April 2013 Monthly Energy Review





Independent Statistics & Analysis U.S. Energy Information Administration

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Monthly Energy Review

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Monthly Energy Review April 2013

U.S. Energy Information Administration Office of Energy Statistics U.S. Department of Energy Washington, DC 20585

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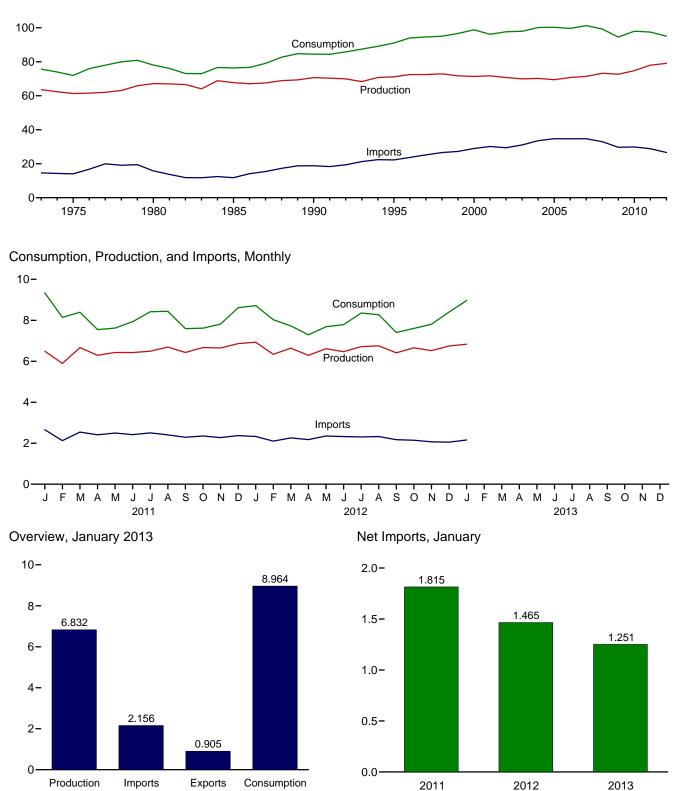
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1. Energy Overview

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

Consumption, Production, and Imports, 1973-2012 120-



Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.1.

Table 1.1 Primary Energy Overview

(Quadrillion Btu)

		Produ	uction			Trade		Stock	Consumption				
	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	4.411	63.563	14.613	2.033	12.580	-0.459	70.314	0.910	4.411	75.684	
1975 Total	54.733	1.900	4.687	61.320	14.032	2.323	11.709	-1.065	65.357	1.900	4.687	71.965	
1980 Total	59.008	2.739	5.428	67.175	15.796	3.695	12.101	-1.210	69.828	2.739	5.428	78.067	
1985 Total	57.539	4.076	6.084	67.698	11.781	4.196	7.584	1.110	66.093	4.076	6.084	76.392	
1990 Total	58.560	6.104	6.041	70.705	18.817	4.752	14.065	284	72.332	6.104	6.041	84.485	
1995 Total	57.540	7.075	6.558	71.174	22.260	4.511	17.750	2.105	77.259	7.075	6.560	91.029	
1996 Total	58.387	7.087	7.012	72.486	23.702	4.633	19.069	2.468	79.785	7.087	7.014	94.022	
1997 Total	58.857	6.597	7.018	72.472	25.215	4.514	20.701	1.429	80.873	6.597	7.016	94.602	
1998 Total	59.314	7.068	6.494	72.876	26.581	4.299	22.281	140	81.369	7.068	6.493	95.018	
1999 Total	57.614	7.610	6.517	71.742	27.252	3.715	23.537	1.372	82.427	7.610	6.516	96.652	
2000 Total	57.366	7.862	6.104	71.332	28.973	4.006	24.967	2.515	84.731	7.862	6.106	98.814	
2001 Total	58.541	8.029	5.164	71.735	30.157	3.771	26.386	-1.953	82.902	8.029	5.163	96.168	
2002 Total	56.834	8.145	5.734	70.713	29.408	3.669	25.739	1.193	83.699	8.145	5.729	97.645	
2003 Total	56.022	7.959	5.947	69.927	31.061	4.054	27.007	1.009	84.014	7.959	5.948	97.943	
2004 Total	55.930	8.222	6.069	70.220	33.544	4.434	29.110	.830	85.819	8.222	6.081	100.160	
2005 Total	55.053	8.161	6.229	69.443	34.709	4.560	30.149	.689	85.794	8.161	6.242	100.282	
2006 Total	55.940	8.215	6.599	70.754	34.679	4.872	29.806	930	84.702	8.215	6.649	99.629	
2007 Total	56.435	8.455	6.509	71.400	34.703	5.482	29.221	.675	86.211	8.455	6.523	101.296	
2008 Total	57.588	8.427	7.202	73.217	32.992	7.060	25.932	.125	83.549	8.427	7.186	99.275	
2009 Total	56.669	8.356	7.616	72.641	29,706	6.965	22.741	822	78.488	8.356	7.600	94.559	
2010 Total	58.224	8.434	8.136	74.795	29.877	8.234	21.643	1.544	81.369	8.434	8.090	97.982	
2011 January	^R 4.985	.761	.747	^R 6.493	2.656	.841	1.815	^R 1.028	7.835	.761	.731	9.337	
February	^R 4.504	.678	.710	^R 5.892	2.126	.759	1.367	^R .884	6.754	.678	.703	8.143	
March	^R 5.163	.687	.816	^R 6.666	2.545	.880	1.664	R.062	6.892	.687	.805	8.393	
April	^R 4.911	.571	.813	^R 6.294	2.411	.878	1.533	^R 281	6.164	.571	.804	7.546	
May	^R 5.000	.597	.832	^R 6.429	2.497	.847	1.651	^R 460	6.185	.597	.826	7.620	
June	^R 4.917	.683	.824	^R 6.425	2.418	.818	1.600	^R 091	6.416	.683	.824	7.934	
July	4.941	.757	.792	6.490	2.505	.854	1.652	^R .275	6.861	.757	.782	8.417	
August	^R 5.208	.746	.742	^R 6.697	2.406	.879	1.527	^R .215	6.935	.746	.741	8.439	
September	^R 5.054	.700	.677	^R 6.430	2.292	.892	1.400	^R 236	6.214	.700	.670	7.594	
October	^R 5.301	.663	.708	^R 6.672	2.352	.891	1.461	^R 516	6.246	.663	.699	7.617	
November	^R 5.237	.675	.738	^R 6.649	2.274	.894	1.380	^R 214	6.406	.675	.727	7.816	
December	^R 5.339	.752	.770	^R 6.861	2.372	1.026	1.347	^R .405	7.089	.752	.760	8.612	
Total	^R 60.562	8.269	9.168	^R 77.999	28.855	10.458	18.397	^R 1.071	79.999	8.269	9.072	97.467	
2012 January	^R 5.385	.757	.785	^R 6.928	2.328	.863	1.465	^R .325	^R 7.187	.757	.763	^R 8.718	
February	^R 4.972	.668	.701	^R 6.341	2.102	.837	1.265	^R .423	^R 6.662	.668	.690	^R 8.030	
March	^R 5.199	.646	.795	^R 6.639	2.258	.963	1.295	^R 209	^R 6.282	.646	.786	^R 7.725	
April	^R 4.933	.585	.770	^R 6.288	2.176	.999	1.177	^R 173	^R 5.928	.585	.767	^R 7.292	
May	^R 5.145	.650	.816	^R 6.611	2.353	1.010	1.343	^R 269	^R 6.204	.650	.816	^R 7.684	
June	5.007	.682	.780	6.469	2.324	.998	1.326	^R 008	^R 6.312	.682	.779	^R 7.786	
July	^R 5.240	.723	.751	^R 6.715	2.305	.981	1.324	^R .314	^R 6.858	.723	.753	^R 8.353	
August	^R 5.310	.728	.713	^R 6.752	2.324	.941	1.383	^R .139	^R 6.808	.728	.719	^R 8.274	
September	^R 5.092	.675	.645	^R 6.413	2.172	.914	1.258	^R 265	^R 6.073	.675	.644	^R 7.406	
October	^R 5.354	.625	.676	^R 6.655	2.146	.954	^R 1.192	^R 244	^R 6.285	.625	.681	^R 7.604	
November	^R 5.240	.593	.687	^R 6.521	2.070	^R .940	1.130	^R .156	^R 6.512	.593	.687	^R 7.806	
December	^R 5 258	.718	.771	^R 6.747	2.051	^R 1.052	^R .999	^R .656	^R 6.906	.718	.767	8.402	
Total	R 62.135	8.050	8.893	R 79.078	26.608	11.452	R 15.157	R.845	^R 78.017	8.050	8.851	^R 95.080	
2013 January	5.298	.747	.787	6.832	2.156	.905	1.251	.881	7.417	.747	.786	8.964	

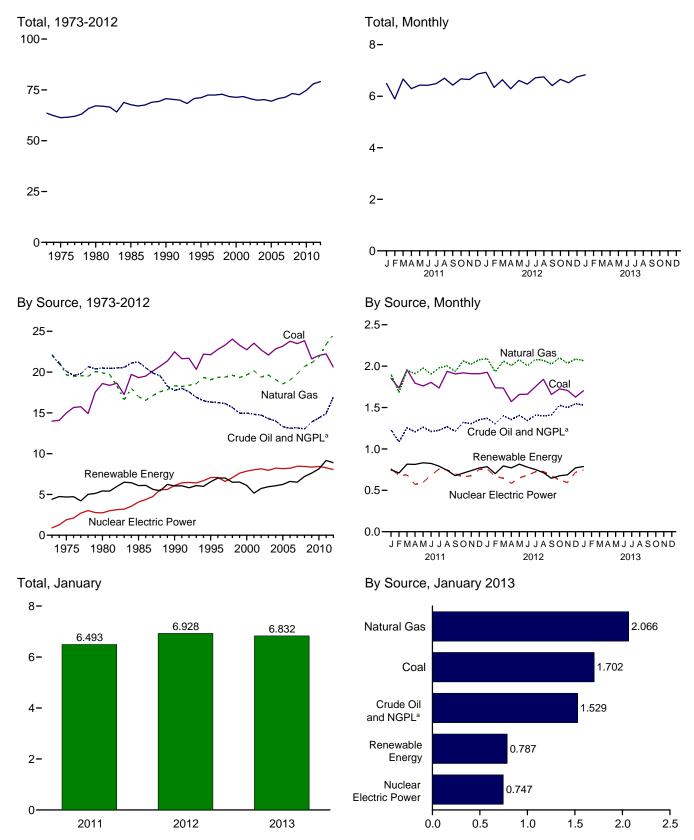
^a Coal, natural gas (dry), crude oil, and natural gas plant liquids.
 ^b See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^c Net imports equal imports minus exports.
 ^d Includes petroleum stock change 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.

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/totalenergy/data/monthly/#summary 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)



^a Natural gas plant liquids.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

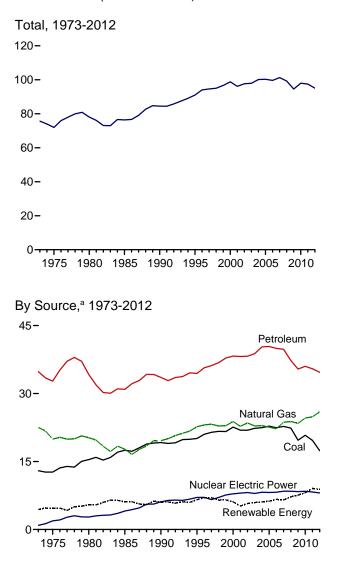
(Quadrillion Btu)

	Fossil Fuels					Renewable Energy ^a							
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
	000	(Diy)	011	NOL	Total	TOWER	1 Ower	unermai	1.4	Willia	mass	Total	Total
1973 Total	13.992	22.187	19.493	2.569	58.241	0.910	2.861	0.020	NA	NA	1.529	4.411	63.563
1975 Total	14.989	19.640	17.729	2.374	54.733	1.900	3.155	.034	NA	NA	1.499	4.687	61.320
1980 Total	18.598	19.908	18.249	2.254	59.008	2.739	2.900	.053	NA	NA	2.475	5.428	67.175
1985 Total	19.325	16.980	18.992	2.241	57.539	4.076	2.970	.097	(s)	(s)	3.016	6.084	67.698
1990 Total	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.171	.059	.029	2.735	6.041	70.705
1995 Total	22.130 22.790	19.082 19.344	13.887 13.723	2.442 2.530	57.540 58.387	7.075 7.087	3.205 3.590	.152 .163	.069 .070	.033 .033	3.099 3.155	6.558 7.012	71.174 72.486
1996 Total 1997 Total	23.310	19.344	13.658	2.530	58.857	6.597	3.640	.163	.070	.033	3.105	7.012	72.400
1998 Total	23.310	19.613	13.235	2.495	59.314	7.068	3.297	.168	.070	.034	2.929	6.494	72.876
1999 Total	23.295	19.341	12.451	2.528	57.614	7.610	3.268	.100	.068	.046	2.965	6.517	71.742
2000 Total	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.164	.066	.057	3.006	6.104	71.332
2001 Total	23.547	20.166	12.282	2.547	58.541	8.029	2.242	.164	.064	.070	2.624	5.164	71.735
2002 Total	22.732	19.382	12.160	2.559	56.834	8.145	2.689	.171	.063	.105	2.705	5.734	70.713
2003 Total	22.094	19.633	11.948	2.346	56.022	7.959	2.793	.173	.062	.113	2.805	5.947	69.927
2004 Total	22.852	19.074	11.538	2.466	55.930	8.222	2.688	.178	.063	.142	2.998	6.069	70.220
2005 Total	23.185	18.556	10.978	2.334	55.053	8.161	2.703	.181	.063	.178	3.104	6.229	69.443
2006 Total	23.790	19.022	10.772	2.356	55.940	8.215	2.869	.181	.068	.264	3.216	6.599	70.754
2007 Total	23.493	19.786	10.748	2.409	56.435	8.455	2.446	.186	.076	.341	3.461	6.509	71.400
2008 Total	23.851	20.703	10.615	2.419	57.588	8.427	2.511	.192	.089	.546	3.864	7.202	73.217
2009 Total 2010 Total	21.624 22.038	21.139 21.806	11.332 11.598	2.574 2.781	56.669 58.224	8.356 8.434	2.669 2.539	.200 .208	.098 .126	.721 .923	3.928 4.341	7.616 8.136	72.641 74.795
2010 10181	22.030	21.000	11.550	2.701	30.224	0.434	2.333	.200	.120	.525	4.541	0.150	74.733
2011 January	1.854	1.901	^R .989	.241	^R 4.985	.761	.248	.018	.012	.083	.385	.747	^R 6.493
February	1.736	1.684	^R .879	.207	^R 4.504	.678	.234	.017	.012	.102	.346	.710	^R 5.892
March	1.958	1.950	^R 1.006	.250	^R 5.163	.687	.303	.018	.013	.102	.380	.816	^R 6.666
April	1.795	1.909	R.965	.241	^R 4.911	.571	.303	.017	.013	.121	.359	.813	^R 6.294
May	1.760	1.977	R 1.009	.254	^R 5.000	.597	.317	.018	.014	.114	.369	.832	^R 6.429
June	1.804	1.903	^R .970 ^R .975	.241	^R 4.917	.683	.312	.017	.014	.107	.375	.824	^R 6.425
July	1.736 1.937	1.979 2.003	^R 1.015	.251 .254	4.941 ^R 5.208	.757 .746	.304 .250	.018 .018	.014 .014	.073 .073	.384 .387	.792 .742	6.490 ^R 6.697
August September	1.937	2.003	^R .973	.234	^R 5.054	.746	.250	.018	.014	.073	.307	.742	R 6.430
October	1.919	2.063	R 1.056	.263	^R 5.301	.663	.200	.017	.013	.102	.382	.708	R 6.672
November	1.909	2.000	R 1.045	.261	^R 5.237	.675	.201	.018	.013	.121	.386	.738	R 6.649
December	1.908	2.079	R 1.084	.268	R 5.339	.752	.231	.018	.013	.104	.405	.770	R 6.861
Total	22.221	23.406	R 11.965	2.970	R 60.562	8.269	3.103	.212	.158	1.168	4.527	9.168	R 77.999
2012 January	1.925	E 2.089	^{RE} 1.100	.271	^R 5.385	.757	.227	.019	.015	.134	.390	.785	^R 6.928
February	1.738	E 1.931	E 1.047	.255	^R 4.972	.668	.198	.013	.015	.108	.362	.703	R 6.341
March	1.736	E 2.062	RE 1.129	.271	R 5.199	.646	.250	.019	.013	.135	.373	.795	R 6.639
April	1.572	E 2.007	RE 1.091	.263	R 4.933	.585	.254	.018	.017	.124	.356	.770	R 6.288
May	1.659	E 2.079	RE 1.135	.271	^R 5.145	.650	.277	.019	.019	.122	.378	.816	R 6.611
June	1.660	E 2.005	E 1.084	.258	5.007	.682	.259	.019	.019	.116	.368	.780	6.469
July	1.751	E 2.081	RE 1.143	.265	^R 5.240	.723	.260	.019	.019	.085	.368	.751	^R 6.715
August	1.841	E 2.070	RE 1.128	.270	^R 5.310	.728	.225	.019	.019	.081	.370	.713	^R 6.752
September	1.658	E 2.025	RE 1.138	.272	^R 5.092	.675	.171	.019	.018	.084	.353	.645	^R 6.413
October	R 1.726	RE 2.101	E 1.243	.284	^R 5.354	.625	.157	.019	.019	.122	.359	.676	R 6.655
November	R 1.707	RE 2.035	^E 1.220 ^{RE} 1.270	.278	R 5.240	.593	.183	.019	.017	.112	.356	.687	R 6.521
December Total	^R 1.626 ^R 20.600	^E 2.086 ^{RE} 24.571	RE 1.270 RE 13.729	.276 3.235	^R 5.258 ^R 62.135	.718 8.050	.226 2.687	.020 .227	.017 .212	.138 1.361	.371 4.406	.771 8.893	^R 6.747 ^R 79.078
	20.000		15.725	5.255	02.100	0.000	2.007		.2.2	1.501	4.400	0.000	15.070
2013 January	1.702	E 2.066	E 1.259	.270	5.298	.747	.244	.019	.017	.141	.365	.787	6.832

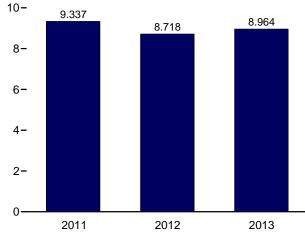
^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. See Table 6.1.
 ^c Includes lease condensate.
 ^d Natural gas plant liquids.
 ^e 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/totalenergy/data/monthly/#summary 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.

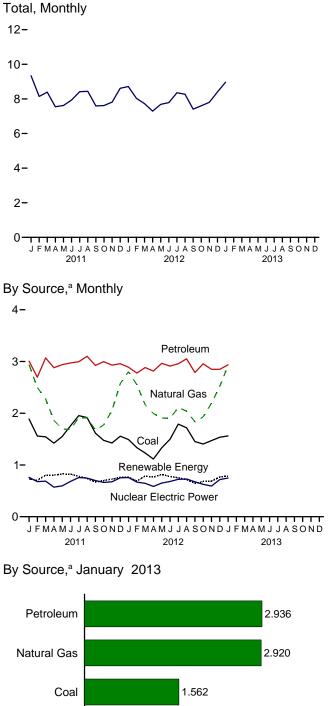
Figure 1.3 Primary Energy Consumption (Quadrillion Btu)







^a Small quantities of net imports of coal coke and electricity are not shown. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.3.





