

# 1

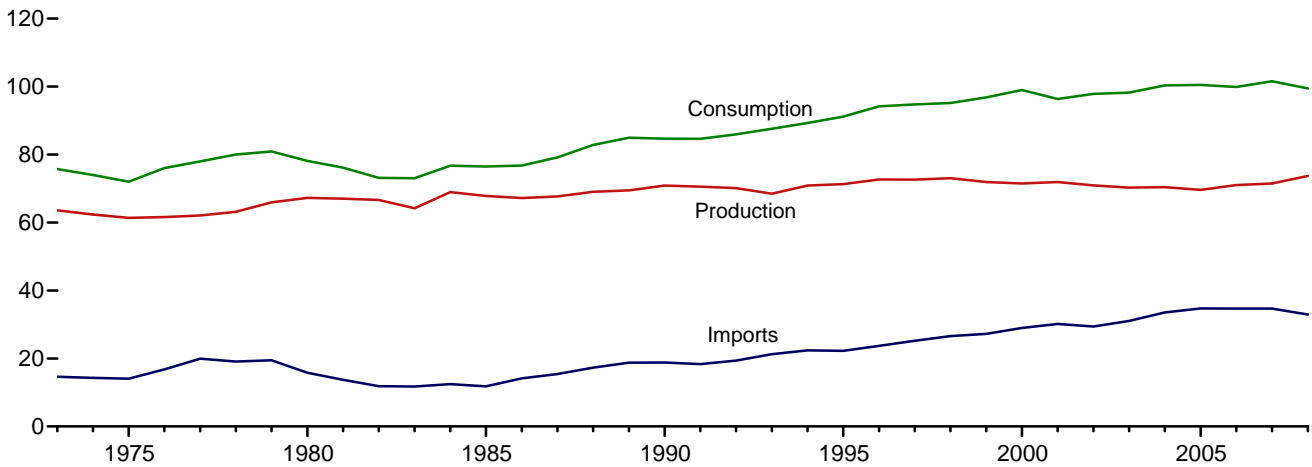
## Energy Overview



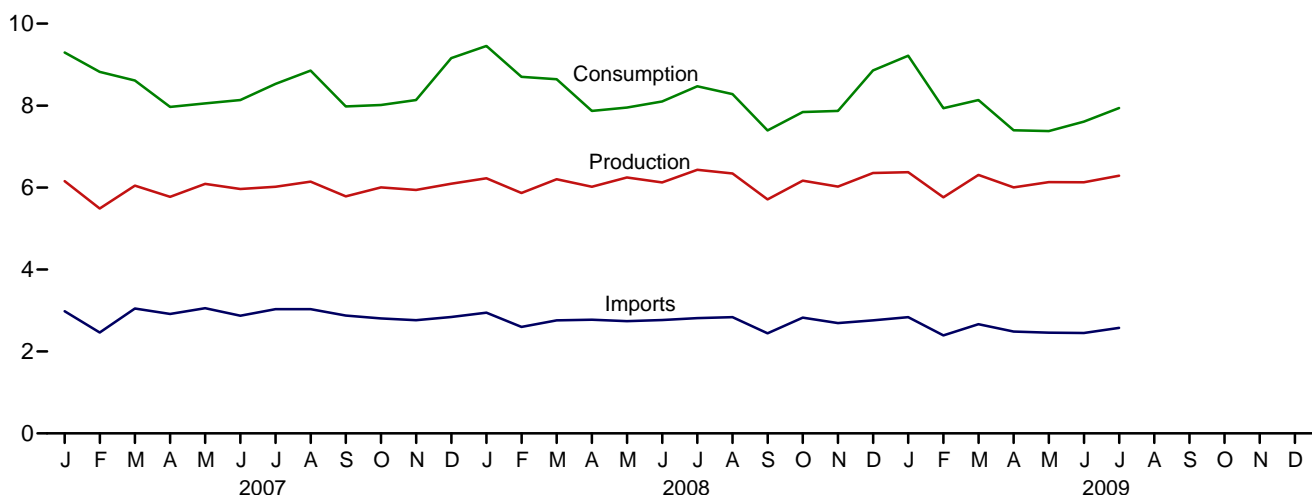
The continental United States at night from orbit. Source: National Oceanic and Atmospheric Administration satellite imagery; mosaic provided by U.S. Geological Survey.

# Figure 1.1 Primary Energy Overview (Quadrillion Btu)

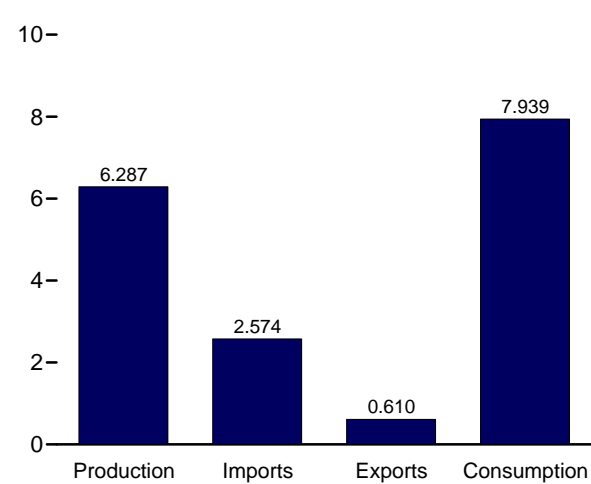
Consumption, Production, and Imports, 1973-2008



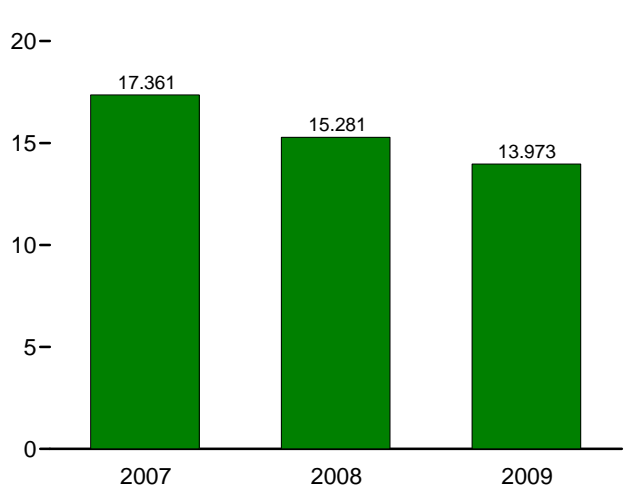
Consumption, Production, and Imports, Monthly



Overview, July 2009



Net Imports, January-July



Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.  
Source: Table 1.1.

**Table 1.1 Primary Energy Overview**  
(Quadrillion Btu)

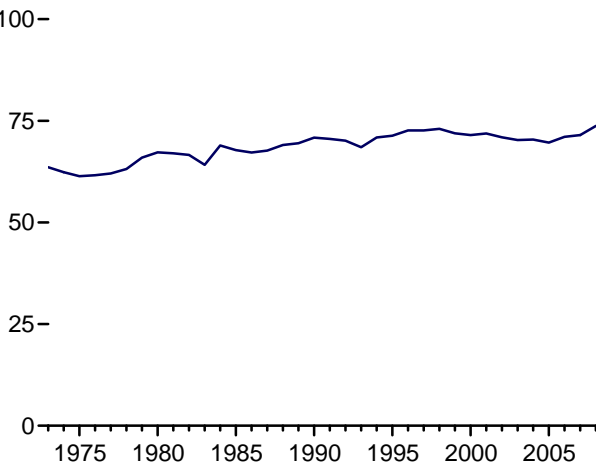
	Production				Trade			Stock Change and Other <sup>d</sup>	Consumption			
	Fossil Fuels <sup>a</sup>	Nuclear Electric Power	Renewable Energy <sup>b</sup>	Total	Imports	Exports	Net Imports <sup>c</sup>		Fossil Fuels <sup>e</sup>	Nuclear Electric Power	Renewable Energy <sup>b</sup>	Total <sup>f</sup>
1973 Total .....	58.241	0.910	4.433	63.585	14.613	2.033	12.580	-0.456	70.316	0.910	4.433	75.708
1975 Total .....	54.733	1.900	4.723	61.357	14.032	2.323	11.709	-1.067	65.355	1.900	4.723	71.999
1980 Total .....	59.008	2.739	5.485	67.232	15.796	3.695	12.101	-1.212	69.826	2.739	5.485	78.122
1985 Total .....	57.539	4.076	6.187	67.801	11.781	4.196	7.584	1.107	66.091	4.076	6.187	76.493
1990 Total .....	58.560	6.104	6.208	70.872	18.817	4.752	14.065	-.283	72.333	6.104	6.208	84.654
1995 Total .....	57.540	7.075	6.705	71.320	22.260	4.511	17.750	2.104	77.258	7.075	6.707	91.174
1996 Total .....	58.387	7.087	7.168	72.642	23.702	4.633	19.069	2.466	79.783	7.087	7.169	94.176
1997 Total .....	58.857	6.597	7.181	72.635	25.215	4.514	20.701	1.430	80.874	6.597	7.178	94.766
1998 Total .....	59.314	7.068	6.659	73.041	26.581	4.299	22.281	-.139	81.370	7.068	6.658	95.183
1999 Total .....	57.614	7.610	6.683	71.907	27.252	3.715	23.537	1.373	82.428	7.610	6.681	96.817
2000 Total .....	57.366	7.862	6.262	71.490	28.973	4.006	24.967	2.518	84.733	7.862	6.264	98.975
2001 Total .....	58.541	8.033	5.318	71.892	30.157	3.770	26.386	-1.952	82.903	8.033	5.316	96.326
2002 Total .....	56.894	8.143	5.899	70.935	29.407	3.668	25.739	1.184	83.750	8.143	5.894	97.858
2003 Total .....	56.157	7.959	6.148	70.264	31.061	4.054	27.007	.938	84.078	7.959	6.150	98.209
2004 Total .....	55.914	8.222	6.248	70.384	33.543	4.433	29.110	.857	85.830	8.222	6.260	100.351
2005 Total .....	55.056	8.160	6.410	69.626	34.710	4.561	30.149	-.710	85.817	8.160	6.423	100.485
2006 Total .....	55.968	8.214	6.857	71.039	34.673	4.868	29.805	-.969	84.690	8.214	6.908	99.875
2007 January .....	4.760	.776	.619	6.155	2.982	.447	2.536	.606	7.890	.776	.624	9.297
February .....	4.293	.684	.511	5.488	2.463	.349	2.114	1.220	7.613	.684	.514	8.821
March .....	4.774	.674	.599	6.047	3.046	.420	2.626	-.061	7.331	.674	.601	8.613
April .....	4.582	.601	.589	5.772	2.914	.416	2.498	-.303	6.768	.601	.589	7.967
May .....	4.792	.682	.617	6.091	3.056	.448	2.608	-.647	6.742	.682	.616	8.052
June .....	4.665	.723	.579	5.966	2.871	.423	2.448	-.280	6.819	.723	.581	8.134
July .....	4.671	.763	.586	6.020	3.030	.498	2.532	-.023	7.168	.763	.585	8.529
August .....	4.816	.763	.566	6.145	3.033	.475	2.558	.151	7.513	.763	.566	8.854
September .....	4.568	.709	.507	5.784	2.877	.436	2.442	-.244	6.762	.709	.506	7.981
October .....	4.829	.647	.526	6.002	2.806	.439	2.367	-.354	6.833	.647	.529	8.015
November .....	4.732	.681	.528	5.941	2.765	.559	2.206	-.012	6.919	.681	.527	8.135
December .....	4.764	.755	.574	6.093	2.841	.538	2.303	.760	7.818	.755	.576	9.157
<b>Total .....</b>	<b>56.246</b>	<b>8.458</b>	<b>6.800</b>	<b>71.504</b>	<b>34.685</b>	<b>5.448</b>	<b>29.238</b>	<b>.813</b>	<b>86.176</b>	<b>8.458</b>	<b>6.814</b>	<b>101.554</b>
2008 January .....	4.890	.742	.595	6.227	2.946	.537	2.409	<sup>R</sup> .821	8.112	.742	.591	9.456
February .....	<sup>R</sup> 4.634	.683	.552	5.869	2.599	.528	2.070	.761	7.455	.683	.551	8.700
March .....	<sup>R</sup> 4.911	.679	.613	6.203	2.758	.608	2.150	<sup>R</sup> .291	7.352	.679	.605	8.644
April .....	<sup>R</sup> 4.806	.601	.612	<sup>R</sup> 6.020	2.773	.591	2.183	<sup>R</sup> -.331	6.649	.601	.612	7.871
May .....	<sup>R</sup> 4.886	.680	.679	<sup>R</sup> 6.245	2.740	.622	2.118	<sup>R</sup> -.410	6.590	.680	.675	7.953
June .....	<sup>R</sup> 4.694	.738	.691	<sup>R</sup> 6.123	2.765	.622	2.142	<sup>R</sup> -.164	6.664	.738	.690	8.101
July .....	<sup>R</sup> 4.992	.779	.662	<sup>R</sup> 6.433	2.814	.606	2.209	<sup>R</sup> -.171	7.016	.779	.661	<sup>R</sup> 8.471
August .....	4.965	.762	.616	<sup>R</sup> 6.342	2.835	.584	2.251	<sup>R</sup> -.312	<sup>R</sup> 6.890	.762	.614	<sup>R</sup> 8.281
September .....	<sup>R</sup> 4.458	.703	.549	<sup>R</sup> 5.711	2.442	.516	1.926	-.245	6.128	.703	.550	<sup>R</sup> 7.392
October .....	4.941	.659	.568	<sup>R</sup> 6.168	2.826	.589	2.237	<sup>R</sup> -.565	<sup>R</sup> 6.606	.659	.570	7.841
November .....	4.790	.665	.568	<sup>R</sup> 6.024	2.691	.593	2.098	<sup>R</sup> -.252	<sup>R</sup> 6.634	.665	.566	<sup>R</sup> 7.869
December .....	<sup>R</sup> 4.959	.765	.633	<sup>R</sup> 6.357	2.759	.619	2.140	.361	7.449	.765	.636	8.858
<b>Total .....</b>	<sup>R</sup> <b>57.927</b>	<b>8.455</b>	<b>7.338</b>	<sup>R</sup> <b>73.721</b>	<b>32.948</b>	<b>7.016</b>	<b>25.932</b>	<sup>R</sup> <b>-.216</b>	<sup>R</sup> <b>83.546</b>	<b>8.455</b>	<b>7.324</b>	<sup>R</sup> <b>99.437</b>
2009 January .....	4.953	.771	.650	6.373	2.837	.598	2.239	.607	7.795	.771	.647	9.219
February .....	4.529	.674	.557	5.760	2.392	.505	1.887	.291	6.708	.674	.548	7.937
March .....	4.967	.702	.641	6.309	2.665	.561	2.104	-.277	6.789	.702	.641	8.136
April .....	4.720	.620	.664	6.005	2.487	.510	1.977	<sup>R</sup> -.584	6.105	.620	.667	7.398
May .....	4.741	.684	.707	6.133	2.456	.540	<sup>R</sup> 1.917	<sup>R</sup> -.671	5.975	.684	.710	7.379
June .....	<sup>R</sup> 4.702	.728	.697	<sup>R</sup> 6.127	<sup>R</sup> 2.451	<sup>R</sup> .565	<sup>R</sup> 1.886	<sup>R</sup> -.406	6.169	.728	<sup>R</sup> .699	<sup>R</sup> 7.607
July .....	4.861	.765	.661	6.287	2.574	.610	1.964	-.312	6.499	.765	.661	7.939
<b>7-Month Total .....</b>	<b>33.473</b>	<b>4.944</b>	<b>4.577</b>	<b>42.993</b>	<b>17.861</b>	<b>3.889</b>	<b>13.973</b>	<b>-1.352</b>	<b>46.039</b>	<b>4.944</b>	<b>4.572</b>	<b>55.614</b>
2008 7-Month Total .....	33.813	4.902	4.403	43.119	19.395	4.114	15.281	.798	49.839	4.902	4.386	59.197
2007 7-Month Total .....	32.536	4.903	4.099	41.539	20.362	3.001	17.361	.512	50.331	4.903	4.110	59.412

<sup>a</sup> Coal, natural gas (dry), crude oil, and natural gas plant liquids.  
<sup>b</sup> Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation.  
<sup>c</sup> Net imports equal imports minus exports.  
<sup>d</sup> 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.  
<sup>e</sup> Coal, coal coke net imports, natural gas, and petroleum.  
<sup>f</sup> Also includes electricity net imports.  
R=Revised.

