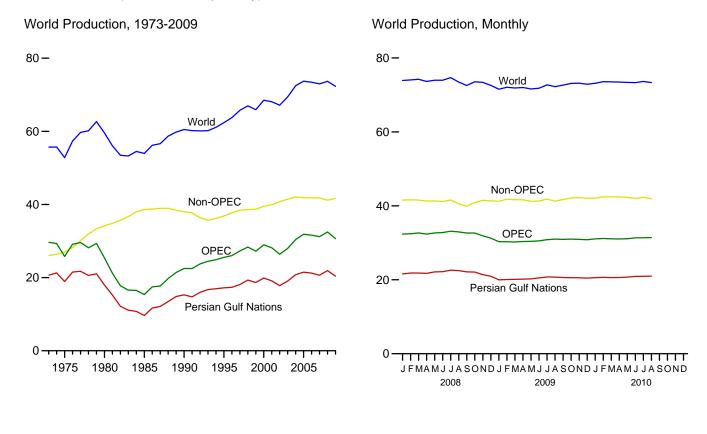
International Petroleum



Drilling rig, Gansu Province, People's Republic of China. Source: U.S. Department of Energy.

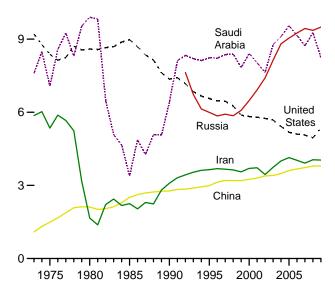
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



Selected Producers, 1973-2009

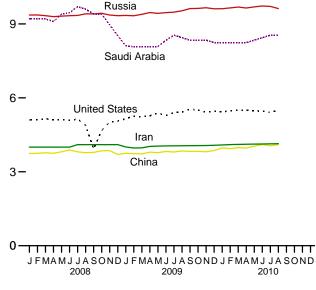
12-



Notes: • OPEC is the Organization of the Petroleum Exporting Countries.
• The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Persian Gulf Nations."

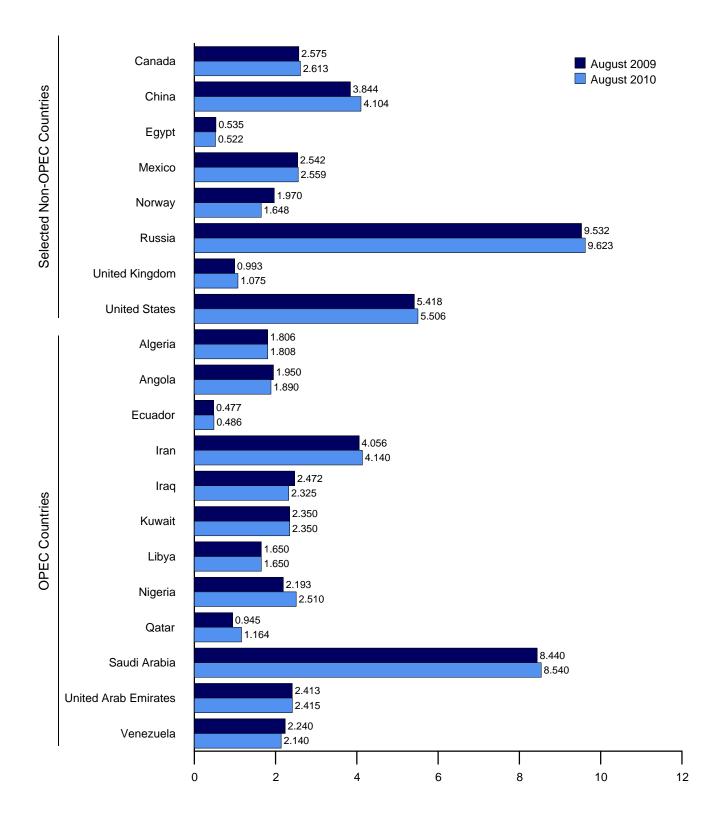
Selected Producers, Monthly

12**-**



Web Page: http://www.eia.gov/emeu/mer/inter.html. Sources: Tables 11.1a and 11.1b.

Figure 11.1b World Crude Oil Production by Selected Country (Million Barrels per Day)



Note: OPEC is the Organization of the Petroleum Exporting Countries.

Web Page: http://www.eia.gov/emeu/mer/inter.html.

Sources: Tables 11.1a and 11.1b.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

1973 Average 1975 Average 1985 Average 1990 Average 1990 Average 1991 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 1900 Average 1900 Average 1900 Average 1001 Average 1002 Average 1003 Average 1005 Average 1006 Average 1007 Average 1008 January 1008 February 1008 May 1008 June 1009 July					Iraq	Kuwaita	Libya	Nigeria	Qatar	Arabiaa	Emirates	zuela	OPEC
1975 Average 1980 Average 1980 Average 1995 Average 1996 Average 1996 Average 1997 Average 1998 Average 1998 Average 1999 Average 1999 Average 1999 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 January February March April May June	1,097	162	209	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,661
1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 1999 Average 1990	983	165	161	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	25,790
1990 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 1999	1,037	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,368
996 Average 997 Average 998 Average 999 Average 999 Average 0001 Average 0002 Average 0003 Average 0005 Average 0006 Average 0007 Average 0007 Average 0008 January February March April May June	1,175	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,493
997 Average	1,202	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,540
998 Average 999 Average 000 Average 001 Average 002 Average 004 Average 005 Average 006 Average 007 Average 008 January February March April May June	1,242	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,018
999 Average	1,277	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,292
.000 Average	1,246	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,366
2001 Average	1,202	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,224
002 Average	1,254	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,980
.003 Average	1,310	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,159
2004 Average	1,306	896	393	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,392
2005 Average	1,611	903	411	3,743	1,308	2,136	1,421	2,275	715	8,775	2,348	2,335	27,980
2006 Average	1,677	1,052	528	4,001	2,011	2,376	1,515	2,329	783	9,101	2,478	2,557	30,408
007 Average 008 January February March April May June	1,797	1,250	532	4,139	1,878	2,529	1,633	2,627	835	9,550	2,535	2,565	31,871
2008 January	1,814	1,413	536	4,028	1,996	2,535	1,681	2,440	850	9,152	2,636	2,511	31,591
February March April May June	1,834	1,744	511	3,912	2,086	2,464	1,702	2,350	851	8,722	2,603	2,433	31,210
March April May June	1,826	1,992	520	4,000	2,203	2,550	1,790	2,230	892	9,200	2,709	2,440	32,352
April May June	1,826	1,997	519	4,000	2,353	2,600	1,790	2,100	916	9,200	2,709	2,440	32,449
May June	1,825	2,003	508	4,000	2,353	2,600	1,790	2,330	920	9,200	2,710	2,430	32,669
June	1,825	2,009	510	4,000	2,353	2,600	1,769	2,130	934	9,100	2,710	2,420	32,361
	1,825	2,015	499	4,000	2,453	2,600	1,745	2,060	938	9,400	2,710	2,410	32,655
luke	1,824	2,013	495	4,000	2,453	2,607	1,745	2,140	942	9,450	2,710	2,400	32,780
July	1,824	2,009	498	4,100	2,505	2,614	1,720	2,120	947	9,700	2,710	2,390	33,138
August	1,824	1,937	503	4,100	2,456	2,622	1,645	2,216	951	9,600	2,711	2,380	32,945
September	1,824	1,871	498	4,100	2,328	2,629	1,745	2,210	955	9,400	2,711	2,370	32,640
October	1,824	1,990	497	4,100	2,328	2,629	1,745	2,185	925	9,400	2,661	2,360	32,643
November	1,824	1,990	502	4,100	2,359	2,486	1,700	2,180	885	8,959	2,561	2,350	31,895
December	1,824	1,940	508	4,100	2,360	2,493	1,650	2,080	885	8,518	2,561	2,340	31,259
Average	1,825	1,981	505	4,050	2,375	2,586	1,736	2,165	924	9,261	2,681	2,394	32,483
2009 January	1,758	1,915	504	4,007	2,212	2,350	1,650	2,192	860	8,113	2,411	2,340	30,312
February	1,757	1,840	498	3,963	2,313	2,350	1,650	2,162	935	8,068	2,412	2,340	30,288
March	1,757	1,840	497	3,970	2,365	2,350	1,650	2,060	910	8,072	2,412	2,340	30,223
April	1,757	1,840	495	4,030	2,366	2,350	1,650	2,217	910	8,077	2,412	2,240	30,344
May	1,757	1,840	486	4,044	2,418	2,350	1,650	2,212	910	8,081	2,412	2,240	30,399
June	1,756	1,840	491	4,050	2,419	2,350	1,650	2,059	910	8,335	2,412	2,240	30,514
July	1,806	1,890	483	4,053	2,470	2,350	1,650	2,051	910	8,540	2,413	2,240	30,857
August	1,806	1,950	477	4,056	2,472	2,350	1,650	2,193	945	8,440	2,413	2,240	30,992
September	1,806	1,950	475	4,060	2,473	2,350	1,650	2,240	945	8,340	2,413	2,240	30,942
October	1,806	1,990	475	4,063	2,425	2,350	1,650	2,290	951	8,340	2,413	2,240	30,993
November	1,806	1,990	477	4,067	2,375	2,350	1,650	2,370	962	8,340	2,413	2,140	30,940
December	1,806	1,990	470	4,076	2,375	2,350	1,650	2,450	974	8,240	2,414	2,040	30,834
Average	1,782	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	2,239	30,639
010 January	1,810	2,040	463	4,088	2,475	2,350	1,650	2,480	969	8,240	2,414	2,090	R 31,069
February	1,809	2,060	469	4,100	2,475	2,350	1,650	2,420	1,036	8,240	2,414	2,140	31,163
March	1,809	2,070	479	4,112	2,375	2,350	1,650	2,430	1,055	8,240	2,414	2,090	31,074
April	1,809	2,070	R 478	4,120	2,375	2,350	1,650	2,360	1,072	8,240	2,414	2,110	R 31,049
May	1,809	2,030	^R 479	4,120	2,375	2,350	1,650	2,310	1,091	8,340	2,415	2,140	R 31,108
June	1,808	1,980	R 492	4,127	2,425	2,350	1,650	2,410	1,113	8,440	2,415	2,140	R 31,349
July	1,808	1,970	^R 489	4,133	2,325	2,350	1,650	2,410	1,136	8,540	2,415	2,140	R 31,367
August	1,808	1,890	486	4,140	2,325	2,350	1,650	2,510	1,164	8,540	2,415	2,140	31,418
8-Month Average		2 042	479	4,118	2,392	2,350	1,650	2,416	1,080	8,354	2,414	2,124	31,200
2009 8-Month Average	1,809	2,013	4/9	4,110	2,332	2,330	1,000	2,410	1,000	0,554	2,717	2,124	31,200

a Except for the period from August 1990 through May 1991, includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In August 2010, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 538 thousand barrels

for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

R=Revised.

Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the

Preliminary monthly data are not available.

Web Page: See http://www.eia.gov/emeu/mer/inter.html for all available data beginning in 1973.

Sources: See end of section.

production by both Numeriant Saudi Arabia include approximately 150 thousand barriers per day. Data for Saudi Arabia include approximately 150 thousand barries per day from the Abu Safah field produced on behalf of Bahrain.

Dese "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC"

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World (Thousand Barrels per Day)