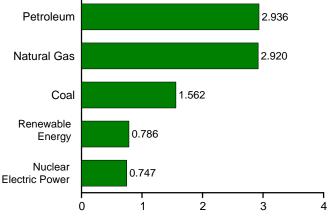


Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels	-				Renewable	e 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
						I						
1973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.020	NA	NA	1.529	4.411	75.684
1975 Total	12.663	19.948	32.732	65.357	1.900	3.155	.034	NA	NA	1.499	4.687	71.965
1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA	NA	2.475	5.428	78.067
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.041	84.485
1995 Total	20.089	22.671	34.438	77.259	7.075	3.205	.152	.069	.033	3.101	6.560	91.029
1996 Total	21.002	23.085	35.675	79.785	7.087	3.590	.163	.070	.033	3.157	7.014	94.022
1997 Total	21.445	23.223	36.159	80.873	6.597	3.640	.167	.070	.034	3.105	7.016	94.602
1998 Total	21.656	22.830	36.816	81.369	7.068	3.297	.168	.069	.031	2.927	6.493	95.018
1999 Total	21.623	22.909	37.838	82.427	7.610	3.268	.171	.068	.046	2.963	6.516	96.652
2000 Total	22.580	23.824	38.262	84.731	7.862	2.811	.164	.066	.057	3.008	6.106	98.814
2001 Total	21.914	22.773	38.186	82.902	8.029	2.242	.164	.064	.070	2.622	5.163	96.168
2002 Total	21.904	23.510	38.224	83.699	8.145	2.689	.171	.063	.105	2.701	5.729	97.645
2002 Total	21.904	23.510	38.811	84.014	7.959	2.009	.173	.063	.105	2.807	5.948	97.943
	22.321	22.831	40.292	84.014 85.819	7.959 8.222	2.793	.173	.062	.113	2.807	5.948 6.081	97.943
2004 Total	22.466	22.923	40.292	85.819	8.222 8.161	2.688	.178	.063	.142	3.010	6.081	100.160
2005 Total												
2006 Total	22.447	22.239	39.955	84.702	8.215	2.869	.181	.068	.264	3.267	6.649	99.629
2007 Total	22.749	23.663	39.774	86.211	8.455	2.446	.186	.076	.341	3.474	6.523	101.296
2008 Total	22.385	23.843	37.280	83.549	8.427	2.511	.192	.089	.546	3.849	7.186	99.275
2009 Total	19.692	23.416	35.403	78.488	8.356	2.669	.200	.098	.721	3.912	7.600	94.559
2010 Total	20.791	24.575	36.010	81.369	8.434	2.539	.208	.126	.923	4.294	8.090	97.982
2011 January	1.888	2.940	3.006	7.835	.761	.248	.018	.012	.083	.369	.731	9.337
February	1.560	2.497	2.696	6.754	.678	.234	.017	.012	.102	.339	.703	8.143
March	1.544	2.276	3.070	6.892	.687	.303	.018	.013	.102	.369	.805	8.393
April	1.421	1.863	2.879	6.164	.571	.303	.017	.013	.121	.349	.804	7.546
May	1.551	1.695	2.938	6.185	.597	.317	.018	.014	.114	.363	.826	7.620
June	1.758	1.684	2.973	6.416	.683	.312	.017	.014	.107	.374	.824	7.934
July	1.953	1.913	2.995	6.861	.757	.304	.018	.014	.073	.374	.782	8.417
	1.933	1.913	3.101	6.935	.746	.250	.018	.014	.073	.386	.741	8.439
August	1.614	1.677	2.923	6.214	.740	.208	.018	.014	.073	.365	.670	7.594
September												
October	1.475	1.773	2.998	6.246	.663	.192	.018	.013	.102	.373	.699	7.617
November	1.425	2.053	2.929	6.406	.675	.201	.018	.013	.121	.375	.727	7.816
December Total	1.556 19.663	2.574 24.860	2.957 35.465	7.089 79.999	.752 8.269	.231 3.103	.018 .212	.013 .158	.104 1.168	.395 4.432	.760 9.072	8.612 97.467
2012 January	^R 1.491	2.804	2.889	^R 7.187	.757	.227	.019	.015	.134	.367	.763	^R 8.718
February	^R 1.335	2.550	2.777	^R 6.662	.668	.198	.018	.015	.108	.351	.690	^R 8.030
March	^R 1.232	2.165	2.883	^R 6.282	.646	.250	.019	.017	.135	.365	.786	^R 7.725
April	^R 1.113	1.994	2.815	^R 5.928	.585	.254	.018	.017	.124	.353	.767	^R 7.292
May	^R 1.331	1.908	2.964	^R 6.204	.650	.277	.019	.019	.122	.378	.816	^R 7.684
June	^R 1.498	1.903	2.911	^R 6.312	.682	.259	.019	.019	.116	.366	.779	^R 7.786
July	^R 1.789	^R 2.111	2.957	^R 6.858	.723	.260	.019	.019	.085	.369	.753	^R 8.353
August	R 1.718	2.040	3.051	R 6.808	.728	.225	.019	.019	.081	.375	.719	R 8.274
September	^R 1.453	1.834	2.788	R 6.073	.675	.171	.019	.018	.084	.352	.644	R 7.406
October	^R 1.405	1.928	2.955	^R 6.285	.625	.157	.019	.010	.122	.364	.681	^R 7.604
	^R 1.405	^R 2.195	2.955	^R 6.512	.625	.157	.019	.019	.122	.364 .356	.687	R 7.804
November												
December	1.536 ^R 17.372	2.521 25.954	2.849 34.688	^R 6.906 ^R 78.017	.718 8.050	.226 2.687	.020 .227	.017 .212	.138 1.361	.367 4.364	.767 8.851	8.402 ^R 95.080
Total	11.312	25.954	34.000	10.017	0.050	2.00/	.221	.212	1.301	4.304	0.001	95.080
2013 January	1.562	2.920	2.936	7.417	.747	.244	.019	.017	.141	.364	.786	8.964

^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^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."
 ^d Includes coal coke net imports. See Tables 1.4a and 1.4b.
 ^e Conventional hydroelectric power.
 ^f 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.gov/totalenergy/data/monthly#summary 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)

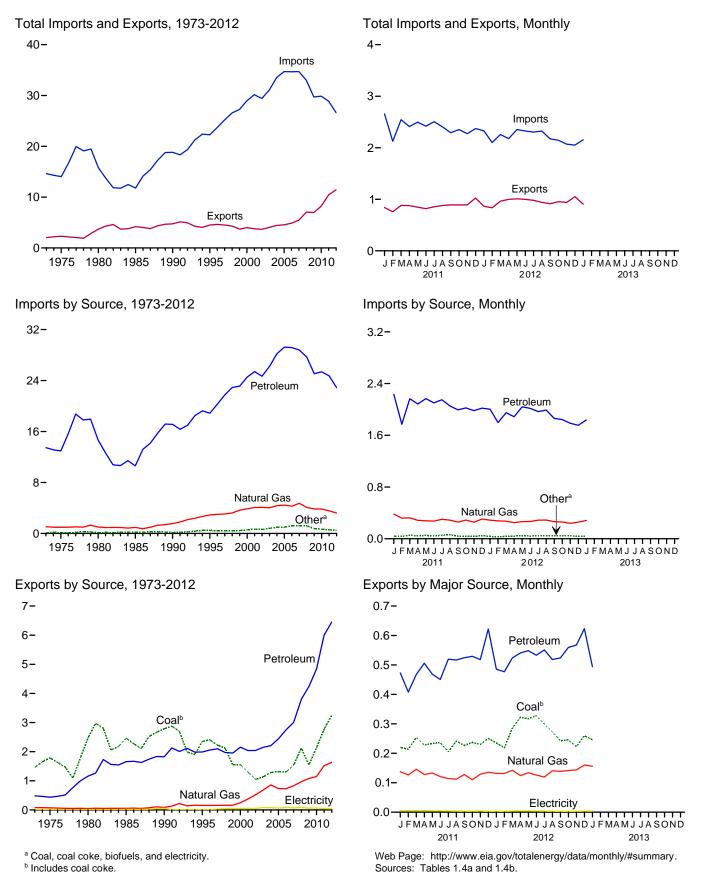
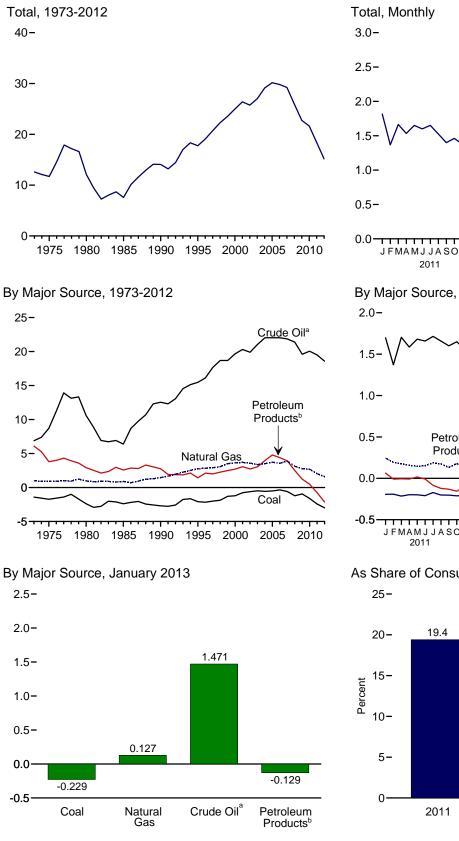
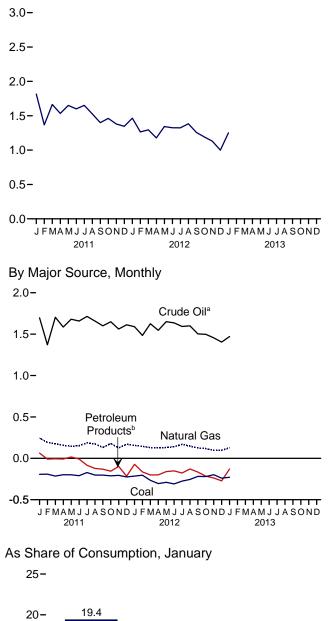
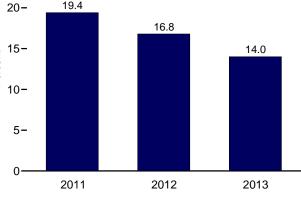


Figure 1.4b Primary Energy Net Imports

(Quadrillion Btu, Except as noted)







^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 components. Does not include biofuels.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: Tables 1.3, 1.4a, and 1.4b.

Table 1.4a Primary Energy Imports by Source

(Quadrillion Btu)

					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuels ^c	Electricity	Total
973 Total	0.003	0.027	1.060	6.887	6.578	13.466	NA	0.057	14.613
975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
990 Total	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
995 Total	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260
996 Total	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702
997 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
998 Total	.218	.095	3.225	18.916	3.992	22.908	(s)	.135	26.581
999 Total	.227	.080	3.664	18.935	4.198	23.133	(s)	.147	27.252
000 Total	.313	.094	3.869	19.783	4.749	24.531	(s)	.166	28.973
001 Total	.495	.063	4.068	20.348	5.051	25.398	.002	.131	30.157
002 Total	.422	.080	4.104	19.920	4.754	24.674	.002	.125	29.408
003 Total	.626	.068	4.042	21.060	5.159	26.219	.002	.104	31.061
004 Total	.682	.170	4.365	22.082	6.114	28.197	.013	.117	33.544
005 Total	.762	.088	4.450	22.091	7.157	29.248	.012	.150	34.709
006 Total	.906	.101	4.291	22.085	7.084	29.169	.066	.146	34.679
007 Total	.909	.061	4.723	21.914	6.868	28.781	.054	.175	34.703
008 Total	.855	.089	4.084	21,448	6.237	27.685	.084	.195	32.992
009 Total	.566	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
010 Total	.484	.030	3.834	20.140	5.231	25.371	.004	.154	29.877
011 January	.025	.001	.381	1.710	.523	2.233	(s)	.015	2.656
February	.021	.002	.319	1.377	.394	1.771	(s)	.013	2,126
March	.038	.004	.323	1.710	.455	2.166	(s)	.014	2.545
April	.028	.001	.285	1.593	.490	2.084	(s)	.013	2.411
May	.033	.004	.278	1.687	.479	2.166	(s)	.017	2.497
June	.024	.004	.273	1.665	.436	2.101	.001	.015	2.418
July	.030	.003	.301	1.728	.422	2.150	.001	.021	2.505
August	.039	.005	.287	1.664	.389	2.053	.002	.019	2.406
September	.021	.003	.258	1.607	.386	1.993	.002	.014	2.292
October	.023	.002	.289	1.659	.364	2.023	.002	.013	2.352
November	.020	.002	.255	1.572	.409	1.981	.002	.012	2.274
December	.020	.002	.305	1.622	.397	2.019	.005	.012	2.372
Total	.327	.035	3.555	19.595	5.145	24.740	.019	.178	28.855
012 January	.020	.003	.288	1.600	.403	2.003	(s)	.014	2.328
February	.013	.002	.277	1.494	.303	1.797	(s)	.012	2.102
March	.013	.002	.272	1.636	.312	1.948	.002	.012	2.258
April	.016	.007	.249	1.552	.335	1.887	.002	.017	2.176
May	.025	.004	.265	1.663	.376	2.039	.001	.019	2.353
June	.018	.004	.266	1.644	.373	2.000	.002	.018	2.324
July	.022	.001	.200	1.606	.360	1.966	.003	.023	2.324
August	.022	.001	.288	1.611	.379	1.990	.007	.023	2.324
September	.021	.001	.264	1.513	.348	1.861	.007	.022	2.324
October	.021	.002	^R .260	1.510	.332	1.842	.007	.017	2.172
November	.022	.001	.200	1.468	.317	1.786	.007	.015	2.070
December	.020	.001	.259	1.408	.340	1.754	.007	.015	2.070
Total	.018 .229	.002 .028	R 3.214	18.712	4.178	22.891	.005 .045	.202	2.051 26.608
013 January	.016	(s)	.283	1.484	.352	1.836	.004	.017	2.156

 ^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 components. Does not include biofuels.
 ^c Fuel ethanol (minus denaturant) and biodiesel. R=Revised. 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. and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary 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 and Table A5. • 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, 10.4 and A3. • Electricity: Tables 7 1 and A6 7.1 and A6.

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

(Quadrillion Btu)