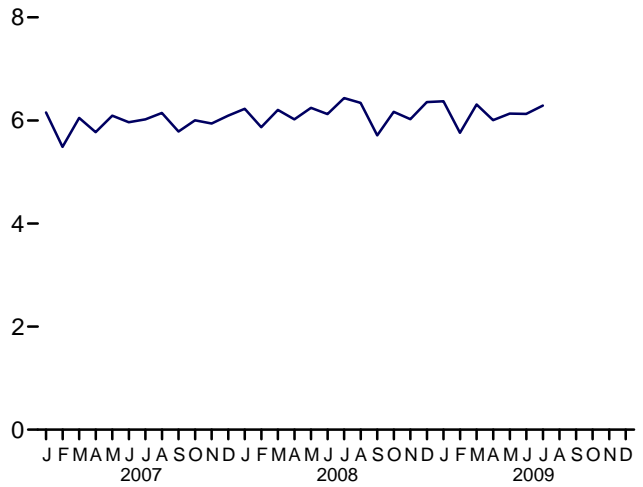
Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.  
Web Page: See <http://www.eia.doe.gov/emeu/mer/overview.html> for all available data beginning in 1973.  
Sources: • **Production:** Table 1.2. • **Trade:** Tables 1.4a and 1.4b. • **Stock Change and Other:** Calculated as consumption minus production and net imports. • **Consumption:** Table 1.3.

**Figure 1.2 Primary Energy Production**  
(Quadrillion Btu)

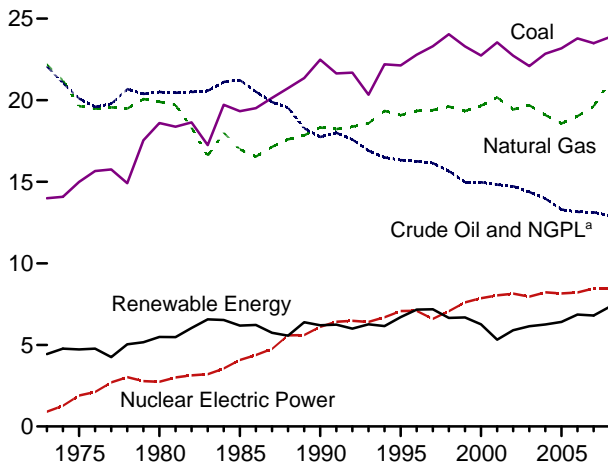
Total, 1973-2008



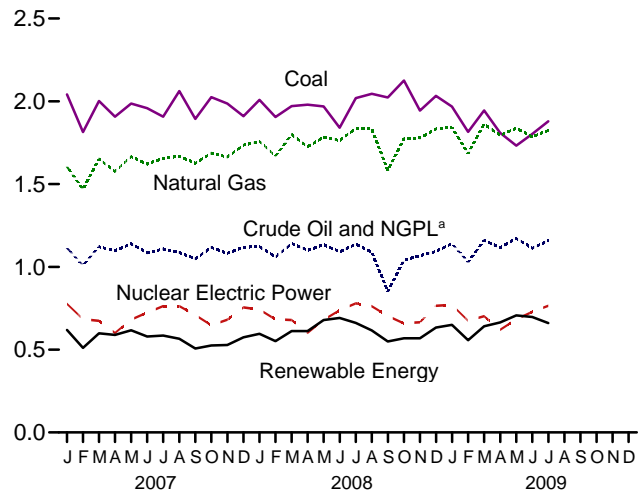
Total, Monthly



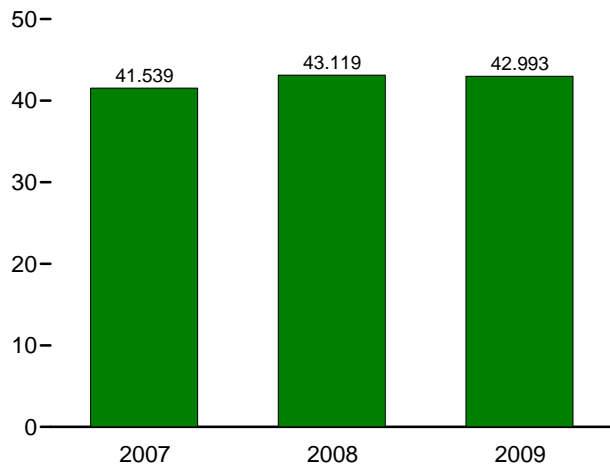
By Source, 1973-2008



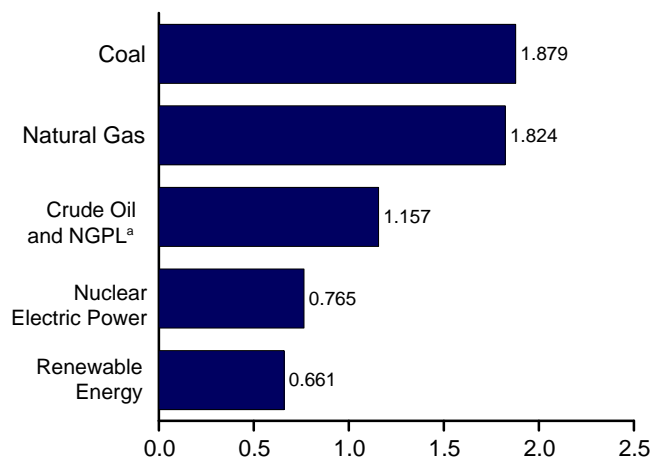
By Source, Monthly



Total, January-July



By Source, July 2009



<sup>a</sup> Natural gas plant liquids.  
Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>  
Source: Table 1.2.

**Table 1.2 Primary Energy Production by Source**  
(Quadrillion Btu)

	Fossil Fuels					Nuclear Electric Power	Renewable Energy <sup>a</sup>						Total
	Coal <sup>b</sup>	Natural Gas (Dry)	Crude Oil <sup>c</sup>	NGPL <sup>d</sup>	Total		Hydroelectric Power <sup>e</sup>	Geothermal	Solar/PV	Wind	Bio-mass	Total	
<b>1973 Total</b> .....	13.992	22.187	19.493	2.569	58.241	0.910	2.861	0.043	NA	NA	1.529	4.433	63.585
<b>1975 Total</b> .....	14.989	19.640	17.729	2.374	54.733	1.900	3.155	.070	NA	NA	1.499	4.723	61.357
<b>1980 Total</b> .....	18.598	19.908	18.249	2.254	59.008	2.739	2.900	.110	NA	NA	2.475	5.485	67.232
<b>1985 Total</b> .....	19.325	16.980	18.992	2.241	57.539	4.076	2.970	.198	(s)	(s)	3.018	6.187	67.801
<b>1990 Total</b> .....	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.336	.060	.029	2.737	6.208	70.872
<b>1995 Total</b> .....	22.130	19.082	13.887	2.442	57.540	7.075	3.205	.294	.070	.033	3.103	6.705	71.320
<b>1996 Total</b> .....	22.790	19.344	13.723	2.530	58.387	7.087	3.590	.316	.071	.033	3.158	7.168	72.642
<b>1997 Total</b> .....	23.310	19.394	13.658	2.495	58.857	6.597	3.640	.325	.070	.034	3.112	7.181	72.635
<b>1998 Total</b> .....	24.045	19.613	13.235	2.420	59.314	7.068	3.297	.328	.070	.031	2.933	6.659	73.041
<b>1999 Total</b> .....	23.295	19.341	12.451	2.528	57.614	7.610	3.268	.331	.069	.046	2.969	6.683	71.907
<b>2000 Total</b> .....	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.317	.066	.057	3.010	6.262	71.490
<b>2001 Total</b> .....	23.547	20.166	12.282	2.547	58.541	8.033	2.242	.311	.065	.070	2.629	5.318	71.892
<b>2002 Total</b> .....	22.732	19.439	12.163	2.559	56.894	8.143	2.689	.328	.064	.105	2.712	5.899	70.935
<b>2003 Total</b> .....	22.094	19.691	12.026	2.346	56.157	7.959	2.825	.331	.064	.115	2.815	6.148	70.264
<b>2004 Total</b> .....	22.852	19.093	11.503	2.466	55.914	8.222	2.690	.341	.065	.142	3.011	6.248	70.384
<b>2005 Total</b> .....	23.185	18.574	10.963	2.334	55.056	8.160	2.703	.343	.066	.178	3.120	6.410	69.626
<b>2006 Total</b> .....	23.790	19.022	10.801	2.356	55.968	8.214	2.869	.343	.072	.264	3.309	6.857	71.039
<b>2007 January</b> .....	2.041	1.605	.921	.192	4.760	.776	.257	.031	.006	.024	.300	.619	6.155
February .....	1.814	1.469	.832	.177	4.293	.684	.184	.027	.006	.025	.270	.511	5.488
March .....	2.002	1.651	.918	.204	4.774	.674	.239	.029	.007	.030	.294	.599	6.047
April .....	1.907	1.577	.903	.195	4.582	.601	.236	.028	.007	.031	.287	.589	5.772
May .....	1.986	1.666	.934	.206	4.792	.682	.257	.028	.007	.029	.295	.617	6.091
June .....	1.959	1.621	.887	.198	4.665	.723	.226	.029	.007	.026	.291	.579	5.966
July .....	1.907	1.656	.903	.205	4.671	.763	.222	.030	.007	.021	.305	.586	6.020
August .....	2.062	1.667	.883	.203	4.816	.763	.197	.030	.007	.027	.305	.566	6.145
September .....	1.894	1.626	.850	.199	4.568	.709	.146	.029	.007	.028	.297	.507	5.784
October .....	2.025	1.686	.907	.211	4.829	.647	.146	.030	.007	.033	.309	.526	6.002
November .....	1.986	1.664	.873	.209	4.732	.681	.155	.029	.006	.031	.307	.528	5.941
December .....	1.910	1.735	.909	.210	4.764	.755	.181	.030	.006	.034	.322	.574	6.093
<b>Total</b> .....	<b>23.493</b>	<b>19.623</b>	<b>10.721</b>	<b>2.409</b>	<b>56.246</b>	<b>8.458</b>	<b>2.446</b>	<b>.349</b>	<b>.081</b>	<b>.341</b>	<b>3.583</b>	<b>6.800</b>	<b>71.504</b>
<b>2008 January</b> .....	<sup>R</sup> 2.008	<sup>E</sup> 1.759	.917	.206	4.890	.742	.201	.029	.007	.041	.317	.595	6.227
February .....	1.905	<sup>E</sup> 1.669	.862	.198	<sup>R</sup> 4.634	.683	.181	.026	.007	.037	.300	.552	5.869
March .....	1.971	<sup>E</sup> 1.799	.926	.215	<sup>R</sup> 4.911	.679	.209	.030	.008	.046	.319	.613	6.203
April .....	<sup>R</sup> 1.980	<sup>E</sup> 1.727	.890	.210	<sup>R</sup> 4.806	.601	.211	.029	.008	.050	.315	.612	<sup>R</sup> 6.020
May .....	<sup>R</sup> 1.969	<sup>E</sup> 1.783	.917	.217	<sup>R</sup> 4.886	.680	.261	.031	.008	.051	.328	.679	<sup>R</sup> 6.245
June .....	<sup>R</sup> 1.840	<sup>E</sup> 1.763	.887	.204	<sup>R</sup> 4.694	.738	.282	.031	.008	.049	.322	.691	<sup>R</sup> 6.123
July .....	<sup>R</sup> 2.019	<sup>E</sup> 1.837	.923	.214	<sup>R</sup> 4.992	.779	.245	.031	.008	.038	.339	.662	<sup>R</sup> 6.433
August .....	<sup>R</sup> 2.045	<sup>E</sup> 1.831	.880	.208	4.965	.762	.201	.031	.008	.031	.345	.616	<sup>R</sup> 6.342
September .....	<sup>R</sup> 2.023	<sup>E</sup> 1.583	.684	.168	<sup>R</sup> 4.458	.703	.155	.030	.008	.027	.329	.549	<sup>R</sup> 5.711
October .....	<sup>R</sup> 2.126	<sup>E</sup> 1.775	.840	.201	4.941	.659	.149	.031	.008	.043	.338	.568	<sup>R</sup> 6.168
November .....	<sup>R</sup> 1.944	<sup>E</sup> 1.779	.874	.193	4.790	.665	.153	.030	.007	.045	.334	.568	<sup>R</sup> 6.024
December .....	2.032	<sup>E</sup> 1.833	.909	.185	<sup>R</sup> 4.959	.765	.203	.030	.007	.058	.335	.633	<sup>R</sup> 6.357
<b>Total</b> .....	<sup>R</sup> <b>23.863</b>	<sup>E</sup> <b>21.137</b>	<b>10.509</b>	<b>2.419</b>	<sup>R</sup> <b>57.927</b>	<b>8.455</b>	<b>2.452</b>	<b>.358</b>	<b>.091</b>	<b>.514</b>	<b>3.922</b>	<b>7.338</b>	<sup>R</sup> <b>73.721</b>
<b>2009 January</b> .....	1.968	<sup>E</sup> 1.845	<sup>E</sup> .943	.198	4.953	.771	.232	.030	.007	.054	.326	.650	6.373
February .....	1.815	<sup>E</sup> 1.684	<sup>E</sup> .843	.186	4.529	.674	.175	.028	.007	.049	.299	.557	5.760
March .....	1.945	<sup>E</sup> 1.862	<sup>E</sup> .948	.213	4.967	.702	.211	.030	.008	.064	.327	.641	6.309
April .....	1.810	<sup>E</sup> 1.795	<sup>E</sup> .910	.206	4.720	.620	.249	.028	.008	.067	.312	.664	6.005
May .....	1.732	<sup>E</sup> 1.837	<sup>E</sup> .950	.222	4.741	.684	.288	.029	.008	.057	.325	.707	6.133
June .....	1.803	<sup>RE</sup> 1.786	<sup>E</sup> .902	.211	<sup>R</sup> 4.702	.728	.285	.028	.008	.049	<sup>R</sup> .327	.697	<sup>R</sup> 6.127
July .....	1.879	<sup>E</sup> 1.824	<sup>E</sup> .941	.216	4.861	.765	.230	.030	.008	.045	.349	.661	6.287
<b>7-Month Total</b> ...	<b>12.952</b>	<sup>E</sup> <b>12.633</b>	<sup>E</sup> <b>6.436</b>	<b>1.452</b>	<b>33.473</b>	<b>4.944</b>	<b>1.671</b>	<b>.204</b>	<b>.053</b>	<b>.385</b>	<b>2.265</b>	<b>4.577</b>	<b>42.993</b>
<b>2008 7-Month Total</b> ...	<b>13.692</b>	<sup>E</sup> <b>12.336</b>	<b>6.322</b>	<b>1.464</b>	<b>33.813</b>	<b>4.902</b>	<b>1.590</b>	<b>.207</b>	<b>.053</b>	<b>.311</b>	<b>2.242</b>	<b>4.403</b>	<b>43.119</b>
<b>2007 7-Month Total</b> ...	<b>13.616</b>	<b>11.245</b>	<b>6.299</b>	<b>1.376</b>	<b>32.536</b>	<b>4.903</b>	<b>1.621</b>	<b>.201</b>	<b>.047</b>	<b>.187</b>	<b>2.043</b>	<b>4.099</b>	<b>41.539</b>

<sup>a</sup> Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation.