					Selected	Non-OPE	Ca Produce	rs				
	Persian Gulf Nations ^b	Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Total Non- OPEC ^a	World
1973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	26,018	55,679
1975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	27,039	52,828
1980 Average	17,961	1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	34,175	59,558
1985 Average	9,630	1,471	2,505	887	2,745	773	11,585	NA	2,530	8,971	38,598	53,966
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,492
1995 Average	17,208	1.805	2.990	920	2.618	2.766		5.995	2.489	6,560	36.845	62,385
1996 Average	17,367	1,837	3,131	922	2,855	3,091		5,850	2,568	6,465	37,733	63,752
1997 Average	18,095	1,922	3,200	856	3,023	3,142		5,920	2,518	6,452	38,452	65,744
1998 Average	19,337	1,981	3,198	834	3,070	3,011		5,854	2,616	6,252	38,599	66,966
1999 Average	18,667	1,907	3,195	852	2,906	3,019		6,079	2,684	5,881	38,698	65,922
2000 Average	19.892	1,977	3,249	768	3.012	3,222		6,479	2,275	5.822	39,515	68,495
2001 Average	19,098	2,029	3,300	720	3,127	3,226		6,917	2,282	5,801	39,940	68,099
2002 Average	17,794	2,171	3,390	715	3,177	3,131		7,408	2,292	5,746	40,766	67,158
2003 Average	19,063	2,306	3,409	713	3,371	3,042		8,132	2,093	5,681	41,452	69,433
2004 Average	20.787	2,398	3,485	673	3,383	2.954		8.805	1.845	5.419	42.068	72,476
2005 Average	21,501	2,369	3,609	658	3,334	2,698		9,043	1,649	5,178	R 41,847	R 73,718
2006 Average	21,232	2,525	3,673	633	3,256	2,491		9,247	1,490	5,102	R 41,839	R 73,430
2007 Average	20,672	2,628	3,729	637	3,076	2,270		9,437	1,498	5,064	R 41,778	R 72,988
2007 Average	20,072	2,020	0,720	001	0,010	2,270		5,461	1,400	0,004	41,770	12,000
2008 January	21.588	2,534	3.744	609	2.928	2.209		9.359	1.456	5.100	R 41.548	R 73,900
February	21,813	2,545	3,747	605	2,909	2,176		9,362	1,491	5,122	R 41,613	R 74,063
March	21,818	2,631	3,769	601	2,839	2,209		9,334	1,450	5,151	R 41,567	R 74,236
April	21,732	2,516	3,751	597	2,757	2,111		9,296	1,491	5,117	R 41,299	R 73,659
May	22,136	2,439	3,811	593	2,791	2,247		9,315	1,485	5,102	R 41,313	R 73,968
June	22,197	2,471	3,884	589	2,833	2.002		9,334	1,363	5,098	R 41,197	R 73,977
July	22,610	2,650	3,808	576	2,778	2,302		9,344	1,307	5,133	R 41,548	R 74,686
August	22,474	2,682	3,774	562	2,759	2,057		9,409	1,099	4,894	R 40,531	R 73,476
September	22,157	2,562	3,788	563	2,722	2,057		9,406	1,392	3,930	R 39,897	R 72,538
October	22,077	2,600	3,850	560	2,757	2,241		9,430	1,352	4,669	R 40,910	R 73,553
November	21.384	2,683	3,859	557	2,711	2,276		9,359	1,396	5,024	R 41,495	R 73.390
December	20.952	2,633	3,699	556	2,717	2.287		9,333	1,423	5,056	R 41,332	R 72,591
Average	21,913	2,579	3,790	581	2,792	2,182		9,357	1,391	4,950	R 41,188	R 73,671
2000 January	10.000	2.502	0.755	550	2.605	2.405		0.242	4 405	E 4E4	R 44 000	R 74 EE4
2009 January	19,989	2,592	3,755	553	2,685	2,195		9,343	1,425	5,154	R 41,239	R 71,551
February	20,076	2,684	3,733	550	2,663	2,260		9,331	1,449	5,260	R 41,786	R 72,074
March	20,114	2,579	3,726	547	2,652	2,238		9,388	1,451	5,227	R 41,652	R 71,876
April	20,179	2,459	3,795	547	2,642	2,072		9,459	1,468	5,273	R 41,652	R 71,996
May	20,249	2,436	3,775	544	2,609	1,890		9,429	1,390	5,379	R 41,213	R 71,612
June	20,511	2,559	3,824	541	2,519	1,850		9,457	1,359	5,281	R 41,287	R 71,800
July	20,771	2,667	3,801	538	2,561	2,147		9,476	1,342	5,402	R 41,852	R 72,709
August	20,711	2,575	3,844	535 532	2,542	1,970		9,532	993	5,418	^R 41,254 ^R 41,711	^R 72,246 ^R 72,653
September	20,616	2,528	3,826		2,599	1,923 2,077		9,623	1,119	5,547	** 41,711 R 42,119	R 73,112
October	20,577	2,594	3,828	529	2,602			9,629	1,266	5,501		
November	20,542	2,725	3,813	526 523	2,553	2,123		9,654	1,372	5,427	^R 42,226 ^R 42.057	^R 73,166 ^R 72,891
December	20,464 20,402	2,564 2,579	3,863	523 539	2,593 2,601	2,073 2,067		9,614 9,495	1,310 1,328	5,451 5,361	R 41,669	R 72,891
Average	20,402	2,579	3,799	539	2,601	2,067		9,495	1,320	3,361	41,009	12,308
2010 January	20,571	2,451	3,968	523	2,615	2,060		9,615	1,371	E 5,433	R 42,085	R 73,153
February	20,650	2,431	3,938	523	2,610	2,038		9,648	1,284	E 5,465	R 42,422	R 73,585
March	20,650	2,526	3,936	523 523	2,595	1,983		9,683	1,204 1,417	E 5,502	R 42,422	R 73,546
	20,561	2,520	3,961	523	2,593	1,963		9,663	1,386	E 5,496	R 42,472	R 73,481
April	20,607	2,510	4,040	523 523	2,593	1,967		9,646	1,386	E 5,468	R 42,432	R 73,396
May	20,723	2,568	4,108	523	2,546	1,611		9,727	1,259	E 5,465	R 41,973	R 73,322
June										E 5,405	R 42,288	R 73,654
July	20,934 20,969	2,661 2,613	4,056 4,104	522 522	2,573 2,559	1,864 1,648		9,710 9,623	1,254 1,075	E 5,506	41,931	73,654
August	20,969 20,744	2,513 2,579	4,104 4,020	522 523		1,885		9,623 9,668	1,075 1,293	E 5,467		73,349 73,434
8-Month Average	20,744	2,319	4,020	323	2,585	1,000		9,000	1,293	3,407	42,234	13,434
2009 8-Month Average 2008 8-Month Average	20,328 22,049	2,568 2,559	3,782 3,786	544 591	2,609 2,824	2,076 2,165		9,428 9,344	1,358 1,392	5,300 5,089	41,488 41,325	71,983 73,996

^a See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

R=Revised. NA=Not available. --=Not applicable. E=Estimate.

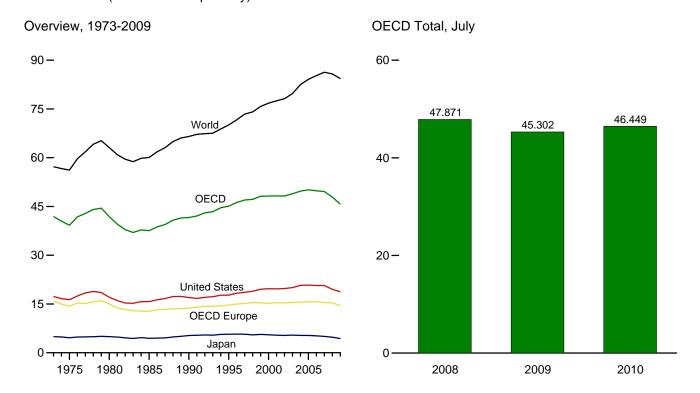
for all years.

^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

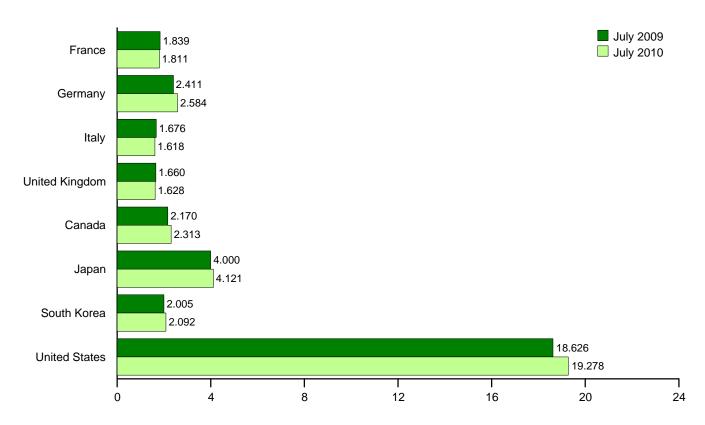
Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/inter.html for all available data beginning in 1973.

Figure 11.2 Petroleum Consumption in OECD Countries (Million Barrels per Day)



By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Development.

Web Page: http://www.eia.gov/emeu/mer/inter.html.

Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	France	Germanya	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD d	World
					•		•					
1973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
1975 Average	2,252	2,957	1,855	1,911	14,314	1,779	4,621	311	16,322	1,885	39,232	56,198
1980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,449	41,870	63,113
1985 Average	1,753	2,651	1,705	1,617	12,770	1,526	4,436	552	15,726	2,564	37,575	60,083
1990 Average	1,826	2,682	1,868	1,776	13,729	1,737	5,315	1,048	16,988	2,784	41,601	66,533
1995 Average	1,920	2,882	1,942	1,816	14,714	1,817	5,693	2,008	17,725	3,135	45,092	70,067
1996 Average	1,949	2,922	1,920	1,852	14,998	1,871	5,739	2,101	18,309	3,206	46,224	71,665
1997 Average	1,969	2,917	1,934	1,810	15,140	1,959	5,702	2,255	18,620	3,322	46,999	73,436
1998 Average	2,043	2,923	1,943	1,792	15,447	1,949	5,507	1,917	18,917	3,443	47,180	74,079
1999 Average	2,031	2,838	1,891	1,811	15,364	2,036	5,642	2,084	19,519	3,512	48,157	75,791
2000 Average	2,000	2,772	1,854	1,765	15,219	2,035	5,515	2,135	19,701	3,591	48,197	76,772
2001 Average	2,054	2,815	1,832	1,747	15,393	2,066	5,412	2,132	19,649	3,605	48,257	77,512
2002 Average	1,985	2,722	1,870	1,739	15,342	2,087	5,319	2,149	19,761	3,558	48,217	78,160
2003 Average	2,001	2,679	1,860	1,759	15,461	2,217	5,429	2,175	20,034	3,598	48,913	79,722
2004 Average	2,009	2,665	1,794	1,785	15,531	2,310	5,319	2,155	20,731	3,687	49,733	82,511
2005 Average	1,991	2,647	1,755	1,823	15,667	2,341	5,328	2,191	20,802	3,800	50,129	84,105
2006 Average	1,991	2,692	1,743	1,804	15,684	2,253	5,198	2,180	20,687	3,816	49,818	85,255
2007 Average	1,979	2,468	1,688	1,738	15,453	2,307	5,037	2,241	20,680	3,874	49,593	86,288
2008 January	2,049	2,496	1,652	1,726	15,485	2,315	5,410	2,362	20,247	3,827	49,645	NA
February	1,980	2,586	1,725	1,837	15,684	2,338	5,926	2,337	20,029	3,910	50,225	NA
March	1,871	2,414	1,579	1,705	14,873	2,237	5,062	2,256	19,831	3,764	48,023	NA
April	1,994	2,527	1,637	1,853	15,656	2,125	5,040	2,088	19,815	4,031	48,756	NA
May	1,840	2,323	1,633	1,651	14,734	2,187	4,494	2,171	19,798	3,944	47,327	NA
June	1,887	2,437	1,631	1,740	15,006	2,232	4,387	1,983	19,678	3,806	47,092	NA
July	1,914	2,649	1,726	1,654	15,522	2,276	4,483	2,017	19,557	4,016	47,871	NA
August	1,845	2,635	1,521	1,607	15,068	2,190	4,220	2,018	19,272	3,848	46,617	NA
September	1,983	2,844	1,661	1,753	16,151	2,250	4,337	2,157	17,839	3,743	46,476	NA
October	2,038	2,859	1,657	1,758	15,968	2,285	4,383	2,013	19,698	3,711	48,058	NA
November	1,870	2,623	1,554	1,741	14,986	2,261	4,613	2,049	19,052	3,644	46,605	NA
December	2,076	2,473	1,622	1,740	15,184	2,208	5,154	2,261	19,142	3,908	47,858	_NA
Average	1,945	2,572	1,633	1,729	15,357	2,242	4,788	2,142	19,498	3,846	47,874	85,776
2009 January	1,990	2,392	1,491	1,744	14,696	2,231	4,850	2,297	19,040	R 3,578	R 46,691	NA
February	1,998	2,617	1,568	1,698	R 15,072	2,220	4,721	2,455	18,822	R 3,729	R 47,018	NA
March	1,920	2,726	1,506	1,739	^R 14,925	2,154	4,615	2,187	18,719	R 3,700	R 46,299	NA
April	1,799	2,478	1,510	1,708	14,453	2,049	4,231	2,209	18,672	R 3,657	^R 45,271	NA
May	1,669	2,332	1,465	1,614	13,804	2,053	3,823	2,128	18,211	R 3,677	R 43,695	NA
June	1,817	2,366	1,525	1,692	14,554	2,142	4,068	2,077	18,828	R 3,788	R 45,456	NA
July	1,839	2,411	1,676	1,660	14,687	2,170	4,000	2,005	18,626	R 3,813	R 45,302	NA
August	1,577	2,262	1,400	1,656	R 13,750	2,157	4,176	2,066	18,949	R 3,773	R 44,871	NA
September	1,884	2,548	1,580	1,674	R 14,979	2,138	4,146	2,034	18,594	R 3,715	R 45,606	NA
October	1,845	2,508	1,583	1,654	14,771	2,103	4,302	2,188	18,803	R 3,827	R 45,994	NA
November	1,714	2,359	1,484	1,637	14,133	2,151	4,400	2,227	18,753	R 3,854	R 45,519	NA
December	1,894	2,298	1,547	1,532	14,153	2,242	5,089	2,367	19,237	R 3,981	R 47,069	NA NA
Average	1,828	2,440	1,528	1,667	R 14,493	2,151	4,367	2,185	18,771	3,758	R 45,725	^R 84,337
2010 January	1,739	2,168	1,328	1,582	R 13,345	2,152	4,731	2,342	18,528	R 3,560	44,658	NA
February	1,936	2,452	1,491	1,683	R 14,531	2,276	4,950	2,362	18,860	R 3,900	R 46,880	NA
March	1,896	2,514	1,523	1,682	R 14,669	R 2,163	4,690	2,234	19,070	R 3,802	R 46,629	NA
April	1,827	2,279	1,478	1,642	R 14,095	R 2,210	4,324	2,229	18,910	R 3,854	R 45,622	NA
May	1,676	2,364	1,411	1,611	R 13,768	R 2,221	3,838	2,150	18,827	R 3,814	R 44,618	NA
June	1,818	2,523	1,536	1,594	R 14,537	R 2,278	3,921	2,157	19,314	R 3,918	R 46,126	NA
July	1,811	2,584	1,618	1,628	14,810	2,313	4,121	2,092	19,278	3,835	46,449	NA
7-Month Average	1,813	2,412	1,483	1,631	14,246	2,230	4,362	2,222	18,970	3,810	45,840	NA
2009 7-Month Average 2008 7-Month Average	1,860 1,933	2,473 2,489	1,534 1,654	1,694 1,736	14,593 15,276	2,145 2,244	4,326 4,965	2,191 2,173	18,700 19,850	3,705 3,899	45,660 48,408	NA NA

^a Data are for unified Germany, i.e., the former East Germany and West

R=Revised. NA=Not available.