1973 Total 1.425 0.035 0.074 0.042 0.426 0.486 NA 0.009 2.033 1 1973 Total 1.761 0.322 0.074 0.012 427 439 NA 0.009 2.033 1 1980 Total 2.421 0.651 0.452 1.554 1.160 NA 0.014 3.655 1 1980 Total 2.438 0.024 0.656 432 1.554 1.824 NA 0.014 4.511 1 1995 Total 2.368 0.404 1.552 2.033 1.825 2.059 NA 0.11 4.631 1 1995 Total 1.528 0.228 1.61 2.33 1.740 1.972 NA 4.74 2.992 2.014 1.655 0.33 3.777 0.433 1.996 2.042 (s) 0.564 3.669 2.200 7.051 1.955 NA 0.494 3.771 2.208 1.001 .082 4.054 2.202 <t< th=""><th></th><th></th><th></th><th></th><th></th><th>Exports</th><th></th><th></th><th></th><th></th><th>Net Imports^a</th></t<>						Exports					Net Imports ^a
Coal Coke Gas Oil ^b Products ^c Total Biofuels ^d Electricity Total Total 1973 Total 1.425 0.035 0.079 0.004 0.482 0.486 NA 0.009 2.033 1 1980 Total 2.421 0.051 0.494 609 551 1.160 NA 0.017 4.368 1.1651 1990 Total 2.472 0.438 0.665 4.321 1.252 1.657 NA 0.017 4.166 1.751 1.824 NA 0.052 4.752 1.1 1 1990 Total 2.218 0.033 1.155 2.33 1.825 2.099 NA 0.011 4.653 1.151 1.991 NA 0.012 4.151 1.995 Total 1.252 0.223 1.172 NA 0.471 4.299 2.230 1.875 2.100 NA 0.41 4.259 2.2007 1.997 1.918 NA 0.491 3.755 2.100 1.92048						Petroleum					
1975 Total 1.761 .032 .074 .012 .427 .439 NA .017 .2.323 1 1985 Total .2.421 .051 .049 .609 .551 .1.657 NA .014 .3.695 1 1995 Total .2.372 .014 .087 .230 .1.594 .1.824 NA .015 .4.752 .1 1995 Total .2.368 .040 .155 .233 .1.825 .2.059 NA .011 .4.633 1 1995 Total .2.368 .040 .155 .233 .1.872 .2.100 NA .031 .4.514 .2.292 1995 Total .1.525 .022 .164 .250 .1.705 .1.955 NA .049 .3.717 2000 Total .1.528 .022 .50 .1.966 .2.033 (s) .056 .3.771 .2 .2003 (s) .056 .3.771 .2 .2003 (s) .056 .3.771 .2 .2003 .051 .4.064 .2 .2.033 .6.80 .2.042		Coal					Total	Biofuels ^d	Electricity	Total	Total
1975 Total 1.761 032 074 012 427 439 NA 017 2.323 1 1980 Total 2.421 051 049 609 .551 1.160 NA .014 3.695 1. 1995 Total 2.372 014 087 2.30 1.594 1.824 NA .017 4.196 1995 Total 2.388 0.40 .155 2.33 1.825 2.059 NA .011 4.633 1 1997 Total 2.193 0.31 .159 2.23 1.742 .100 NA .031 4.514 2.29 1999 Total 1.525 0.22 .164 .250 .1705 .1955 NA .049 3.717 2.202 2001 Total 1.252 0.202 .520 .106 2.048 2.154 NA .049 3.717 2 2001 Total 1.252 0.202 .520 .106 2.048 .2154 NA .066 3.771 2 2001 Total 1.253 .033 .862 <t< td=""><td>1973 Total</td><td>1.425</td><td>0.035</td><td>0.079</td><td>0.004</td><td>0.482</td><td>0.486</td><td>NA</td><td>0.009</td><td>2,033</td><td>12.580</td></t<>	1973 Total	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2,033	12.580
1980 Total 2.421 .051 .049 .609 .551 1.160 NA .014 .3.695 1. 1995 Total 2.772 .014 .087 .230 1.594 1.824 NA .017 .4.196 1995 Total 2.318 .034 .156 .200 1.791 1.991 NA .012 .4.511 1 1996 Total 2.388 .040 .155 .233 1.825 .2059 NA .011 .4.633 1 1997 Total 2.193 .031 .159 .228 1.872 2.100 NA .047 4.299 2 1998 Total 1.525 .022 .161 .233 1.740 1.972 NA .047 4.299 2 2000 Total 1.525 .022 .164 .2048 2.154 NA .061 .4068 .2033 .3771 .2023 .0424 (s) .054 .3669 .2030 (c) .054 .3669 .2033 .056 .3771 .2020 .051 .1373 .052 .2151 </td <td></td> <td>11.709</td>											11.709
1985 Total 2.438 0.28 0.56 .432 1.225 1.657 NA .017 4.196 1990 Total 2.772 .014 .0867 .230 1.594 1.824 NA .015 .4752 1 1995 Total .2.368 .040 .155 .233 1.825 .2059 NA .011 4.633 1 1997 Total .2.193 .031 .155 .228 1.872 .2100 NA .031 4.514 .299 1998 Total .1.525 .022 .164 .250 1.705 1.955 NA .049 3.715 .2 2000 Total .1.528 .022 .202 .166 .048 .2154 NA .049 3.717 .202 .2039 (s) .056 3.771 .202 .2011 .0132 .2022 .2037 .014 .2032 .0442 .901 .068 .3669 .2 .2007 .2007 .011 .012 .4064 .2 .2008 .011 .017 .434 .2 .2006 .201											12.101
1990 Total 2.772 014 .087 .230 1.594 1.824 NA .055 4.752 1 1995 Total .2.318 .034 .155 .200 1.791 1.991 NA .011 4.631 1 1996 Total .2.193 .031 .159 .228 1.872 2.100 NA .011 4.633 1 1998 Total .2.092 .028 .161 .233 1.740 1.972 NA .047 4.299 2 1999 Total .1.525 .022 .164 .250 1.705 1.955 NA .047 4.299 2 2000 Total .1.526 .022 .164 .203 1.643 .0669 2 .034 .054 3.669 2 .036 .054 3.669 2 .0205 .051 .043 .0669 2 .0206 .054 3.669 2 .0206 .054 3.669 2 .0206 .054 .043 .043 .043 .0427 .043 .0206 .054 .043 .0469 <td></td> <td>7.584</td>											7.584
1995 Total 2.318 .034 .156 .200 1.791 1.991 NA .012 4.511 1 1996 Total 2.368 .040 .155 .233 1.825 2.059 NA .011 4.633 1 1997 Total 2.133 .031 .159 .228 1.64 .233 1.740 1.972 NA .047 4.299 .2 1999 Total 1.525 .022 .164 .250 1.740 1.955 NA .049 3.715 .2 2000 Total 1.526 .028 .245 .106 2.048 2.154 NA .049 3.771 .2 .0042 (s) .056 3.771 .2 .2032 1.044 .01 .062 .4.054 .2 .2 .001 .068 3.669 .2 .2 .161 .2.08 .001 .078 .4.344 .2 .2 .2 .001 .065 4.560 .3 .2 .006 .056 .2 .161 .2 .080 .006 .005 .6 .2											14.065
996 Total 2.366 0.40 .155 2.33 1.825 2.059 NA 0.011 4.633 11 998 Total 2.092 0.28 .161 2.33 1.740 NA 0.047 4.299 2 998 Total 1.525 0.02 .164 .250 1.705 1.955 NA 0.047 4.299 2 900 Total 1.525 0.02 .164 .200 .175 NA 0.047 4.299 2 900 Total 1.525 0.03 .377 .043 1.996 2.039 (s) .054 3.669 2 900 Total 1.032 .020 .011 .011 .082 4.054 2 .001 .084 .3669 2 .011 .082 4.054 2 .001 .084 .434 2 .000 .006 .011 .078 .4434 2 .0007 .036 .433 .735 .067 .2374 .2442 .001 .086 .6465 .239 .751 .004 .083 .046 .65 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>17.750</td></td<>											17.750
997 Total 2.193 0.31 1.59 2.28 1.740 1.972 NA 0.047 4.299 2 998 Total 1.525 0.022 1.64 2.50 1.740 1.972 NA 0.47 4.299 2 999 Total 1.528 0.022 1.64 2.50 1.955 NA 0.49 3.716 2 000 Total 1.528 0.022 1.64 2.50 0.1705 1.955 NA 0.451 4.066 2 000 Total 1.652 0.020 0.203 2.042 (s) 0.554 3.669 2 2 0.01 0.78 4.434 2 000 Total 1.117 0.18 6.86 0.052 2.699 2.751 0.04 0.83 4.872 2 005 Total 1.264 0.40 7.35 0.67 2.374 2.442 0.01 0.65 4.560 3 2 0.03 4.66 0.63 7.662 2.699 2.751 0.04 0.83 4.570 4.240 0.03 6.05 5.482 2<											19.069
998 Total 2.092 0.028 161 233 1.740 1.972 NA 0.047 4.299 1.2 000 Total 1.525 0.022 1.64 2.50 1.705 1.955 NA 0.049 3.715 2.2 000 Total 1.525 0.023 0.51 4.006 2.042 (s) 0.56 3.771 2.0 001 Total 1.265 0.033 0.520 0.019 2.032 2.042 (s) 0.56 3.771 2.0 002 Total 1.117 0.18 6.66 0.26 2.124 2.151 0.01 0.024 4.054 2 003 Total 1.273 0.43 .735 0.677 2.374 2.442 0.01 0.65 4.540 0.3 006 Total 1.264 0.404 .730 0.652 2.699 2.751 0.04 0.83 4.752 2 007 Total 1.515 0.32 1.082 0.93 4.147 4.240 0.34 0.665 8.244 2 0010 Total 1.515 0.32											20.701
999 Total 1.525 .022 .164 .260 1.705 1.955 NA .049 3.715 22 000 Total .1.528 .028 .245 .106 2.048 2.154 NA .051 4.006 2 001 Total .1.265 .033 .377 .043 1.996 2.039 (s) .056 3.771 2 002 Total .1.032 .020 .520 .019 2.023 2.042 (s) .054 3.669 2 003 Total .1.273 .043 .735 .067 2.134 2.442 .001 .065 4.660 3 006 Total .1.273 .043 .735 .067 2.134 2.442 .001 .065 4.660 3 006 Total .1.507 .036 .830 .058 2.949 .007 .034 .062 6.565 2 008 Total .1.515 .032 .1.082 .033 .4147 .4240 .034 .065 8.234 2 009 Total .2.151 .032<											
000 Total 1.528 .028 .245 .106 2.048 2.154 NA .051 4.006 2 001 Total 1.265 .033 .377 .043 1.996 .2.039 (s) .056 .3.771 .2 .003 Total .011 .0182 .4.054 .2 .004 Total .1273 .033 .862 .057 .2.151 .001 .082 .4.054 .2 .001 .065 .4.344 .2 .001 .065 .4.364 .2 .001 .078 .4.434 .2 .005 .011 .073 .052 .2.699 .2.751 .004 .083 .4.872 .2 .007 .035 .069 .5.482 .2 .0007 .035 .069 .5.482 .2 .0008 Total .2.071 .049 .972 .061 .7.793 .3.806 .066 .8.234 .2 .001 .013 .013 .040 .046 .042 .6.965 .2.24 .2 .011											22.281
001 Total 1.265 .033 .377 .043 1.996 2.039 (s) .056 .3.771 22 002 Total 1.1032 .020 .520 .019 2.023 .2.042 (s) .054 .3.669 .2 003 Total 1.117 .018 .686 .026 2.151 .2.008 .001 .078 .4.344 .2 005 Total 1.253 .043 .735 .067 2.374 2.442 .001 .076 .4.344 .2 .2 .0007 .011 .0163 .4.872 .2 .0007 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .013 .013 .013 .013 .003 .006 .005 .005 .841 .022 .0061 .011 .011 .011 .011 .013 .013 .013 .040 .073 .006 .005 .005 .841											23.537
0002 Total 1.032 .020 .520 .019 2.023 2.042 (s) .054 .3669 .22 0003 Total 1.117 .018 .666 .262 .124 .2151 .001 .062 .4054 .2 0004 Total 1.273 .043 .735 .067 2.374 2.442 .001 .065 .4560 .3 005 Total 1.264 .040 .730 .052 .2699 .2751 .004 .833 .872 .209 .061 .3.739 .3600 .086 .683 .062 .699 .4822 .2007 .011 .034 .062 .6965 .2009 .011 .034 .062 .6965 .2010 .011 .034 .062 .005 .403 .408 .005 .055 .8234 .2011 .011 .011 .002 .005 .403 .408 .005 .656 .234 .2011 .011 .002 .003 .014 .003 .005 .869 .411 .011 .001 .112 .005 .403											24.967
1003 Total 1.117 .018 .686 .026 2.124 2.151 .001 .082 4.054 2 1004 Total 1.253 .003 .682 .057 2.151 .208 .001 .076 4.434 22 1005 Total 1.264 .040 .730 .052 2.999 2.751 .004 .083 4.872 22 1006 Total 1.507 .036 .830 .056 2.949 3.007 .035 .069 5.482 22 1008 Total 2.071 .049 .972 .061 .3.739 .800 .086 .083 .7.060 2 1009 Total 1.515 .032 1.082 .093 4.147 .4240 .034 .066 .683 .7.060 2 2 .010 1.46 .007 .461 .467 .006 .005 .841											26.386
0004 Total 1.253 0.033 .862 .057 2.151 2.208 .001 .078 4.434 22 0005 Total 1.273 .043 .735 .067 2.374 2.442 .001 .065 4.560 .33 0005 Total 1.507 .036 .830 .058 2.949 .3.007 .035 .069 5.482 22 0007 Total 2.071 .049 .972 .061 .3.739 .3.800 .086 .083 7.060 22 0009 Total 2.101 .036 1.147 .088 4.750 4.838 .046 .065 8.234 2 0101 Total 2.110 .036 1.147 .088 4.750 4.838 .046 .065 8.234 2 0101 Total .212 .002 .126 .005 .403 .408 .005 .005 .841 .869	2002 Total										25.739
1005 Total 1.273 0.43 7.735 0.67 2.374 2.442 0.01 0.655 4.560 33 006 Total 1.264 0.40 730 0.52 2.699 2.751 0.035 0.69 5.482 2 2 007 Total 2.071 0.49 972 0.61 3.739 3.800 0.86 0.83 7.060 2.695 2 2 2 0.001 0.035 1.662 6.93 4.147 4.240 0.034 0.62 6.965 2 2 0.001 0.036 1.147 0.88 4.750 4.838 0.46 0.65 8.234 2 001 Total 2.101 0.36 1.147 0.88 4.750 4.838 0.46 0.65 8.234 2 001 Total 2.121 0.002 1.126 0.07 461 467 0.005 .860 A A A A A A A A A A A	2003 Total	1.117	.018	.686	.026	2.124	2.151	.001	.082	4.054	27.007
0006 Total 1.264 0.40 730 .052 2.699 2.751 .004 .083 4.872 22 0007 Total 1.507 .036 .830 .058 2.949 3.007 .035 .069 5.482 22 0008 Total 1.515 .032 1.082 .093 4.147 4.240 .034 .062 6.965 22 0101 Total 2.101 .036 1.147 .088 4.750 4.838 .046 .065 8.234 2 0011 January .218 .001 .137 .013 .460 .473 .006 .005 .841 .801 February .212 .002 .126 .005 .403 .408 .005 .005 .759 March .252 .001 .146 .007 .499 .506 .011 .005 .880 June .233 .003 .121 .006 .444 .451 .006 .004 <	2004 Total	1.253	.033	.862	.057	2.151	2.208	.001	.078	4.434	29.110
0007 Total 1.507 0.36 830 0.58 2.949 3.007 0.35 0.69 5.482 22 008 Total 2.071 0.49 .972 0.61 3.739 3.800 .086 .083 7.060 22 009 Total 1.515 0.32 1.082 .093 4.147 4.240 .034 .062 6.965 22 001 Total 2.101 .036 1.147 .088 4.750 4.838 .046 .065 8.234 2 0011 January .218 .001 .137 .013 .460 .473 .006 .005 .841 February .212 .002 .128 .007 .499 .506 .011 .005 .878 March .223 .003 .121 .006 .444 .451 .006 .004 .884 Jule .202 .003 .112 .006 .511 .517 .003 .879 Sep	2005 Total	1.273	.043	.735	.067	2.374	2.442	.001	.065	4.560	30.149
007 Total 1.507 0.36 830 0.58 2.949 3.007 0.35 0.69 5.482 22 008 Total 2.071 0.49 .972 0.61 3.739 3.800 .086 .083 7.060 22 009 Total 1.515 0.32 1.082 .093 4.147 4.240 .034 .062 6.965 22 010 Total 2.101 .036 1.147 .088 4.750 4.838 .046 .065 8.234 2 011 January .212 .002 .126 .005 .403 .408 .005 .085 .8234 2 011 January .212 .002 .128 .007 .403 .408 .005 .880 .769	006 Total	1.264	.040	.730	.052	2.699	2.751	.004	.083	4.872	29.806
008 Total 2.071 .049 .972 .061 3.739 3.800 .086 .083 7.060 22 009 Total 1.515 .032 1.082 .093 4.147 4.240 .034 .062 6.965 22 010 Total 2.101 .036 1.147 .088 4.750 4.838 .046 .065 .8234 2 011 January .212 .002 .126 .005 .403 .408 .005 .005 .759 March .252 .001 .146 .007 .461 .467 .008 .005 .880 June .232 .002 .133 .007 .499 .506 .011 .005 .878 May .202 .003 .114 .013 .506 .520 .011 .004 .854 July .202 .003 .128 .006 .518 .524 .010 .033 .892 October		1.507				2.949					29.221
009 Total 1.515 .032 1.082 .093 4.147 4.240 .034 .062 6.965 22 011 January .2101 .036 1.147 .088 4.750 4.838 .046 .062 6.965 22 011 January .218 .001 .137 .013 .460 .473 .006 .005 .841 2 March .252 .001 .146 .007 .461 .467 .008 .005 .880 April .227 .001 .128 .007 .462 .469 .007 .004 .847 June .233 .003 .121 .006 .511 .517 .004 .854 July .202 .003 .114 .013 .506 .520 .011 .004 .854 July .202 .003 .128 .006 .518 .524 .010 .033 .879 .0381 .04 .048											25.932
0010 Total 2.101 .036 1.147 .088 4.750 4.838 .046 .065 8.234 2 v011 January .218 .001 .137 .013 .460 .473 .006 .005 .841 February .212 .002 .126 .005 .403 .408 .005 .005 .880 March .252 .001 .146 .007 .461 .467 .008 .005 .880 March .252 .001 .128 .007 .499 .506 .011 .005 .878 May .232 .002 .133 .007 .462 .469 .007 .004 .847 June .233 .003 .121 .006 .511 .517 .005 .003 .879 September .224 .003 .128 .006 .518 .524 .010 .003 .892 October .235 .002											22.741
February 212 .002 .126 .005 .403 .408 .005 .005 .759 March .252 .001 .146 .007 .461 .467 .008 .005 .880 March .232 .002 .133 .007 .462 .469 .007 .004 .847 June .233 .003 .121 .006 .444 .451 .006 .004 .847 June .202 .003 .114 .013 .506 .520 .011 .004 .854 August .241 .001 .112 .006 .511 .517 .005 .003 .879 September .224 .003 .128 .006 .518 .524 .010 .003 .891 November .226 .004 .129 .011 .507 .518 .013 .004 .894 December .249 .001 .132 .010 .613 .622 .014 .003 .863 Total .2.	010 Total										21.643
February 212 .002 .126 .005 .403 .408 .005 .005 .759 March .252 .001 .146 .007 .461 .467 .008 .005 .880 May .232 .002 .133 .007 .462 .469 .007 .004 .847 June .233 .003 .121 .006 .444 .451 .006 .004 .847 June .202 .003 .114 .013 .506 .520 .011 .004 .854 August .241 .001 .112 .006 .511 .517 .005 .003 .879 September .224 .003 .128 .006 .518 .524 .010 .003 .891 November .226 .004 .129 .011 .507 .518 .013 .004 .894 December .249 .001 .136 .010 .507 .518 .003 .863 .003 .863 .003 .863<	2011 January	.218	.001	.137	.013	.460	.473	.006	.005	.841	1.815
March											1.367
April											1.664
May											1.533
June											1.651
July .202 .003 .114 .013 .506 .520 .011 .004 .854 August .241 .001 .112 .006 .511 .517 .005 .003 .879 September .224 .003 .128 .006 .518 .524 .010 .003 .892 October .235 .002 .110 .009 .520 .529 .011 .003 .891 November .226 .004 .129 .011 .507 .518 .013 .004 .894 December .249 .001 .136 .010 .613 .622 .014 .003 1.026 Total .2751 .024 1.521 .100 5.904 6.004 .108 .051 10.458 11 012 January .234 .001 .132 .010 .475 .486 .008 .003 .863 March .284 .002 .142 .011 .513 .524 .008 .004 .963 .93											1.600
August											
September											1.652
October											1.527
November											1.400
December .249 .001 .136 .010 .613 .622 .014 .003 1.026 Total .2.751 .024 1.521 .100 5.904 6.004 .108 .051 10.458 11 012 January .234 .001 .132 .010 .475 .486 .008 .003 .863 February .217 .002 .131 .010 .467 .477 .007 .003 .863 March .284 .002 .142 .011 .513 .524 .008 .004 .999 May .314 .003 .134 .012 .536 .548 .006 .004 .999 July .298 .001 .119 .014 .537 .551 .007 .003 .981 July .298 .001 .119 .014 .537 .551 .006 .003 .981 August .277 .001											1.461
Total 2.751 .024 1.521 .100 5.904 6.004 .108 .051 10.458 113 .012 January .234 .001 .132 .010 .475 .486 .008 .003 .863 .603 .603 .603 .603 .663 .603 .603 .603 .663 .603 .603 .603 .663 .603 .603 .603 .603 .663 .604 .604 .604 .603 .603 .663 .604 .603 .604 .010 .613 .613 .606 .604 .603 .613											1.380
012 January .234 .001 .132 .010 .475 .486 .008 .003 .863 February .217 .002 .131 .010 .467 .477 .007 .003 .837 March	December	.249	.001	.136	.010	.613	.622	.014	.003	1.026	1.347
February	Total	2.751	.024	1.521	.100	5.904	6.004	.108	.051	10.458	18.397
March											1.465
April											1.265
May .314 .003 .134 .012 .536 .548 .006 .004 1.010 June .327 .001 .126 .008 .525 .533 .007 .004 .998 July											1.295
May	April	.321	.001	.124	.006	.535	.541	.007	.004	.999	1.177
June	May	.314	.003	.134	.012	.536	.548	.006	.004	1.010	1.343
July		.327	.001	.126	.008	.525	.533	.007	.004		1.326
August					.014						1.324
September											1.383
October											1.258
November .218 .004 R.144 .013 .555 .567 .004 .003 R.940 December											R 1.192
December				R 144							1.132
Total				R 160						R 1 052	R.999
											R 15.157
2013 January	012 Jonuary	245	001	150	012	401	40.4	005	002	005	1.251

^a Net imports equal imports minus exports.

^b Crude oil and lease condensate.

^c Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.
 ^d Through 2010, data are for biodiesel only. Beginning in 2011, data are for

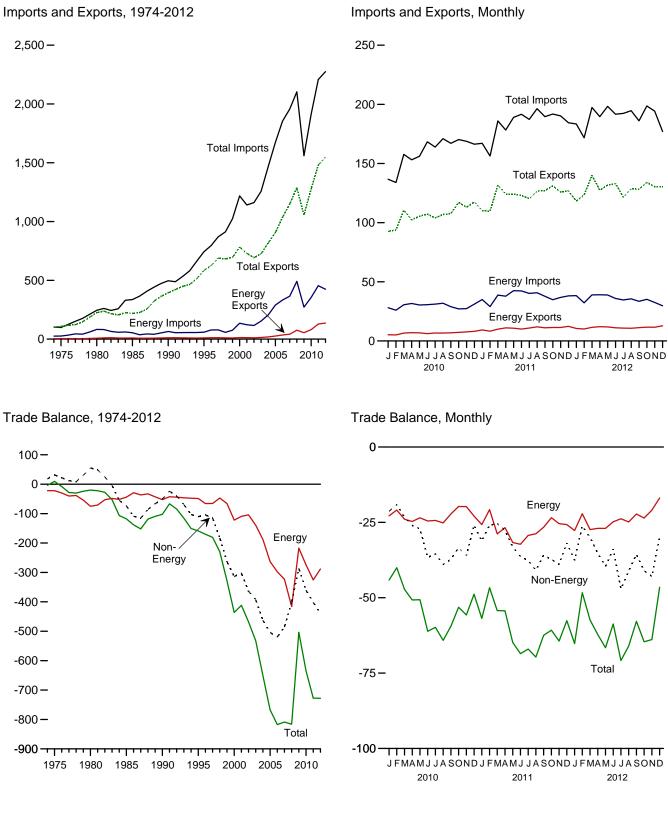
fuel ethanol (minus denaturant) and biodiesel.

R=Revised. 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/totalenergy/data/monthly/#summary 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 (EIA), Energy Data Report, Coke and Coar Chemicals, annual reports. 1991
 forward—EIA, Quarterly Coal Report, quarterly reports and Table A5.
 Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3.
 Electricity: Tables 7.1 and A6.