<sup>b</sup> Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. See Table 6.1.

<sup>c</sup> Includes lease condensate.

<sup>d</sup> Natural gas plant liquids.

<sup>e</sup> 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.doe.gov/emeu/mer/overview.html> for all available data beginning in 1973.

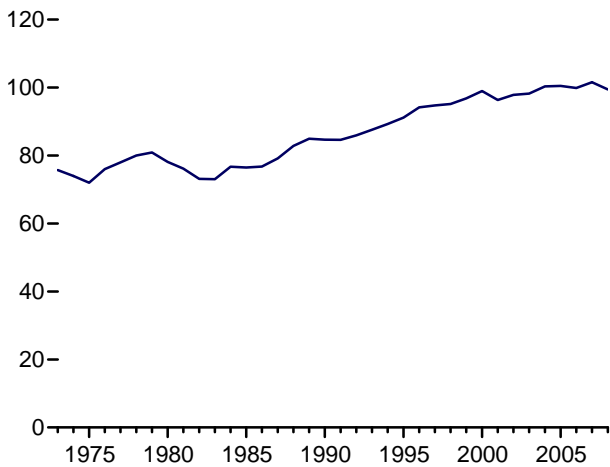
Sources: • **Coal:** Tables 6.1 and A5. • **Natural Gas (Dry):** Tables 4.1 and A4. • **Crude Oil and Natural Gas Plant Liquids:** Tables 3.1 and A2.

• **Nuclear Electric Power:** Tables 7.2a and A6 ("Nuclear Plants" heat rate).

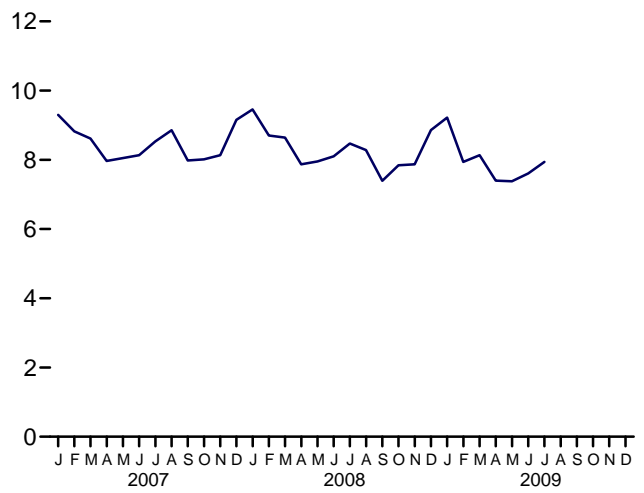
• **Renewable Energy:** Table 10.1.

**Figure 1.3 Primary Energy Consumption**  
(Quadrillion Btu)

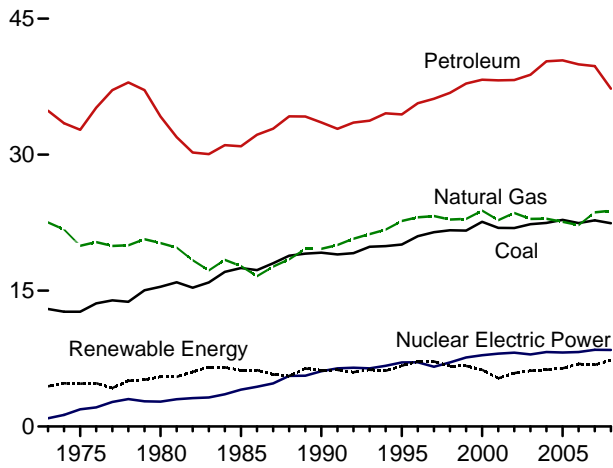
Total, 1973-2008



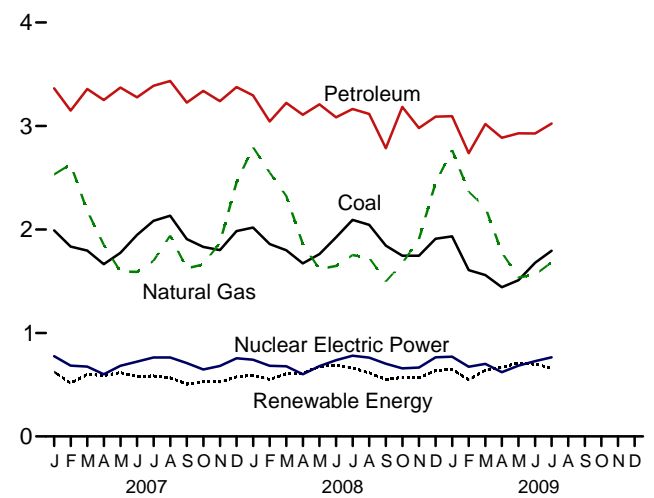
Total, Monthly



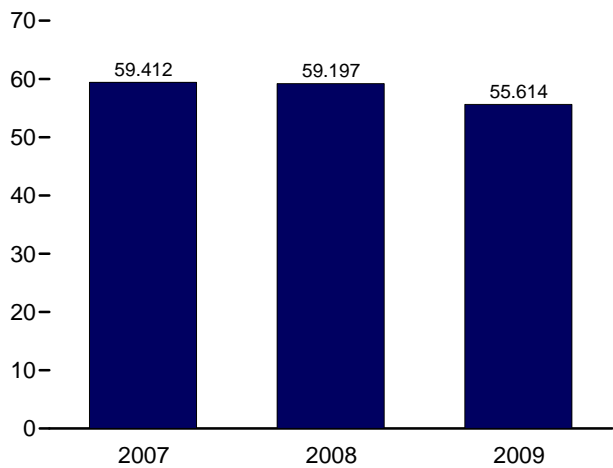
By Source<sup>a</sup>, 1973-2008



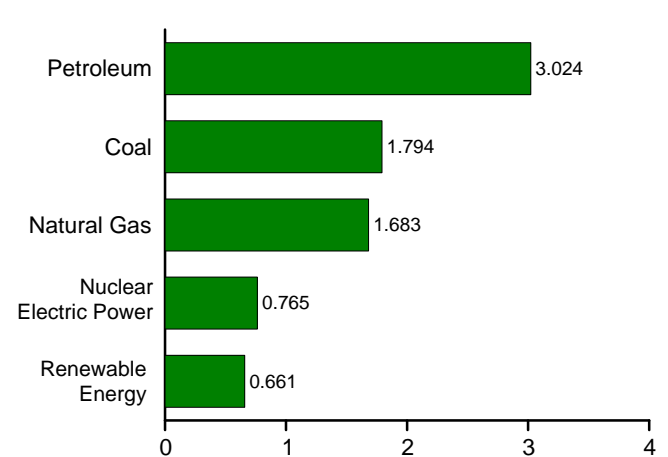
By Source<sup>a</sup>, Monthly



Total, January-July



By Source<sup>a</sup>, July 2009



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

**Table 1.3 Primary Energy Consumption by Source**  
(Quadrillion Btu)

	Fossil Fuels				Nuclear Electric Power	Renewable Energy <sup>a</sup>						Total <sup>f</sup>
	Coal	Natural Gas <sup>b</sup>	Petro-leum <sup>c</sup>	Total <sup>d</sup>		Hydro-electric Power <sup>e</sup>	Geo-thermal	Solar/PV	Wind	Bio-mass	Total	
1973 Total	12.971	22.512	34.840	70.316	0.910	2.861	0.043	NA	NA	1.529	4.433	75.708
1975 Total	12.663	19.948	32.731	65.355	1.900	3.155	.070	NA	NA	1.499	4.723	71.999
1980 Total	15.423	20.235	34.202	69.826	2.739	2.900	.110	NA	NA	2.475	5.485	78.122
1985 Total	17.478	17.703	30.922	66.091	4.076	2.970	.198	(s)	(s)	3.018	6.187	76.493
1990 Total	19.173	19.603	33.553	72.333	6.104	3.046	.336	.060	.029	2.737	6.208	84.654
1995 Total	20.089	22.671	34.437	77.258	7.075	3.205	.294	.070	.033	3.105	6.707	91.174
1996 Total	21.002	23.085	35.673	79.783	7.087	3.590	.316	.071	.033	3.160	7.169	94.176
1997 Total	21.445	23.223	36.160	80.874	6.597	3.640	.325	.070	.034	3.109	7.178	94.766
1998 Total	21.656	22.830	36.817	81.370	7.068	3.297	.328	.070	.031	2.932	6.658	95.183
1999 Total	21.623	22.909	37.838	82.428	7.610	3.268	.331	.069	.046	2.968	6.681	96.817
2000 Total	22.580	23.824	38.264	84.733	7.862	2.811	.317	.066	.057	3.013	6.264	98.975
2001 Total	21.914	22.773	38.186	82.903	8.033	2.242	.311	.065	.070	2.627	5.316	96.326
2002 Total	21.904	23.558	38.227	83.750	8.143	2.689	.328	.064	.105	2.707	5.894	97.858
2003 Total	22.321	22.897	38.809	84.078	7.959	2.825	.331	.064	.115	2.817	6.150	98.209
2004 Total	22.466	22.931	40.294	85.830	8.222	2.690	.341	.065	.142	3.023	6.260	100.351
2005 Total	22.797	22.583	40.393	85.817	8.160	2.703	.343	.066	.178	3.133	6.423	100.485
2006 Total	22.447	22.224	39.958	84.690	8.214	2.869	.343	.072	.264	3.361	6.908	99.875
2007 January	1.991	2.533	3.363	7.890	.776	.257	.031	.006	.024	.305	.624	9.297
February	1.835	2.630	3.148	7.613	.684	.184	.027	.006	.025	.273	.514	8.821
March	1.795	2.179	3.358	7.331	.674	.239	.029	.007	.030	.297	.601	8.613
April	1.665	1.851	3.250	6.768	.601	.236	.028	.007	.031	.287	.589	7.967
May	1.775	1.593	3.371	6.742	.682	.257	.028	.007	.029	.295	.616	8.052
June	1.947	1.590	3.277	6.819	.723	.226	.029	.007	.026	.293	.581	8.134
July	2.083	1.697	3.389	7.168	.763	.222	.030	.007	.021	.305	.585	8.529
August	2.134	1.942	3.435	7.513	.763	.197	.030	.007	.027	.305	.566	8.854
September	1.908	1.624	3.226	6.762	.709	.146	.029	.007	.028	.296	.506	7.981
October	1.832	1.662	3.339	6.833	.647	.146	.030	.007	.033	.312	.529	8.015
November	1.801	1.873	3.240	6.919	.681	.155	.029	.006	.031	.306	.527	8.135
December	1.984	2.454	3.377	7.818	.755	.181	.030	.006	.034	.324	.576	9.157
<b>Total</b>	<b>22.749</b>	<b>23.628</b>	<b>39.773</b>	<b>86.176</b>	<b>8.458</b>	<b>2.446</b>	<b>.349</b>	<b>.081</b>	<b>.341</b>	<b>3.597</b>	<b>6.814</b>	<b>101.554</b>
2008 January	2.018	2.794	3.295	8.112	.742	.201	.029	.007	.041	.313	.591	9.456
February	1.859	2.551	3.044	7.455	.683	.181	.026	.007	.037	.300	.551	8.700
March	1.799	2.323	3.223	7.352	.679	.209	.030	.008	.046	.312	.605	8.644
April	1.673	1.860	3.109	6.649	.601	.211	.029	.008	.050	.315	.612	7.871
May	1.762	1.616	3.209	6.590	.680	.261	.031	.008	.051	.325	.675	7.953
June	1.924	1.648	3.084	6.664	.738	.282	.031	.008	.049	.321	.690	8.101
July	2.093	R 1.752	3.165	7.016	.779	.245	.031	.008	.038	.339	.661	R 8.471
August	2.045	R 1.728	3.117	R 6.890	.762	.201	.031	.008	.031	.343	.614	R 8.281
September	1.844	R 1.497	2.785	6.128	.703	.155	.030	.008	.027	.331	.550	R 7.392
October	1.747	R 1.674	3.184	R 6.606	.659	.149	.031	.008	.043	.340	.570	7.841
November	1.747	R 1.906	2.980	R 6.634	.665	.153	.030	.007	.045	.331	.566	R 7.869
December	1.910	2.451	3.091	7.449	.765	.203	.030	.007	.058	.338	.636	8.858
<b>Total</b>	<b>22.421</b>	<b>R 23.800</b>	<b>37.285</b>	<b>R 83.546</b>	<b>8.455</b>	<b>2.452</b>	<b>.358</b>	<b>.091</b>	<b>.514</b>	<b>3.908</b>	<b>7.324</b>	<b>R 99.437</b>
2009 January	1.933	2.769	3.095	7.795	.771	.232	.030	.007	.054	.324	.647	9.219
February	1.607	2.365	2.737	6.708	.674	.175	.028	.007	.049	.289	.548	7.937
March	1.559	2.211	3.020	6.789	.702	.211	.030	.008	.064	.327	.641	8.136
April	1.442	1.779	2.887	6.105	.620	.249	.028	.008	.067	.315	.667	7.398
May	1.510	1.536	2.930	5.975	.684	.288	.029	.008	.057	.328	.710	7.379
June	1.678	1.564	2.928	6.169	.728	.285	.028	.008	.049	.328	R .699	R 7.607
July	1.794	1.683	3.024	6.499	.765	.230	.030	.008	.045	.349	.661	7.939
<b>7-Month Total</b>	<b>11.524</b>	<b>13.907</b>	<b>20.620</b>	<b>46.039</b>	<b>4.944</b>	<b>1.671</b>	<b>.204</b>	<b>.053</b>	<b>.385</b>	<b>2.260</b>	<b>4.572</b>	<b>55.614</b>
2008 7-Month Total	13.128	14.543	22.129	49.839	4.902	1.590	.207	.053	.311	2.224	4.386	59.197
2007 7-Month Total	13.091	14.072	23.157	50.331	4.903	1.621	.201	.047	.187	2.054	4.110	59.412

<sup>a</sup> Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation.