Notes: • Totals may not equal sum of components due to independent

rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/inter.html for all available data beginning in 1973.

Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslavakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980-2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, IES. • World: 2009-EIA, Short Term Energy Outlook, Oct. 13, 2010, Table 3a. • All Other Data:-International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

Germany.

b "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark,

Cross Hungary Iceland, Ireland, Italy, Luxembourg, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland,

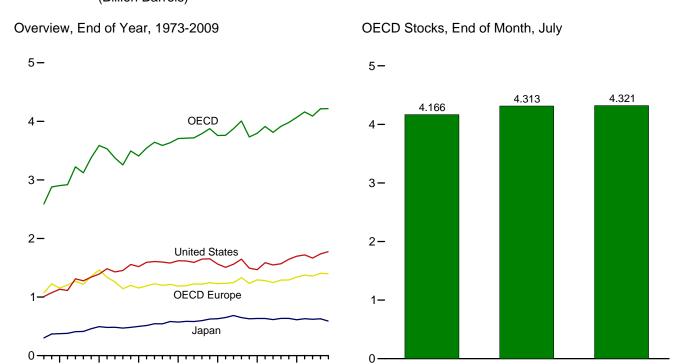
Turkey, and the United Kingdom.

^c "Other OECD" consists of Australia, Chile, Mexico, New Zealand, and the

U.S. Territories.

^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)



2008

2009

2010

By Selected OECD Country, End of Month

1985

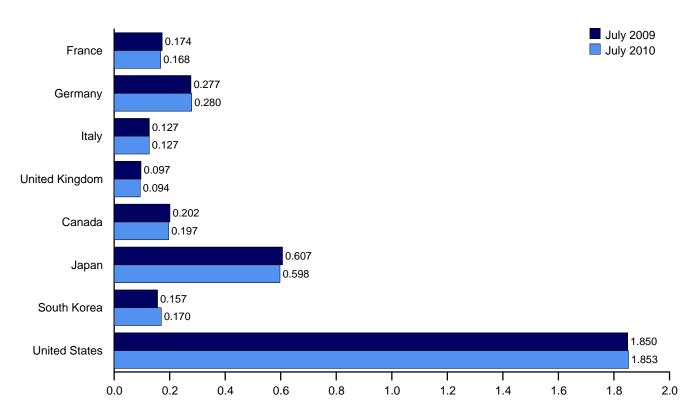
1990 1995

2000

2005

1975

1980



Note: OECD is the Organization for Economic Cooperation and Development.

Web Page: http://www.eia.gov/emeu/mer/inter.html.

Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD d
1973 Year	201	181	152	156	1.070	140	303	NA	1,008	67	2,588
1975 Year	225	187	143	165	1,154	174	375	NA NA	1,133	67	2,903
1980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	110	3.408
1990 Year	143	280	143	103	1,188	143	572	64	1,621	117	3,706
1995 Year	155	302	141	101	1,228	132	631	92	1,563	113	3,758
1996 Year	154	302 303	135	101	1,226	127	651	123	1,503	118	3,762
		299							,		
1997 Year	161		129	100	1,246	144	685	124	1,560	115	3,875
1998 Year	169	323	135	104	1,331	139	649	129	1,647	111	4,006
1999 Year	160	290	130	101	1,233	142	629	132	1,493	105	3,733
2000 Year	170	272	140	100	1,294	144	634	140	1,468	117	3,796
2001 Year	165	273	134	113	1,281	156	634	143	1,586	112	3,912
2002 Year	170	253	138	104	1,247	157	615	140	1,548	103	3,811
2003 Year	179	273	135	100	1,290	170	636	155	1,568	96	3,914
2004 Year	177	267	136	101	1,292	160	635	149	1,645	99	3,980
2005 Year	185	283	132	95	1,342	178	612	135	1,698	103	4,068
2006 Year	182	283	133	103	1,374	181	631	152	1,720	103	4,161
2007 Year	180	275	133	90	1,358	194	621	143	1,665	108	4,090
2008 January	182	281	136	95	1,381	195	621	155	1,677	110	4,139
February	176	276	129	95	1,355	193	605	149	1,664	114	4,080
March	177	281	131	100	1,384	193	610	143	1,655	111	4,096
April	173	279	134	98	1,366	191	610	141	1,666	106	4,081
May	177	277	136	99	1,370	193	617	146	1,674	108	4,107
June	177	273	137	99	1,368	193	619	147	1,686	110	4,122
July	179	274	135	95	1,386	197	627	153	1,698	105	4,166
August	176	276	131	96	1,380	202	643	150	1,711	106	4,191
September	177	274	130	95	1,366	202	646	141	1,704	117	4,176
October	179	270	129	93	1.362	202	648	138	1,711	122	4.183
November	179	275	127	96	1,378	200	641	139	1,732	117	4,208
December	179	277	128	99	1,405	194	630	135	1,737	^R 114	4,214
2009 January	179	280	136	100	1.411	196	618	149	1.766	^R 115	^R 4,254
February	178	279	128	98	1,408	196	619	157	1,777	R 107	R 4,264
March	178	278	131	100	R 1,411	198	611	155	1,803	109	4.288
April	173	279	132	98	R 1,401	199	606	152	1,816	114	R 4,288
May	176	281	133	92	1,396	198	609	149	1,831	112	R 4,294
June	173	280	129	92	1,396	198	611	149	1,844	110	4,309
July	174	277	127	97	1,390	202	607	157	1,850	108	R 4,313
August	178	284	130	96	1,410	201	610	160	1,834	111	4,326
September	174	277	129	94	R 1,397	195	607	167	1,848	117	R 4,331
October	174	278	130	96	1,397	193	604	167	1,825	109	R 4.282
					,						R 4,296
November December	179 175	286 284	130 126	96 94	1,408 R 1,398	198 193	606 589	162 155	1,814 1,776	109 105	R 4,296
2010 January	182	294	127	95	R 1,436	196	593	162	1,781	111	R 4.280
	175	290	134	93 98	R 1,421	193	593 587	163	1,761	117	R 4,260
February	175	290 288	129	96 92	R 1,421	193	58 <i>1</i>	164	1,779		R 4,231
March										114	
April	172	285	135	95	R 1,414	190	590	166	1,804	111	R 4,276
May	173	286	131	99	R 1,421	R 190	599	166	1,823	108	R 4,308
June	170	281	133	95	R 1,403	R 188	597	167	1,839	120	R 4,314
July	168	280	127	94	1,388	197	598	170	1,853	116	4,321

^a Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined

products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/inter.html for all available data beginning in 1973.

Sources: • United States: Table 3.4. • U.S. Territories: 1983 forward—U.S. Energy Information Administration, International Energy Database. • All Other Data: 1973-1982—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances, various issues. 1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, October 13, 2010.

b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom, and, for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia.

 $^{^{\}rm C}$ "Other OECD" consists of Australia, New Zealand, and the U.S. Territories, and, for 1984 forward, Mexico.

^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

International Petroleum

Tables 11.1a and 11.1b Sources

United States

Table 3.1.

All Other Countries and World, Annual Data

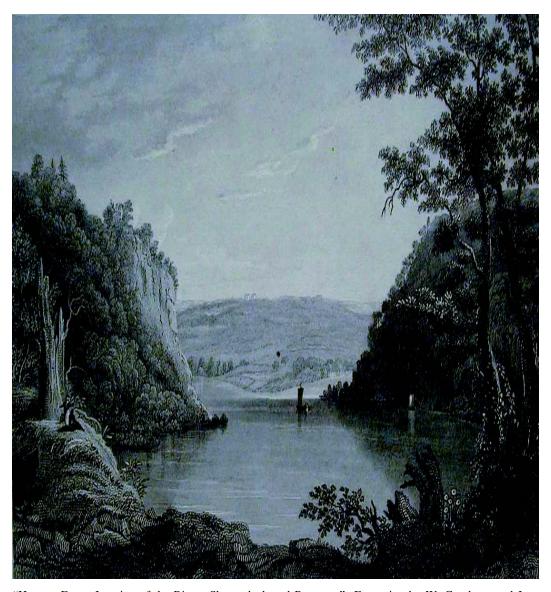
1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8.
1980 forward: EIA, International Energy Database, November 2010.

All Other Countries and World, Monthly Data

1973–1980: Petroleum Intelligence Weekly (PIW), Oil & Gas Journal (OGJ), and EIA adjustments. 1981–1993: PIW, OGJ, and other industry sources.

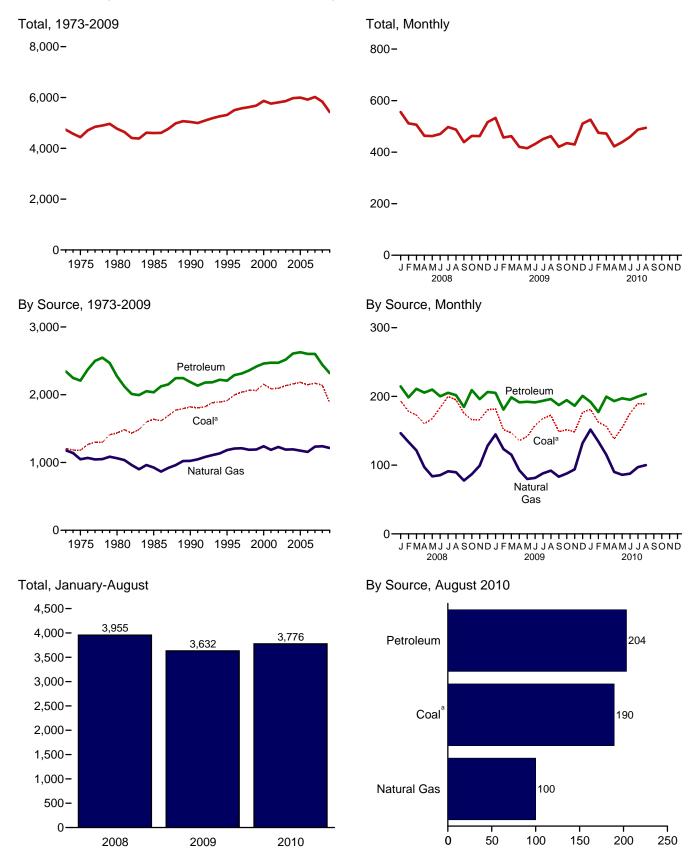
1994 forward: EIA, *International Petroleum Monthly*, and International Energy Database, November 2010.

Environment



"Harpers Ferry, Junction of the Rivers Shenandoah and Potomac." Engraving by W. Goodacre and James Archer, published in *The History and Topography of the United States of North America*, by John Howard Hinton, 1852. From the collection of the National Park Service, Harpers Ferry National Historical Park, Accession #1297.

Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)



^a Includes coal coke net imports. Web Page: http://www.eia.gov/emeu/mer/environ.html. Source: Table 12.1.

Table 12.1 Carbon Dioxide Emissions From Energy Consumption by Source

(Million Metric Tons of Carbon Dioxide^a)

								Petrole	eum					
	Coalb	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oil ^d	Jet Fuel	Kero- sene	LPG ^e	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	O ther ^g	Total	Total ^h
1973 Total	1,207	1,181	6	480	155	32	91	13	911	51	508	100	2,346	4,733
1975 Total	1,181	1,047	5	443	146	24	82	11	911	48	443	97	2,209	4,437
1980 Total	1,436 1,638	1,063 926	4 3	446 445	156 178	24 17	87 86	13 12	900 930	46 55	453 216	142 93	2,272 2,035	4,770 4,600
1990 Total	1,821	1,025	3	443 470	223	6	69	13	988	67	220	127	2,035	5,039
1995 Total	1,913	1,184	3	498	222	8	78	13	1,044	75	152	114	2,207	5,314
1996 Total	1,995	1,205	3	524	232	9	84	12	1,063	78	152	132	2,290	5,501
1997 Total	2,040	1,211	3	534	234	10	85	13	1,075	79	142	138	2,313	5,575
1998 Total	2,064	1,189	2	538	238	12	75 04	14	1,107	89	158	125	2,358	5,622
1999 Total	2,062 2,155	1,192 1,241	3	555 580	245 254	11 10	91 102	14 14	1,127 1,135	93 84	148 163	130 117	2,417 2,461	5,682 5,867
2001 Total	2,088	1,187	2	598	243	11	92	13	1,151	88	145	132	2,473	5,759
2002 Total	2,095	1,229	2	587	237	6	98	12	1,183	94	125	127	2,472	5,809
2003 Total	2,136	1,191	2	610	231	8	95	11	1,188	94	138	140	2,518	5,857
2004 Total	2,160	1,194	2	632	240	10	98	12	1,214	105	155	142	2,609	5,975
2005 Total	2,182 2,147	1,175	2 2	640 648	246 240	10 8	94 93	12 11	1,214 1,224	105 104	164 122	141 150	2,628 2,603	5,996
2006 Total 2007 Total	2,147	1,157 1,235	2	652	238	5	94	12	1,227	98	129	148	2,603	5,918 6,022
2008 January	193	146	(s)	55	20	(s)	10	1	98	8	10	12	215	556
February	178	134	(s)	53	18	(s)	9	1	92	7	8	12	199	512
March April	173 160	121 97	(s) (s)	55 52	19 20	(s) (s)	8 7	1 1	100 97	8 8	9 10	10 11	211 206	506 464
May	168	84	(s)	52 52	20	(s)	6	1	102	8	10	11	210	463
June	184	85	(s)	48	20	(s)	7	1	97	7	10	10	200	470
July	200	91	(s)	49	20	(s)	7	1	100	9	10	9	205	497
August	195	90	(s)	48	20	(s)	7	1	100	8	8	9	202	488
September	175 166	78 87	(s)	48 55	18 18	(s)	5 7	1 1	90 99	6 8	8 9	10 12	185 209	439 463
October November	166	99	(s) (s)	49	17	(s) (s)	7	1	99	o 7	8	12	196	462
December	181	128	(s)	50	17	1	8	1	97	8	11	12	206	516
Total	2,139	1,241	2	615	226	2	89	11	1,166	92	111	130	2,444	5,836
2009 January	182	145	(s)	54	16	1	9	1	95	7	11	11	205	533
February March	152 147	124 115	(s) (s)	46 49	15 18	(s) (s)	8 8	1 1	88 98	7 7	6 9	10 9	181 199	457 462
April	136	93	(s)	44	17	(s)	7	1	96	8	10	8	191	421
May	142	80	(s)	45	17	(s)	6	1	99	9	7	9	192	415
June	158	81	(s)	45	17	(s)	6	1	97	9	8	8	191	432
July	168	88	(s)	45	19	(s)	7	1	101	6	5	10	194	451
August	173 149	92 83	(s) (s)	45 45	18 17	(s)	7 7	1 1	101 94	7 8	7 5	9 10	196 187	462 420
September October	151	88	(s) (s)	45 48	17	(s) (s)	8	1	94 98	6	5 7	9	195	435
November	149	94	(s)	46	16	(s)	10	1	94	6	6	8	186	430
December	177	132	(s)	51	17	(s)	10	1	97	7	9	9	201	511
Total	1,882	1,214	2	564	204	3	91	10	1,157	87	91	111	2,319	5,428
2010 January	181	152	(s)	48 46	17 15	(s)	10 9	1	92 85	5 5	9 7	9 9	192 177	526 475
February March	163 156	134 115	(s) (s)	46 51	15 18	(s) (s)	8	1	85 95	5 7	8	11	177 200	475 472
April	138	90	(s)	47	17	(s)	6	1	95 95	7	8	11	193	R 422
May	155	86	(s)	48	18	(s)	6	i 1	100	6	8	10	197	439
June	175	88	(s)	48	18	(s)	6	1	97	7	7	10	195	459
July	190	97	(s)	47	18	(s)	7	1	101	7	9	10	200	488
August	190	100	(s)	50 385	19 130	(s)	7 60	1 7	101 767	8 51	7 64	11	204	494
8-Month Total	1,348	862	1	385	139	1	60		767	51	64	82	1,558	3,776
2009 8-Month Total 2008 8-Month Total	1,257 1,451	818 849	1 1	373 412	137 156	2 1	56 61	6 8	775 786	61 63	63 75	75 83	1,550 1,647	3,632 3,955