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)



^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Dollars^a)

Exports Imp 1974 Total 792 24, 1975 Total 907 25, 1980 Total 2,833 78, 1995 Total 6,901 61, 1995 Total 6,321 54, 1995 Total 6,321 54, 1995 Total 6,321 54, 1995 Total 6,574 50, 1997 Total 8,592 71, 1998 Total 7,118 67, 1999 Total 71,118 67, 2000 Total 10,192 119, 2001 Total 8,569 102, 2002 Total 8,569 102, 2002 Total 19,155 250, 2005 Total 19,155 250, 2006 Total 28,171 299, 2007 Total 33,293 327, 2008 Total 61,694 44,509 251, 2009 Total 44,509 251, 2009 Total 44,509 251, 2010 Jan	eum ^b		Energy ^c		Non- Energy	1	otal Merchandis	e
1975 Total 907 25, 1980 Total 2,833 78, 1985 Total 4,707 50, 1990 Total 6,901 61, 1995 Total 6,321 54, 1996 Total 7,984 72, 1997 Total 8,592 71, 1998 Total 6,574 50, 1997 Total 8,569 102, 2000 Total 10,192 119, 2001 Total 8,569 102, 2003 Total 10,209 132, 2004 Total 13,130 179, 2005 Total 19,155 250, 2006 Total 28,171 299, 2007 Total 33,293 327, 2008 Total 61,695 449, 2009 Total 44,509 251, 2010 January 4,083 25, February 4,003 23, March 5,348 28, June 4,798 29, July 5,505 29, August 5,346 30,	rts Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance
1975 Total 907 25, 1980 Total 2,833 78, 1985 Total 4,707 50, 1990 Total 6,901 61, 1990 Total 6,321 54, 1996 Total 7,984 72, 1997 Total 8,592 71, 1998 Total 6,574 50, 1997 Total 8,569 102, 2000 Total 10,192 119, 2001 Total 8,569 102, 2003 Total 10,209 132, 2004 Total 33,293 327, 2005 Total 19,155 250, 2006 Total 23,293 327, 2007 Total 33,293 327, 2008 Total 61,695 449, 2009 Total 44,509 251, 2010 January 4,083 25, February 4,003 23, March 5,346 30, May 5,464 28, June 4,798 29, July 5,505 29,	68 -23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3.884
1980 Total 2,833 78, 1985 Total 4,707 50, 1995 Total 6,901 61, 1995 Total 6,321 54, 1995 Total 78, 59, 1995 Total 6,321 54, 1995 Total 7,18 67, 1997 Total 8,592 71, 1998 Total 6,574 50, 1999 Total 7,118 67, 2001 Total 8,868 102, 2002 Total 8,569 102, 2003 Total 19,155 250, 2004 Total 33,293 327, 2005 Total 19,155 250, 2006 Total 28,171 299, 2007 Total 32,293 327, 2008 Total 41,509 251, 2007 Total 33,293 327, 2008 Total 5,346 30, March 5,348 28, June 4,798 29, July <		4,470	26,476	-22,006	31,557	108,856	99,305	9,551
1990 Total 6,901 61, 1995 Total 6,321 54, 1996 Total 7,984 72, 1997 Total 8,592 71, 1998 Total 6,574 50, 1999 Total 7,118 67, 1999 Total 7,118 67, 1999 Total 10,192 119, 2000 Total 10,209 132, 2001 Total 8,569 102, 2003 Total 10,209 132, 2004 Total 13,130 179, 2005 Total 19,155 250, 2006 Total 28,171 299, 2007 Total 33,293 327, 2008 Total 61,695 449, 2009 Total 4,063 25, February 4,083 25, February 4,083 25, February 5,346 30, March 5,346 30, September 5,482 29, July	37 -75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
995 Total 6,321 54, 996 Total 7,984 72, 997 Total 8,552 71, 998 Total 6,574 50, 999 Total 7,118 67, 000 Total 10,192 119, 001 Total 8,868 102, 002 Total 8,569 102, 003 Total 10,209 132, 004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 0007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 0007 Total 5,348 28, June 4,783 29, August 5,346 30, March 5,346 30, March 5,346 30, September 6,482 25, November 6,272 25, December 6,694 29, Total 64,778 33,	75 -45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
996 Total 7,984 72, 997 Total 8,592 71, 998 Total 6,574 50, 999 Total 7,118 67, 000 Total 10,192 119, 001 Total 8,569 102, 002 Total 8,569 102, 003 Total 10,209 132, 004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 009 Total 44,509 251, 010 January 4,033 23, March 5,348 26, June 4,788 29, July 5,505 29, August 5,346 30, September 6,644 26, November 6,272 25, December 6,664	83 -54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
997 Total 8,592 71, 998 Total 6,574 50, 999 Total 7,118 67, 000 Total 10,192 119, 000 Total 8,868 102, 000 Total 10,192 113, 000 Total 8,569 102, 000 Total 10,209 132, 000 Total 13,130 179, 0005 Total 19,155 250, 0006 Total 28,171 299, 0007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 000 Total 4,083 25, February 4,003 23, March 5,348 28, June 4,798 29, July 5,505 29, August 5,346 30, September 6,694 29, Total 64,778 333, Cotober 6,604	68 -48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
998 Total 6,574 50, 999 Total 7,118 67, 000 Total 10,192 119, 001 Total 8,868 102, 002 Total 8,569 102, 003 Total 10,209 132, 004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, June 4,788 29, July 5,505 29, August 5,442 27, October 6,684 25, November 6,272 25, December 6,604 27, March 7,841 37, March 7,841 37,	22 -64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
999 Total 7,118 67, 000 Total 10,192 119, 001 Total 8,868 102, 002 Total 8,868 102, 003 Total 10,209 132, 004 Total 13,130 179, 005 Total 28,171 299, 007 Total 32,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 28, July 5,505 29, August 5,346 30, September 6,694 29, Total 64,778 333, 011 January 7,446 33,	52 -62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
000 Total 10,192 119, 001 Total 8,868 102, 002 Total 8,569 102, 003 Total 10,209 132, 004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, June 4,788 29, July 5,505 29, August 5,346 30, September 6,484 26, November 6,272 25, December 6,604 27, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 <t< td=""><td></td><td>10,251</td><td>57,323</td><td>-47,072</td><td>-182,686</td><td>682,138</td><td>911,896</td><td>-229,758</td></t<>		10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
001 Total 8,868 102, 002 Total 8,569 102, 003 Total 10,209 132, 004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,223 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 6,624 25, December 6,694 29, Total 64,778 333, Total 9,016 36, March 7,841 37, April 9,016 36,		9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
002 Total s,569 102, 003 Total 10,209 132, 004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 9,016 36,		13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
003 Total 10,209 132, 004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 009 Total 44,509 251, 010 January 4,003 23, March 5,348 28, April 5,680 30, March 5,348 20, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, December 6,694 29, Total 64,778 333, Ottal 6,604 27, March 7,841 37, April 9,016 36, May 9,069 38,		12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
004 Total 13,130 179, 005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 25, February 4,003 25, March 5,348 28, April 5,680 30, May 5,505 29, June 4,798 29, July 5,505 29, August 5,346 30, September 6,482 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 9,069 38, <		11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
005 Total 19,155 250, 006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, June 4,798 29, July 5,505 29, August 5,444 28, June 4,798 29, July 5,505 29, August 5,446 28, June 6,084 25, November 6,272 25, December 6,604 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 9,059 38,		13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350
006 Total 28,171 299, 007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 001 January 4,083 25, February 4,003 23, March 5,348 28, April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 9,069 38, August 9,912 39, September 9,202 36,		18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
007 Total 33,293 327, 008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, December 6,694 29, Total 64,778 333, Ot1 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 9,069 38, August 9,912 39, September 9,202 36, October 9,533 35,		26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477
008 Total 61,695 449, 009 Total 44,509 251, 010 January 4,003 23, March 5,348 28, April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, November 6,272 25, December 6,694 29, Total 64,778 33, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 9,059 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35,		34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304
009 Total 44,509 251, 010 January 4,083 25, February 4,003 23, March 5,348 28, April 5,680 30, March 5,348 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, October 9,573 33, <t< td=""><td></td><td>41,725</td><td>364,987</td><td>-323,262</td><td>-485,501</td><td>1,148,199</td><td>1,956,962</td><td>-808,763</td></t<>		41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763
2010 January 4,083 25, February 4,003 23, March 5,348 28, April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, November 6,272 25, December 6,694 29, Total 64,778 333, Potal 64,778 333, Potal 9,016 36, March 7,841 37, April 9,016 36, May 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, Cotober 9,773 33,		76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199
February 4,003 23, March 5,348 28, April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 9,016 36, May 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, October 9,733 35, December	33 -207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582
March 5,348 28, April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,505 29, August 5,346 30, September 6,084 25, November 6,272 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December		5,236	28,075	-22,839	-21,285	92,601	136,725	-44,124
April 5,680 30, May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, Docember 6,694 29, Total 64,778 333, D011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,533 35, December 10,501 36, Total 105,499 436, Ottober 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, Ottal 9,709 37, </td <td></td> <td>5,115</td> <td>26,018</td> <td>-20,903</td> <td>-19,141</td> <td>93,854</td> <td>133,898</td> <td>-40,044</td>		5,115	26,018	-20,903	-19,141	93,854	133,898	-40,044
May 5,484 28, June 4,798 29, July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, November 6,272 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 9,020 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, October 9,779 37, February 8,605 31, March<		6,667	30,613	-23,946	-23,271	110,511	157,728	-47,217
June 4,798 29, July 5,505 29, August 5,346 30, September 5,448 27, October 6,084 25, November 6,272 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,605 31, March 9,709 37, Apri		6,970	31,657	-24,687	-26,034	102,443	153,163	-50,721
July 5,505 29, August 5,346 30, September 5,482 27, October 6,084 25, December 6,694 29, Total 64,778 333, D11 January 7,446 33, February 7,6604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,533 35, December 10,501 36, Total 105,499 436, Ottal 105,499 436, December 10,501 36, Total 105,499 436, March 9,709 37, February 8,605 31, March 9,709 37, Jun		6,887	30,369	-23,482	-27,165	105,477	156,124	-50,647
August 5,346 30, September 5,482 27, October 6,084 25, November 6,272 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, October 9,770 37, February 8,605 31, March 9,709 37, Jun		6,170	30,698	-24,528	-36,592	107,202	168,321	-61,120
September 5,482 27, October 6,084 25, November 6,272 25, 0 0 28, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, March 9,709 37, April 10,056 37, June 9,228 35, July 9,154 33, August 9,090<		6,760	31,113	-24,353	-35,451	104,057	163,861	-59,804
October 6,084 25, November 6,272 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August <td></td> <td>6,744</td> <td>31,907</td> <td>-25,163</td> <td>-38,957</td> <td>106,846</td> <td>170,966</td> <td>-64,120</td>		6,744	31,907	-25,163	-38,957	106,846	170,966	-64,120
November 6,272 25, December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, Septembe		6,802	28,992	-22,190	-37,244	107,644	167,078	-59,434
December 6,694 29, Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 9,154 33, July 9,154 33, July 9,154 33, August 9,090 34, September 9,772 32, Octobe		7,318	27,056	-19,738	-33,397	117,104	170,239	-53,135
Total 64,778 333, 011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,106 34, Septemb		7,610	27,363	-19,753	-35,966	113,046	168,765	-55,719
011 January 7,446 33, February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,573 33, November 9,533 35, December 105,499 436, 012 January 8,605 31, March 9,709 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		8,182 80,460	31,107 354,968	-22,925 -274,508	-25,888 -360,389	117,480 1,278,263	166,293 1,913,160	-48,813 -634,897
February 6,604 27, March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		0.075	05.040	05 705		110.170	407.040	50.000
March 7,841 37, April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		9,275 8,291	35,010 29,062	-25,735 -20,771	-31,134 -25,897	110,179	167,048 156,315	-56,869 -46,668
April 9,016 36, May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,605 31, March 9,709 37, February 8,605 31, March 9,709 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		9,958		-20,771	-25,697	109,647		-40,000 -54,247
May 8,767 41, June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,			38,763			131,728	185,975	
June 8,032 40, July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		11,059 10,795	37,803 42,470	-26,744 -31,675	-27,589 -33,171	123,959 124,107	178,293 188,953	-54,333 -64,846
July 9,069 38, August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,605 31, March 9,770 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,			42,470	-31,675	-36,274	124,107		-64,646 -68,540
August 9,912 39, September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		10,039 10,902	42,305	-29,322	-36,274	123,039	191,579 187,263	-66,540
September 9,202 36, October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		10,902	40,224 40,732	-29,322 -28,792	-37,702 -40,896	120,239	196,321	-67,024 -69,688
October 9,573 33, November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		11,940	40,732 37,741	-26,600	-35,855	120,033	189,562	-69,666
November 9,533 35, December 10,501 36, Total 105,499 436, 012 January 8,635 31, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 31, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		11,141	34,857	-23,447	-37,306	131,058	191,811	-62,455
December 10,501 36, Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		11,401	36,821	-25,420	-38,944	125,899	190,263	-64,364
Total 105,499 436, 012 January 8,730 37, February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		12,353	38,083	-25,730	-31,876	126,837	184,443	-57,606
February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,106 34,		128,564	453,872	-325,308	-402,084	1,480,432	2,207,824	-727,392
February 8,605 31, March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,106 34,	44 -28,314	10,606	38,290	-27,684	-37,519	118,209	183,411	-65,203
March 9,709 37, April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,166 34,		10,000	32,250	-22,126	-26,181	123,428	171,735	-48,307
April 10,152 38, May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,106 34,		11.552	38.937	-27,385	-29,974	139,965	197.324	-57.359
May 10,056 37, June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,106 34,		12,057	39,043	-26,986	-35,179	127,411	189,577	-62,165
June 9,228 35, July 9,154 33, August 9,090 34, September 9,772 32, October 10,106 34,		11,858	38,829	-26,971	-39,590	131,735	198,296	-66,561
July 9,154 33, August 9,090 34, September 9,772 32, October 10,106 34,		11,100	35,910	-24,810	-33,876	133,018	191,704	-58,686
August 9,090 34, September 9,772 32, October 10,106 34,		10.887	34,683	-23.796	-47.011	121.558	192.366	-70.807
September 9,772 32, October 10,106 34,		10,748	35,594	-24,846	-41,178	128,632	194,656	-66,024
October 10,106 34,		11,263	33,497	-22,234	-35,579	128,237	186,050	-57,813
		11,639	35,198	-23,559	-41,057	134,020	198,636	-64,616
		11,618	32,555	-20,937	-42,924	130,374	194,235	-63,861
December 11,194 28,		12,834	29,717	-16,883	-29,619	130,551	177,053	-46,502
Total 116,048 412,		136,287	424,505	-288,218	-439,687	1,547,137	2,275,043	-727,905

^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.

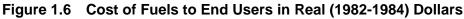
Notes: • Monthly data are not adjusted for seasonal variations. • See Note, "Merchandise Trade Value," at end of section. • Totals may not equal sum of components due to independent rounding. • The U.S. import statistics reflect both

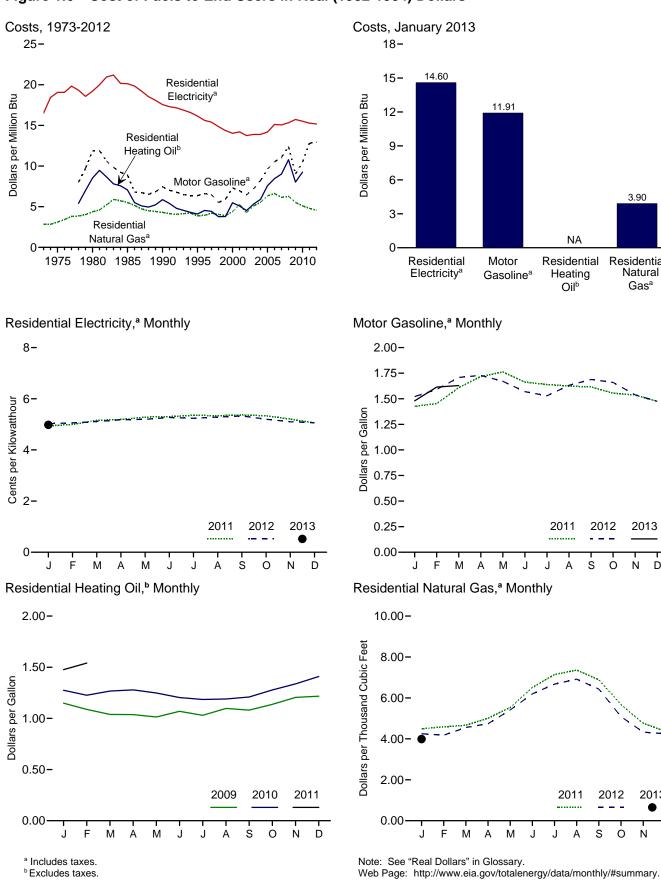
government and nongovernment imports of merchandise from foreign countries into But and the Vision services and the vision of the vision of the vision of the vision services and the vision serv

available data beginning in 1974.

Sources: See end of section.

Table 1.5 is not updated this month.





3.90

Residential Natural

Gas^a

2013

0 Ν D

2012

S 0 Ν D

2013

NA=Not available.

Source: Table 1.6.

	Consumer Price Index, All Urban Consumers ^a	Motor G	asoline ^b		dential ng Oil ^c		lential Il Gas ^b		ential ricity ^b
	Index 1982-1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars pe Million Bt
973 Average	44.4	NA	NA	NA	NA	2.91	2.85	5.6	16.50
975 Average		NA	NA	NA	NA	3.18	3.12	6.5	19.07
980 Average		1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21
985 Average		1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13
990 Average		0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56
995 Average		0.791	6.37	0.569	4.10	3.98	3.87	5.55	16.15
996 Average		0.821	6.61	0.630	4.54	4.04	3.94	5.33	15.62
997 Average		0.804	6.48	0.613	4.42	4.32	4.21	5.25	15.32
		0.684	5.51	0.523	3.77	4.18	4.05	5.07	14.85
998 Average						4.18			
999 Average	166.6 172.2	0.733 0.908	5.91 7.32	0.526 0.761	3.79 5.49	4.51	3.91 4.39	4.90 4.79	14.36 14.02
000 Average			6.97			5.44			
001 Average		0.864		0.706	5.09		5.28	4.84	14.20
002 Average		0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
003 Average		0.890	7.18	0.736	5.31	5.23	5.09	4.74	13.89
004 Average		1.018	8.20	0.819	5.91	5.69	5.55	4.74	13.89
005 Average		1.197	9.64	1.051	7.58	6.50	6.33	4.84	14.18
006 Average		1.307	10.52	1.173	8.46	6.81	6.63	5.16	15.12
007 Average		1.374	11.06	1.250	9.01	6.31	6.14	5.14	15.05
008 Average		1.541	12.40	1.495	10.78	6.45	6.28	5.23	15.33
009 Average		1.119	9.01	1.112	8.02	5.66	5.52	5.37	15.72
010 Average	218.056	1.301	10.47	1.283	9.25	5.22	5.11	5.29	15.51
011 January	220.223	1.425	11.47	1.476	10.64	4.50	4.40	4.94	14.47
February		1.453	11.69	1.540	11.11	4.58	4.48	5.00	14.65
March		1.608	12.95	NA	NA	4.67	4.57	5.16	15.11
April		1.718	13.83	NA	NA	5.01	4.90	5.19	15.21
May		1.762	14.18	NA	NA	5.53	5.41	5.28	15.47
June		1.663	13.38	NA	NA	6.51	6.37	5.30	15.54
July		1.639	13.19	NA	NA	7.14	6.99	5.35	15.68
August		1.624	13.07	NA	NA	7.36	7.20	5.34	15.64
September	226.889	1.615	13.00	NA	NA	6.89	6.74	5.36	15.72
October	226.421	1.555	12.52	NA	NA	5.68	5.55	5.34	15.64
November		1.536	12.36	NA	NA	4.77	4.66	5.21	15.26
December		1.475	11.87	NA	NA	4.36	4.00	5.05	14.81
Average		1.590	12.80	NA	NA	4.90	4.80	5.21	15.27
	226.665	1.521	12.24	NA	NA	4.25	4.16	5.03	14.73
D12 January		1.591	12.24	NA	NA	4.25	4.09	5.06	14.73
February					NA				
March		1.708	13.75	NA NA		4.56	4.46	5.11	14.97
April		1.728	13.91		NA	4.74	4.64 5.30	5.18	15.17
May		1.670	13.44	NA	NA	5.41		5.20	15.23
June		1.570	12.63	NA	NA	6.20	6.06	5.27	15.44
July		1.529	12.30	NA	NA	6.67	6.53	5.24	15.35
August		1.632	13.13	NA	NA	6.92	6.77	5.28	15.48
September		1.689	13.59	NA	NA	6.44	6.30	5.33	15.62
October		1.660	13.36	NA	NA	5.09	4.98	5.20	15.24
November		1.539	12.38	NA	NA	4.33	4.24	5.10	14.95
December		1.475	11.87	NA	NA	4.25	4.16	5.06	14.83
Average	229.594	1.609	12.95	NA	NA	4.65	4.55	5.17	15.17
013 January	230.280	1.480	11.91	NA	NA	^R 3.99	^R 3.90	^R 4.98	^R 14.60
February		1.614	12.99	NA	NA	NA	NA	NA	NA
March		1.629	13.11	NA	NA	NA	NA	NA	NA

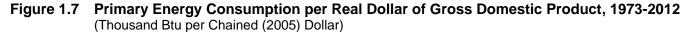
Table 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars

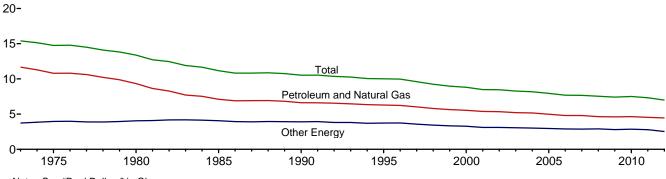
^a Data are U.S. city averages for all items, and are not seasonally adjusted.
 ^b Includes taxes.
 ^c Excludes taxes.