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

<sup>c</sup> Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Does not include fuel ethanol and biodiesel that have been blended with petroleum—biofuels are included in "Biomass."

<sup>d</sup> Includes coal coke net imports. See Tables 1.4a and 1.4b.

<sup>e</sup> Conventional hydroelectric power.

<sup>f</sup> Includes coal coke net imports and electricity net imports, which are not separately displayed. See Tables 1.4a and 1.4b.

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

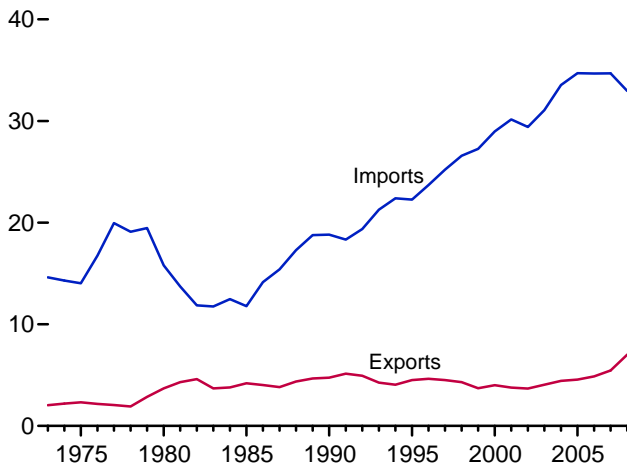
Notes: • See "Primary Energy Consumption" in Glossary.

• 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.doe.gov/emeu/mer/overview.html> for all available data beginning in 1973.

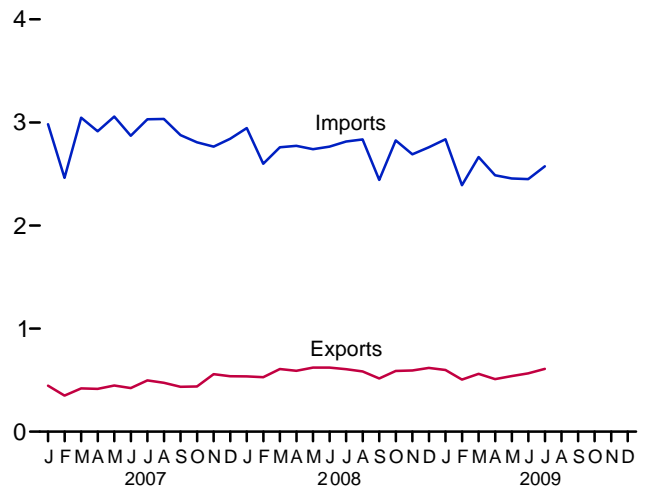
Sources: • **Coal:** Tables 6.1 and A5. • **Natural Gas:** Tables 4.1 and A4.  
• **Petroleum:** Table 3.6. • **Nuclear Electric Power:** Tables 7.2a and A6 ("Nuclear Plants" heat rate). • **Renewable Energy:** Table 10.1. • **Net Imports of Coal Coke and Electricity:** Tables 1.4a and 1.4b.

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

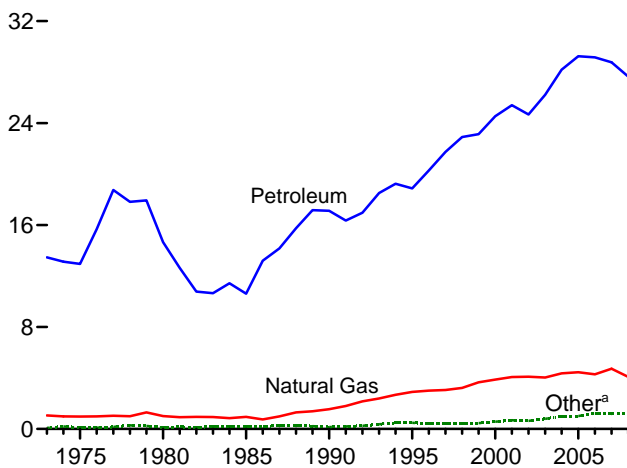
Total Imports and Exports, 1973-2008



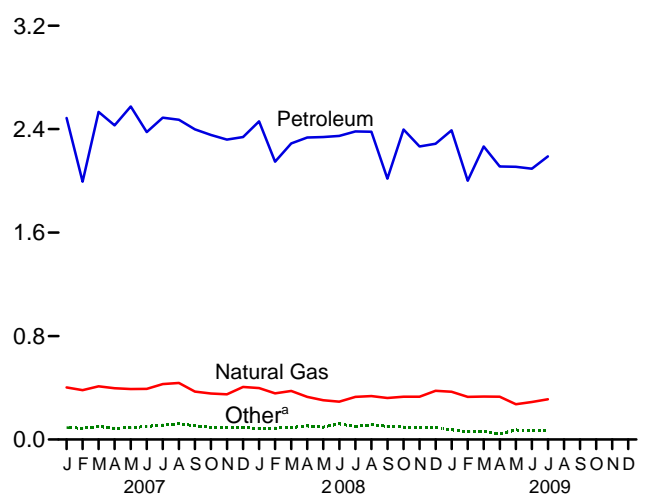
Total Imports and Exports, Monthly



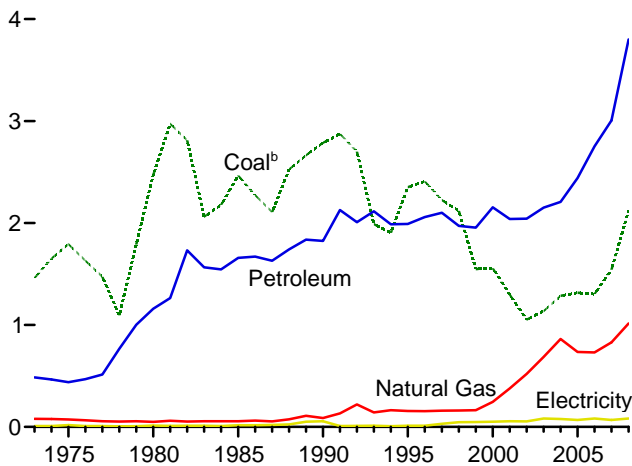
Imports by Source, 1973-2008



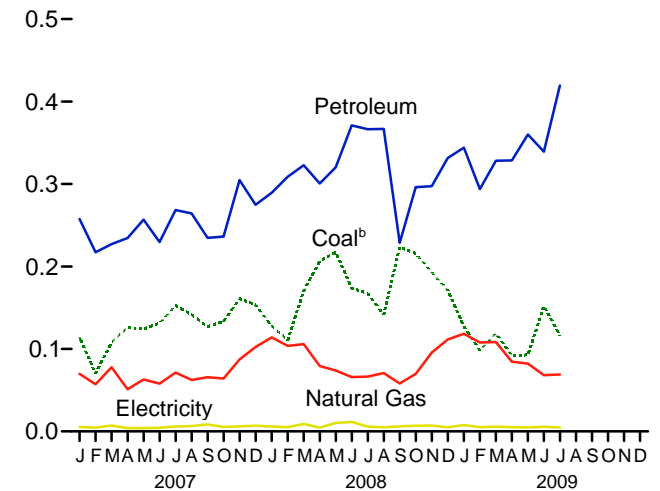
Imports by Source, Monthly



Exports by Source, 1973-2008



Exports by Major Source, Monthly



<sup>a</sup>Coal, coal coke, biofuels, and electricity.

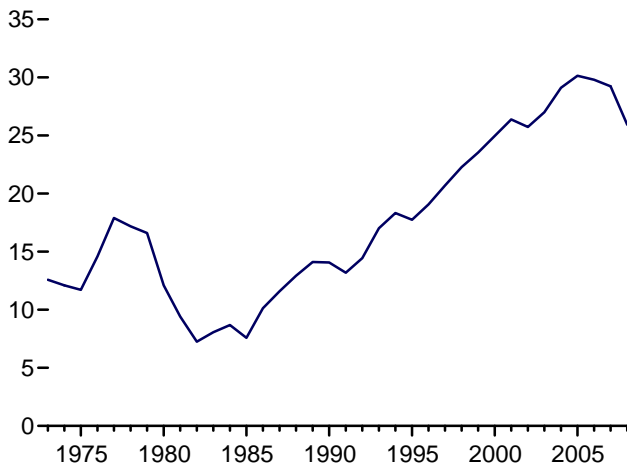
<sup>b</sup>Includes coal coke.

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

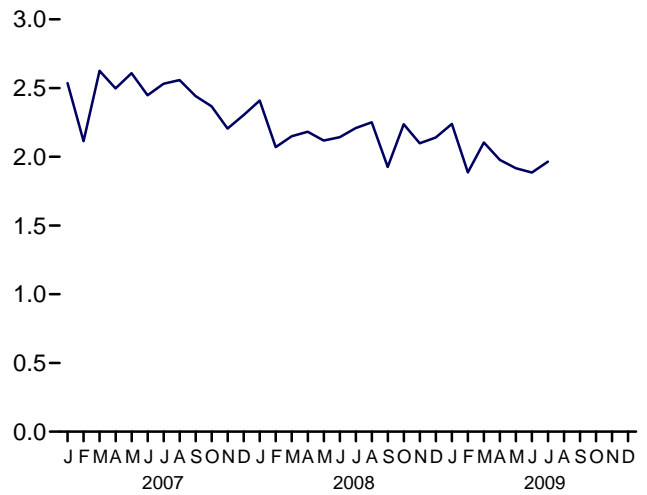
Sources: Tables 1.4a and 1.4b.

**Figure 1.4b Primary Energy Net Imports**  
(Quadrillion Btu, Except as noted)

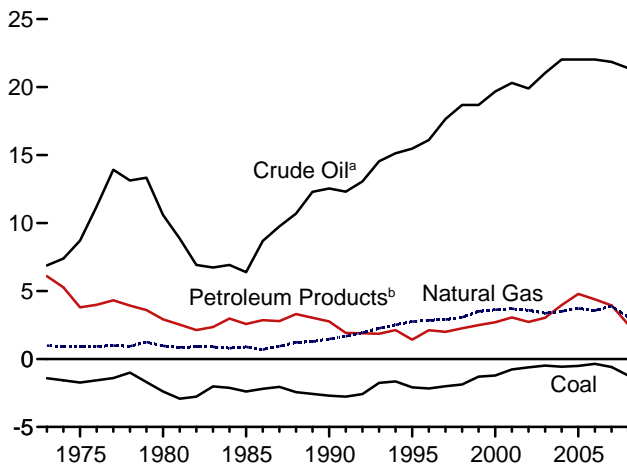
Total, 1973-2008



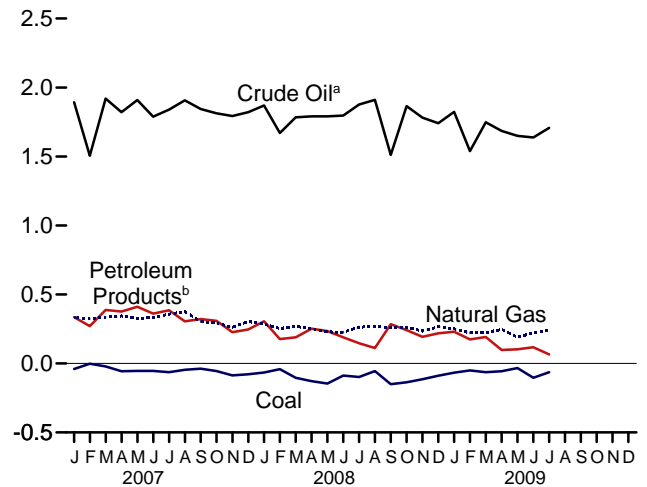
Total, Monthly



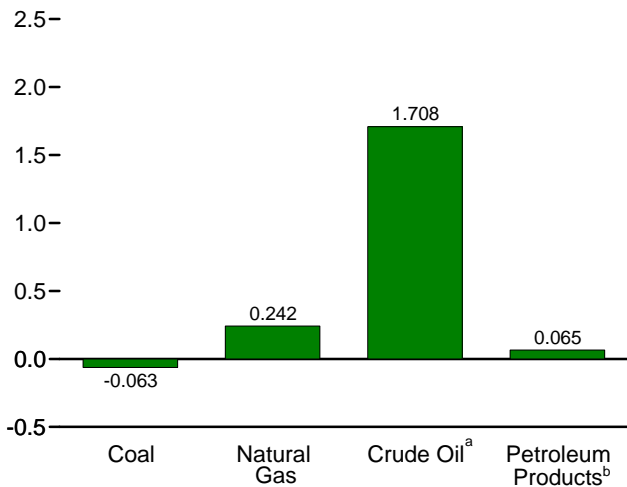
By Major Source, 1973-2008



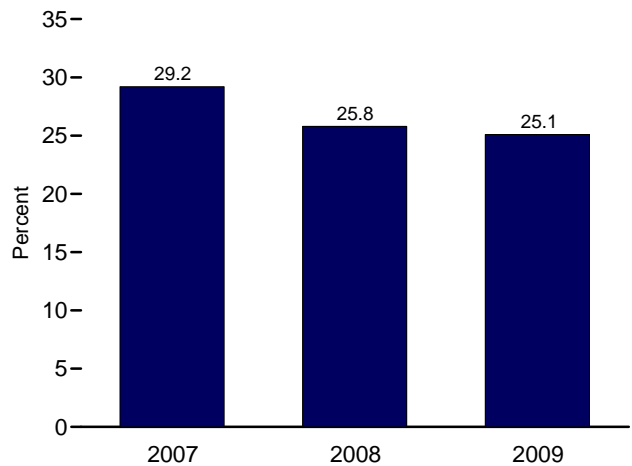
By Major Source, Monthly



By Major Source, July 2009



As Share of Consumption, January-July



<sup>a</sup>Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

<sup>b</sup>Petroleum products, unfinished oils, pentanes plus, and gasoline

blending components. Does not include biofuels.