 $^{^{\}rm a}$ Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Includes coal coke net imports.

waste. See Table 12.6.

R=Revised. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/environ.html for all available data beginning in 1973.

^c Natural gas, excluding supplemental gaseous fuels.

d Distillate fuel oil, excluding biodiesel.

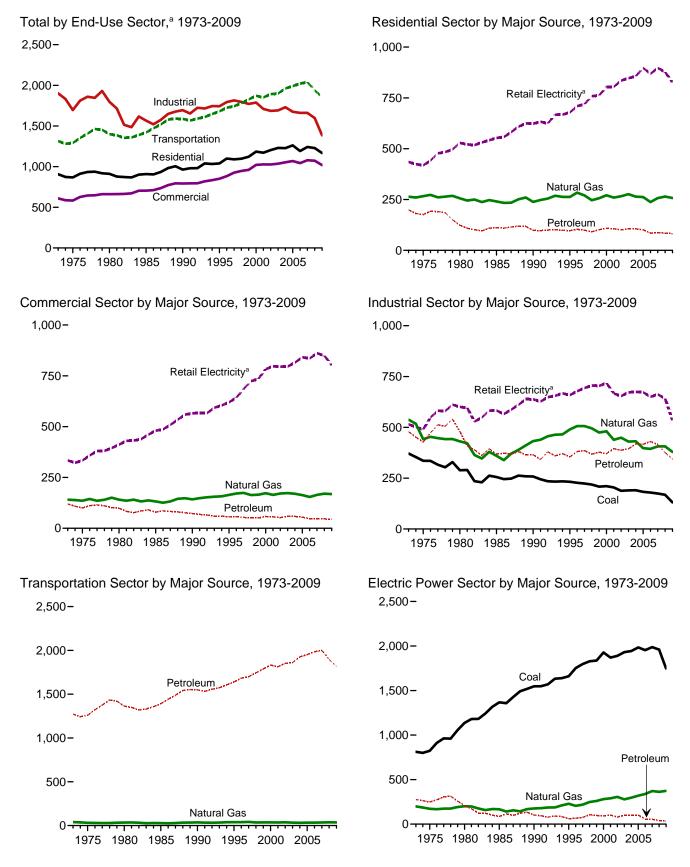
e Liquefied petroleum gases.

f Finished motor gasoline, excluding fuel ethanol.

⁹ Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.

h Includes electric power sector use of geothermal energy and non-biomass

Figure 12.2 Carbon Dioxide Emissions From Energy Consumption by Sector (Million Metric Tons of Carbon Dioxide)



^a Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales.

Web Page: http://www.eia.gov/emeu/mer/environ.html. Sources: Tables 12.2-12.6.

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector

(Million Metric Tons of Carbon Dioxide^a)

				Petrole	eum		Retail	
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Elec- tricity ^e	Total
1973 Total	9	264	147	16	36	199	435	907
1975 Total	6	266	132	12	32	176	419	867
1980 Total	3	256	96	8	20	124	529	911
1985 Total	4	241	80	11	20	111	553	909
1990 Total	3	238	72	5	22	98	624	963
1995 Total	2	263	66	5	25	96	678	1,039
1996 Total	2	284	68	6	30	104	710	1,099
1997 Total	2	270	64	7	29	99	719	1,090
1998 Total	1	247	56	8	27	91	759	1,097
1999 Total	1	257	61	8	33	102	762	1,122
2000 Total	1	271	66	7	35	108	805	1,185
2001 Total	1	259	66	7	33	106	805	1,172
2002 Total	1	266	63	4	34	101	835	1,204
2003 Total	1	276	66	5	34	106	847	1,230
2004 Total	1	264	68	6	32	106	856	1,228
2005 Total	1	262	62	6	32	101	897	1,261
2006 Total	1	237	52	5	28	85	869	1,192
2007 Total	1	257	53	3	31	87	897	1,242
2008 January	(s)	48	7	(s)	4	11	86	145
February	(s)	44	7	(s)	3	10	74	129
March	(s)	36	5	(s)	3	8	67	111
April	(s)	21	4	(s)	3	6	58	85
May	(s)	12	3	(s)	3	6	58	76
June	(s)	8	3	(s)	3	6	77	91
July	(s)	6	3	(s)	3	6	92	104
August	(s)	6	3	(s)	3	5	89	101
September	(s)	6	3	(s)	2	5	72	83
October	(s)	12	3	(s)	3	6	61	78
November	(s)	23	4	(s)	3	7	62	92
December	(s)	42	6	(s)	3	9	81	132
Total	`1	265	49	2	35	85	878	1,228
2009 January	(s)	51	6	(s)	3	10	86	147
February	(s)	41	5	(s)	3	8	68	117
March	(s)	32	5	(s)	3	8	63	103
April	(s)	21	4	(s)	3	7	53	81
May	(s)	11	3	(s)	3	5	56	73
June	(s)	8	2	(s)	3	5	70	83
July	(s)	6	3	(s)	3	5	83	95
August	(s)	6	3	(s)	3	6	85	97
September	(s)	6	3	(s)	3	6	67	79
October	(s)	13	3	(s)	3	7	59	79
November	(s)	20	3	(s)	4	7	57	84
December	(s)	41	5	(s)	4	9	79	129
Total	1	257	45	2	36	83	826	1,167
2010 January	(s)	52	5	(s)	4	9	91	152
February	(s)	45	4	(s)	3	8	74	127
March	(s)	33	3	(s)	3	6	65	104
April	(s)	18	2	(s)	3	5	51	73
May	(s)	11	2	(s)	3	5	59	75
June	(s)	7	2	(s)	3	5	80	92
July	(s)	6	2	(s)	3	5	97	109
August	(s)	6	2	(s)	3	5	97	108
8-Month Total	(s)	178	22	1	24	48	614	840
2009 8-Month Total	(s)	176	30	1	23	54	565	795
2008 8-Month Total	(s)	182	33	1	24	58	602	843

 $^{^{\}rm a}$ Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/environ.html for all available data beginning in 1973.

^c Distillate fuel oil, excluding biodiesel.

^d Liquefied petroleum gases.

e Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

⁽s)=Less than 0.5 million metric tons.

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

(Million Metric Tons of Carbon Dioxide^a)

			Petroleum								
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total
1973 Total	15	141	47	5	9	6	NA	52	120	334	609
1975 Total	14	136	43	4	8	6	NA	39	100	333	583
1980 Total	11	141	38	3	6	8	NA	44	98	412	662
1985 Total	13	132	46	2	6	7	NA	18	79	480	704
1990 Total	12	142	39	1	6	8	0	18	73	566	793
1995 Total	11	164	35	2	7	1	(s)	11	56	620	851
1996 Total	12	171	35	2	8	2	(s)	11	57	643	883
1997 Total	12	174	32	2	8	3	(s)	9	54	686	926
1998 Total	9	164	31	2	7	3	(s)	7	51	724	947
1999 Total	10	165	32	2	9	2	(s)	6	51	735	960
2000 Total	9	173	36	2	9	3	(s)	7	58	783	1,022
2001 Total	9	164	37	2	9	3	(s)	6	57	797	1,027
2002 Total	9	171	32	1	9	3	(s)	6	52	795	1,027
2003 Total	8	173	35	1	10	4	(s)	. 9	59	796	1,036
2004 Total	10	170	34	1	10	3	(s)	10	58	816	1,054
2005 Total	9	163	33	2	8	3	(s)	9	55	842	1,069
2006 Total	6	154	29	1	8	3	(s)	6	48	836	1,043
2007 Total	7	164	28	1	8	4	(s)	6	47	861	1,079
2008 January	1	26	4	(s)	1	(s)	(s)	1	6	71	103
February	1	25	4	(s)	1	(s)	(s)	1	6	65	96
March	1	21	3	(s)	1	(s)	(s)	1	5	65	91
April	(s)	14	2	(s)	1	(s)	(s)	(s)	4	63	81
May	(s)	10	2	(s)	1	(s)	0	(s)	3	68	81
June	1	7	2	(s)	1	(s)	0	(s)	3	76	87
July	(s)	7	2	(s)	1	(s)	0	(s)	3	82	93
August	(s)	7	1	(s)	1	(s)	0	(s)	3	80	90
September	(s)	7	1	(s)	1	(s)	(s)	(s)	3	73	83
October	1	10	2	(s)	1	(s)	(s)	(s)	3	70	84
November	1	15	2	(s)	1	(s)	(s)	(s)	4	67	86
December	1	23	3	(s)	1	(s)	(s)	1	5	69	98
Total	7	170	27	(s)	10	3	(s)	6	46	850	1,073
2009 January	1	28	3	(s)	1	(s)	(s)	1	5	70	104
February	1	23	3	(s)	1	(s)	(s)	1	4	59	87
March	1	19	3	(s)	1	(s)	(s)	1	4	61	85
April	(s)	13	2	(s)	1	(s)	0	(s)	4	59	76
May	(s)	9	1	(s)	1	(s)	0	(s)	3	64	76
June	(s)	7	1	(s)	1	(s)	0	(s)	3	71	82
July	(s)	7	2	(s)	1	(s)	0	(s)	3	75	85
August	(s)	7	2	(s)	1	(s)	(s)	(s)	3	77	88
September	(s)	7	2	(s)	1	(s)	(s)	(s)	3	67	78
October	(s)	11	2	(s)	1	(s)	0	(s)	3	66	81
November	1	14	2	(s)	1	(s)	(s)	(s)	3	62	79
December	1	23	3	(s)	1	(s)	(s)	1	5	70	98
Total	6	168	25	(s)	10	3	(s)	5	44	802	1,019
2010 January	1	28	3	(s)	1	(s)	(s)	1	5	67	101
February	1	25	2	(s)	1	(s)	(s)	(s)	4	61	91
March	1	19	2	(s)	1	(s)	(s)	(s)	3	60	83
April	(s)	12	1	(s)	1	(s)	(s)	(s)	2	59	73
May	(s)	9	1	(s)	1	(s)	0	(s)	2	67	79
June	(s)	7	1	(s)	1	(s)	0	(s)	3	76	86
July	(s)	7	1	(s)	1	(s)	0	(s)	2	81	91
August	(s)	7	1	(s)	1	(s)	(s)	(s)	2	82	92
8-Month Total	4	114	12	(s)	7	2	(s)	2	24	553	695
2009 8-Month Total	4	114	17	(s)	7	2	(s)	3	29	536 574	683
2008 8-Month Total	4	116	18	(s)	7	2	(s)	4	32	571	723

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.

NA=Not available. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/environ.html for all available data beginning in 1973.

^c Distillate fuel oil, excluding biodiesel.

d Liquefied petroleum gases.