Excludes taxes.
 R=Revised. 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.

Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973. Sources: • Fuel Prices: Tables 9.4 (All Types), 9.8, and 9.10, adjusted by the CPI; and *Monthy Energy Review*, September 2012, Table 9.8c. • 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.





Note: See "Real Dollars" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.7.

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

	Ene	rgy Consumption	1	Gross	Energy Consum	ption per Real Do	llar of GDF
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total
		Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu	per Chained (200	5) Dollar
				()			,
973 Year	57.350	18.334	75.684	4 04 2 9	11.67	3.73	15.41
				4,912.8			
74 Year	55.186	18.776	73.962	4,885.7	11.30	3.84	15.14
75 Year	52.680	19.284	71.965	4,875.4	10.81	3.96	14.76
76 Year	55.523	20.452	75.975	5,136.9	10.81	3.98	14.79
77 Year	57.054	20.907	77.961	5,373.1	10.62	3.89	14.51
78 Year	57.963	21.987	79.950	5,672.8	10.22	3.88	14.09
79 Year	57.788	23.070	80.859	5,850.1	9.88	3.94	13.82
80 Year	54.440	23.627	78.067	5,834.0	9.33	4.05	13.38
81 Year	51.680	24.426	76.106	5,982.1	8.64	4.08	12.72
82 Year	48.588	24.511	73.099	5,865.9	8.28	4.18	12.46
83 Year	47.273	25.698	72.971	6,130.9	7.71	4.19	11.90
84 Year	49.447	27.185	76.632	6.571.5	7.52	4.14	11.66
85 Year	48.628	27.764	76.392	6.843.4	7.11	4.06	11.16
86 Year	48.790	27.857	76.647	7.080.5	6.89	3.93	10.83
87 Year	50.504	28.551	79.054	7,307.0	6.91	3.91	10.82
88 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87
89 Year	53.811	30.975	84.786	7,879.2	6.83	3.93	10.76
90 Year	53.155	31.330	84.485	8,027.1	6.62	3.90	10.52
91 Year	52.879	31.559	84.438	8,008.3	6.60	3.94	10.54
92 Year	54.239	31.544	85.783	8,280.0	6.55	3.81	10.36
93 Year	54.973	32.450	87.424	8,516.2	6.46	3.81	10.27
94 Year	56.289	32.803	89.091	8,863.1	6.35	3.70	10.05
95 Year	57.110	33.920	91.029	9,086.0	6.29	3.73	10.02
96 Year	58,760	35.262	94.022	9.425.8	6.23	3.74	9.97
97 Year	59.382	35.221	94.602	9.845.9	6.03	3.58	9.61
98 Year	59.646	35.372	95.018	10,274.7	5.81	3.44	9.25
99 Year	60.747	35.905	96.652	10,770.7	5.64	3.33	8.97
00 Year	62.086	36.729	98.814	11.216.4	5.54	3.27	8.81
01 Year	60.958	35.210	96.168	11,337.5	5.38	3.11	8.48
02 Year	61.734	35.911	97.645	11,543.1	5.35	3.11	8.46
03 Year	61.642	36.301	97.943	11,836.4	5.21	3.07	8.27
	63.215	36.945	100.160	12,246.9	5.21	3.07	8.18
04 Year							
05 Year	62.953	37.328	100.282	12,623.0	4.99	2.96	7.94
06 Year	62.194	37.435	99.629	12,958.5	4.80	2.89	7.69
07 Year	63.437	37.859	101.296	13,206.4	4.80	2.87	7.67
08 Year	61.123	38.152	99.275	13,161.9	4.64	2.90	7.54
09 Year	58.819	35.740	94.559	12,757.9	4.61	2.80	7.41
10 Year	60.584	37.398	97.982	13,063.0	4.64	2.86	7.50
11 Year	60.325	37.142	97.467	13,299.1	4.54	2.79	7.33
12 Year	60.642	R 34.438	R 95.080	R 13,593.2	4.46	R 2.53	R 6.99

^a Coal, coal coke net imports, nuclear electric power, renewable energy, and electricity net imports. R=Revised.

Columbia.

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

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts (March 28, 2013), Table 1.1.6.

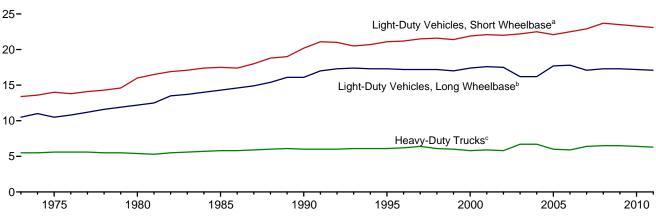


Figure 1.8 Motor Vehicle Fuel Economy, 1973-2011 (Miles per Gallon)

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.8

		ght-Duty Vehicle Short Wheelbase			ght-Duty Vehicle ong Wheelbase		Н	Heavy-Duty Trucks ^c All Motor Vehicles ^d			All Motor Vehicle	
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)	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	10,157	533	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 2000	11,848 11,976	553 547	21.4 21.9	11,957 11.672	701 669	17.0 17.4	26,014 25,617	4,352 4,391	6.0 5.8	12,206 12.164	732 720	16.7 16.9
2000		547	21.9	11,072			25,617	4,391	5.8	12,164	695	16.9
2001	11,831 12,202	555	22.1	11,204	636 650	17.6 17.5	20,002	4,477	5.9	12,171	719	16.9
2002	12,202	556	22.0	11,304	697	16.2	28,093	4,042	6.7	12,171	719	17.0
2003	12,325	553	22.2	11,184	690	16.2	28,093	4,215	6.7	12,200	718	17.0
2004	12,400	555	22.5	10,920	617	17.7	26,235	4,057	6.0	12,200	706	17.1
2005	12,310	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,002	698	17.2
2000	a10,710	^a 468	^a 22.9	^b 14.970	^b 877	^b 17.1	^c 28,290	^c 4.398	6.4	11,915	693	17.2
2007	10,290	400	23.7	15,256	880	17.3	28,573	4,387	6.5	11,631	667	17.4
2009	10,391	442	23.5	15,252	882	17.3	26,274	4,037	6.5	11,631	661	17.6
2010	10,650	456	23.3	15,474	901	17.2	26,604	4,180	6.4	11,866	681	17.4
2011 ^P	10,614	460	23.1	14,596	855	17.1	26,014	4,126	6.3	11,640	666	17.5

^a Through 2006, data are for passenger cars (and, through 1989, for motorcycles). Beginning in 2007, data are for passenger cars, light trucks, vans, and sport utility vehicles with a wheelbase equal to or less than 121 inches.
 ^b Through 2006, data are for vans, pickup trucks, sport utility vehicles, and a ""

small number of trucks with 2 axles and 4 tires, such as step vans. Beginning in 2007, data are for large passenger cars, vans, pickup trucks, and sport utility vehicles with a wheelbase larger than 121 inches. ^c Through 2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires or a gross vehicle weight rating exceeding 10,000 trucks are for single and the provided exceeding 10,000

pounds, and combination trucks.

^d 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.gov/totalenergy/data/monthly/#summary. Sources: • Light-Duty Vehicles, Short Wheelbase, 1990-1994: U.S. Department of Transportation, Bureau of Transportation Statistics, National Transportation Statistics 1998, Table 4-13. • All Other Data: • Intensportation 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.

			March					Cumulative through Ma		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2012	2013	Normal to 2013	2012 to 2013	Normala	2012	2013	Normal to 2013	2012 to 2013
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	913	667	916		37	5,681	4.609	5,313	-6	15
	913	007	910	(s)	37	5,661	4,609	5,313	-0	15
Middle Atlantic New Jersey, New York, Pennsylvania	827	529	883	7	67	5,159	4,116	4,886	-5	19
East North Central Illinois, Indiana, Michigan, Ohio,										
Wisconsin	864	458	1,013	17	121	5,699	4,571	5,585	-2	22
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	858	447	1,040	21	133	6,021	4,872	5,920	-2	22
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, Virginia, South Carolina, Virginia, West Virginia	373	183	502	35	174	2,606	2,034	2,528	-3	24
East South Central Alabama, Kentucky, Mississippi, Tennessee	452	188	614	36	227	3,305	2,593	3,236	-2	25
West South Central Arkansas, Louisiana, Oklahoma, Texas	263	122	312	19	156	2,175	1,738	1,932	-11	11
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	633	521	569	-10	9	4,468	4,088	4,206	-6	3
Pacific ^b California, Oregon, Washington	416	461	336	-19	-27	2,672	2,624	2,525	-6	-4
U.S. Average ^b	593	377	660	11	75	3,981	3,288	3,813	-4	16

Table 1.9 Heating Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

(s)=Less than 0.5 percent and greater than -0.5 percent.

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 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/totalenergy/data/monthly/#summary for current data. • See http://www.eia.gov/totalenergy/data/annual/#summary 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 Climatiology Series 5-1 (heating degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

			March					Cumulative ry through		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2012	2013	Normal to 2013	2012 to 2013	Normala	2012	2013	Normal to 2013	2012 to 2013
New England Connecticut, Maine, Massachusetts, New Hampshire,										
Rhode Island, Vermont	0	0	0	NM	NM	0	0	0	NM	NM
Middle Atlantic New Jersey, New York,	0	0	0	NM	NM	0	0	0	NM	NM
Pennsylvania	0	0	0	INIVI	INIVI	0	0			INIVI
East North Central Illinois, Indiana, Michigan, Ohio,										
Wisconsin	1	17	0	NM	NM	1	17	0	NM	NM
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	3	13	0	NM	NM	3	11	0	NM	NM
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	49	86	22	NM	NM	113	151	96	-15	-36
West Virginia	49	80	22	INIVI	INIVI	113	101	90	-15	-30
East South Central Alabama, Kentucky, Mississippi, Tennessee	19	50	0	NM	NM	31	49	4	NM	NM
West South Central Arkansas, Louisiana, Oklahoma, Texas	51	113	40	NM	NM	80	138	66	NM	NM
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	10	9	16	NM	NM	14	7	16	NM	NM
Pacific ^b California, Oregon, Washington	4	0	0	NM	NM	7	0	0	NM	NM
U.S. Average ^b	18	36	10	NM	NM	35	50	26	NM	NM
U.S. Average"	18	30	10	INIVI	INIVI	35	50	20	INIVI	NIVI

Table 1.10 Cooling Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

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/totalenergy/data/monthly/#summary

for current data. $\bullet\,$ See http://www.eia.gov/totalenergy/data/annual/#summary 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.

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," FT-410, December issues. 1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

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

1993–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

1974–1987: "U.S. Merchandise Trade," FT-900, December issues, 1975-1988.

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

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

1994–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "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.

1993–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "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.

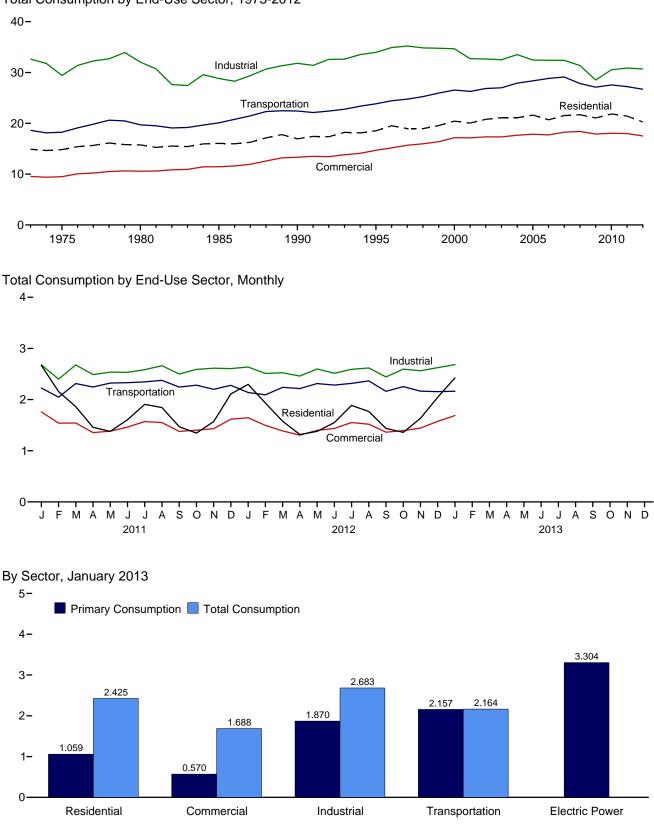
1992–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "U.S. International Trade in Goods and Services," FT-900, monthly.

2. Energy Consumption by Sector

Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2012



Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

(Trillion Btu)

				End-Use	e Sectors				Electric		
	Resid	ential	Comm	erciala	Indus	trial ^b	Transpo	ortation	Power Sector ^{c,d}		.
	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Balancing Item ^g	Primary Total ^h
1973 Total	8,225	14,897	4,423	9,543	24,720	32,623	18,577	18,613	19,731	7	75,684
1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
1980 Total	7,439	15,753	4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
1985 Total	7,148	16,041	3,732	11,451	19,443	28,816	20,041	20,088	26,032	-4	76,392
1990 Total	6,557	16,945	3,896	13,320	21,180	31,810	22,366	22,420	30,495	-9	84,485
1995 Total	6,936	18,519	4,101	14,690	22,719	33,971	23,791	23,846	33,479	3	91,029
1996 Total	7,467	19,504	4,273	15,172	23,410	34,904	24,383	24,437	34,485	4	94,022
1997 Total	7,033	18,965	4,295	15,681	23,686	35,200	24,695	24,750	34,886	6	94,602
1998 Total	6,413	18,955	4,005	15,968	23,177	34,843	25,201	25,256	36,225	-3	95,018
1999 Total	6,775	19,557	4,053	16,376	22,950	34,764	25,891	25,949	36,976	6	96,652
2000 Total	7,159	20,425	4,278	17,175	22,824	34,664	26,489	26,548	38,062	2	98,814
2001 Total	6,868	20,042	4,084	17,137	21,794	32,720	26,213	26,275	37,215	-6 5	96,168
2002 Total	6,912	20,791	4,132	17,345	21,799	32,662	26,781	26,842	38,016	5 -1	97,645
2003 Total	7,211 6.993	21,097	4,283 4,232	17,331 17.659	21,502	32,522	26,920 27.817	26,994	38,028	-1	97,943 100.160
2004 Total 2005 Total	6,993	21,092 21,626	4,232	17,859	22,412 21,411	33,519 32,446	28,272	27,895 28,353	38,712 39,638		100,160
2005 Total	6,168	20,688	3,747	17,057	21,411	32,440	28,751	28,830	39,638	(s) (s)	99,629
2007 Total	6,598	21,531	3,922	18,255	21,330	32,394	29,029	29,117	40,377	-1	101,296
2007 Total	^R 6,896	R 21,675	^R 4,094	^R 18,402	20.557	32,394	29,029	27.831	39,978	(s)	99.275
2009 Total	R 6,596	R 21,073	R 4,054	R 17,889	18,810	28,522	27,025	27,108	38,077	(s)	94,559
2010 Total	^R 6,575	^R 21,833	^R 4,011	^R 18,050	20,283	30,530	27,479	27,561	39,627	8	97,982
2011 January	^R 1,159	^R 2,669	633	^R 1,760	^R 1,846	^R 2,679	2,218	2,225	3,477	3	9,337
February	^R 940	^R 2,157	^R 529	^R 1,539	^R 1,627	^R 2,400	^R 2,042	2,048	3,006	(s)	8,143
March	^R 759	^R 1,861	447	^R 1,543	^R 1,814	^R 2,677	2,306	2,313	3,069	-2	8,393
April	^R 472	^R 1,458	297	_ 1,354	^R 1,643	^R 2,488	2,240	2,247	2,895	-1	7,546
May	R 323	R 1,378	220	R 1,383	^R 1,650	^R 2,537	2,316	2,323	3,111	-1	7,620
June	^R 256	^R 1,606	196	^R 1,463	^R 1,633	^R 2,532	2,323	2,330	3,523	2	7,934
July	R 234	^R 1,907	^R 187	1,571	^R 1,642	^R 2,586	2,340	2,347	4,008	6	8,417
August	R 243	^R 1,844	203	1,551	^R 1,735	^R 2,662	2,370	2,377	3,883	5	8,439
September	^R 254	^R 1,471	^R 210	1,379	^R 1,658	^R 2,500	2,238	^R 2,245	3,234	(s)	7,594
October	^R 372	^R 1,345	284	^R 1,402	^R 1,723	^R 2,590	2,276	2,282	2,963	-2	7,617
November	^R 583	R 1,571	366	^R 1,432	^R 1,758	^R 2,614	2,195	2,201	2,916	-2	7,816
December	^R 871 ^R 6,465	^R 2,110	501 R 4,074	1,618 ^R 17,993	R 1,754	^R 2,606	R 2,273	^R 2,280 ^R 27,218	3,215	-1 7	8,612
Total		^R 21,377	~4,074		^R 20,483	^R 30,873	^R 27,137	~ 27,218	39,301	1	97,467
2012 January	^R 990	^R 2,298	^R 554	^R 1,644	^R 1,820	^R 2,637	2,132	2,139	^R 3,222	(s)	^R 8,718
February	^R 834	^R 1,934	^R 480	^R 1,495	^R 1,716	^R 2,510	^R 2,087	2,093	^R 2,916	-2	^R 8,030
March	^R 561	^R 1,578	342	^R 1,387	^R 1,695	^R 2,524	2,234	^R 2,241	^R 2,897	-5	^R 7,725
April	^R 414	R 1,317	274	R 1,305	^R 1,636	^R 2,460	2,209	2,215	^R 2,765	-5	^R 7,292
May	^R 299	^R 1,378	^R 215	^R 1,397	^R 1,692	^R 2,597	^R 2,308	2,314	^R 3,174	-2	^R 7,684
June	R 253	R 1,550	195	^R 1,436	^R 1,638	R 2,515	2,277	2,284	R 3,422	1	^R 7,786
July	R 240	^R 1,886	^R 188	^R 1,552	^R 1,669	^R 2,593	^R 2,310	2,316	^R 3,942	5	^R 8,353
August	^R 247	^R 1,769	206	^R 1,518	^R 1,718	^R 2,619	2,358	2,365	^R 3,741	3	^R 8,274
September	^R 248	^R 1,436	R 203	^R 1,363	^R 1,631	^R 2,444	2,155	2,161	^R 3,168	1 ^R -1	^R 7,406
October	^R 376	^R 1,360	R 275	^R 1,395	1,755	^R 2,595	2,248	2,255	^R 2,949	∽-1 R(x)	^R 7,604
November	^R 626	R 1,635	R 377	^R 1,442	R 1,745	^R 2,564	2,159	2,165	R 2,899	R(s)	^R 7,806
December	^R 828	^R 2,045	^R 468	^R 1,576	^R 1,794	^R 2,625	2,149	2,156	^R 3,162	R (S) R -5	8,402
Total	^R 5,916	^R 20,181	^R 3,776	^R 17,514	^R 20,508	^R 30,687	^R 26,626	^R 26,703	^R 38,258	™-5	^R 95,080
2013 January	1.059	2,425	570	1,688	1,870	2,683	2,157	2,164	3,304	4	8,964

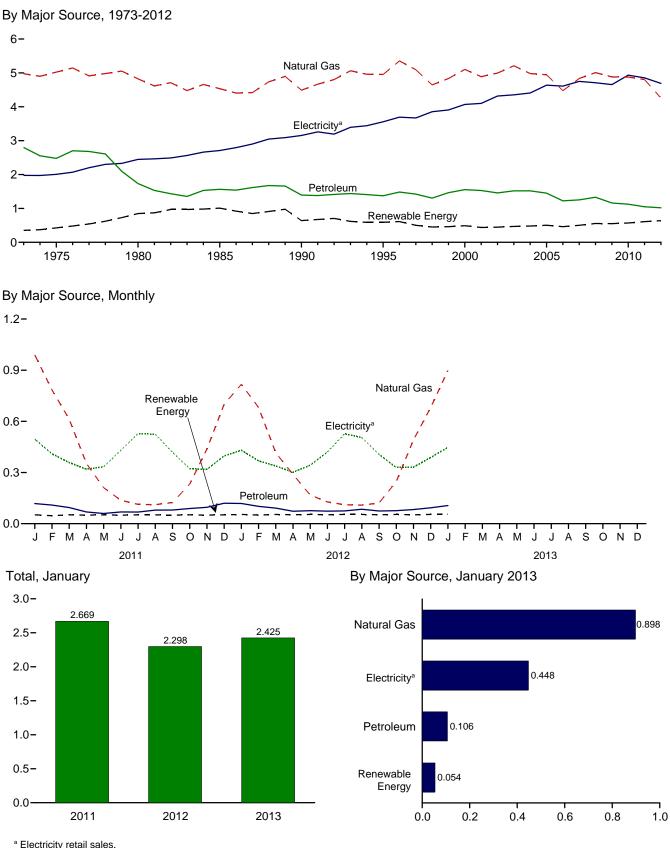
^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
 ^b Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
 ^c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the nublic.