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

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

**Table 1.4a Primary Energy Imports by Source**  
(Quadrillion Btu)

	Imports								
	Coal	Coal Coke	Natural Gas	Petroleum			Biofuels <sup>c</sup>	Electricity	Total
				Crude Oil <sup>a</sup>	Petroleum Products <sup>b</sup>	Total			
<b>1973 Total</b> .....	<b>0.003</b>	<b>0.027</b>	<b>1.060</b>	<b>6.887</b>	<b>6.578</b>	<b>13.466</b>	<b>NA</b>	<b>0.057</b>	<b>14.613</b>
<b>1975 Total</b> .....	<b>.024</b>	<b>.045</b>	<b>.978</b>	<b>8.721</b>	<b>4.227</b>	<b>12.948</b>	<b>NA</b>	<b>.038</b>	<b>14.032</b>
<b>1980 Total</b> .....	<b>.030</b>	<b>.016</b>	<b>1.006</b>	<b>11.195</b>	<b>3.463</b>	<b>14.658</b>	<b>NA</b>	<b>.085</b>	<b>15.796</b>
<b>1985 Total</b> .....	<b>.049</b>	<b>.014</b>	<b>.952</b>	<b>6.814</b>	<b>3.796</b>	<b>10.609</b>	<b>NA</b>	<b>.157</b>	<b>11.781</b>
<b>1990 Total</b> .....	<b>.067</b>	<b>.019</b>	<b>1.551</b>	<b>12.766</b>	<b>4.351</b>	<b>17.117</b>	<b>NA</b>	<b>.063</b>	<b>18.817</b>
<b>1995 Total</b> .....	<b>.237</b>	<b>.095</b>	<b>2.901</b>	<b>15.669</b>	<b>3.211</b>	<b>18.881</b>	<b>.001</b>	<b>.146</b>	<b>22.260</b>
<b>1996 Total</b> .....	<b>.203</b>	<b>.063</b>	<b>3.002</b>	<b>16.341</b>	<b>3.943</b>	<b>20.284</b>	<b>.001</b>	<b>.148</b>	<b>23.702</b>
<b>1997 Total</b> .....	<b>.187</b>	<b>.078</b>	<b>3.063</b>	<b>17.876</b>	<b>3.864</b>	<b>21.740</b>	<b>(s)</b>	<b>.147</b>	<b>25.215</b>
<b>1998 Total</b> .....	<b>.218</b>	<b>.095</b>	<b>3.225</b>	<b>18.916</b>	<b>3.992</b>	<b>22.908</b>	<b>(s)</b>	<b>.135</b>	<b>26.581</b>
<b>1999 Total</b> .....	<b>.227</b>	<b>.080</b>	<b>3.664</b>	<b>18.935</b>	<b>4.198</b>	<b>23.133</b>	<b>(s)</b>	<b>.147</b>	<b>27.252</b>
<b>2000 Total</b> .....	<b>.313</b>	<b>.094</b>	<b>3.869</b>	<b>19.783</b>	<b>4.749</b>	<b>24.531</b>	<b>(s)</b>	<b>.166</b>	<b>28.973</b>
<b>2001 Total</b> .....	<b>.495</b>	<b>.063</b>	<b>4.068</b>	<b>20.348</b>	<b>5.050</b>	<b>25.398</b>	<b>.002</b>	<b>.131</b>	<b>30.157</b>
<b>2002 Total</b> .....	<b>.422</b>	<b>.080</b>	<b>4.104</b>	<b>19.920</b>	<b>4.753</b>	<b>24.673</b>	<b>.002</b>	<b>.125</b>	<b>29.407</b>
<b>2003 Total</b> .....	<b>.626</b>	<b>.068</b>	<b>4.042</b>	<b>21.060</b>	<b>5.158</b>	<b>26.218</b>	<b>.002</b>	<b>.104</b>	<b>31.061</b>
<b>2004 Total</b> .....	<b>.682</b>	<b>.170</b>	<b>4.365</b>	<b>22.082</b>	<b>6.114</b>	<b>28.196</b>	<b>.013</b>	<b>.117</b>	<b>33.543</b>
<b>2005 Total</b> .....	<b>.762</b>	<b>.088</b>	<b>4.450</b>	<b>22.091</b>	<b>7.156</b>	<b>29.247</b>	<b>.013</b>	<b>.152</b>	<b>34.710</b>
<b>2006 Total</b> .....	<b>.906</b>	<b>.101</b>	<b>4.291</b>	<b>22.085</b>	<b>7.077</b>	<b>29.162</b>	<b>.067</b>	<b>.146</b>	<b>34.673</b>
<b>2007</b> January .....	.071	.006	.403	1.894	.591	2.486	.005	.012	2.982
February .....	.066	.003	.382	1.510	.483	1.993	.004	.014	2.463
March .....	.082	.003	.412	1.926	.607	2.533	.003	.013	3.046
April .....	.067	.004	.397	1.824	.604	2.429	.004	.014	2.914
May .....	.067	.006	.390	1.916	.658	2.575	.003	.016	3.056
June .....	.076	.007	.391	1.798	.579	2.377	.005	.015	2.871
July .....	.084	.003	.429	1.844	.644	2.488	.007	.019	3.030
August .....	.093	.005	.437	1.914	.558	2.472	.008	.018	3.033
September .....	.087	.005	.370	1.851	.548	2.398	.004	.013	2.877
October .....	.072	.005	.356	1.815	.539	2.355	.006	.012	2.806
November .....	.072	.007	.349	1.796	.523	2.319	.003	.015	2.765
December .....	.070	.008	.407	1.825	.514	2.339	.004	.014	2.841
<b>Total</b> .....	<b>.909</b>	<b>.061</b>	<b>4.723</b>	<b>21.914</b>	<b>6.849</b>	<b>28.762</b>	<b>.055</b>	<b>.175</b>	<b>34.685</b>
<b>2008</b> January .....	.060	.007	.398	1.872	.587	2.459	.005	.017	2.946
February .....	.065	.006	.357	1.674	.474	2.148	.006	.016	2.599
March .....	.066	.009	.375	1.789	.500	2.290	.003	.016	2.758
April .....	.075	.011	.329	1.793	.542	2.335	.009	.014	2.773
May .....	.068	.007	.303	1.795	.544	2.338	.006	.018	2.740
June .....	.082	.013	.293	1.800	.547	2.348	.008	.021	2.765
July .....	.064	.010	.330	1.881	.500	2.382	.008	.021	2.814
August .....	.079	.009	.336	1.917	.463	2.380	.012	.020	2.835
September .....	.069	.006	.321	1.518	.498	2.016	.014	.017	2.442
October .....	.073	.008	.331	1.873	.523	2.396	.006	.012	2.826
November .....	.075	.005	.331	1.787	.479	2.265	.004	.011	2.691
December .....	.080	(s)	.377	1.749	.538	2.287	.004	.012	2.759
<b>Total</b> .....	<b>.855</b>	<b>.089</b>	<b>4.080</b>	<b>21.448</b>	<b>6.196</b>	<b>27.644</b>	<b>.085</b>	<b>.195</b>	<b>32.948</b>
<b>2009</b> January .....	.058	.001	.369	1.829	.561	2.390	.003	.015	2.837
February .....	.046	(s)	.330	1.544	.457	2.001	.001	.013	2.392
March .....	.054	(s)	.333	1.753	.513	2.266	.002	.010	2.665
April .....	.033	(s)	<sup>R</sup> .331	1.690	.421	2.111	.001	.011	2.487
May .....	.057	.001	.273	1.658	.450	2.109	.002	.014	2.456
June .....	.046	.001	<sup>R</sup> .291	1.648	.445	2.094	.003	.016	<sup>R</sup> 2.451
July .....	.050	.001	<sup>E</sup> .311	1.713	.476	2.189	.004	.019	2.574
<b>7-Month Total</b> .....	<b>.344</b>	<b>.005</b>	<sup>E</sup> <b>2.237</b>	<b>11.837</b>	<b>3.324</b>	<b>15.160</b>	<b>.017</b>	<b>.099</b>	<b>17.861</b>
<b>2008 7-Month Total</b> .....	<b>.480</b>	<b>.062</b>	<b>2.385</b>	<b>12.605</b>	<b>3.695</b>	<b>16.300</b>	<b>.045</b>	<b>.123</b>	<b>19.395</b>
<b>2007 7-Month Total</b> .....	<b>.514</b>	<b>.031</b>	<b>2.803</b>	<b>12.713</b>	<b>4.167</b>	<b>16.879</b>	<b>.031</b>	<b>.103</b>	<b>20.362</b>

<sup>a</sup> Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

<sup>b</sup> Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.

<sup>c</sup> Fuel ethanol 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.

Web Page: See <http://www.eia.doe.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—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.

**Table 1.4b Primary Energy Exports by Source and Total Net Imports**  
(Quadrillion Btu)

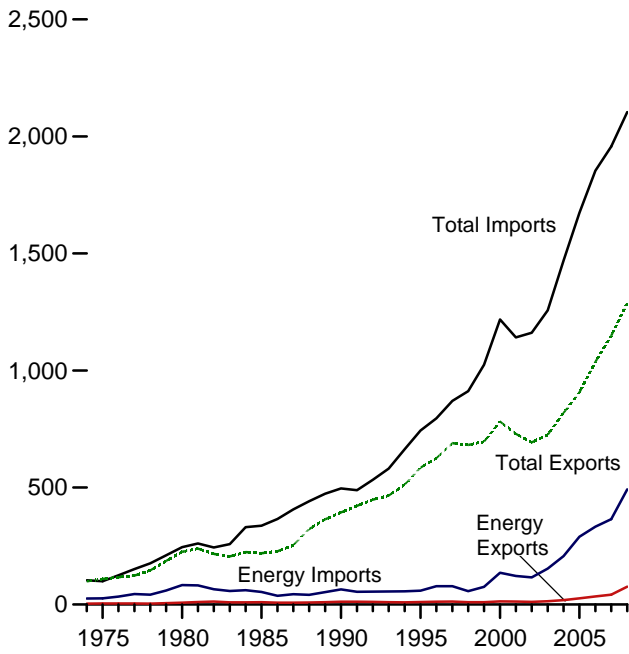
	Exports									Net Imports <sup>a</sup>
	Coal	Coal Coke	Natural Gas	Petroleum			Biofuels <sup>d</sup>	Electricity	Total	
				Crude Oil <sup>b</sup>	Petroleum Products <sup>c</sup>	Total				
<b>1973 Total</b> .....	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2.033	12.580
<b>1975 Total</b> .....	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
<b>1980 Total</b> .....	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
<b>1985 Total</b> .....	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196	7.584
<b>1990 Total</b> .....	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
<b>1995 Total</b> .....	2.318	.034	.156	.200	1.791	1.991	NA	.012	4.511	17.750
<b>1996 Total</b> .....	2.368	.040	.155	.233	1.825	2.059	NA	.011	4.633	19.069
<b>1997 Total</b> .....	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
<b>1998 Total</b> .....	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
<b>1999 Total</b> .....	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
<b>2000 Total</b> .....	1.528	.028	.245	.106	2.048	2.154	NA	.051	4.006	24.967
<b>2001 Total</b> .....	1.265	.033	.377	.043	1.996	2.038	(s)	.056	3.770	26.386
<b>2002 Total</b> .....	1.032	.020	.520	.019	2.023	2.042	(s)	.054	3.668	25.739
<b>2003 Total</b> .....	1.117	.018	.686	.026	2.124	2.150	.001	.082	4.054	27.007
<b>2004 Total</b> .....	1.253	.033	.862	.057	2.150	2.207	.001	.078	4.433	29.110
<b>2005 Total</b> .....	1.273	.043	.735	.067	2.373	2.441	.001	.068	4.561	30.149
<b>2006 Total</b> .....	1.264	.040	.730	.052	2.694	2.747	.004	.083	4.868	29.805
<b>2007</b> January .....	.111	.003	.070	.002	.255	.257	.001	.005	.447	2.536
February .....	.068	.002	.057	.004	.212	.216	.001	.005	.349	2.114
March .....	.104	.004	.078	.006	.220	.226	.002	.007	.420	2.626
April .....	.123	.003	.051	.003	.228	.231	.003	.004	.416	2.498
May .....	.121	.003	.063	.006	.247	.254	.003	.004	.448	2.608
June .....	.130	.001	.058	.009	.218	.227	.002	.004	.423	2.448
July .....	.148	.005	.071	.005	.259	.264	.005	.006	.498	2.532
August .....	.139	.002	.062	.008	.253	.261	.003	.007	.475	2.558
September .....	.125	.002	.066	.006	.226	.232	.003	.008	.436	2.442
October .....	.128	.006	.064	.002	.231	.233	.003	.005	.439	2.367
November .....	.159	.002	.087	.003	.296	.300	.005	.006	.559	2.206
December .....	.149	.004	.102	.004	.267	.271	.004	.007	.538	2.303
<b>Total</b> .....	1.507	.036	.830	.058	2.914	2.972	.035	.069	5.448	29.238
<b>2008</b> January .....	.125	.003	.114	.002	.281	.283	.006	.006	.537	2.409
February .....	.107	.004	.104	.003	.298	.301	.007	.005	.528	2.070
March .....	.170	.001	.106	.005	.311	.317	.006	.009	.608	2.150
April .....	.203	.004	.079	.002	.290	.292	.009	.005	.591	2.183
May .....	.213	.004	.074	.003	.310	.313	.007	.010	.622	2.118
June .....	.170	.004	.066	.004	.358	.362	.009	.011	.622	2.142
July .....	.163	.005	.066	.005	.354	.359	.008	.006	.606	2.209
August .....	.134	.008	.071	.007	.351	.358	.009	.005	.584	2.251
September .....	.220	.004	.058	.007	.214	.221	.008	.006	.516	1.926
October .....	.209	.007	.070	.008	.281	.289	.007	.007	.589	2.237
November .....	.189	.004	.096	.005	.286	.291	.006	.007	.593	2.098
December .....	.169	.003	.111	.008	.319	.327	.004	.005	.619	2.140
<b>Total</b> .....	2.071	.049	1.015	.061	3.653	3.713	.086	.082	7.016	25.932
<b>2009</b> January .....	.125	.003	.118	.007	.332	.338	.006	.008	.598	2.239
February .....	.097	.001	.108	.005	.283	.288	.006	.005	.505	1.887
March .....	.117	.002	.108	.005	.322	.327	.001	.006	.561	2.104
April .....	.089	.003	.084	.005	.323	.328	.001	.005	.510	1.977
May .....	.090	.002	.082	.009	.348	.358	.002	.005	.540	<sup>R</sup> 1.917
June .....	.149	.002	<sup>R</sup> .068	.010	.328	.337	.002	.006	<sup>R</sup> .565	<sup>R</sup> 1.886
July .....	.114	.003	<sup>E</sup> .069	.006	.411	.416	.003	.005	.610	1.964
<b>7-Month Total</b> .....	.781	.016	<sup>E</sup> .638	.046	2.346	2.392	.022	.039	3.889	13.973
<b>2008 7-Month Total</b> .....	1.150	.024	.609	.026	2.201	2.227	.052	.052	4.114	15.281
<b>2007 7-Month Total</b> .....	.806	.020	.448	.036	1.640	1.675	.016	.035	3.001	17.361

<sup>a</sup> Net imports equal imports minus exports.  
<sup>b</sup> Crude oil and lease condensate.  
<sup>c</sup> Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.  
<sup>d</sup> Biodiesel only.  
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.doe.gov/emeu/mer/overview.html> for all

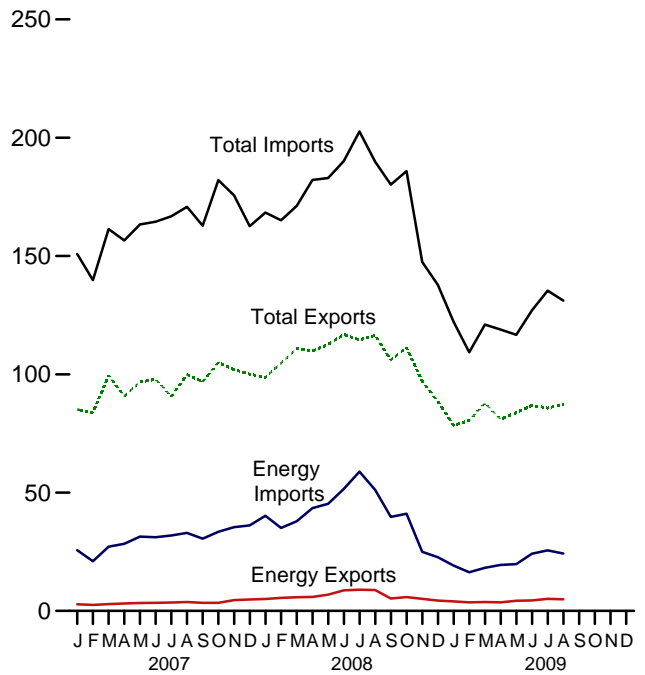
available data beginning in 1973.  
Sources: • **Coal:** Tables 6.1 and A5. • **Coal Coke: 1973-1975**—U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter. **1976-1980**—Energy Information Administration (EIA), *Energy Data Report*, "Coke and Coal 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 A6.