^e Finished motor gasoline, excluding fuel ethanol.

f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

(Million Metric Tons of Carbon Dioxidea)

		Coal		Petroleum								D. (- 1)		
	Coal	Coke Net Imports	Natural Gas ^b	Distillate Fuel Oil ^c	Kero- sene	LPG ^d	Lubri- cants	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Other ^f	Total	Retail Elec- tricity ⁹	Total
1973 Total	371	-1	538	106	11	43	7	18	49	144	100	478	515	1,902
1975 Total	336	2	442	97	9	39	6	16	48	117	97	427	490	1,696
1980 Total	289	-4	431	96	13	61	7	11	45	105	142	480	601	1,797
1985 Total	256	-2	360	81	3	58	6	15	54	57	93	369	583	1,566
1990 Total	258	1	432	84	1	39	7	13	64	31	127	366	638	1,695
1995 Total	233	7	490	82	1	45	7	14	67	24	114	355	659	1,743
1996 Total	227	3	506	86	1	46	6	14	70	24	132	381	678	1,795
1997 Total	224	5	506	88	1	48	7	15	68	21	138	386	694	1,815
1998 Total	219	8	495	88	2	39	7	14	77	16	125	368	706	1,796
1999 Total	208	7	474	86	1	48	7	11	81	14	130	378	704	1,772
2000 Total	211	7	481	87	1	56	7	11	74	17	117	370	719	1,788
2001 Total	204 188	3 7	439 449	95 88	2 1	49 54	6 6	21 22	77 76	14 13	132 127	395 388	667 654	1,709 1.686
2002 Total 2003 Total	190	6	449	83	2	54 50	6	22	76 76	15	140	394	672	1,692
2004 Total	191	16	431	88	2	55	6	26	82	17	142	419	675	1,731
2005 Total	183	5	398	92	3	55 51	6	26 25	80	20	141	419	673	1,731
2006 Total	179	7	394	92	2	56	6	26	82	16	150	430	650	1,661
2007 Total	175	3	406	92	1	54	6	21	80	13	148	415	662	1,662
2008 January	14	(s)	39	10	(s)	5	(s)	1	7	1	12	37	54	146
February	14	(s)	37	10	(s)	4	(s)	1	5	1	12	34	51	136
March	14	1	37	10	(s)	4	1	1	7	1	10	34	53	139
April	14	1	34	9	(s)	3	1	1	7	1	11	32	53	134
May	14	(s)	33	8	(s)	3	. 1	1	6	1	11	32	56	135
June	14	1	32	5	(s)	3	(s)	1	6	1	10	28	56	130
July	14	. 1	33	5	(s)	3	(s)	1	8	1	9	28	57	132
August	14	(s)	33	5	(s)	3	1 (-)	1	7	1	9	26	56	130
September	14	(s)	29	6	(s)	3	(s)	1	4	1	10	26	53	122
October	15	(s)	33	10	(s)	3	1	•	6	1	12	36	53 52	137
November	13 12	(s)	33 34	8 5	(s)	3 4	(s)	1 1	6 7	1 1	12 12	32 32	49	130 127
December Total	168	(s) 5	407	92	(s) (s)	42	(s) 6	17	76	14	130	376	642	1,597
2009 January	12	(s)	35	12	(s)	4	(s)	1	6	1	11	37	46	129
February	12	(s)	32	8	(s)	4	(s)	1	6	1	10	30	40	114
March	12	(s)	33	8	(s)	4	(s)	1	6	1	9	29	42	116
April	10	(s)	31	5	(s)	3	(s)	1	7	1	8	27	41	108
May	10	(s)	29	6	(s)	2	(s)	1	7	1	9	27	43	110
June	10	(s)	29	6	(s)	2	(s)	1	8	1	8	27	45	110
July	10	(s)	30	4	(s)	3	(s)	1	5	1	10	25	46	110
August	11	(s)	31	4	(s)	3	(s)	1	6	1	9	25	49	115
September	11 11	(s)	30 32	6 8	(s)	3 4	(s)	1	7 5	1 1	10 9	28 28	44 46	113 118
October		(s)	32	8	(s)	4 5	(s)	1	5 5	1	8	28 28	46 45	
November December	11 11	(s) (s)	36	9	(s) (s)	5	(s) (s)	1	5 6	1	9	28 31	45	117 125
Total	131	- 3	379	84	(s)	41	5	17	73	11	111	343	534	1,385
2010 January	12	(s)	R 37	9	(s)	5	(s)	1	3	1	9	29	45	123
February	12	(s)	35	9	(s)	4	(s)	1	4	1	9	29	43	R 119
March	13	(s)	35	11	(s)	4	(s)	1	6	1	11	35	44	128
April	12	(s)	32	9	(s)	3	(s)	1	5	1	11	32	44	^R 120
May	12	(s)	33	8	(s)	3	1	1	5	1	10	29	49	124
June	12	(s)	32	8	(s)	2	1	1	5	1	10	29	50	123
July	12	(s)	32	7	(s)	3	. 1	1	5	1	10	28	52	124
August	13	(s)	33	9	(s)	3	(s)	1	6	1	11	32	53	130
8-Month Total	100	1	269	70	(s)	27	4	11	40	8	82	242	380	992
2009 8-Month Total 2008 8-Month Total	86 114	-2 4	249 277	54 62	(s) (s)	25 28	3 4	11 11	51 52	8 9	75 83	227 251	351 435	912 1,082

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.

Tables 7.6 and 12.6.

R=Revised. (s)=Less than 0.5 million metric tons and greater than -0.5 million

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent

rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/environ.html for all available data beginning in 1973.

^c Distillate fuel oil, excluding biodiesel.

d Liquefied petroleum gases.

Finished motor gasoline, excluding fuel ethanol.
 Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas,

unfinished oils, waxes, and miscellaneous petroleum products.

^g Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales.

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector

(Million Metric Tons of Carbon Dioxidea)

						Petr	oleum				Deteil.	
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPGd	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total
1973 Total	(s)	39	6	163	152	3	6	886	57	1,273	2	1,315
1975 Total	(s)	32	5	155	145	3	6	889	56	1,258	2	1,292
1980 Total	(g)	34	4	204	155	1	6	881	110	1,363	2	1,400
1985 Total	(g)	28	3	232	178	2	6	908	62	1,391	3	1,421
1990 Total	(g)	36 38	3	268 307	223 222	1 1	7 6	967 1.029	80 72	1,548 1,639	3	1,588 1,681
1995 Total 1996 Total	(g)	30 39	3	307 327	232	1	6	1,029	67	1,683	3	1,725
1997 Total	(g)	41	3	342	234	1	6	1,057	56	1,699	3	1,744
1998 Total	(g)	35	2	352	238	i i	7	1.090	53	1.743	3	1,782
1999 Total	(g)	36	3	366	245	1	7	1,115	52	1,789	3	1,828
2000 Total	(g)	36	3	378	254	1	7	1,121	70	1,833	4	1,872
2001 Total	(g)	35	2	387	243	1	6	1,127	46	1,813	4	1,852
2002 Total	(g)	37	2	394	237	1	6	1,158	53	1,851	4	1,892
2003 Total	(g)	33	2	414	231	1	6	1,161	45	1,861	5	1,899
2004 Total	(g)	32	2	434	240	1	6	1,185	58	1,926	5	1,962
2005 Total	(g) (g)	33 33	2 2	444 469	246 240	2 2	6 5	1,186 1,194	66 71	1,953 1,984	5 5	1,991
2006 Total 2007 Total	(g)	35	2	469 472	238	1	6	1,194	71 78	1,984	5	2,022 2,040
2008 January	(g)	4	(s)	34	20	(s)	(s)	96	7	157	(s)	162
February	(g)	4	(s)	32	18	(s)	(s)	90	5	146	(s)	150
March	(g)	4	(s)	37	19	(s)	(s)	99	6	162	(s)	166
April	(g)	3	(s)	37	20	(s)	(s)	95	7	160	(s)	164
May	(g)	2	(s)	39	20	(s)	(s)	100	7	167	(s)	170
June	(g) (g)	3	(s)	38	20	(s)	(s)	95	6	159	(s)	162
July	(9)	3 3	(s)	39 39	20 20	(s)	(s) 1	99 98	7 5	165 164	(s)	168 167
August September	(9)	2	(s) (s)	39 37	20 18	(s) (s)	(s)	98 88	5 4	148	(s) (s)	151
October	(9)	3	(s)	40	18	(s)	(s)	97	6	161	(s)	164
November	(9)	3	(s)	36	17	(s)	(s)	93	5	151	(s)	154
December	(g)	4	(s)	35	17	(s)	(s)	96	7	156	(s)	160
Total	(g)	37	2	442	226	2	5	1,146	72	1,896	5	1,938
2009 January	(g)	4	(s)	32	16	(s)	(s)	93	7	149	(s)	154
February	(g) (g)	4	(s)	29	15	(s)	(s)	86	4	135	(s)	139
March	(9)	3 3	(s)	33 33	18 17	(s)	(s)	96 94	6 7	154 152	(s)	158 155
April May	(9)	2	(s) (s)	35	17	(s) (s)	(s) (s)	98	4	154	(s) (s)	157
June	(9)	2	(s)	35	17	(s)	(s)	95	6	154	(s)	157
July	(g)	3	(s)	36	19	(s)	(s)	99	3	157	(s)	160
August	(g)	3	(s)	36	18	(s)	(s)	100	4	159	(s)	162
September	(g)	3	(s)	34	17	(s)	(s)	92	3	147	(s)	150
October	(g)	3	(s)	35	17	(s)	(s)	96	5	154	(s)	157
November	(g)	3	(s)	33	16	(s)	(s)	92	5	147	(s)	150
December Total	(g) (g)	4 36	(s) 2	34 405	17 204	(s) 3	(s) 5	95 1,138	6 60	153 1,816	(s) 5	158 1,857
2010 January	(g)	4	(s)	31	17	(s)	(s)	91	6	146	(s)	151
February	(g)	4	(s)	30	15	(s)	(s)	83	5	134	(s)	138
March	(g)	3	(s)	35	18	(s)	(s)	93	6	153	(s)	157
April	(g)	3	(s)	35	17	(s)	(s)	94	6	152	(s)	155
May	(g)	3	(s)	36	18	(s)	(s)	98	6	158	(s)	161
June	(g)	3	(s)	36	18	(s)	1	95	5	155	(s)	158
July	(g) (g)	3	(s)	37	18	(s)	(s)	99	6	161	(s)	164
August 8-Month Total	(g)	3 26	(s) 1	38 276	19 139	(s) 2	(s) 4	100 753	5 44	162 1,220	(s) 3	165 1,249
2009 8-Month Total	(^g)	24	1	269	137	2	3	762	41	1,214	3	1,242
2008 8-Month Total	(g)	25	1	295	156	2	4	772	49	1,280	3	1,308

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

reported as industrial sector consumption.

(s)=Less than 0.5 million metric tons.

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent

rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/emeu/mer/environ.html for all available data beginning in 1973.

b Natural gas, excluding supplemental gaseous fuels.
 c Distillate fuel oil, excluding biodiesel.

d Liquefied petroleum gases.

e Finished motor gasoline, excluding fuel ethanol.

f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

^g Beginning in 1978, the small amounts of coal consumed for transportation are

Table 12.6 Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector

(Million Metric Tons of Carbon Dioxide^a)

				Petro	leum			Non- Biomass Waste ^d	Total
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal		
1973 Total	812	199	20	2	254	276	NA.	NA	1,286
1975 Total	824	172	17	(s)	231	248	NA	NA	1,244
1980 Total	1,137	200	12	`1	194	207	NA	NA	1,544
1985 Total	1,367	166	6	1	79	86	NA	NA	1,619
1990 Total	1,548	176	7	3	92	102	(s)	6	1,831
1995 Total	1,661	228	8	8	45	61	(s)	10	1,960
1996 Total	1,752	205	8	8	50	66	(s)	10	2,033
1997 Total	1,797	219	8	10	56	75	(s)	10	2,101
1998 Total	1,828	248	10	13	82	105	(s)	10	2,192
1999 Total	1,836	260	10	11	76	97	(s)	10	2,204
2000 Total	1,927	281	13	10	69	91	(s)	10	2,310
2001 Total	1,870	290	12	11	79	102	(s)	11	2,273
2002 Total	1,890	306	9	18	52	79	(s)	13	2,288
2003 Total	1,931	278	12	18	69	98	(s)	11	2,319
2004 Total	1,943	297	8	23	69	100	(s)	11	2,352
2005 Total	1,984	319	8	25	69	102	(s)	11	2,417
2006 Total	1.954	338	5	22	28	56	(s)	12	2,359
2007 Total	1,987	372	7	17	31	55	(s)	11	2,426
							ļ , ,		
2008 January	178	29	1	1	2	4	(s)	1	212
February	163	24	1	1	1	3	(s)	1	191
March	157	25	(s)	1	1	3	(s)	1	185
April	145	26	(s)	1	1	3	(s)	1	174
May	153	26	(s)	1	1	3	(s)	1	182
June	168	36	1	1	2	4	(s)	1	210
July	185	42	(s)	1	2	4	(s)	1	232
August	180	41	(s)	1	2	3	(s)	1	226
September	161	33	(s)	1	2	4	(s)	1	198
October	151	30	(s)	1	1	3	(s)	1	184
November	152	25	(s)	1	1	3	(s)	1	181
December	168	26	1	1	2	4	(s)	1	199
Total	1,959	362	5	16	19	40	(s)	12	2,374
2009 January	170	26	1	1	3	5	(s)	1	202
February	139	24	(s)	1	1	3	(s)	i	167
March	135	27	1	i	i	3	(s)	i	166
April	125	25	(s)	1	i	2	(s)	i	154
May	132	28	(s)	1	i	3	(s)	i	164
June	148	35	(s)	1	i	3	(s)	i	187
July	158	42	(s)	i	i	3	(s)	1	204
August	162	46	(s)	1	2	3	(s)	i	212
September	138	37	(s)	1	1	3	(s)	i	179
October	140	29	(s)	1	1	2	(s)	1	173
November	137	25	(s)	1	1	2	(s)	1	165
December	165	28	(s)	1	1	2	(s)	1	196
Total	1,748	373	5	14	14	34	(s)	12	2,167
	,						``,		•
2010 January	169	29	1	1	1	4	(s)	1	203
February	149	26	(s)	1	1	2	(s)	1	178
March	143	25	(s)	1	1	2	(s)	1	170
April	125	26	(s)	1	1	2	(s)	1	154
May	141	31	(s)	1	1	3	(s)	1	176
June	163	39	1	1	2	4	(s)	1	206
July	177	49	1	2	2	4	(s)	1	231
August	176	51	(s)	1	2	3	(s)	1	232
8-Month Total	1,243	275	4	10	9	24	(s)	8	1,550
2009 8-Month Total	1,168	254	4	10	11	25	(s)	8	1,455
	1,100	207	1 7	10			(3)		1,700

^a Metric tons of carbon dioxide can be converted to metric tons of carbon Metric tons of carbon dioxide can be converted to metric tons of carbon dioxide can be converted to metric tons of cequivalent by multiplying by 12/44.