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.
 ^e See "Primary Energy Consumption" in Glossary.
 ^f 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.

⁹ 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 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/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 1.3 and 2.2–2.6.

Sources: Tables 1.3 and 2.2-2.6.





^a Electricity retail sales. Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption

(Trillion Btu)

_		Fossil										
	Fossil Fuels					Renewabl	e Energy ^b			Electricity	Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Electricity 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	4,696	14,897
1975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,817	14,813
1980 Total	31	4,825	1,734	6,589	NA	NA	850	850	7,439	2,448	5,866	15,753
1985 Total	39	4,534	1,565	6,138	NA	NA	1,010	1,010	7,148	2,709	6,184	16,041
1990 Total	31	4,491	1,394	5,916	6	56	580	641	6,557	3,153	7,235	16,945
1995 Total	17	4,954	1,374	6,345	7	64	520	591	6,936	3,557	8,026	18,519
1996 Total	17	5,354	1,484	6,854	7 8	65 64	540 430	612 502	7,467	3,694	8,344	19,504
1997 Total 1998 Total	16 12	5,093 4.646	1,422 1.304	6,531 5.962	8	64	430 380	452	7,033 6.413	3,671 3.856	8,261 8.686	18,965 18,955
1999 Total	14	4,835	1,304	6,314	9	63	390	452	6,775	3,906	8,875	19,557
2000 Total	11	5,105	1,405	6,670	9	61	420	489	7,159	4,069	9,197	20,425
2000 Total	12	4,889	1,529	6,430	9	59	370	438	6,868	4,003	9,074	20,42
2002 Total	12	4,995	1,457	6.464	10	57	380	448	6,912	4.317	9.562	20,791
2003 Total	12	5.209	1.519	6.741	13	57	400	470	7,211	4.353	9,534	21,097
2004 Total	11	4,981	1,520	6,513	14	57	410	481	6,993	4,408	9,690	21,092
2005 Total	8	4,946	1,451	6,406	16	58	430	504	6,909	4,638	10,079	21,626
2006 Total	6	4,476	1,224	5,706	18	63	380	462	6,168	4,611	9,909	20,688
2007 Total	8	4,835	1,254	6,097	22	70	410	502	6,598	4,750	10,182	_ 21,531
2008 Total	NA	5,010	1,330	^R 6,340	26	80	450	557	^R 6,896	4,708	10,071	R 21,675
2009 Total	NA	4,883	1,161	^R 6,044	33	89	430	552	^R 6,596	4,656	9,789	^R 21,041
2010 Total	NA	4,878	1,126	^R 6,004	37	114	420	571	^R 6,575	4,933	10,326	^R 21,833
2011 January	NA	989	^R 118	^R 1,107	3	12	37	52	^R 1,159	495	1,015	R 2,669
February	NA	785	^R 109	^R 894	3	11	33	47	^R 940	410	806	R 2,157
March	NA	613	^R 94	R 707	3	12	37	52	R 759	358	745	R 1,861
April	NA	354	^R 69	R 422	3	12	35	50	R 472	320	666	R 1,458
May	NA	211	^R 60	R 271	3	12	37	52	R 323	333	722	R 1,378
June	NA NA	137 113	^R 69 ^R 68	^R 206 ^R 182	3 3	12 12	35 37	50 52	^R 256 ^R 234	430 528	920	R 1,606 R 1,907
July August	NA	113	^R 80	^R 191	3	12	37	52 52	R 243	526 525	1,145 1.077	^R 1,844
September	NA	124	R 80	^R 204	3	12	35	50	R 254	419	798	R 1,471
October	NA	232	R 89	R 320	3	12	37	52	R 372	323	650	R 1,345
November	NA	437	^R 96	R 533	3	12	35	50	R 583	318	670	R 1,571
December	NA	699	R 120	R 819	3	12	37	52	^R 871	397	842	R 2,110
Total	NA	4,804	^R 1,051	^R 5,855	40	140	430	610	^R 6,465	4,855	10,057	R 21,377
2012 January	NA	818	^R 118	^R 936	3	14	36	54	^R 990	431	^R 878	^R 2,298
February	NA	681	^R 102	^R 783	3	13	34	51	^R 834	368	^R 731	R 1,934
March	NA	416	^R 91	^R 507	3	14	36	54	^R 561	338	^R 678	R 1,578
April	NA	289	R 73	R 362	3	14	35	52	R 414	301	R 602	R 1,317
May	NA	168	^R 76	^R 244	3	14	36	54	R 299	343	^R 737	R 1,378
June	NA	127	R 74	R 201	3	14	35	52	R 253	420	^R 877	R 1,550
July	NA	111	^R 75	R 186	3	14	36	54	R 240	528	R 1,119	R 1,886
August	NA	109	^R 85 ^R 75	^R 193 ^R 196	3	14	36	54	^R 247 ^R 248	505	R 1,016	R 1,769
September	NA NA	121 246	[™] 75 [™] 76	[™] 196 ^R 322	3	14 14	35	52 54	^R 248 ^R 376	407 330	^R 781 ^R 653	R 1,436 R 1,360
October	NA NA	246 491	R 83	R 574	3	14 14	36 35	54 52	R 626	330	^R 653	R 1,360
November December	NA	491 681	^R 93	^R 774	3	14	35 36	52 54	^R 828	332 388	^R 829	^R 2,04
Total	NA	4,258	R 1,020	R 5,277	40	170	430	6 39	^R 5,916	4,690	^R 9,574	R 20,18
2013 January	NA	898	106	1.005	3	14	37	54	1.059	448	918	2,42

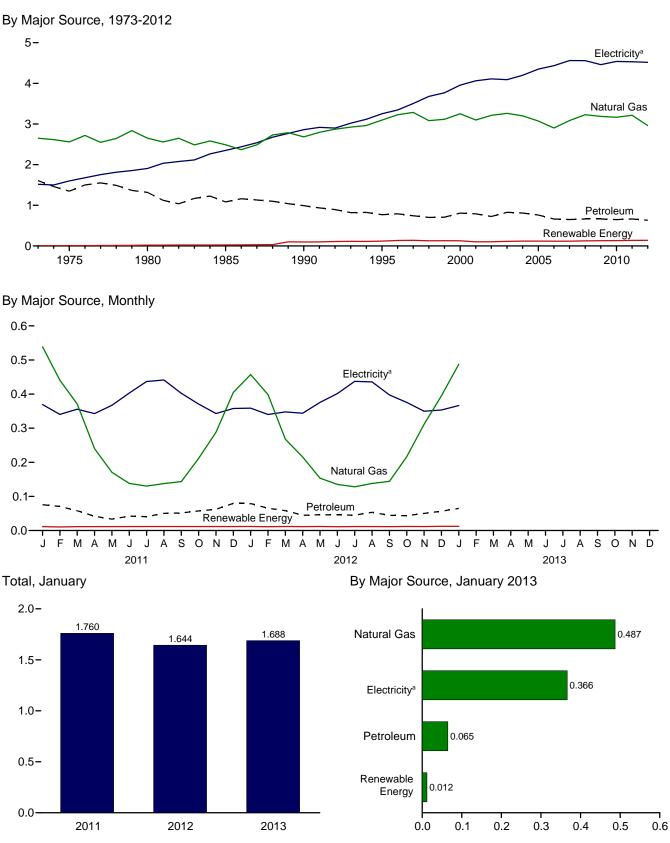
^a See "Primary Energy Consumption" in Glossary.
 ^b Data are estimates. See Table 10.2a for notes on series components.
 ^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^d Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 ^e 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

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

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/totalenergy/data/monthly/#consumption 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.

Beginning in 2008, the data that were included under "Coal" on this table are now included under "Coal" on Table 2.3.

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)



^a Electricity retail sales.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

					Primary	Consump	tion ^a							
		Fossi	I Fuels			R	enewabl	e Energ	y b			Elec-	Flootrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales ^f	Electrical System Energy Losses ^g	Total
1973 Total	160	2,649	1,607	4.416	NA	NA	NA	NA	7	7	4,423	1,517	3,604	9,543
1975 Total	147	2,558	1.346	4.051	NA	NA	NA	NA	8	8	4.059	1.598	3.835	9.492
1980 Total	115	2,651	1,318	4,084	NA	NA	NA	NA	21	21	4,105	1,906	4,567	10,578
1985 Total	137	2,488	1,083	3,708	NA	NA	NA	NA	24	24	3,732	2,351	5,368	11,451
1990 Total	124	2.682	991	3,798	1	3	_	_	94	98	3.896	2,860	6.564	13,320
1995 Total	117	3.096	769	3,982	1	5	-	_	113	118	4,101	3,252	7,338	14,690
1996 Total	122	3,226	790	4,138	1	5	-	-	129	135	4,273	3,344	7,555	15,172
1997 Total	129	3,285	743	4,157	1	6	-	-	131	138	4,295	3,503	7,883	15,681
1998 Total	93	3,083	702	3,878	1	7	-	-	118	127	4,005	3,678	8,285	15,968
1999 Total	103	3,115	707	3,925	1	7	-	-	121	129	4,053	3,766	8,557	16,376
2000 Total	92	3,252	807	4,150	1	8	-	-	119	128	4,278	3,956	8,942	17,175
2001 Total	97	3,097	790	3,984	1	8	-	-	92	101	4,084	4,062	8,990	17,137
2002 Total	90	3,212	726	4,028	(s)	9	-	-	95	104	4,132	4,110	9,104	17,345
2003 Total	82	3,261	827	4,170	1	11	-	-	101	113	4,283	4,090	8,958	17,331
2004 Total	103	3,201	809	4,113	1	12	-	-	105	118	4,232	4,198	9,229	17,659
2005 Total	97	3,073	761	3,932	1	14	-	-	105	120	4,051	4,351	9,455	17,857
2006 Total	65	2,902	663	3,629	1	14	-	-	103	118	3,747	4,435	9,529	17,711
2007 Total	70 ₽ 77	3,085	649	3,805	1	14	-	-	103	118	3,922	4,560	9,773	18,255
2008 Total	^R 77 ^R 71	3,228	664	^R 3,969 ^R 3,922	1	15	(s)	- 	109	125	R 4,094	4,558	9,749	R 18,402
2009 Total 2010 Total	R 67	3,187 3,165	664 649	R 3,922	1	17 19	(s) (s)	(s) (s)	112 111	129 130	^R 4,051 ^R 4,011	4,460 4,539	9,378 9,501	R 17,889 R 18,050
2011 January	R 8	539	76	R 622	(s)	2		(s)	10	11	633	369	757	^R 1,760
February	R 7	441	70	518	(s) (s)	2	(s) (s)	(S) (S)	9	10	R 529	309	670	R 1,539
March	R 7	371	58	^R 436	(s)	2	(s)	(s)	10	11	447	356	740	R 1,543
April	4	240	42	286	(s)	2	(s)	(s)	9	11	297	343	714	1.354
May	4	171	33	R 209	(s)	2	(s)	(s)	10	12	220	367	795	R 1,383
June	R 5	138	42	^R 185	(s)	2	(s)	(s)	10	12	196	403	863	^R 1,463
July	4	130	41	175	(s)	2	(s)	(s)	10	12	R 187	437	948	1.571
August	R 4	138	50	191	(s)	2	(s)	(s)	10	12	203	441	906	1,551
September	3	143	52	198	(s)	2 2	(s)	(s)	10	11	^R 210	402	767	1,379
October	4	212	57	^R 273	(s)	2	(s)	(s)	10	12	284	371	747	R 1,402
November	4	288	62	^R 355	(s)	2	(s)	(s)	10	11	366	343	722	R 1,432
December	^R 5	405	80	489	(s)	2	(s)	(s)	10	12	501	358	759	1,618
Total	^R 59	3,214	663	^R 3,937	(s)	20	1	(s)	116	137	^R 4,074	4,531	9,387	^R 17,993
2012 January	5	457	79	^R 542	(s)	2	(s)	(s)	10	12	^R 554	359	^R 731	^R 1,644
February	^R 5	399	65	^R 469	(s)	2	(s)	(s)	10	11	^R 480	340	^R 675	^R 1,495
March	4	268	58	^R 331	(s)	2	(s)	(s)	10	12	342	348	^R 697	^R 1,387
April	3	215	45	263	(s)	2	(s)	(s)	9	11	274	344	^R 687	^R 1,305
May	3	154	46	203	(s)	2	(s)	(s)	10	12	^R 215	376	R 807	R 1,397
June	3	135	46	183	(s)	2	(s)	(s)	9	11	_ 195	401	^R 839	^R 1,436
July	3	128	45	176	(s)	2	(s)	(s)	10	12	^R 188	437	^R 927	^R 1,552
August	3	138	53	194	(s)	2	(s)	(s)	10	12	206	436	R 877	^R 1,518
September	R 3	144	44	191	(s)	2	(s)	(s)	10	11	R 203	397	R 763	R 1,363
October	R 3	216	^R 43	R 263	(s)	2	(s)	(s)	10	12	R 275	376	R 744	^R 1,395
November	^R 4 ^R 4	311	50	^R 365	(s)	2	(s)	(s)	10	12	R 377	350	^R 715	R 1,442
December	°4 ₽40	395	57	R 456	(s)	2	(s)	(s)	11	12	R 468	353	^R 754	R 1,576
Total	^R 43	2,961	632	^R 3,637	(s)	20	1	1	118	140	^R 3,776	4,517	^R 9,221	^R 17,514
2013 January	6	487	65	558	(s)	2	(s)	(s)	10	12	570	366	751	1,688

^a See "Primary Energy Consumption" in Glossary.
 ^b Most data are estimates. See Table 10.2a 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 Conventional hydroelectric power.
 ^f Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 ^g 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

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section. R=Revised. NA=Not available. – =No data reported. (s)=Less than 0.5 trillion

Btu. Notes:

• The commercial sector includes commercial combined-heat-and-Notes: • The commercial sector includes 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. • 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/totalenergy/data/monthly/#consumption 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.

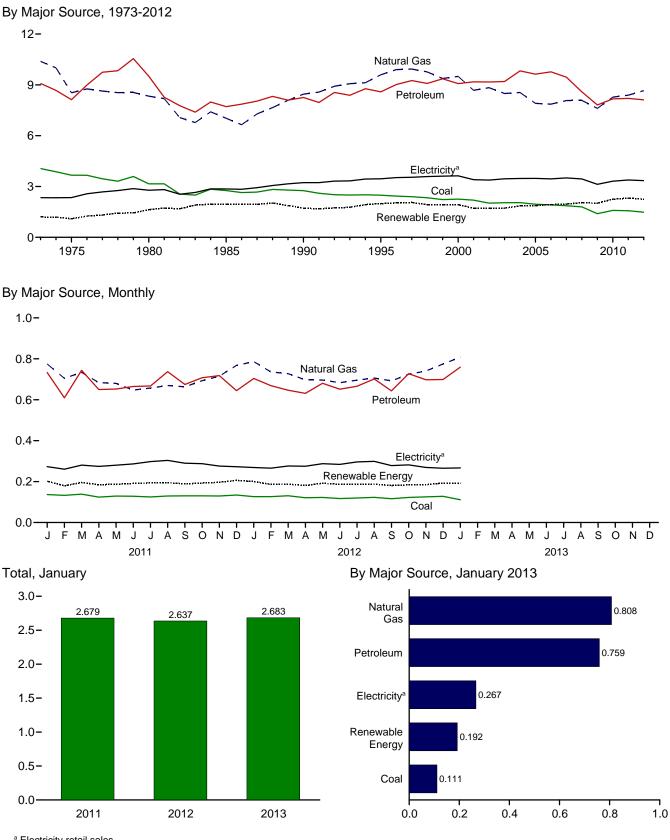


Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

^a Electricity retail sales.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