**Figure 1.5 Merchandise Trade Value**  
(Billion Nominal Dollars<sup>a</sup>)

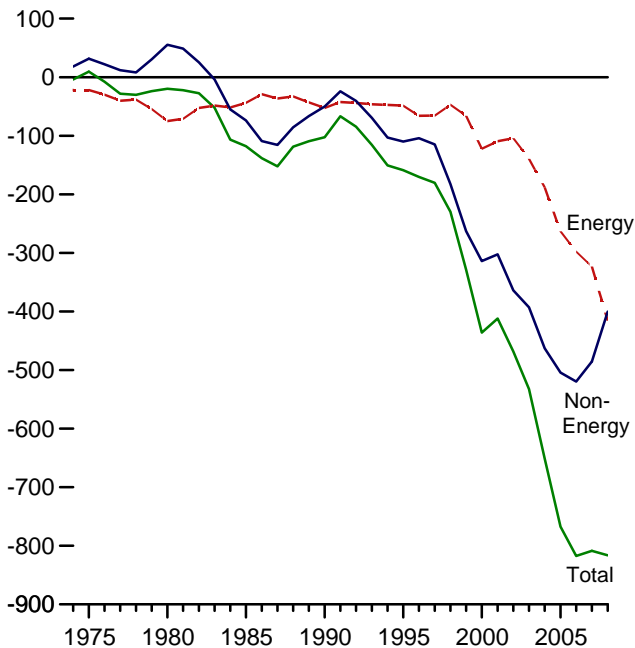
Imports and Exports, 1974-2008



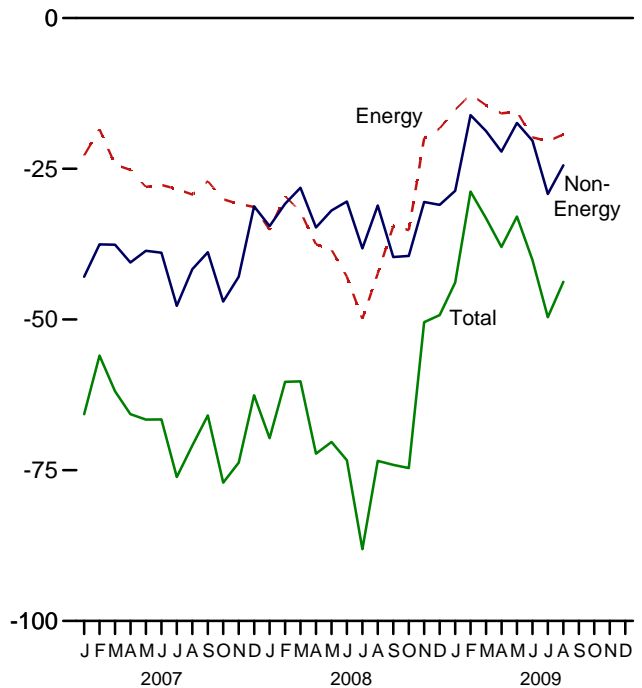
Imports and Exports, Monthly



Trade Balance, 1974-2008



Trade Balance, Monthly



<sup>a</sup>See "Nominal Dollars" in Glossary.  
Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.  
Source: Table 1.5.

**Table 1.5 Merchandise Trade Value**  
(Million Nominal Dollars<sup>a</sup>)

	Petroleum <sup>b</sup>			Energy <sup>c</sup>			Non-Energy Balance	Total Merchandise		
	Exports	Imports	Balance	Exports	Imports	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
1995 Total .....	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
1996 Total .....	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
1997 Total .....	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
1998 Total .....	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
1999 Total .....	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
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
<b>2007</b> January .....	2,239	22,693	-20,454	2,833	25,630	-22,797	-42,908	85,128	150,833	-65,705
February .....	2,006	17,840	-15,834	2,549	20,993	-18,444	-37,552	83,797	139,793	-55,996
March .....	2,270	23,944	-21,674	2,871	27,170	-24,299	-37,605	99,459	161,363	-61,904
April .....	2,418	25,189	-22,771	3,167	28,335	-25,168	-40,538	90,877	156,583	-65,706
May .....	2,566	28,071	-25,505	3,375	31,380	-28,005	-38,592	96,726	163,323	-66,597
June .....	2,590	27,645	-25,055	3,447	31,110	-27,663	-38,913	97,886	164,462	-66,576
July .....	2,863	28,578	-25,715	3,517	31,902	-28,385	-47,730	90,650	166,765	-76,115
August .....	3,003	29,762	-26,759	3,720	32,967	-29,247	-41,652	99,867	170,766	-70,899
September .....	2,715	28,065	-25,350	3,447	30,514	-27,067	-38,839	96,866	162,772	-65,906
October .....	2,790	30,728	-27,938	3,384	33,428	-30,044	-47,025	104,976	182,044	-77,069
November .....	3,882	32,440	-28,558	4,569	35,384	-30,815	-42,912	101,936	175,663	-73,727
December .....	3,952	32,669	-28,717	4,844	36,173	-31,329	-31,234	100,030	162,594	-62,563
<b>Total</b> .....	<b>33,293</b>	<b>327,620</b>	<b>-294,327</b>	<b>41,725</b>	<b>364,987</b>	<b>-323,262</b>	<b>-485,501</b>	<b>1,148,199</b>	<b>1,956,962</b>	<b>-808,763</b>
<b>2008</b> 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
<b>Total</b> .....	<b>61,695</b>	<b>449,847</b>	<b>-388,152</b>	<b>76,075</b>	<b>491,885</b>	<b>-415,810</b>	<b>-400,389</b>	<b>1,287,442</b>	<b>2,103,641</b>	<b>-816,199</b>
<b>2009</b> January .....	3,036	16,863	-13,827	3,994	19,192	-15,198	-28,649	78,379	122,226	-43,847
February .....	2,599	14,042	-11,443	3,636	16,311	-12,675	-16,102	80,503	109,279	-28,777
March .....	2,860	16,617	-13,757	3,730	18,191	-14,461	-18,747	87,796	121,004	-33,208
April .....	2,937	17,937	-15,000	3,623	19,431	-15,808	-22,156	80,969	118,933	-37,964
May .....	3,658	18,201	-14,543	4,262	19,795	-15,533	-17,394	83,786	116,713	-32,927
June .....	3,582	23,018	-19,436	4,411	24,201	-19,790	-20,348	86,860	126,998	-40,138
July .....	4,476	24,375	-19,899	5,138	25,563	-20,425	<sup>R</sup> -29,185	<sup>R</sup> 85,737	<sup>R</sup> 135,347	<sup>R</sup> -49,610
August .....	4,202	22,952	-18,750	4,914	24,226	-19,312	-24,433	87,376	131,122	-43,745
<b>8-Month Total</b> .....	<b>27,350</b>	<b>154,005</b>	<b>-126,655</b>	<b>33,708</b>	<b>166,910</b>	<b>-133,202</b>	<b>-177,014</b>	<b>671,406</b>	<b>981,621</b>	<b>-310,216</b>
<b>2008 8-Month Total</b> .....	<b>45,889</b>	<b>331,651</b>	<b>-285,762</b>	<b>55,505</b>	<b>363,405</b>	<b>-307,900</b>	<b>-259,831</b>	<b>884,560</b>	<b>1,452,292</b>	<b>-567,732</b>
<b>2007 8-Month Total</b> .....	<b>19,955</b>	<b>203,722</b>	<b>-183,767</b>	<b>25,479</b>	<b>229,487</b>	<b>-204,008</b>	<b>-325,490</b>	<b>744,391</b>	<b>1,273,889</b>	<b>-529,498</b>

<sup>a</sup> See "Nominal Dollars" in Glossary.

<sup>b</sup> Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels.

<sup>c</sup> 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

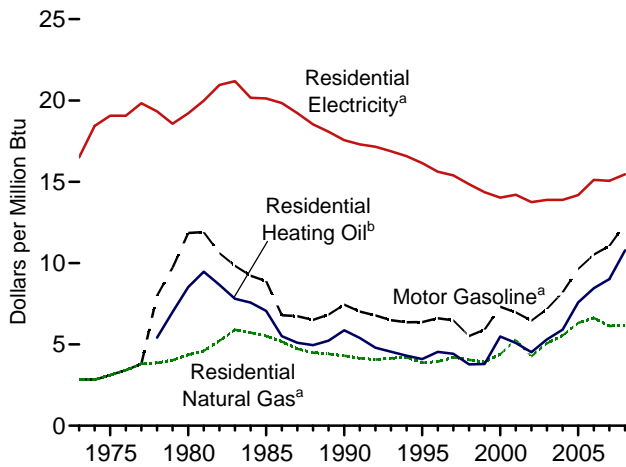
components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

Web Page: See <http://www.eia.doe.gov/emeu/mer/overview.html> for all available data beginning in 1974.

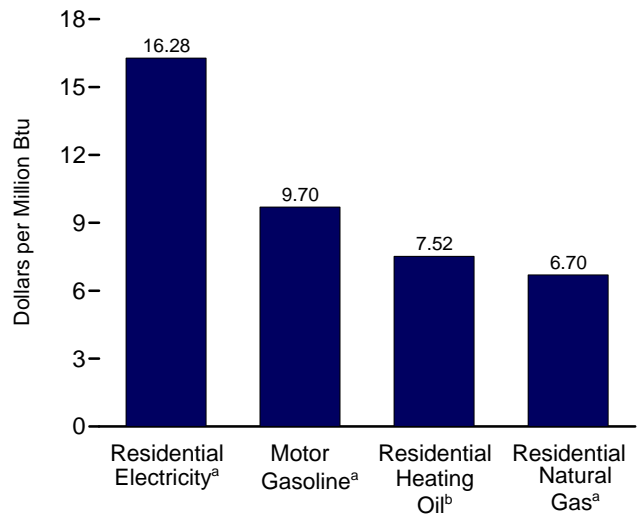
Sources: See end of section.

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

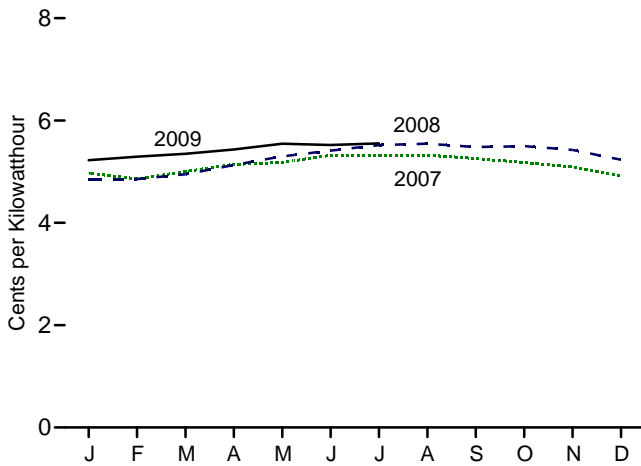
Costs, 1973-2008



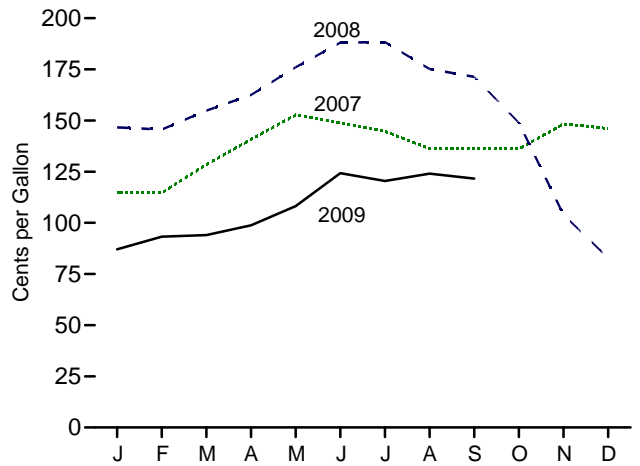
Costs, July 2009



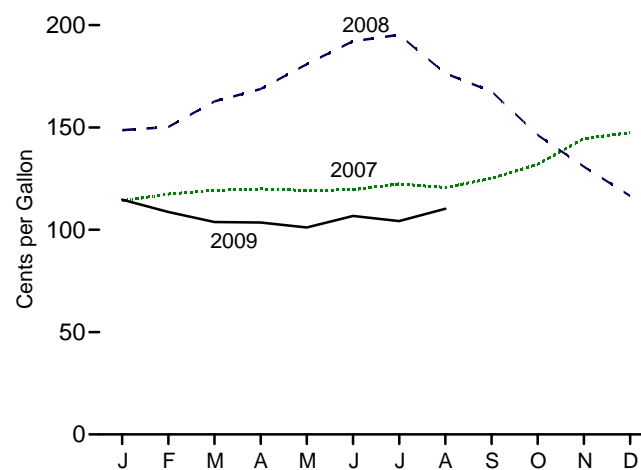
Residential Electricity<sup>a</sup>, Monthly



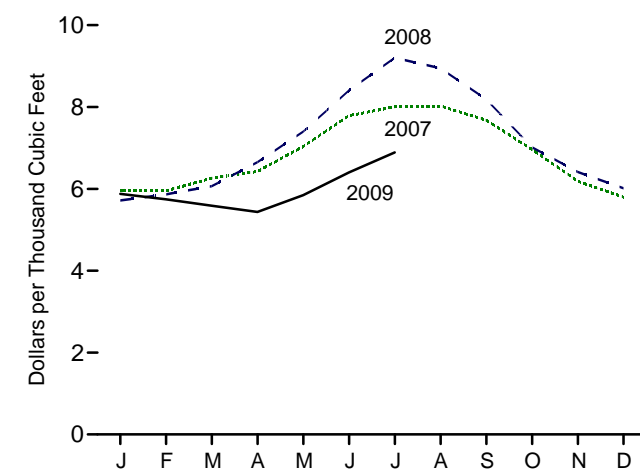
Motor Gasoline<sup>a</sup>, Monthly



Residential Heating Oil<sup>b</sup>, Monthly



Residential Natural Gas<sup>a</sup>, Monthly



<sup>a</sup>Includes taxes.