 Natural gas, excluding supplemental gaseous fuels.

 Distillate fuel oil, excluding biodiesel.

 Municipal solid waste from non-biogenic sources, and tire-derived fuels.

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion, at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/emeu/mer/environ.html for all available data

beginning in 1973.

NA=Not available. (s)=Less than 0.5 million metric tons.

Environment

Note 1. Emissions of Carbon Dioxide and Other Greenhouse Gases. Greenhouse gases are those gases—such as water vapor, carbon dioxide (CO₂), methane, nitrous oxide, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride—that are transparent to solar (shortwave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Energy-related carbon dioxide emissions account for about 98 percent of U.S. CO₂ emissions. The vast majority of CO₂ emissions come from fossil fuel combustion, with smaller amounts from the nonfuel use of fossil fuels, as well as from electricity generation using geothermal energy and non-biomass waste. Other sources of CO₂ emissions include industrial processes, such as cement and limestone production. Data in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review* Tables 12.1–12.6 are estimates for U.S. CO₂ emissions from energy consumption.

For annual U.S. estimates for emissions of CO₂ from all sources, as well as for emissions of other greenhouse gases, see EIA's *Emissions of Greenhouse Gases Report* at http://www.eia.gov/oiaf/1605/ggrpt/carbon.html.

Note 2. Accounting for Carbon Dioxide Emissions From **Biomass Energy Combustion.** Carbon dioxide (CO₂) emissions from the combustion of biomass to produce energy are excluded from the energy-related CO₂ emissions reported in the Monthly Energy Review. According to current international convention (see the Intergovernmental Panel on Climate Change's "2006 IPCC Guidelines for National Greenhouse Gas Inventories"), carbon released through biomass combustion is excluded from reported energy-related emissions. The release of carbon from biomass combustion is assumed to be balanced by the uptake of carbon when the feedstock is grown, resulting in zero net emissions over some period of time. (This is not to say that biomass energy is carbon-neutral. Energy inputs are required in order to grow, fertilize, and harvest the feedstock and to produce and process the biomass into fuels.)

However, analysts have debated whether increased use of biomass energy may result in a decline in terrestrial carbon stocks, leading to a net positive release of carbon rather than the zero net release assumed by its exclusion from reported energy-related emissions. For example, the clearing of forests for biofuel crops could result in an initial release of carbon that is not fully recaptured in subsequent use of the land for agriculture.

To reflect the potential net emissions, the international convention for greenhouse gas inventories is to report biomass emissions in the category "agriculture, forestry, and other land use," usually based on estimates of net changes in carbon stocks over time.

This indirect accounting of CO₂ emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO₂ emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO₂ emissions from biomass combustion alongside other energy-related CO₂ emissions offers an alternative accounting treatment. It isimportant, however, to avoid misinterpreting emissions from fossil energy and biomass energy sources as necessarily additive. Instead, the combined total of direct CO₂ emissions from biomass and energy-related CO₂ emissions implicitly assumes that none of the carbon emitted was previously or subsequently reabsorbed in terrestrial sinks or that other emissions sources offset any such sequestration.

According to the EIA's *Annual Energy Outlook 2010*, including direct CO₂ emissions from biomass energy combustion would increase the 2008 total for energy-related CO₂ emissions by 353 million metric tons (6.1 percent). If in fact these emissions are all offset by biological sequestration, the net emissions would be zero as assumed in EIA's totals.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1–12.6, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine Fossil Fuel Consumption

Coal—Coal sectoral (residential, commercial, coke plants, other industrial, transportation, electric power) consumption data in thousand short tons are from MER Table 6.2. Coal sectoral consumption data are converted to trillion Btu by multiplying by the coal heat content factors in MER Table A5.

Coal Coke Net Imports—Coal coke net imports data in trillion Btu are derived from coal coke imports and exports data in MER Tables 1.4a and 1.4b.

Natural Gas (excluding supplemental gaseous fuels)—Natural gas sectoral consumption data in trillion Btu are from MER Tables 2.2–2.6.

Petroleum—Total and sectoral consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, liquefied petroleum gases (LPG), lubricants, motor gasoline, petroleum coke, and residual fuel oil are from MER Tables 3.5 and 3.7a–3.7c. For the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) and "other petroleum" (aviation gasoline blending components, crude

oil, motor gasoline blending components, naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products), consumption (product supplied) data in thousand barrels per day are from EIA's *Petroleum Supply Annual (PSA)*, *Petroleum Supply Monthly (PSM)*, and earlier publications (see sources for MER Table 3.5). Petroleum consumption data by product are converted to trillion Btu by multiplying by the petroleum heat content factors in MER Table A1 (Table A3 for motor gasoline).

Step 2. Remove Biofuels From Petroleum

Distillate Fuel Oil—Beginning in 2009, the distillate fuel oil data (for total and transportation sector) in Step 1 include biodiesel, a non-fossil renewable fuel. To remove the biodiesel portion from distillate fuel oil, data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel (from the PSA/PSM) are converted to trillion Btu by multiplying by the biodiesel heat content factor in MER Table A3, and then subtracted from the distillate fuel oil consumption values.

Motor Gasoline—Beginning in 1993, the motor gasoline data (for total, commercial sector, industrial sector, and transportation sector) in Step 1 include fuel ethanol, a nonfossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from MER Tables 10.2a, 10.2b, and 10.3) are subtracted from the motor gasoline consumption values. (Note that about 2 percent of fuel ethanol is fossil-based petroleum denaturant, to make the fuel ethanol undrinkable. For 1993–2008, petroleum denaturant is double counted in the PSA product supplied statistics, in both the original product category—e.g., pentanes plus—and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

The following fuels have industrial nonfuel uses as chemical feedstocks and other products: coal, natural gas, asphalt and road oil, distillate fuel oil, liquefied petroleum gases (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene), lubricants (which have industrial and transportation nonfuel uses), naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, petroleum coke, residual fuel oil, special naphthas, still gas, waxes, and miscellaneous petroleum products. In the nonfuel use of these fuels, some of the carbon is sequestered, and is thus subtracted from the fuel consumption values in Steps 1 and 2.

Estimates of annual nonfuel use and associated carbon sequestration are developed by EIA using the methodology

detailed in "Documentation for *Emissions of Greenhouse Gases in the United States* 2006" at http://www.eia.gov/oiaf/1605/ggrpt/documentation/pdf/0638(2006).pdf.

To obtain monthly estimates of nonfuel use and associated carbon sequestration, monthly patterns for industrial consumption and product supplied data series are used. For coal nonfuel use, the monthly pattern for coke plants coal consumption from MER Table 6.2 is used. For natural gas, the monthly pattern for other industrial non-CHP natural gas consumption from MER Table 4.3 is used. For distillate fuel oil, petroleum coke, and residual fuel oil, the monthly patterns for industrial consumption from MER Table 3.7b are used. For the other petroleum products, the monthly patterns for product supplied from the PSA and PSM are used.

Step 4. Determine Carbon Dioxide Emissions From Energy Consumption

Carbon dioxide (CO₂) emissions data in million metric tons for fossil fuels are calculated by multiplying consumption values in trillion Btu from Steps 1 and 2 (minus the carbon sequestered in nonfuel use in Step 3) by the CO₂ emissions factors

at http://www.eia.gov/oiaf/1605/ggrpt/excel/CO2_coeffs_08.xls

http://www.eia.gov/oiaf/1605/ggrpt/excel/CO2_coeffs_08.xls (and revised factors beginning in 1990 for coal and motor gasoline). Beginning in 2009, the 2008 factors are used.

Coal—CO₂ emissions for coal are calculated for each sector (residential, commercial, coke plants, other industrial, transportation, electric power). Total coal emissions are the sum of the sectoral coal emissions.

Coal Coke Net Imports—CO₂ emissions for coal coke net imports are calculated using a coal coke factor of 114.14 million metric tons CO₂ per quadrillion Btu.

Natural Gas—CO₂ emissions for natural gas are calculated for each sector (residential, commercial, industrial, transportation, electric power). Total natural gas emissions are the sum of the sectoral natural gas emissions.

Petroleum—CO₂ emissions are calculated for each petroleum product. Total petroleum emissions are the sum of the product emissions. Total LPG emissions are the sum of the emissions for the component products (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene); residential, commercial, and transportation sector LPG emissions are estimated by multiplying consumption values in trillion Btu from MER Tables 3.8a and 3.8c by the propane emissions factor; industrial sector LPG emissions are estimated as total LPG emissions minus emissions by the other sectors.

Geothermal and Non-Biomass Waste—Annual 1989–2008 CO₂ emissions data for geothermal and non-biomass waste are from EIA's *Annual Energy Review (AER)*, Table 12.7b. Monthly estimates are created by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month. (Annual estimates for the current year are set equal to those of the previous year.)



Appendix

British Thermal Unit Conversion Factors

The thermal conversion factors presented in the following tables can be used to estimate the heat content in British thermal units (Btu) of a given amount of energy measured in physical units, such as barrels or cubic feet. For example, 10 barrels of asphalt has a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu per barrel = 66.36 million Btu).

The heat content rates (i.e., thermal conversion factors) provided in this section represent the gross (or higher or upper) energy content of the fuels. Gross heat content rates are applied in all Btu calculations for the *Monthly Energy Review* and are commonly used in energy calculations in the United States; net (or lower) heat content rates are typically used in European energy calculations. The difference between the two rates is the amount of energy that is consumed to vaporize water that is created during the combustion process. Generally, the difference ranges from 2 percent to 10 percent, depending on the specific fuel and its hydrogen content. Some fuels, such as unseasoned wood, can be more than 40 percent different in their gross

and net heat content rates. See "Heat Content" and "British Thermal Unit (Btu)" in the Glossary for more information.

Thermal conversion factors for hydrocarbon mixes (Table A1) are weighted averages of the thermal conversion factors for each hydrocarbon included in the mix. For example, in calculating the thermal conversion factor for a 60-40 butane-propane mixture, the thermal conversion factor for butane is weighted 1.5 times the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products (Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Pentanes Plus	4.620
Aviation Gasoline	5.048	Petrochemical Feedstocks	
Butane	4.326	Naptha Less Than 401°F	5.248
Butane-Propane Mixture ^a	4.130	Other Oils Equal to or Greater Than 401°F	5.825
Distillate Fuel Oil ^b	5.825	Still Gas	6.000
Ethane	3.082	Petroleum Coke	6.024
Ethane-Propane Mixture ^c	3.308	Plant Condensate	5.418
Isobutane	3.974	Propane	3.836
Jet Fuel, Kerosene Type	5.670	Residual Fuel Oil	6.287
Jet Fuel, Naphtha Type	5.355	Road Oil	6.636
Kerosene	5.670	Special Naphthas	5.248
Lubricants	6.065	Still Gas	6.000
Motor Gasolined		Unfinished Oils	5.825
Conventional	5.253	Unfractionated Stream	5.418
Reformulated	5.150	Waxes	5.537
Oxygenated	5.150	Miscellaneous	5.796
Natural Gasoline and Isopentane	4.620		

^a 60 percent butane and 40 percent propane.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

^b Does not include biodiesel. See Table A3 for biodiesel heat contents.

^{° 70} percent ethane and 30 percent propane.

d See Table A3 for motor gasoline weighted heat contents beginning in 1994, and for fuel ethanol heat contents.

Table A2. Approximate Heat Content of Petroleum Production, Imports, and Exports (Million Btu per Barrel)

	Production			Imports			Exports		
	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total	
1973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752	
1974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774	
1975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748	
1976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745	
1977		3.941	5.810	5.908	5.834	5.800	5.796	5.797	
1978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808	
1979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832	
1980		3.914	5.812		5.796	5.800	5.841	5.820	
	5.800	3.930	5.812 5.818	5.748 5.659	5.796 5.775	5.800	5.837	5.820	
1981									
1982	5.800	3.872	5.826	5.664	5.775 5.774	5.800	5.829	5.820 5.800	
		3.839	5.825	5.677		5.800	5.800		
1984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850	
1985	5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814	
1986	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832	
1987	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858	
1988	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840	
1989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857	
1990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833	
1991	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823	
1992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777	
1993	5.800	3.801	5.954	5.620	5.883	5.800	5.777	5.779	
1994		3.794	5.950	5.534	5.861	5.800	5.777	5.779	
1995	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746	
1996	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736	
1997	5.800	3.762	5.954	5.469	5.862	5.800	5.726	5.734	
1998	5.800	3.769	5.953	5.462	5.861	5.800	5.710	5.720	
1999	5.800	3.744	5.942	5.421	5.840	5.800	5.684	5.699	
2000	5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658	
2001	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752	
2002	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688	
2003	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740	
2004	5.800	3.724	5.981	5.475	5.863	5.800	5.753	5.754	
2005	5.800	3.724	5.977	5.474	5.845	5.800	5.741	5.743	
2006	5.800	3.712	5.980	5.454	5.842	5.800	5.723	5.724	
2007	5.800	3.701	5.985	5.503	5.862	5.800	5.749	5.750	
2008		3.706	5.990	5.479	5.866	5.800	5.762	5.762	
2009	5.800	3.692	5.988	5.525	5.882	5.800	5.737	5.738	
2010 ^E	5.800	3.692	5.988	5.525	5.882	5.800	5.737	5.738	

^a Includes lease condensate.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary. Web Page: http://www.eia.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

E=Estimate.