					Primar	y Consum	nptiona							
		Fossi	il Fuels			F	Renewabl	e Energy	b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total ^e	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales ^g	System Energy Losses ^h	Total ^e
1973 Total	4,057	10,388	9,083	23,521	35	NA	NA	NA	1,165	1,200	24,720	2,341	5,562	32,623
1975 Total	3,667	8,532	8,127	20,339	32	NA	NA	NA	1,063	1,096	21,434	2,346	5,632	29,413
1980 Total	3,155	8,333	9,509	20,962	33	NA	NA	NA	1,600	1,633	22,595	2,781	6,664	32,039
1985 Total	2,760	7,032	7,714	17,492	33	NA	NA	NA	1,918	1,951	19,443	2,855	6,518	28,816
1990 Total	2,756	8,451	8,251	19,463	31	2	-	-	1,684	1,717	21,180	3,226	7,404	31,810
1995 Total	2,488	9,592	8,586	20,727	55	3	-	-	1,934	1,992	22,719	3,455	7,796	33,971
1996 Total	2,434 2,395	9,901	9,019 9,255	21,377	61 58	3 3	-	_	1,969 1,996	2,033 2,057	23,410	3,527	7,968 7,972	34,904 35,200
1997 Total 1998 Total	2,395	9,933 9,763	9,255	21,629 21,248	55	3	_	_	1,990	2,057	23,686 23,177	3,542 3,587	8,079	35,200
1999 Total	2,335	9,375	9,356	21,240	49	4	_	_	1,882	1,929	22,950	3,587	8,203	34,843
2000 Total	2,256	9,500	9.075	20,896	42	4	_	_	1,881	1,928	22,830	3,631	8,208	34,664
2001 Total	2,192	8,676	9,178	20,075	33	5	-	_	1,681	1,719	21,794	3,400	7,526	32,720
2002 Total	2,019	8,832	9,168	20,079	39	5	-	-	1,676	1,720	21,799	3,379	7,484	32,662
2003 Total	2,041	8,488	9,197	19,777	43	3	-	-	1,679	1,725	21,502	3,454	7,565	32,522
2004 Total	2,047	8,550	9,825	20,559	33	4	-	-	1,817	1,853	22,412	3,473	7,634	33,519
2005 Total	1,954	7,907	9,633	19,538	32	4	-	-	1,837	1,873	21,411	3,477	7,557	32,446
2006 Total	1,914	7,861	9,770	19,606	29	4	-	-	1,897	1,930	21,536	3,451	7,415	32,401
2007 Total	1,865	8,074	9,451	19,414	16	5	-	-	1,936	1,956	21,370	3,507	7,517	32,394
2008 Total	1,796 1.396	8,083 7.609	8,588 7.813	18,508 16,794	17 18	5 4	-	_	2,028 1.994	2,049 2.016	20,557 18.810	3,444 3.130	7,365 6.582	31,367 28.522
2009 Total 2010 Total	1,590	8,278	8,172	18,033	16	4	_ (s)	_	2,229	2,016 2,250	20,283	3,313	6,934	28,522 30,530
2011 January	137	775	^R 733	^R 1,644	1	(s)	(s)	(s)	200	202	^R 1,846	273	560	^R 2,679
February	133	705	^R 609	^R 1,447	2	(s)	(s)	(s)	178	180	^R 1,627	260	512	^R 2,400
March	139	734	^R 744	^R 1,618	2	(s)	(s)	(s)	193	196	^R 1,814	280	583	^R 2,677
April	124	683	^R 650	^R 1,458	2	(s)	(s)	(s)	183	185	^R 1,643	274	571	^R 2,488
May	129	680	R 652	^R 1,463	2	(s)	(s)	(s)	185	187	^R 1,650	280	607	^R 2,537
June	128	647	R 665	R 1,442	1	(s)	(s)	(s)	189	191	R 1,633	286	613	R 2,532
July	125 130	657 669	^R 667 ^R 737	^R 1,449 ^R 1,540	1	(s) (s)	(s)	(s) (s)	192 193	194 195	^R 1,642 ^R 1,735	298 304	646 623	^R 2,586 ^R 2,662
August	130	663	^R 675	^R 1,469	1	(S) (S)	(s) (s)	(S) (S)	193	189	^R 1,658	290	552	R 2,662
October	130	693	R 707	^R 1,530	1	(S) (S)	(S) (S)	(S) (S)	191	193	^R 1,723	288	579	R 2,500
November	130	715	^R 718	^R 1,561	1	(s)	(s)	(s)	195	197	R 1.758	276	581	^R 2.614
December	134	768	^R 644	^R 1.548	2	(s)	(s)	(s)	204	206	^R 1.754	273	579	R 2.606
Total	1,569	8,389	^R 8,201	^R 18,171	17	4	(s)	(s)	^R 2,291	2,312	^R 20,483	3,382	7,007	^R 30,873
2012 January	^R 127	787	^R 704	^R 1,619	2	(s)	(s)	(s)	198	201	^R 1,820	269	^R 548	^R 2,637
February	^R 126	735	^R 669	^R 1,531	2	(s)	(s)	(s)	184	186	^R 1,716	266	^R 528	^R 2,510
March	^R 131	727	^R 646	^R 1,507	2	(s)	(s)	(s)	185	187	^R 1,695	276	^R 553	^R 2,524
April	^R 121	697	^R 631	^R 1,455	2	(s)	(s)	(s)	179	181	^R 1,636	275	^R 549	^R 2,460
May	^R 122	696	^R 680	^R 1,500	2	(s)	(s)	(s)	190	192	^R 1,692	288	^R 618	^R 2,597
June	R 117	683	R 652	R 1,452	1	(s)	(s)	(s)	185	186	R 1,638	284	^R 594	R 2,515
July	^R 120 ^R 123	696 706	^R 666 ^R 702	^R 1,481 ^R 1,531	1	(s)	(s)	(s)	186 186	188 187	^R 1,669 ^R 1,718	296 299	^R 628 ^R 602	^R 2,593 ^R 2,619
August	^R 123	692	R 643	^R 1,450	1	(s)	(s)	(s)	186	187	^R 1.631	299 278	^R 534	^R 2,619
September	^R 122	692 725	^R 727	1,571	1	(s) (s)	(s) (s)	(s) (s)	179	181	1,755	278	534 ^R 558	R 2,444
November	R 122	723	R 698	^R 1,560	2	(s) (s)	(S) (S)	(S) (S)	182	185	^R 1,745	262	R 550	^R 2,595
December	R 123	740	R 699	^R 1,601	2	(S) (S)	(S) (S)	(S) (S)	190	193	R 1,794	265	^R 566	R 2.625
Total	R 1,479	^R 8,659	^R 8,116	R 18,258	18	(3)	(s)	(s)	R 2,228	2,250	R 20,508	3,347	R 6,832	R 30,687
				-		-	.,	• • •					,	-
2013 January	111	808	759	1,678	3	(s)	(s)	(s)	189	192	1,870	267	547	2,683

^a See "Primary Energy Consumption" in Glossary.
 ^b Most data are estimates. See Table 10.2b for notes on series components

^a host data are estimates. See Table 10.20 for holes of 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.

¹ Conventional hydroelectric power.
 ⁹ Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 ⁿ 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 electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. -=No data reported. (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 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption

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.

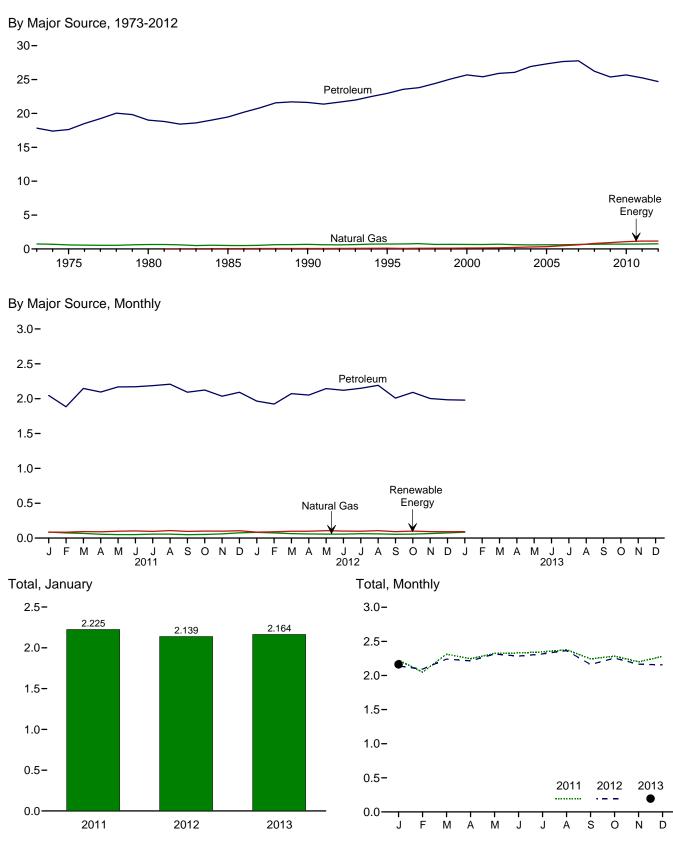


Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)

Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Cor	sumptiona					
		Fossi	l Fuels		Renewable Energy ^b	Total	Electricity Retail	Electrical System Energy	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Primary	Sales ^e	Losses ^f	Total
973 Total	3	743	17.832	18.577	NA	18.577	11	25	18.613
975 Total	1	595	17,615	18,210	NA	18,210	10	24	18,245
980 Total	(9)	650	19.009	19,659	NA	19,659	11	27	19.697
985 Total	(s)	519	19,472	19,992	50	20,041	14	32	20.088
990 Total	(°)	680	21,626	22,306	60	22,366	16	37	22,420
995 Total	(a)	724	22.955	23,679	112	23,791	17	38	23.846
996 Total	2g	737	23,565	24,302	81	24,383	17	38	24,437
97 Total	(g)	780	23,813	24,593	102	24,695	17	38	24.750
998 Total	\g	666	24,422	25.088	113	25.201	17	38	25.256
999 Total	(g)	675	25,098	25,774	118	25,891	17	40	25,949
000 Total	(g)	672	25,682	26,354	135	26,489	18	40	26,548
001 Total	(g)	658	25,412	26,070	142	26,213	20	42	26,348
	(9)	699			142		19	43	
002 Total	(9) (9)		25,913	26,612		26,781	19 23	42 51	26,842 26,994
003 Total	(⁹)	627	26,063	26,690	230 290	26,920	23 25	51	
004 Total	(⁹)	602	26,925	27,527		27,817			27,895
005 Total		624	27,309	27,933	339	28,272	26	56	28,353
006 Total	(g)	625	27,651	28,276	475	28,751	25	54	28,830
007 Total	(g)	663	27,763	28,427	602	29,029	28	60	29,117
008 Total	(g)	692	26,230	26,922	826	27,748	26	56	27,831
009 Total	(g)	715	25,375	26,090	935	27,025	27	56	27,108
010 Total	(g)	719	^R 25,686	^R 26,405	1,075	27,479	26	55	27,561
011 January	(^g)	87	2,045	2,132	86	_ 2,218	2	5	2,225
February	(g)	74	1,883	1,957	84	^R 2,042	2	4	2,048
March	(9)	67	2,146	2,213	93	2,306	2	5	2,313
April	(9)	55	2,095	2,150	90	2,240	2	4	2,247
May	(g)	50	2,168	2,218	98	2,316	2	5	2,323
June	(g)	50	2,171	2,221	103	2,323	2	5	2,330
July	(g)	56	2,187	2,244	96	2,340	2	5	2,347
August	(g)	56	2,207	2,263	107	2,370	2	4	2,377
September	(g)	49	2.093	2,142	96	2.238	2	4	R 2,245
October	ζgί	52	2,124	2,176	100	2.276	2	4	2,282
November	ζgί	60	2,035	^R 2,096	99	2,195	2	4	2,201
December	(g)	76	R 2,092	2,167	105	R 2,273	2	5	R 2,280
Total	(g)	732	R 25,247	R 25,979	1,158	R 27,137	26	54	R 27,218
112 January	(g)	82	1,965	2.046	86	2,132	2	5	2.139
February	(g)	74	1.923	1.997	90	R 2,087	2	4	2.093
March	(g)	64	R 2.073	2.136	98	2,007	2	4	^R 2,241
April	(9)	59	2,073	^R 2,111	98	2,209	2	4	2,241
May	(9)	56	2,052	2,111	107	^R 2,308	2	4	2,215
June	(9)	56	2,144	2,201	107	2,308	2	4	2,314
July	(9)	62	2,120	2,170	99	R 2,310	2	5	2,204
	(9)	60	2,149	2,211	99 106	2,358	2	5	2,316
August	(9)	54	2,192	2,252	92	2,356	2	4	2,305
September October	(9)	54 57	2,008	2,063	92 101	2,155	2	4	2,161
November	(g)	64	2,002	2,066	93	2,159	2	4	2,165
December	(g)	74	^R 1,984	2,057	92	2,149	2	5	2,156
Total	(g)	763	^R 24,702	^R 25,465	1,161	^R 26,626	26	52	^R 26,703
13 January	(9)	85	1,980	2,064	92	2,157	2	5	2,164

^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.
 ⁱ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retails alses. Total losses are

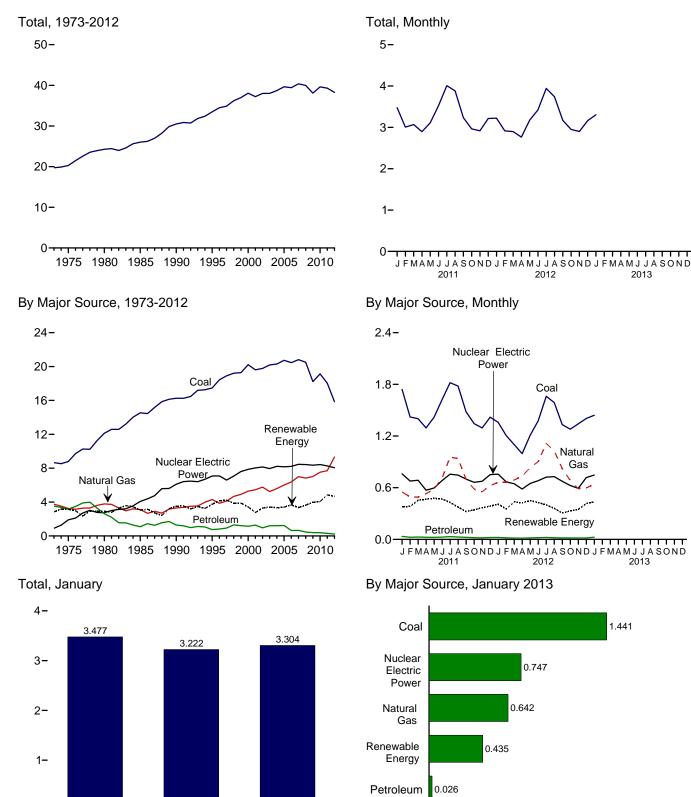
power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

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

electricity retail sales. See Note 2, Electrical System Energy Losses, at one or section.
 ⁹ Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption. 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/totalenergy/data/monthly/#consumption for all available data beginning in 1973.

all available data beginning in 1973. Sources: Tables 2.6, 3.8c, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)



Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.6.

2012

0.0

0.5

1.0

1.5

2.0

2013

0.

2011

Table 2.6 Electric Power Sector Energy Consumption (Trillion Btu)

Primary Consumptiona Fossil Fuels Renewable Energy^b Electricity Net Nuclear Hydroelectric Natural Petro Geo-Bio-Total Electric Solar/ Coal Gasc leum Total Power Powerd thermal ΡV Wind mass Total Imports Primary 1973 Total 1975 Total 8,658 8,786 3,748 3,240 3,515 3,166 15,921 15,191 2,827 3,122 20 34 53 NA NA NA NA 2,851 3,158 910 19.731 3 2 49 20,270 1,900 21 4 1980 Total 12,123 3,778 2,634 18,534 2,739 2,867 NA NA 2,925 71 24,269 1985 Total 14,542 16,261 3,135 3,309 1,090 1,289 18,767 20,859 4,076 2,937 3,014 <u>97</u> 161 (s) <u>(s)</u> 29 <u>14</u> 317 3,049 3,524 140 26,032 30,495 1990 Total^e 4,302 3,862 755 817 22,523 23,109 3,149 3,528 33 33 3,747 4,153 33,479 34,485 1995 Total 17,466 7,075 138 5 5 422 134 1996 Total 18,429 148 438 137 7.087 34 31 46 1997 Total 18,905 4,126 927 23,957 6,597 3,581 150 446 4,216 34,886 5 5 5 116 1998 Total 19,216 19,279 4.675 1,306 1,211 25,197 7,068 7,610 3,241 3,218 151 444 3,872 3,874 88 36.225 453 152 99 1999 Total 4.902 25.393 36.976 57 70 105 3,427 2,763 20,220 5,293 5,458 26,658 7,862 2,768 38,062 37,215 2000 Total 1,144 144 5 453 115 2001 Total 26,348 26,511 2.209 75 72 19.614 1,277 8.029 142 6 337 19,783 8,145 380 3,288 38,016 2,650 147 2002 Total 6 5.767 961 2003 Total 20,185 5,246 1,205 26,636 7,959 2,749 146 5 113 397 3,411 22 38,028 2,655 3,339 3,406 39 85 2004 Total 20,305 20,737 5,595 1,212 1,235 27,112 27,986 8,222 8,161 148 6 6 142 178 388 38,712 39,638 2005 Total 6,015 2,670 147 406 2006 Total 20,462 6,375 648 27,485 8,215 2,839 145 5 264 412 3,665 63 39,428 7,005 6,829 8,455 8,427 2,430 2,494 3,345 3,630 2007 Total 20,808 657 28,470 27,810 145 6 9 341 423 107 40,377 39,978 2008 Total 20,513 468 146 546 435 112 25,638 27,039 8,356 8,434 721 923 116 89 2009 Total 18,225 7,022 390 2.650 146 a 441 3,967 38,077 148 12 459 4,064 39.627 2010 Total 19,133 7.528 2.521 378 1,741 2011 January 550 35 24 2.326 761 247 13 12 (s) 83 37 381 9 8 3.477 35 102 382 3,006 February 1.421 493 1,938 678 233 1 March 1,401 28 24 24 26 32 27 13 12 102 36 32 8 7 3,069 491 1,920 687 301 1 453 April 2,895 3,111 1,294 531 1.849 571 301 2 121 467 34 37 39 1,418 582 2,024 13 2 477 12 11 315 114 May 597 2,361 2,806 683 June 1,623 712 311 12 12 2 107 469 3,523 July 757 2 4.008 1,819 955 303 73 429 16 73 67 39 37 36 August 938 2,745 746 12 2 16 3,883 1.780 249 376 24 20 18 2,201 3,234 2,963 September 1,481 696 700 207 12 12 2 323 10 October November 1,343 585 663 191 1 102 343 10 1,294 552 1,864 199 12 121 36 369 8 2,916 675 December 1 419 625 22 2,066 752 229 13 103 39 385 12 3 215 Total ... 18,035 7,712 303 26,050 8,269 3,085 17 1,167 437 4,855 127 39,301 149 2012 January ^R 1,359 R 661 R 2 044 11 9 R 3 222 23 757 225 14 1 134 37 410 R 1,206 18 R 1,885 13 34 R 2,916 February 660 668 196 1 108 353 35 31 35 March ^R 1,101 ^R 995 ^R 690 R 2,897 R 2,765 ^R 1,806 249 14 2 3 435 10 15 646 135 ^R734 R 1,743 15 17 585 13 13 15 April 252 124 424 ^R 1,209 ^R 833 May R 2,059 R 3,174 650 276 14 5 122 451 R 1.376 R 3.422 June 901 20 23 ^R 2,298 ^R 2,799 682 257 13 5 116 36 38 428 14 19 R ^R 1,115 R 3,942 723 259 5 401 July 1.661 14 85 R 2,634 August R 1,589 ^R 1,026 19 728 224 13 4 80 38 360 19 ^R 3,741 ^R 1,333 R 3.168 September R 822 17 R 2.172 675 170 13 4 84 36 307 14 ^R 1,280 R 1,981 35 12 R 2,949 684 17 625 156 4 3 122 330 October November 14 14 ^R 1,342 ^R 589 16 R 1,947 593 181 112 36 346 13 R 2,899 R 1,403 ^R 597 R 3,162 R 2.017 December 17 718 224 14 2 138 38 416 11 Total R 15,854 R 9,313 218 R 25,385 8,050 2,668 41 1,360 429 4,661 161 R 38,258 163 26 2.108 747 241 14 3 141 37 435 2013 January 1.441 642 14 3.304

^a See "Primary Energy Consumption" in Glossary

^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.

R=Revised. 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/totalenergy/data/monthly/#consumption 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.

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.

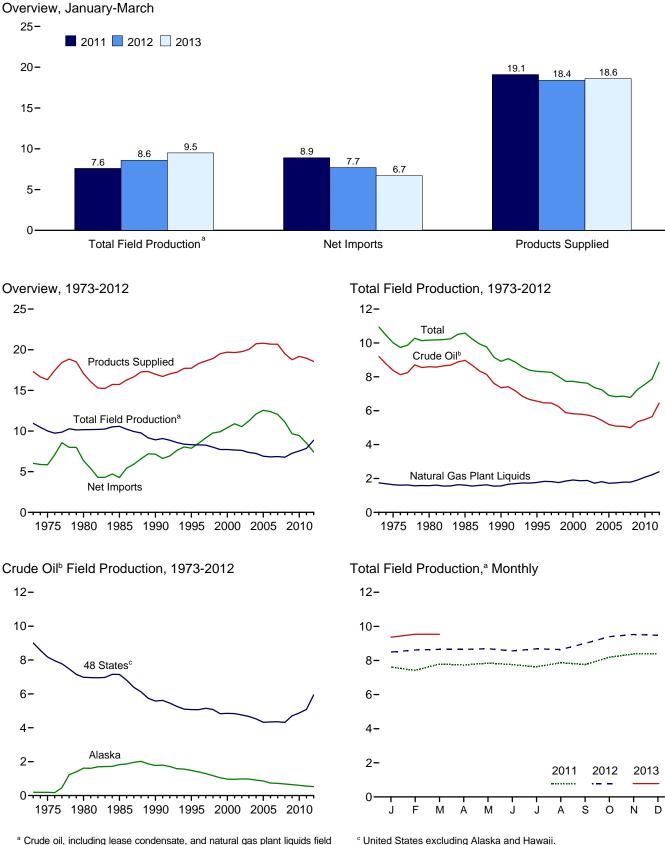
Users of EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be 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 steam-electric 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 end-use 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.