<sup>b</sup>Excludes taxes.

Note: See "Real Dollars" in Glossary.

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

Source: Table 1.6.

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

	Consumer Price Index, All Urban Consumers <sup>a</sup>	Motor Gasoline <sup>b</sup>		Residential Heating Oil <sup>c</sup>		Residential Natural Gas <sup>b</sup>		Residential Electricity <sup>b</sup>	
	Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatt-hour	Dollars per Million Btu
<b>1973 Average</b> .....	<b>44.4</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>290.5</b>	<b>2.85</b>	<b>5.6</b>	<b>16.50</b>
<b>1975 Average</b> .....	<b>53.8</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>317.8</b>	<b>3.12</b>	<b>6.5</b>	<b>19.07</b>
<b>1980 Average</b> .....	<b>82.4</b>	<b>148.2</b>	<b>11.85</b>	<b>118.2</b>	<b>8.52</b>	<b>446.6</b>	<b>4.36</b>	<b>6.6</b>	<b>19.21</b>
<b>1985 Average</b> .....	<b>107.6</b>	<b>111.2</b>	<b>8.89</b>	<b>97.9</b>	<b>7.06</b>	<b>568.8</b>	<b>5.52</b>	<b>6.87</b>	<b>20.13</b>
<b>1990 Average</b> .....	<b>130.7</b>	<b>93.1</b>	<b>7.44</b>	<b>81.3</b>	<b>5.86</b>	<b>443.8</b>	<b>4.31</b>	<b>5.99</b>	<b>17.56</b>
<b>1995 Average</b> .....	<b>152.4</b>	<b>79.1</b>	<b>6.37</b>	<b>56.9</b>	<b>4.10</b>	<b>397.6</b>	<b>3.87</b>	<b>5.51</b>	<b>16.15</b>
<b>1996 Average</b> .....	<b>156.9</b>	<b>82.1</b>	<b>6.61</b>	<b>63.0</b>	<b>4.54</b>	<sup>R</sup> <b>404.3</b>	<sup>R</sup> <b>3.94</b>	<b>5.33</b>	<b>15.62</b>
<b>1997 Average</b> .....	<b>160.5</b>	<b>80.4</b>	<b>6.48</b>	<b>61.3</b>	<b>4.42</b>	<b>432.4</b>	<b>4.21</b>	<b>5.25</b>	<b>15.39</b>
<b>1998 Average</b> .....	<b>163.0</b>	<b>68.4</b>	<b>5.51</b>	<b>52.3</b>	<b>3.77</b>	<b>418.4</b>	<b>4.05</b>	<b>5.07</b>	<b>14.85</b>
<b>1999 Average</b> .....	<b>166.6</b>	<b>73.3</b>	<b>5.91</b>	<b>52.6</b>	<b>3.79</b>	<b>401.6</b>	<b>3.91</b>	<b>4.90</b>	<b>14.36</b>
<b>2000 Average</b> .....	<b>172.2</b>	<b>90.8</b>	<b>7.32</b>	<b>76.1</b>	<b>5.49</b>	<b>450.6</b>	<b>4.39</b>	<b>4.79</b>	<b>14.02</b>
<b>2001 Average</b> .....	<b>177.1</b>	<b>86.4</b>	<b>6.97</b>	<b>70.6</b>	<b>5.09</b>	<b>543.8</b>	<b>5.28</b>	<b>4.84</b>	<b>14.20</b>
<b>2002 Average</b> .....	<b>179.9</b>	<b>80.1</b>	<b>6.46</b>	<b>62.8</b>	<b>4.52</b>	<b>438.6</b>	<b>4.26</b>	<b>4.69</b>	<b>13.75</b>
<b>2003 Average</b> .....	<b>184.0</b>	<b>89.0</b>	<b>7.18</b>	<b>73.6</b>	<b>5.31</b>	<b>523.4</b>	<b>5.07</b>	<b>4.74</b>	<b>13.89</b>
<b>2004 Average</b> .....	<b>188.9</b>	<b>101.8</b>	<b>8.20</b>	<b>81.9</b>	<b>5.91</b>	<b>569.1</b>	<b>5.54</b>	<b>4.74</b>	<b>13.89</b>
<b>2005 Average</b> .....	<b>195.3</b>	<b>119.7</b>	<b>9.64</b>	<b>105.1</b>	<b>7.58</b>	<b>650.3</b>	<b>6.32</b>	<b>4.84</b>	<b>14.18</b>
<b>2006 Average</b> .....	<b>201.6</b>	<b>130.7</b>	<b>10.52</b>	<b>117.3</b>	<b>8.46</b>	<b>681.1</b>	<b>6.63</b>	<b>5.16</b>	<b>15.12</b>
<b>2007</b> January .....	202.416	114.7	9.23	114.2	8.23	597.3	5.80	4.97	14.57
February .....	203.499	114.6	9.23	117.5	8.47	595.1	5.78	4.86	14.24
March .....	205.352	128.5	10.34	119.3	8.60	626.2	6.09	5.00	14.66
April .....	206.686	140.7	11.33	120.0	8.65	642.5	6.24	5.14	15.07
May .....	207.949	152.7	12.29	119.3	8.60	703.5	6.84	5.18	15.18
June .....	208.352	148.8	11.97	119.6	8.62	779.0	7.57	5.32	15.60
July .....	208.299	144.6	11.64	122.4	8.82	800.3	7.78	5.31	15.58
August .....	207.917	136.3	10.97	120.7	8.70	802.2	7.80	5.32	15.60
September .....	208.490	136.2	10.96	125.1	9.02	767.4	7.46	5.26	15.41
October .....	208.936	136.1	10.95	132.1	9.52	696.4	6.77	5.18	15.18
November .....	210.177	148.4	11.94	144.6	10.43	618.5	6.01	5.09	14.92
December .....	210.036	146.1	11.76	147.5	10.64	579.4	5.63	4.92	14.41
<b>Average</b> .....	<b>207.342</b>	<b>137.4</b>	<b>11.06</b>	<b>125.0</b>	<b>9.01</b>	<b>629.9</b>	<b>6.12</b>	<b>5.14</b>	<b>15.05</b>
<b>2008</b> January .....	211.080	146.7	11.81	148.7	10.72	571.8	5.56	4.85	14.22
February .....	211.693	145.6	11.72	150.3	10.83	586.7	5.70	4.86	14.23
March .....	213.528	154.9	12.47	162.7	11.73	606.5	5.89	4.95	14.51
April .....	214.823	162.5	13.08	168.8	12.17	665.2	6.46	5.13	15.03
May .....	216.632	176.0	14.17	181.0	13.05	740.0	7.19	5.30	15.53
June .....	218.815	188.1	15.14	192.1	13.85	840.4	8.17	5.41	15.86
July .....	219.964	188.3	15.16	195.3	14.08	920.2	8.94	5.52	16.18
August .....	219.086	175.2	14.10	176.5	12.72	894.6	8.69	5.55	16.25
September .....	218.783	171.4	13.79	167.6	12.09	818.6	7.96	5.48	16.06
October .....	216.573	148.9	11.99	146.3	10.55	701.4	6.82	5.50	16.12
November .....	212.425	103.9	8.37	130.8	9.43	641.2	6.23	5.42	15.89
December .....	210.228	82.9	6.67	116.5	8.40	601.3	5.84	5.23	15.34
<b>Average</b> .....	<b>215.303</b>	<b>154.1</b>	<b>12.40</b>	<b>149.5</b>	<b>10.78</b>	<b>635.4</b>	<b>6.17</b>	<b>5.28</b>	<b>15.46</b>
<b>2009</b> January .....	211.143	87.1	7.01	114.7	8.27	587.8	5.71	5.22	15.31
February .....	212.193	93.3	7.51	108.7	7.84	574.5	5.58	5.29	15.51
March .....	212.709	94.0	7.57	103.8	7.48	559.0	5.43	5.35	15.68
April .....	213.240	98.8	7.95	103.6	7.47	543.5	5.28	5.44	15.93
May .....	213.856	108.2	8.71	101.1	7.29	584.5	5.68	5.55	16.25
June .....	215.693	124.3	10.00	<sup>R</sup> 106.7	<sup>R</sup> 7.70	<sup>R</sup> 640.3	6.22	5.52	16.18
July .....	215.351	120.5	9.70	<sup>R</sup> 104.3	<sup>R</sup> 7.52	<sup>R</sup> 689.1	<sup>R</sup> 6.70	<sup>R</sup> 5.55	<sup>R</sup> 16.28
August .....	215.834	124.0	9.98	<sup>RE</sup> 110.3	<sup>RE</sup> 7.95	NA	NA	NA	NA
September .....	215.969	121.6	9.79	NA	NA	NA	NA	NA	NA

<sup>a</sup> Data are U.S. city averages for all items, and are not seasonally adjusted.

<sup>b</sup> Includes taxes.

<sup>c</sup> Excludes taxes.

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

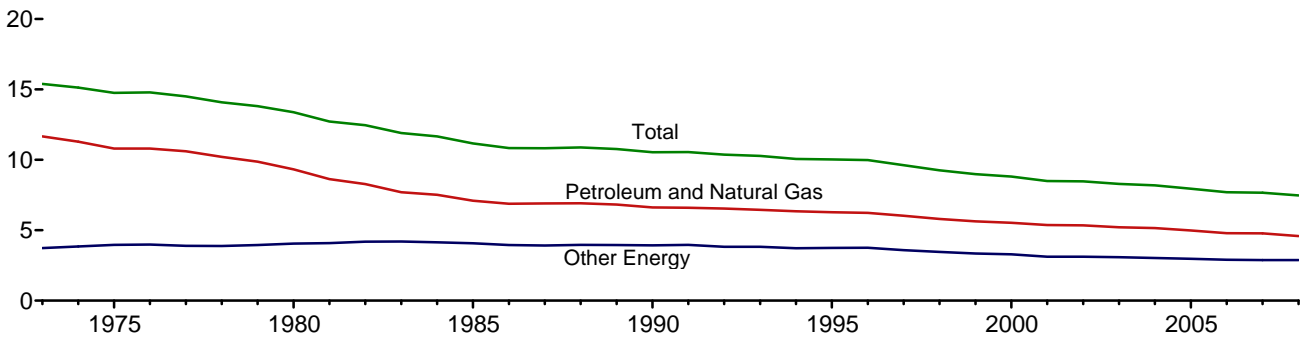
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 States and the

District of Columbia.

Web Page: See <http://www.eia.doe.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.

**Figure 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product, 1973-2008**  
(Thousand Btu per Chained (2005) Dollar)



Note: See "Real Dollars" in Glossary.  
Web Page: <http://www.eia.doe.gov/emeu/mer/overview.html>.  
Source: Table 1.7.

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

	Energy Consumption			Gross Domestic Product (GDP)	Energy Consumption per Real Dollar of GDP		
	Petroleum and Natural Gas	Other Energy <sup>a</sup>	Total		Petroleum and Natural Gas	Other Energy <sup>a</sup>	Total
	Quadrillion Btu				Billion Chained (2005) Dollars	Thousand Btu per Chained (2005) Dollar	
1973 Year .....	57.352	18.356	75.708	4,917.0	11.66	3.73	15.40
1974 Year .....	55.187	18.804	73.991	4,889.9	11.29	3.85	15.13
1975 Year .....	52.678	19.321	71.999	4,879.5	10.80	3.96	14.76
1976 Year .....	55.520	20.492	76.012	5,141.3	10.80	3.99	14.78
1977 Year .....	57.053	20.947	78.000	5,377.7	10.61	3.90	14.50
1978 Year .....	57.966	22.021	79.986	5,677.6	10.21	3.88	14.09
1979 Year .....	57.789	23.114	80.903	5,855.0	9.87	3.95	13.82
1980 Year .....	54.438	23.684	78.122	5,839.0	9.32	4.06	13.38
1981 Year .....	51.678	24.490	76.168	5,987.2	8.63	4.09	12.72
1982 Year .....	48.588	24.566	73.153	5,870.9	8.28	4.18	12.46
1983 Year .....	47.275	25.764	73.039	6,136.2	7.70	4.20	11.90
1984 Year .....	49.445	27.271	76.715	6,577.1	7.52	4.15	11.66
1985 Year .....	48.626	27.867	76.493	6,849.3	7.10	4.07	11.17
1986 Year .....	48.787	27.971	76.759	7,086.5	6.88	3.95	10.83
1987 Year .....	50.505	28.670	79.175	7,313.3	6.91	3.92	10.83
1988 Year .....	52.670	30.151	82.822	7,613.9	6.92	3.96	10.88
1989 Year .....	53.813	31.133	84.946	7,885.9	6.82	3.95	10.77
1990 Year .....	53.156	31.498	84.654	8,033.9	6.62	3.92	10.54
1991 Year .....	52.878	31.731	84.609	8,015.1	6.60	3.96	10.56
1992 Year .....	54.240	31.718	85.958	8,287.1	6.55	3.83	10.37
1993 Year .....	54.973	32.632	87.605	8,523.4	6.45	3.83	10.28
1994 Year .....	56.290	32.972	89.261	8,870.7	6.35	3.72	10.06
1995 Year .....	57.108	34.066	91.174	9,093.7	6.28	3.75	10.03
1996 Year .....	58.758	35.418	94.176	9,433.9	6.23	3.75	9.98
1997 Year .....	<sup>R</sup> 59.383	35.383	94.766	9,854.3	6.03	3.59	9.62
1998 Year .....	59.647	35.536	95.183	10,283.5	5.80	3.46	9.26
1999 Year .....	60.747	36.070	96.817	10,779.8	5.64	3.35	8.98
2000 Year .....	62.089	36.887	98.975	11,226.0	5.53	3.29	8.82
2001 Year .....	60.959	35.367	96.326	11,347.2	5.37	3.12	8.49
2002 Year .....	61.785	36.073	97.858	11,553.0	5.35	3.12	8.47
2003 Year .....	61.706	36.502	98.209	11,840.7	5.21	3.08	8.29
2004 Year .....	63.226	37.125	100.351	12,263.8	5.16	3.03	8.18
2005 Year .....	62.977	37.508	100.485	12,638.4	4.98	2.97	7.95
2006 Year .....	62.182	37.693	99.875	12,976.2	4.79	2.90	7.70
2007 Year .....	63.401	38.153	101.554	13,254.1	4.78	2.88	7.66
2008 Year .....	<sup>R</sup> 61.084	38.353	<sup>R</sup> 99.437	13,312.2	4.59	2.88	7.47

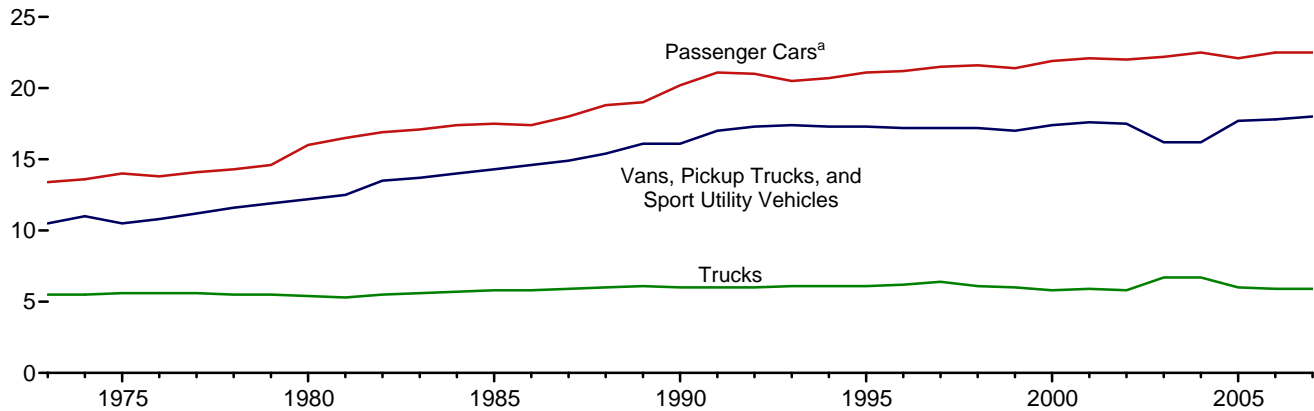
<sup>a</sup> Coal, coal coke net imports, nuclear electric power, renewable energy, and electricity net imports.  
R=Revised.