Table A3. Approximate Heat Content of Petroleum Consumption and Biofuels Production (Million Btu per Barrel)

		Total Pet	roleum ^a C	onsumption b	y Sector		Liquefied			Fuel		D': #:
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Petroleum Gases Con- sumption ^f	Motor Gasoline Con- sumption ^g	Fuel Ethanol ^h	Ethanol Feed- stock Factor ⁱ	Biodiesel	Biodiesel Feed- stock Factor
1973	5.258	5.689	5.557	5.396	6.245	5.515	3.746	5.253	NA	NA	NA	NA
1974	5.253	5.683	5.525	5.394	6.238	5.504	3.730	5.253	NA NA	NA NA	NA NA	NA NA
1975	5.253	5.649	5.513	5.392	6.250	5.494	3.715	5.253	NA NA	NA	NA NA	NA NA
1976	5.277	5.672	5.523	5.396	6.251	5.504	3.713	5.253	NA NA	NA	NA NA	NA
1977	5.285	5.682	5.539	5.401	6.249	5.518	3.677	5.253	NA	NA	NA NA	NA
1978	5.287	5.665	5.536	5.405	6.251	5.519	3.669	5.253	NA	NA	NA NA	NA NA
1979	5.365	5.717	5.409	5.429	6.258	5.494	3.680	5.253	NA	NA	NA NA	NA
1980	5.321	5.751	5.366	5.441	6.254	5.479	3.674	5.253	3.563	6.586	NA NA	NA
1981	5.283	5.693	5.299	5.433	6.258	5.448	3.643	5.253	3.563	6.562	NA NA	NA
1982	5.266	5.698	5.247	5.423	6.258	5.415	3.615	5.253	3.563	6.539	NA NA	NA
1983	5.140	5.591	5.254	5.416	6.255	5.406	3.614	5.253	3.563	6.515	NA NA	NA
1984	5.307	5.657	5.207	5.418	6.251	5.395	3.599	5.253	3.563	6.492	NA	NA
1985	5.263	5.598	5.199	5.423	6.247	5.387	3.603	5.253	3.563	6.469	NA	NA
1986	5.268	5.632	5.269	5.426	6.257	5.418	3.640	5.253	3.563	6.446	NA	NA
1987	5.239	5.594	5.233	5.429	6.249	5.403	3.659	5.253	3.563	6.423	NA	NA
1988	5.257	5.597	5.228	5.433	6.250	5.410	3.652	5.253	3.563	6.400	NA	NA
1989	5.194	5.549	5.219	5.438	^d 6.240	5.410	3.683	5.253	3.563	6.377	NA	NA
1990	5.145	5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA	NA
1991	5.094	5.528	5.167	5.441	6.246	5.384	3.614	5.253	3.563	6.332	NA	NA
1992	5.124	5.513	5.168	5.443	6.238	5.378	3.624	5.253	3.563	6.309	NA	NA
1993	5.102	^b 5.505	^b 5.178	^b 5.436	6.230	^b 5.379	3.606	5.253	3.563	6.287	NA	NA
1994	5.098	5.515	5.150	5.424	6.213	5.361	3.635	f5.230	3.563	6.264	NA	NA
1995	5.063	5.478	5.121	5.417	6.188	5.341	3.623	5.215	3.563	6.242	NA	NA
1996	4.998	5.433	5.114	5.420	6.195	5.336	3.613	5.216	3.563	6.220	NA	NA
1997	4.989	5.391	5.120	5.416	6.199	5.336	3.616	5.213	3.563	6.198	NA	NA
1998	4.975	5.365	5.137	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA	NA
1999	4.902	5.291	5.092	5.413	6.205	5.328	3.616	5.211	3.563	6.167	NA	NA
2000	4.908	5.316	5.057	5.422	6.189	5.326	3.607	5.210	3.563	6.159	NA	NA
2001	4.937	5.325	5.142	5.412	6.199	5.345	3.614	5.210	3.563	6.151	5.359	5.433
2002	4.886	5.293	5.093	5.411	6.173	5.324	3.613	5.208	3.563	6.143	5.359	5.433
2003	4.907	5.307	5.142	5.409	6.182	5.340	3.629	5.207	3.563	6.116	5.359	5.433
2004	4.953	5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	5.433
2005	4.916	5.364	5.178	5.427	6.188	5.365	3.620	5.218	3.563	6.063	5.359	5.433
2006	4.894	5.310	5.160	5.431	6.143	5.353	3.605	5.218	3.563	6.036	5.359	5.433
2007	4.850	5.298	5.127	5.434	6.151	5.346	3.591	5.219	3.563	6.009	5.359	5.433
2008	4.728	5.173	5.148	5.426	6.123	5.339	3.600	5.218	3.563	5.983	5.359	5.433
2009	E4.668	E5.108	E5.045	c E 5.412	P6.105	_5.301	_3.558	_5.218	_3.563	5.957	5.359	5.433
2010	E4.668	E5.108	E5.045	E5.412	^E 6.105	E5.301	E3.558	E5.218	E3.563	5.930	5.359	5.433

a Petroleum products supplied, including natural gas plant liquids and crude oil burned directly as fuel. Quantity-weighted averages of the petroleum products included in each category are calculated by using heat content values shown in Table A1.

P=Preliminary. E=Estimate. NA=Not available.

Note: The heat content values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/emeu/mer/append a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

b Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids.

f Quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

9 There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted

factor—quantity-weighted averages of the major components of motor gasoline, including fuel ethanol, are calculated by using heat content values shown in Table A3.

h Includes denaturant (petroleum added to ethanol to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539). million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The factor for 2009 is used as the estimated factor for 1980-2008 and 2010.

Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the production of undenatured ethanol. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

j Soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel), used as the factor to estimate total biomass inputs to the production of biodiesel. It is assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. Soybean oil is assumed to have a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel. Biodiesel is assumed to have a gross heat content of 17,253 Btu per pound, or 5.359 million Btu per barrel.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Produ	ction		Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
1973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
1974	1,097	1,024	1,024	1,022	1,024	1,027	1,016
1975	1,095	1,021	1,020	1,026	1.021	1,026	1,014
976	1,093	1,020	1,019	1,023	1,020	1,025	1,013
977	1,093	1,021	1,019	1,029	1,021	1,026	1,013
978	1,088	1.019	1.016	1.034	1.019	1.030	1.013
979	1,092	1,021	1,018	1,035	1,021	1,037	1,013
980	1,098	1,026	1,024	1,035	1,026	1,022	1,013
981	1,103	1,027	1,025	1,035	1,027	1,014	1,011
982	1.107	1,028	1,026	1,036	1,028	1,018	1,011
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1.110	1.030	1.029	1.034	1.030	997	1.008
987	1,112	1,031	1,031	1,032	1,031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1.107	1,031	1,031	c1.028	1,031	1.004	1,019
990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
991	1,108	1,030	1,031	1,025	1,030	1,014	1,022
992	1,110	1.030	1,031	1,025	1,030	1.011	1,018
993	1,106	1,027	1,028	1,025	1,027	1,020	1,016
994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1,106	1,026	1,029	1,021	1,026	1,021	1,011
996	1,109	1,026	1.027	1,020	1,026	1,021	1,011
997	1,109	1,026	1,027	1,020	1,026	1,022	1,011
998	1,107	1,026	1,033	1,024	1,026	1,023	1,011
	1,109	1,027	1,033	1,022	1,027	1,023	1,006
999	1,107						
000	1,107	1,025 1,028	1,026 1,029	1,021 1,026	1,025 1,028	1,023 1,023	1,006 1,010
001						,	
002	1,106	1,027	1,029	1,020	1,027	1,022	1,008
003	1,106	1,028	1,029	1,025	1,028	1,025	1,009
004	1,104	1,026	1,026	1,027	1,026	1,025	1,009
005	1,104	1,028	1,028	1,028	1,028	1,025	1,009
2006	1,103	1,028	1,028	1,028	1,028	1,025	1,009
2007	1,104	1,029	1,030	1,027	1,029	1,025	1,009
2008	1,100	1,027	1,027	1,027	1,027	1,025	1,009
2009	E1,100	E1,026	E1,027	P1,025	E1,026	E1,025	E1,009
2010	E1,100	E1,026	E1,027	E1,025	E1,026	E1,025	E1,009

a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels.
 b Residential, commercial, industrial, and transportation sectors.

c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. P=Preliminary. E=Estimate.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

					Coal					Coal Coke
				C	onsumption					
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Wasta	Residential	Industria	Sector	Flootrio				lmm anta
	Production ^a	Waste Coal Supplied ^b	and Commercial Sectors	Coke Plants	Other ^c	Power Sector d,e	Total	Imports	Exports	Imports and Exports
1973	23.376	NA	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800
1974	23.072	NA	22.479	26.778	22.419	21.781	22.677	25.000	26.700	24.800
1975	22.897	NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1976	22.855	NA	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800
1977	22.597	NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1978	22.248	NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979	22.454	NA	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1980	22.415	NA	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800
1981	22.308	NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1982	22.239	NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
1983	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984	22.010	NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986	21.913	NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
1988	21.823	NA	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800
1989	21.765	^b 10.391	23.650	26.800	22.347	^d 20.898	21.307	25.000	26.160	24.800
1990	21.822	9.303	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
1991	21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
1992	21.682	10.736	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800
1993	21.418	10.638	22.994	26.800	22.123	20.677	21.000	25.000	26.335	24.800
1994	21.394	11.097	23.112	26.800	22.123	20.589	20.929	25.000	26.329	24.800
1995	21.326	11.722	23.112	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996	21.322	12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
1997	21.296	12.147	22.494	26.800	22.103	20.518	20.830	25.000	26.251	24.800
1998	21.418	12.136	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999	21.070	12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000	21.070	12.360	25.020	27.426	22.433	20.490	20.828	25.000	26.117	24.800
	^a 20.772				22.433					24.800
2001	20.772	12.169 12.165	24.909 22.962	27.426 27.426	22.622 22.562	20.337 20.238	20.671 20.541	25.000 25.000	25.998 26.062	24.800 24.800
2003	20.499 20.424	12.360 12.266	22.242 22.324	27.425 27.426	22.468	20.082	20.387 20.290	25.000 25.000	25.972 26.108	24.800 24.800
2004					22.473	19.980				
2005	20.348 20.310	12.093	22.342	26.279 26.271	22.178	19.988	20.246 20.181	25.000	25.494 25.453	24.800 24.800
2006		12.080	22.066		22.050	19.931		25.000		
2007	20.340	12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008 2009 ^P	20.208	12.121	21.887	26.281	22.348	19.713	19.977	25.000	25.399	24.800
	19.973	12.245	21.285	26.334	21.893	19.536	19.753	25.000	25.633	24.800
2010 ^E	19.973	12.245	21.285	26.334	21.893	19.536	19.753	25.000	25.633	24.800

a Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine, and cleaned to reduce the concentration of noncombustible

P=Preliminary. E=Estimate. NA=Not available.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

materials).

b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and the large that are a great of wester coal included in "Consumption". industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption. ^c Includes transportation. Excludes coal synfuel plants.

d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

Electric power sector factors are for anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity (Btu per Kilowatthour)

	Approximate I			
	Fossil-Fueled Plants ^{b,c}	Nuclear Plants ^d	Geothermal Energy Plants ^e	Heat Content ^f of Electricity ^g
973	10,389	10,903	21,674	3,412
974	10.442	11.161	21.674	3,412
975	10,406	11,013	21,611	3,412
976	10,373	11,047	21,611	3.412
977	10,435	10,769	21,611	3,412
978	10,361	10,941	21,611	3,412
979	10,353	10.879	21.545	3.412
980	10,388	10,908	21,639	3,412
981	10,453	11,030	21,639	3,412
982	10,454	11,073	21,629	3.412
983	10,520	10,905	21,290	3.412
984	10.440	10.843	21,303	3.412
985	10,447	10,622	21,263	3,412
986	10,446	10,579	21,263	3,412
987	10,419	10,442	21,263	3.412
988	10,324	10.602	21,096	3.412
989	10,432	10,583	21,096	3.412
990	10,402	10,582	21,096	3,412
991	10,436	10,484	20,997	3.412
992	10,342	10,471	20,914	3,412
993	10,309	10.504	20.914	3.412
994	10,316	10,452	20,914	3,412
995	10,312	10,507	20,914	3,412
996	10,340	10,503	20,960	3,412
997	10,213	10.494	20,960	3.412
998	10,197	10,491	21,017	3.412
999	10,226	10.450	21.017	3.412
000	10,201	10,429	21,017	3,412
001	c _{10,333}	10,443	21,017	3.412
002	10,173	10,442	21,017	3,412
003	10,241	10.421	21.017	3.412
004	10,022	10,427	21,017	3,412
005	9,999	10,436	21,017	3,412
006	9,919	10,436	21,017	3,412
007	9.884	10.485	21.017	3.412
2008	9.854	10.453	21,017	3.412
2009	E 9,854	E 10.453	E 21,017	3.412
2010	E 9,854	E 10,453	E 21,017	3,412

^a The values in columns 1-3 of this table are for net heat rates. See "Heat Rate" in Glossary.

Web Page: http://www.eia.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows this table.

b Used as the thermal conversion factor for hydro, solar/photovoltaic, and wind electricity net generation to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste at electric utilities are available from surveys.

data for wood and waste at electric utilities are available from surveys.

^c Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and electricity-only independent power producers.

utilities and electricity-only independent power producers.