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 Columbia.

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

Sources: • **Energy Consumption:** Table 1.3. • **Gross Domestic Product: 1973-2006**—U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, August 2009, Table 2A. **2007 forward**—U.S. Department of Commerce, Bureau of Economic Analysis, *BEA News Release*, September 30, 2009, Table 3, which is available at website <http://www.bea.gov/newsreleases/national/gdp/gdpnewsrelease.htm>.

**Figure 1.8 Motor Vehicle Fuel Rates, 1973-2007**  
(Miles per Gallon)



<sup>a</sup>Motorcycles are included through 1989.

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

Source: Table 1.8.

**Table 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Rates**

	Passenger Cars <sup>a</sup>			Vans, Pickup Trucks, and Sport Utility Vehicles <sup>b</sup>			Trucks <sup>c</sup>			All Motor Vehicles <sup>d</sup>		
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (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	<sup>a</sup> 10,157	<sup>a</sup> 533	<sup>a</sup> 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 <sup>P</sup>	12,293	547	22.5	10,952	609	18.0	25,141	4,270	5.9	11,910	692	17.2

<sup>a</sup> Through 1989, includes motorcycles.

<sup>b</sup> Includes a small number of trucks with 2 axles and 4 tires, such as step vans.

<sup>c</sup> Single-unit trucks with 2 axles and 6 or more tires, and combination trucks.

<sup>d</sup> Includes buses and motorcycles, which are not shown separately.

P=Preliminary.

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

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

Sources: • **Passenger Cars, 1990-1994:** U.S. Department of Transportation, Bureau of Transportation Statistics, *National 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.

**Table 1.9 Heating Degree-Days by Census Division**

Census Divisions	September					Cumulative July through September				
	Normal <sup>a</sup>	2008	2009	Percent Change		Normal <sup>a</sup>	2008	2009	Percent Change	
				Normal to 2009	2008 to 2009				Normal to 2009	2008 to 2009
<b>New England</b> Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont .....	153	145	106	-31	-27	190	183	165	-13	-10
<b>Middle Atlantic</b> New Jersey, New York, Pennsylvania .....	105	72	77	-27	7	127	88	94	-26	7
<b>East North Central</b> Illinois, Indiana, Michigan, Ohio, Wisconsin .....	121	93	90	-26	-3	156	134	172	10	28
<b>West North Central</b> Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota .....	139	131	92	-34	-30	183	156	169	-8	8
<b>South Atlantic</b> Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia .....	24	16	8	NM	NM	25	17	9	NM	NM
<b>East South Central</b> Alabama, Kentucky, Mississippi, Tennessee .....	32	15	12	NM	NM	33	16	17	NM	NM
<b>West South Central</b> Arkansas, Louisiana, Oklahoma, Texas .....	9	10	8	NM	NM	9	11	9	NM	NM
<b>Mountain</b> Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming .....	134	106	77	-43	-27	183	119	102	-44	-14
<b>Pacific<sup>b</sup></b> California, Oregon, Washington .....	62	34	25	NM	NM	108	61	44	-59	-28
<b>U.S. Average<sup>b</sup></b> .....	<b>77</b>	<b>59</b>	<b>49</b>	<b>NM</b>	<b>NM</b>	<b>101</b>	<b>76</b>	<b>78</b>	<b>-23</b>	<b>3</b>

<sup>a</sup> "Normal" is based on calculations of data from 1971 through 2000.

<sup>b</sup> Excludes Alaska and Hawaii.

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

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.doe.gov/emeu/mer/overview.html> for

current data. • See <http://www.eia.doe.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.

**Table 1.10 Cooling Degree-Days by Census Division**

Census Divisions	September					Cumulative January through September				
	Normal <sup>a</sup>	2008	2009	Percent Change		Normal <sup>a</sup>	2008	2009	Percent Change	
				Normal to 2009	2008 to 2009				Normal to 2009	2008 to 2009
<b>New England</b> Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont .....	22	50	36	NM	NM	417	490	395	-5	-19
<b>Middle Atlantic</b> New Jersey, New York, Pennsylvania .....	59	82	42	NM	NM	651	731	594	-9	-19
<b>East North Central</b> Illinois, Indiana, Michigan, Ohio, Wisconsin .....	60	64	54	NM	NM	701	643	529	-25	-18
<b>West North Central</b> Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota .....	87	71	84	NM	NM	915	792	717	-22	-9
<b>South Atlantic</b> Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia .....	259	290	288	11	-1	1,756	1,879	1,876	7	(s)
<b>East South Central</b> Alabama, Kentucky, Mississippi, Tennessee .....	209	252	258	23	2	1,485	1,572	1,539	4	-2
<b>West South Central</b> Arkansas, Louisiana, Oklahoma, Texas .....	345	291	332	-4	14	2,274	2,322	2,472	9	6
<b>Mountain</b> Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming .....	167	180	212	27	18	1,184	1,257	1,297	10	3
<b>Pacific<sup>b</sup></b> California, Oregon, Washington .....	125	176	219	75	24	663	883	886	34	(s)
<b>U.S. Average<sup>b</sup></b> .....	<b>155</b>	<b>170</b>	<b>176</b>	<b>14</b>	<b>4</b>	<b>1,141</b>	<b>1,209</b>	<b>1,179</b>	<b>3</b>	<b>-2</b>

<sup>a</sup> "Normal" is based on calculations of data from 1971 through 2000.

<sup>b</sup> Excludes Alaska and Hawaii.

(s)=Less than 0.5 percent and greater than -0.5 percent. 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.doe.gov/emeu/mer/overview.html> for

current data. • See <http://www.eia.doe.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.

**Table 1.11 Carbon Dioxide Emissions From Fossil Fuel Consumption by Source**  
(Million Metric Tons of Carbon Dioxide<sup>a</sup>)

	Coal <sup>b</sup>	Natural Gas <sup>c</sup>	Petroleum <sup>d</sup>	Total Fossil Fuels <sup>e</sup>
<b>1973 Total</b> .....	1,186	1,181	2,319	4,686
<b>1975 Total</b> .....	1,161	1,045	2,183	4,389
<b>1980 Total</b> .....	1,438	1,072	2,263	4,773
<b>1985 Total</b> .....	1,639	935	2,031	4,604
<b>1990 Total</b> .....	1,800	1,034	2,179	5,012
<b>1995 Total</b> .....	1,899	1,193	2,206	5,298
<b>1996 Total</b> .....	1,981	1,216	2,288	5,485
<b>1997 Total</b> .....	2,030	1,226	2,310	5,566
<b>1998 Total</b> .....	2,052	1,199	2,353	5,604
<b>1999 Total</b> .....	2,053	1,199	2,414	5,666
<b>2000 Total</b> .....	2,146	1,240	2,459	5,845
<b>2001 Total</b> .....	2,084	1,189	2,470	5,744
<b>2002 Total</b> .....	2,094	1,246	2,468	5,807
<b>2003 Total</b> .....	2,131	1,213	2,512	5,856
<b>2004 Total</b> .....	2,158	1,194	2,603	5,955
<b>2005 Total</b> .....	2,161	1,183	2,620	5,964
<b>2006 Total</b> .....	2,140	1,159	2,596	5,895
<b>2007</b> January .....	189	133	218	540
February .....	174	138	206	518
March .....	170	114	220	505
April .....	158	97	212	467
May .....	169	83	220	472
June .....	185	83	212	480
July .....	197	89	218	504
August .....	202	102	223	527
September .....	181	85	208	474
October .....	174	87	215	476
November .....	172	98	210	479
December .....	189	129	219	537
<b>Total</b> .....	<b>2,162</b>	<b>1,237</b>	<b>2,580</b>	<b>5,979</b>
<b>2008</b> January .....	192	147	212	550
February .....	177	134	196	507
March .....	172	122	208	502
April .....	160	97	203	460
May .....	168	84	207	459
June .....	183	86	198	467
July .....	199	92	203	493
August .....	194	90	199	484
September .....	175	78	182	436
October .....	166	88	207	460
November .....	166	100	194	459
December .....	180	129	204	513
<b>Total</b> .....	<b>2,130</b>	<b>1,247</b>	<b>2,413</b>	<b>5,790</b>
<b>2009</b> January .....	183	146	<sup>R</sup> 203	531
February .....	152	124	179	455
March .....	148	116	195	459
April .....	136	93	187	417
May .....	143	80	190	413
June .....	159	82	189	429
July .....	169	88	194	452
<b>7-Month Total</b> .....	<b>1,090</b>	<b>730</b>	<b>1,337</b>	<b>3,156</b>
<b>2008 7-Month Total</b> .....	<b>1,249</b>	<b>762</b>	<b>1,427</b>	<b>3,438</b>
<b>2007 7-Month Total</b> .....	<b>1,244</b>	<b>737</b>	<b>1,505</b>	<b>3,486</b>

<sup>a</sup> Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

<sup>b</sup> Includes coal coke net imports.

<sup>c</sup> Emissions from natural gas, excluding supplemental gaseous fuels.

<sup>d</sup> Emissions from petroleum, excluding biofuels that have been blended into petroleum.

<sup>e</sup> Includes carbon dioxide emissions from coal, coal coke net imports, natural gas, and petroleum, but excludes those from electricity generation using geothermal energy and non-biomass waste.

R=Revised.

Notes: • See "Carbon Dioxide" in Glossary. • Energy-related carbon dioxide (CO<sub>2</sub>) emissions account for about 98 percent of U.S. CO<sub>2</sub> emissions (see the Energy Information Administration's *Emissions of Greenhouse Gases in the United*

*States 2007*, Table 5). The vast majority of CO<sub>2</sub> 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 CO<sub>2</sub> emissions include industrial processes, such as cement and limestone production. Data in this table (*Monthly Energy Review* Table 1.11) are estimates for U.S. CO<sub>2</sub> emissions from fossil fuel combustion and the nonfuel use of fossil fuels. See "Table 1.11 Methodology and Sources" 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.doe.gov/emeu/mer/overview.html> for all available data beginning in 1973.

Sources: See end of section.

## 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 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 and 2009: “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 and 2009: “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 and 2009: “U.S. International Trade in Goods and Services,” FT-900, monthly.

#### Petroleum, Energy, and Non-Energy Balances

Calculated by the 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 and 2009: “U.S. International Trade in Goods and Services,” FT-900, monthly.

### Table 1.11 Methodology and Sources

To estimate carbon dioxide emissions from fossil fuel consumption for the *Monthly Energy Review (MER)*, Table 1.11, the Energy Information Administration (EIA) uses the following methodology and sources:

#### Step 1. Determine Consumption by Fuel Type

Coal (including coal coke net imports)—Coal consumption data in thousand short tons by sector (residential, commercial, coke plants, other industrial, electric power) are from *MER* Table 6.2. Coal consumption data by sector are converted to trillion Btu by multiplying by the coal heat content factors in *MER* Table A5. 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 consumption data in trillion Btu are from *MER* Table 1.3.

Petroleum—Consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, lubricants, motor gasoline, petroleum coke, and residual fuel oil are from *MER* Table 3.5. For the component products of liquefied petroleum gases (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 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 *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 in Step 1 include fuel ethanol, a non-fossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from *MER* Table 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* Table 1.11, 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 *PSM* product supplied statistics for motor gasoline; for this time period for *MER* Table 1.11, 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, 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 from EIA’s Office of Integrated Forecasting and Analysis (for details, see “Documentation for *Emissions of Greenhouse Gases in the United States 2006*” at [http://www.eia.doe.gov/oiaf/1605/ggprt/documentation/pdf/0638\(2006\).pdf](http://www.eia.doe.gov/oiaf/1605/ggprt/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 Fossil Fuel Consumption

Carbon dioxide 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 carbon dioxide emissions factors at [http://www.eia.doe.gov/oiaf/1605/ggprt/excel/CO2\\_coeff.xls](http://www.eia.doe.gov/oiaf/1605/ggprt/excel/CO2_coeff.xls). For 2007-2009, the 2006 factors are used. Coal emissions are calculated for each sector (residential, commercial, coke plants, other industrial, electric power); total coal emissions are the sum of the sectoral coal emissions. Coal coke net imports emissions are calculated using a coal coke factor of 114.14 million metric tons CO<sub>2</sub> per quadrillion Btu. Petroleum emissions are calculated for each product; total petroleum emissions are the sum of the product emissions. Residual fuel oil emissions are calculated using the “Residual Fuel” (not the “Residual Fuel-Electric Utility”) factor.

### Step 5. Benchmark to Published Values

Through 2007, the carbon dioxide emissions data for coal, natural gas, and petroleum in Step 4 are benchmarked to the annual values in EIA’s *Emissions of Greenhouse Gases in the United States 2007* (December 2008). For 2008, the carbon dioxide emissions data for coal, natural gas, and petroleum in Step 4 are benchmarked to the annual values in EIA’s *U.S. Carbon Dioxide Emissions from Energy Sources 2008 Flash Estimate* (May 2009). For 2009, the 2008 benchmarked/non-benchmarked ratios for coal, natural gas, and petroleum are applied.