^d Used as the thermal conversion factor for nuclear electricity net generation.

e Used as the thermal conversion factor for geothermal electricity net generation.

f See "Heat Content" in Glossary.

⁹ The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports. E=Estimate.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The U.S. Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973–1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, Petroleum Supply Annual, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for

previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See Fuel Ethanol (Denatured).

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See **Distillate Fuel Oil**.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal

conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the

Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement*, *Annual*, 1970.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970*.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement*, *Annual*, 1970.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **Petroleum Products Exports**.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume 3, 1977*.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume 2, 1981*.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of Biofuels

Biodiesel. EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, or 17,253 Btu per pound.

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds

of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). 1981–2008 and 2010: EIA used the 2009 factor. 2009: Calculated by EIA as the annual quantity-weighted average of the thermal conversion factors for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The quantity of ethanol consumed is from EIA, Petroleum Supply Annual (PSA), Table 1, data for renewable fuels and oxygenate plant net production of fuel ethanol. The quantity of pentanes plus used as denaturant is from EIA, PSA, Table 1, data for renewable fuels and oxygenate plant net production of pentanes plus, multiplied by -1. The quantity of conventional motor gasoline and motor gasoline blending components used as denaturant is from EIA, PSA, Table 1, data for renewable fuels and oxygenate plant net production of conventional motor gasoline and motor gasoline blending components, multiplied by -1.

Fuel Ethanol Feedstock. EIA used corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol) as the annual factor to estimate total biomass inputs to the production of undenatured ethanol. U.S. Department of Agriculture observed ethanol yields (gallons undenatured ethanol per bushel of corn) were 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; EIA estimated the ethanol yields in other years. EIA also assumed that corn has a gross heat content of 0.392 million Btu per bushel.

Approximate Heat Content of Natural Gas

Natural Gas Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed.

Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see Natural Gas Production, Dry) and natural gas plant liquids produced (see Natural Gas Plant Liquids Production) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal

consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, "Coal Distribution Report." Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton.

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Waste Coal Supplied. Calculated annually by EIA by dividing the total heat content of waste coal supplied by the quantity supplied. For 1989–1997, data are from Form EIA-867, "Annual Nonutility Power Producer Report." For 1998–2000, data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility." For 2001 forward, data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms.

Approximate Heat Rates for Electricity

Electricity Net Generation, Fossil-Fueled Plants. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossilfueled power plants in the United States. By using that factor, it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu. 1973-1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. 1989-2000: Calculated annually by EIA by using the

heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for all electric utilities and electricity-only independent power producers using fossil fuels.

Electricity Net Generation, Geothermal Energy Plants. 1973–1981: Calculated annually by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12, "Power System Statement." 1982 forward: Estimated annually by EIA on the basis of an informal survey of relevant plants.

Electricity Net Generation, Nuclear Plants. 1973–1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1, "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms), and the generation reported on Form EIA-923, "Power Plant Operations Report" (and predecessor forms).



Appendix

Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other U.S. Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short

tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels \times 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb U ₃ O ₈)	=	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m³)
	1 cubic yard (yd³)	=	0.764 555	cubic meters (m³)
	1 cubic foot (ft ³)	=	0.028 316 85	cubic meters (m³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
	1 yard (yd)	=	0.914 4 ^a	meters (m)
	1 foot (ft)	=	0.304 8 ^a	meters (m)
	1 inch (in)	=	2.54ª	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)
	1 square yard (yd²)	=	0.836 127 4	square meters (m²)
	1 square foot (ft²)	=	0.092 903 04°	square meters (m²)
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu)°	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8 ^a	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
	212 degrees Fahrenheit (°F)	=	100°	degrees Celsius (°C)

^aExact conversion.

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 1993), pp. 9-11, 13, and 16. • U.S. Department of Commerce, National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268-1992, pp. 28 and 29.

^bCalculated by the U.S. Energy Information Administration.

^cThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. ^dTo convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

Web Page: http://www.eia.gov/emeu/mer/append_b.html.

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 ¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10 ⁻²	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	M	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	Е	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

Web Page: http://www.eia.gov/emeu/mer/append_b.html. Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units		
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)	
Coal	1 short ton	=	2,000ª	pounds (lb)	
	1 long ton	=	2,240 ^a	pounds (lb)	
	1 metric ton (t)	=	1,000°	kilograms (kg)	
Wood	1 cord (cd)	=	1.25 ^b	shorts tons	
	1 cord (cd)	=	128 ^a	cubic feet (ft3)	

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

^bCalculated by the U.S. Energy Information Administration.

Web Page: http://www.eia.gov/emeu/mer/append_b.html.

Glossary

Alcohol: The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a **hydrocarbon** plus a hydroxyl group; CH(3)-(CH(2))_n-OH (e.g., **methanol**, **ethanol**, and tertiary butyl alcohol). See **Fuel Ethanol**.

Alternative Fuel: Alternative fuels, for transportation applications, include the following: methanol; denatured ethanol, and other alcohols; fuel mixtures containing 85 percent or more by volume of methanol, denatured ethanol, and other alcohols with motor gasoline or other fuels; natural gas; liquefied petroleum gas (propane); hydrogen; coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials (biofuels such as soy diesel fuel); electricity (including electricity from solar energy); and "... any other fuel the Secretary determines, by rule, is substantially not petroleum and would yield substantial energy security benefits and substantial environmental benefits." The term "alternative fuel" does not include alcohol or other blended portions of primarily petroleum-based fuels used as oxygenates or extenders, i.e., MTBE, ETBE, other ethers, and the 10-percent ethanol portion of gasohol.

Alternative-Fuel Vehicle (AFV): A vehicle designed to operate on an alternative fuel (e.g., compressed natural gas, methane blend, or electricity). The vehicle could be either a dedicated vehicle designed to operate exclusively on alternative fuel or a nondedicated vehicle designed to operate on alternative fuel and/or a traditional fuel.

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). *Note:* Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthropogenic: Made or generated by a human or caused by human activity. The term is used in the context of global **climate change** to refer to gaseous emissions that are the result of human activities, as well as other potentially climate-altering activities, such as deforestation.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. Gallons.

Base Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Biodiesel: A fuel typically made from soybean, canola, or other vegetable oils; animal fats; and recycled grease. It can serve as a substitute for **petroleum**-derived **diesel fuel** or **distillate fuel oil**. For U.S. Energy Information Administration reporting, it is a fuel composed of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100, and meeting the requirements of ASTM (American Society for Testing & Materials) D 6751.

Biofuels: Liquid fuels and blending components produced from **biomass** (plant) feedstocks, used primarily for transportation. See **Biodiesel** and **Fuel Ethanol**.

Biogenic: Produced by biological processes of living organisms. Note: EIA uses the term "biogenic" to refer only to organic nonfossil material of biological origin.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy source. See Biodiesel, Biofuels, Biomass Waste, Fuel Ethanol, and Wood and Wood-Derived Fuels.

Biomass Waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. Note: EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Bituminous Coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steamelectric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See British Thermal Unit.

Btu Conversion Factor: A factor for converting energy data between one unit of measurement and British thermal units (Btu). Btu conversion factors are generally used to convert energy data from physical units of measure (such as barrels, cubic feet, or short tons) into the energy-equivalent measure of Btu. (See http://www.eia.gov/emeu/mer/append_a.html for further information on Btu conversion factors.)

Butane: A normally gaseous straight-chain or branchedchain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of

10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of **fossil-fuel** combustion as well as other processes. It is considered a **greenhouse gas** as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for **global warming**. The **global warming potential** (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

City Gate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term "global warming"; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture,

consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal, and Coal Synfuel.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke, Coal**.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage

treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see http://www.eia.gov/neic/datadefinitions/Guideforwebcom.html. See End-Use Sectors and Energy-Use Sectors.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by **hydroelectric pumped storage**.

Conversion Factor: A factor for converting data between one unit of measurement and another (such as between **short tons** and **British thermal units**, or between **barrels** and gallons). (See http://www.eia.gov/emeu/mer/append_a.html and http://www.eia.gov/emeu/mer/append_b.html for further information on conversion factors.) See **Btu Conversion Factor** and **Thermal Conversion Factor**.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees

Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degreeday readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically **pentanes plus** or **conventional motor gasoline**, added to **fuel ethanol** to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such

distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

Direct Use: Use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of **station use**.

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) Production.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes electricity and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and State and Federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs covering either cost-of-service and/or market-based rates under the authority of the Federal Power Act. See Electric Power Sector.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of **gross electricity generation** less **station use** (the **electric energy** consumed at the generating station(s) for station service or auxiliaries). *Note*: Electricity required for pumping at **hydroelectric pumped-storage** plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also **Combined-Heat-and-Power (CHP) Plant**.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

End-Use Sectors: The **residential**, **commercial**, **industrial**, and **transportation** sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: **residential**, **commercial**, **industrial**, **transportation**, and **electric power**.

Ethane: A normally gaseous straight-chain hydrocarbon (C₂H₆). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol (C_2H_5OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See Biomass, Fuel Ethanol, and Fuel Ethanol Minus Denaturant.

Ethylene: An olefinic hydrocarbon (C2H4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the U.S. Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the U.S. Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the U.S. Department of Energy was created. Its functions were divided between the U.S. Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The price for domestic crude oil reported by the company that owns the crude oil the first time it is removed from the lease boundary.

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petroleum**, **coal**, and **natural gas**.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1 percent water). Fuel ethanol is denatured (made unfit for human consumption), usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use. See Alternative-Fuel Vehicle, Denaturant, E85, Ethanol, Fuel Ethanol Minus Denaturant, and Oxygenates.

Fuel Ethanol Minus Denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel. See Denaturant, Ethanol, Fuel Ethanol, Nonrenewable Fuels, Oxygenates, and Renewable Energy.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a

concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline, Oxygenated**.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Global Warming: An increase in the near-surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is today most often used to refer to the warming some scientists predict will occur as a result of increased anthropogenic emissions of greenhouse gases. See Climate Change.

Global Warming Potential (GWP): An index used to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWPs are calculated as the ratio of the radiative forcing that would result from the emission of one kilogram of a greenhouse gas to that from the emission of one kilogram of carbon dioxide over a fixed period of time, such as 100 years.

Greenhouse Gases: Those gases, such as water vapor, **carbon dioxide**, nitrous oxide, **methane**, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride, that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in British thermal units (Btu). Note: Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or excludes the energy used to vaporize water (contained in the original energy form or created during the combustion

process). The U.S. Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu** per **kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen (H): The lightest of all gases, hydrogen occurs chiefly in combination with oxygen in water. It also exists in acids, bases, **alcohols**, **petroleum**, and other **hydrocarbons**.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or **useful thermal output** primarily to support the abovementioned industrial activities. Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebind.htm. See **End-Use Sectors** and **Energy-Use Sectors**.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It issued primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A petroleum distillate having a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g.,

import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Lignite: The lowest rank of **coal**, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260° F at atmospheric pressure.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production (Natural Gas): Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH₄) that is the principal constituent of natural gas. It is also an important source of hydrogen in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, $(CH_3)_3COCH_3$, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates**.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere-for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note*: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three grades: regular, midgrade, and premium. *Note*: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in

some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and

industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to

http://www.census.gov/eos/www/naics/.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Material as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished

motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing States and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to State production, severance, and similar charges.

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express **nominal price**.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nonrenewable Fuels: Fuels that cannot be easily made or "renewed," such as **crude oil**, **natural gas**, and **coal**.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

OECD: See Organization for Economic Cooperation and Development.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

OPEC: See **Organization of the Petroleum Exporting Countries.**

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): An international organization helping governments tackle the economic, social and governance challenges of a globalized economy. Its membership comprises about 30 member countries. With active relationships with some 70 other countries, non-governmental organizations (NGOs) and civil society, it has a global reach. For details about the organization, see http://www.oecd.org.

Organization of the Petroleum Exporting Countries (OPEC): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present), Kuwait (1960–present), Libya (1962–present), Nigeria (1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend.

Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See **Products Supplied** (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual

products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources—e.g., coal coke from coal—are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas-excluding supplemental gaseous fuels—consumption; nuclear electricity net generation (converted to **Btu** using the nuclear plants **heat rate**); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the geothermal plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; fuel ethanol and biodiesel consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour). See Total Energy Consumption.

Primary Energy Production: Production of **primary energy.** The U.S. Energy Information Administration

includes the following in U.S. primary energy production: coal production, waste coal supplied, and coal refuse recovery; crude oil and lease condensate production; natural gas plant liquids production; dry natural gas—excluding supplemental gaseous fuels—production; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the geothermal plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; and biofuels feedstock.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C_3H_6) recovered from refinery or petrochemical processes.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials, hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished petroleum products produced at a refinery or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to unfinished oils or blending components.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the **fossil fuels**, of which there is a finite supply). Renewable sources of energy include **conventional hydrolectric power**, **biomass, geothermal, solar,** and **wind**.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Note: Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.html. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by NAICS (North American Industry Classification System).

Solar Energy: See **Solar Thermal Energy** and **Photovoltaic Energy**.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as barrels, cubic feet, or short tons) and thermal units of measure (such as British thermal units, calories, or joules); or for converting data between different thermal units of measure. See Btu Conversion Factor.

Total Energy Consumption: Primary energy consumption in the end-use sectors, plus electricity retail sales and electrical system energy losses.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse

tractors and forklifts) are classified in the sector of their primary use. Note: Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebtrans.html See End-Use Sectors and Energy-Use Sectors.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous **coal** processing operations. Waste coal is usually composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed

combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood and Wood-Derived Fuels: Wood and products derived from wood that are used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, paper pellets, railroad ties, utility poles, black liquor, red liquor, sludge wood, spent sulfite liquor, and other wood-based solids and liquids.

Working Gas: The volume of gas in a reservoir that is in addition to the base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.