3. Petroleum

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Figure 3.1 Petroleum Overview (Million Barrels per Day)



 ^a Crude oil, including lease condensate, and natural gas plant liquids field production.
 ^b Includes lease condensate.

Source: Table 3.1.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum.

Table 3.1 **Petroleum Overview**

(Thousand Barrels per Day)

		Fie	eld Produc	tion ^a		_			Trade				
	48 States ^d	Crude Oil ^b Alaska	o,c Total	NGPL ^{e,f}	Total ^c	Renew- able Fuels and Oxy- genates ^g	Process- ing Gain ^h	lm- ports ⁱ	Ex- ports ^f	Net Imports ^j	Stock Change ^k	Adjust- ments ^{c,l}	Petroleum Products Supplied
1973 Average 1975 Average 1980 Average 1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 Average 2008 Average 2009 Average 2001 Average 2003 Average 2004 Average 2005 Average 2006 Average 2009 Average 2009 Average 2001 Average 2010 Average	9,010 8,183 6,980 5,071 5,156 5,071 5,071 5,075 4,832 4,851 4,839 4,759 4,527 4,348 4,325 4,318 4,318 4,708 4,877	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 970 970 970 970 970 970 970 970 970 970	9,208 8,375 8,971 7,355 6,566 6,465 6,452 5,881 5,822 5,801 5,744 5,435 5,186 5,089 5,077 5,000 5,353 5,479	1,738 1,633 1,573 1,609 1,559 1,762 1,830 1,817 1,775 1,850 1,911 1,868 1,868 1,809 1,717 1,739 1,783 1,783 1,784 1,910 2,074	10,946 10,007 10,170 8,914 8,225 8,269 8,011 7,731 7,670 7,624 7,363 7,244 6,903 6,827 6,860 6,784 7,263 7,553	NA NA NA NA NA NA NA NA NA NA NA NA NA N	453 460 597 557 683 774 850 886 886 948 903 957 974 1,051 989 994 994 993 979 1,068	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 11,459 11,459 11,459 11,530 12,264 13,145 13,714 13,745 13,745 13,468 12,915 11,691 11,793	231 209 544 781 857 949 981 1,003 971 984 1,027 1,048 1,165 1,317 1,433 1,802 2,024 2,353	6,025 5,846 6,365 4,286 7,161 7,868 8,498 9,9764 9,912 10,419 10,900 10,548 12,097 12,549 12,036 11,114 9,667 9,441	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 -105 56 0 209 145 60 -148 195 109 49	18 41 64 2000 338 4996 528 548 506 532 501 501 514 548 536 641 802 226	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 20,680 20,687 20,687 20,687 18,498 18,771 19,180
2011 January February April May July August September October November December Average	R 5,038 R 4,799 R 4,984 R 4,940 R 5,029 R 5,019 R 4,968 R 5,119 R 5,008 R 5,119 R 5,008 R 5,119 R 5,008 R 5,119 R 5,008 R 5,119 R 5,008 R 5,119 R 5,008 R 5,009 R 5,413 R 5,436 R 5,436 R 5,436	464 611 606 582 553 453 526 585 585 586 593 592 561	R 5,502 R 5,410 R 5,595 R 5,546 R 5,611 R 5,611 R 5,645 R 5,593 R 5,420 R 5,645 R 5,593 R 5,874 R 6,027 R 5,652	2,114 2,009 2,195 2,186 2,234 2,188 2,206 2,227 2,171 2,313 2,373 2,358 2,216	R 7,616 R 7,419 R 7,789 R 7,733 R 7,845 R 7,760 R 7,627 R 7,873 R 7,763 R 8,188 R 8,379 R 8,386 R 7,868	982 972 1,002 996 992 1,015 1,004 1,027 1,011 1,023 1,076 1,085 1,016	1,019 954 1,019 1,013 1,085 1,106 1,122 1,133 1,123 1,123 1,134 1,134 1,076	12,248 10,738 11,850 11,808 11,866 11,877 11,277 11,277 11,270 11,053 11,217 11,064 11,504	2,750 2,634 2,733 3,071 2,735 2,716 3,053 3,002 3,174 3,107 3,159 3,667 2,986	9,497 8,104 9,117 8,736 9,131 9,161 8,704 8,224 8,095 7,946 8,059 7,397 8,518	484 -1,033 -139 105 884 59 231 -644 -492 -371 23 -646 - 121	R 363 R 392 R 262 R 278 R 310 R 270 R 552 R 513 R 407 R 233 R 476 R 154 R 350	18,993 18,873 19,329 18,650 18,479 19,253 18,778 19,415 18,892 18,844 19,080 18,803 18,949
April May June July August September October December December	r⊑ 5,768	E 593 E 582 E 567 E 552 E 546 E 493 E 415 E 404 E 502 E 502 E 553 RE 555 E 526	RE 6,116 RE 6,227 RE 6,280 RE 6,269 RE 6,269 RE 6,314 E 6,228 RE 6,357 RE 6,276 RE 6,539 RE 6,915 RE 7,012 RE 7,064 RE 6,467	2,376 2,388 2,375 2,382 2,376 2,335 2,323 2,367 2,458 2,458 2,414 2,399	RE 8,491 RE 8,615 RE 8,655 RE 8,655 RE 8,650 E 8,663 RE 8,679 RE 8,643 RE 8,998 RE 9,400 RE 9,527 RE 9,478 RE 8,867	1,021 1,012 994 1,001 1,018 1,004 929 957 924 913 928 915 968	1,053 1,068 1,023 1,047 1,089 1,099 1,060 1,102 1,047 998 1,118 1,187 1,074	10,944 10,464 10,610 10,634 11,132 11,393 10,748 10,898 10,533 10,088 10,103 9,610 10,596	2,839 2,980 3,064 3,263 3,194 3,209 3,211 3,017 3,150 3,255 3,404 3,623 3,184	8,104 7,484 7,547 7,370 7,939 8,184 7,537 7,881 6,833 6,698 5,987 7,412	655 -228 409 -18 524 493 33 -272 522 -278 -40 -57 151	R 265 R 353 R 402 R 242 R 496 559 R 428 R 372 R 403 R 300 R 291 R 506 R 385	18,280 18,760 18,213 18,330 18,707 18,915 18,601 19,226 18,173 18,722 18,604 18,130 18,555
2013 January February March 3-Month Average 2012 3-Month Average 2011 3-Month Average	RE 6,456 E 6,553 E 6,624 E 6,544 E 5,626 4,945	RE 549 E 540 E 531 E 540 E 540 E 581 560	E 7,005 E 7,093 E 7,155 E 7,084 E 6,207 5,505	^R 2,361 ^{RE} 2,446 ^E 2,381 ^E 2,394 2,379 2,109	RE 9,366 RE 9,539 E 9,536 E 9,478 E 8,587 7,614	R 894 E 860 E 864 E 873 1,009 986	R 1,119 E 1,020 E 1,049 E 1,064 1,047 999	R 10,042 E 9,567 E 9,559 E 9,728 10,677 11,641	R 2,882 E 3,187 E 2,982 E 3,011 2,961 2,708	^R 7,160 ^E 6,380 ^E 6,577 ^E 6,717 7,717 8,933	R 185 E -599 E -211 E -195 290 -203	R 291 RE 211 E 271 E 259 340 337	R 18,646 E 18,609 E 18,509 E 18,587 18,410 19,072

^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."

"Adjustments." ^b Includes lease condensate. ^c Data for crude oil production, total field production, and adjustments are revised monthly going back as far as the data year of the U.S. Energy Information Administration's (EIA) last published *Petroleum Supply Annual (PSA)*—these revisions are released at the same time as EIA's *Petroleum Supply Monthly*. Once a year, data for these series are revised going back as far as 10 years—these revisions are released at the same time as the PSA. ^d United States excluding Alaska and Hawaii.

^d United States excluding Alaska and Hawaii. ^e Natural gas plant liquids. ^f See Note 6, "Petroleum Data Discrepancies," at end of section. ^g Renewable fuels and oxygenate plant net production. ^h Refinery and blender net production minus refinery and blender net inputs. See Table 3.2.

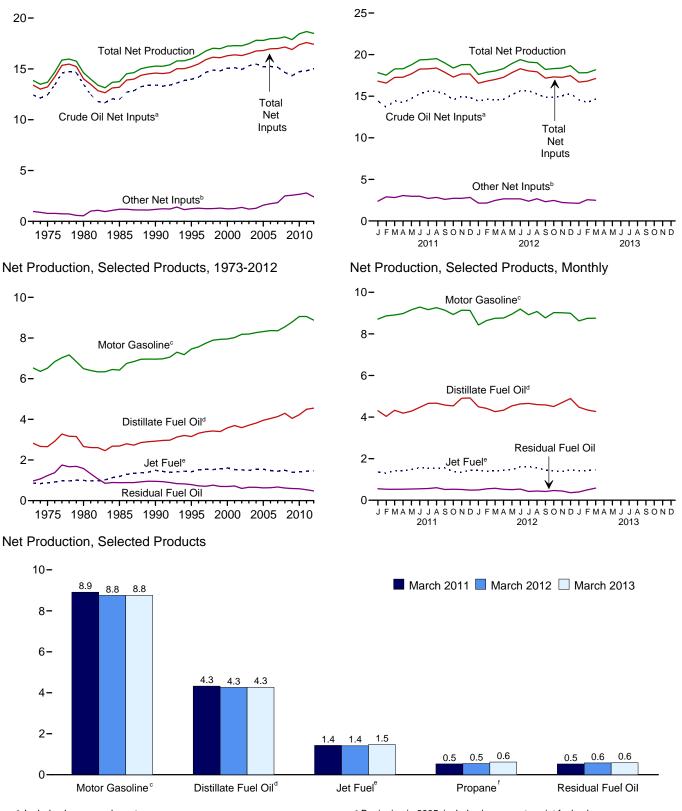
Includes Strategic Petroleum Reserve imports. See Table 3.3b.

ⁱ Includes Strategic Petroleum Reserve imports. See Table 3.3b.
 ^j Net imports equal imports minus exports.
 ^k 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.
 ⁱ An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See 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/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

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

Net Inputs and Net Production, 1973-2012

Net Inputs and Net Production, Monthly



^a Includes lease condensate.

^b Natural gas plant liquids and other liquids.

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

^d Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^e Beginning in 2005, includes kerosene-type jet fuel only.

f Includes propylene.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.2.

Table 3.2 Refinery and Blender Net Inputs and Net Production

(Thousand Barrels per Day)

	Refine	ery and Ble	nder Net I	nputsa			Refinery	and Blen	der Net Pro	auction		
							LPG	ic				
	Crude Oil ^d	NGPL ^e	Other Liquids ^f	Total	Distillate Fuel Oil ^g	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	12,442	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	13,409	467	713	14,589	2,925	1,488	404	499	6,959	950	2,452	15,272
1995 Average	13,973	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	721 601	2,651	17,285
2002 Average	14,947 15.304	429	791	16,316 16,513	3,592 3.707	1,514 1.488	572	658	8,183 8,194	660	2,712 2,780	17,273 17,487
2003 Average 2004 Average	15,304	419	866	16,762	3.814	1,400	584	645	8,194	655	2,780	17,407
2004 Average	15,220	422	1,149	16,811	3,954	1,547	540	573	8,318	628	2,782	17,800
2006 Average	15,242	501	1,238	16,981	4,040	1,481	543	627	8,364	635	2,827	17,975
2007 Average	15,156	505	1,337	16,999	4,133	1,448	562	655	8,358	673	2,728	17,994
2008 Average	14,648	485	2,019	17,153	4,294	1,493	519	630	8,548	620	2,561	18,146
2009 Average	14,336	485	2,082	16,904	4,048	1,396	537	623	8,786	598	2,431	17,882
2010 Average	14,724	442	2,219	17,385	4,223	1,418	560	659	9,059	585	2,509	18,452
2011 January	14.423	549	1,835	16,807	4,303	1,362	561	431	8,714	552	2,464	17,826
February	13,676	515	2,388	16,579	4,033	1,298	512	472	8,866	529	2,335	17,533
March	14,451	460	2,350	17,261	4,326	1,431	528	636	8,908	526	2,454	18,280
April	14,231	448	2,606	17,285	4,189	1,422	542	781	8,978	534	2,394	18,298
May	14,718	432	2,535	17,685	4,283	1,479	563	815	9,157	538	2,496	18,770
June	15,294	444	2,522	18,260	4,471	1,568	567	847	9,289	553	2,638	19,366
July	15,589	417	2,288	18,294	4,656	1,550	557	820	9,166	563	2,661	19,416
August	15,556	437	2,396	18,388	4,668	1,543	553	791	9,264	604	2,652	19,522
September	15,275	494	2,100	17,870	4,576	1,553	569	603	9,140	516	2,605	18,993
October	14,570	524	2,205	17,298	4,539	1,378	540	480	8,932	530	2,525	18,382
November	14,960	599	2,118	17,677	4,902	1,341	564	377	9,141	516	2,513	18,790
December Average	14,842 14,806	566 490	2,270 2,300	17,678 17,596	4,919 4,492	1,449 1,449	566 552	368 619	9,128 9,058	486 537	2,462 2,518	18,812 18,673
-						,						
2012 January	14,415	513	1,633	16,561	4,498	1,437 1,401	518	414 492	8,427 8.645	495 547	2,343	17,613
February	14,659 14,545	531 445	1,618 2.022	16,809 17,012	4,416 4,262	1,401	532 545	492 685	8,645	547 577	2,375 2.347	17,876 18.035
March April	14,545	443	2,022	17,272	4,202	1,412	558	833	8,763	525	2,347	18,035
May	15,177	443	2,213	17,833	4,537	1,468	569	856	8.952	509	2,430	18,922
June	15,632	442	2,222	18,297	4,632	1,609	585	841	9,193	538	2,582	19,396
July	15,656	435	1,944	18,036	4,659	1,611	565	841	8.921	420	2,644	19.096
August	15,259	435	2,239	17,932	4,599	1,559	543	777	9,079	443	2,577	19,034
September	14,863	522	1,794	17,179	4,584	1,450	522	553	8,770	420	2,450	18,226
October	14,854	620	1,846	17,320	4,509	1,418	543	476	9,026	467	2,421	18,318
November	15,054	624	1,591	17,269	4,702	1,378	550	366	9,016	445	2,480	18,387
December	15,320	642	1,513	17,475	4,890	1,463	579	384	8,993	364	2,568	18,662
Average	15,006	507	1,906	17,419	4,552	1,470	551	627	8,879	479	2,486	18,493
2013 January	^R 14,569	^R 541	^R 1,580	^R 16,690	^R 4,476	^R 1,421	^R 543	^R 417	^R 8,624	^R 399	^R 2,472	R 17,810
February	<u>⊧</u> 14,257	F 516	^{RE} 2,036	^{RF} 16,809	E 4,342	E 1,420	^{RE} 641	F 499	E 8,749	E 499	RE 2,321	RE 17,829
	E 14,648	F 468	E 2,014	F 17,131	E 4,269	E 1,475	E 617	F 679	E 8,755	E 583	E 2,419	E 18,180
3-Month Average	^E 14,499	^E 508	E 1,871	E 16,879	^E 4,363	^E 1,439	E 599	^E 533	E 8,708	^E 494	^E 2,407	E 17,943
2012 3-Month Average 2011 3-Month Average	14,537 14,200	496 508	1,760 2,184	16,793 16,892	4,391 4,227	1,417 1,366	532 534	531 514	8,607 8,828	539 536	2,355 2,420	17,841 17,891

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

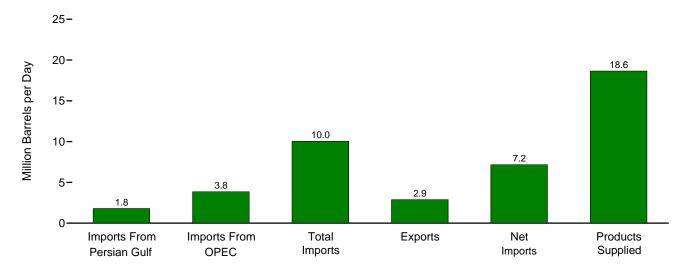
b See "Refinery and Blender Net Inputs, In Glossary.
 b See "Refinery and Blender Net Production," in Glossary.
 c Liquefied petroleum gases.
 d Includes lease condensate.
 e Natural gas plant liquids (liquefied petroleum gases and pentanes plus).
 f Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981, also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes oxygenates (net), including biodiesel).
 g Beginning in 2009, includes renewable diesel fuel (including biodiesel).
 g Beginning in 2009, includes renewable diesel fuel (including biodiesel).
 n Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type ist fuel only; naphtha-type jet fuel is included in "Other Products."
 i Includes propylene.
 j Einshed motor gasoline. Beginning in 1982, is the set of the set

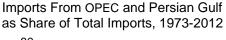
¹ Includes propylene. ^j Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

^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. R=Revised. E=Estimate. F=Forecast.
 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/betroleum/.
 Sources: • 1973-1975: Bureau of Mineral Industry Surveys, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1973: eureau of the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

Figure 3.3a Petroleum Trade: Overview

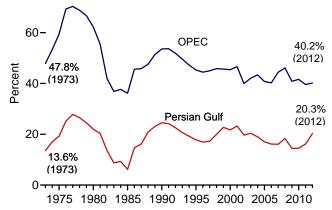
Overview, January 2013

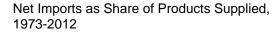


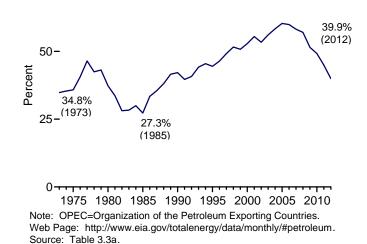




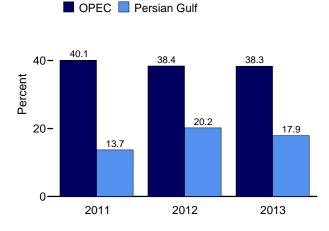
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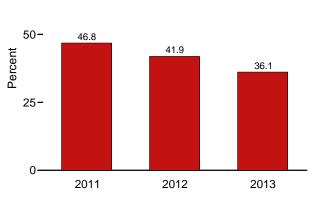




Imports From OPEC and Persian Gulf as Share of Total Imports, January



Net Imports as Share of Products Supplied, January-March



75-

60-

Table 3.3a Petroleum Trade: Overview

									are of Supplied			nare of mports
_	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	rrels per Day	/				Per	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
980 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
985 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
990 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
995 Average	1,573	4,002	0,035 9.478	949 981	7,000 8,498	18.309	8.8	22.0	49.0 51.8	44.5	16.9	45.3 44.4
996 Average	1,604	4,211	9,478 10,162	1.003	0,490 9,158	18,620	0.0 9.4	23.0	54.6	40.4	17.3	44.4
997 Average 998 Average	2,136	4,509	10,708	945	9,764	18,917	11.3	24.5	56.6	49.2 51.6	19.9	45.8
999 Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
000 Average	2,404	5,203	11,459	1.040	10.419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
001 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
002 Average	2,269	4,605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9
003 Average	2,501	5,162	12,264	1,027	11,238	20,034	12.5	25.8	61.2	56.1	20.4	42.1
2004 Average	2,493	5,701	13,145	1,048	12,097	20,731	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
007 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
008 Average	2,370	5,954	12,915	1,802	11,114	19,498	12.2	30.5	66.2	57.0	18.4	46.1
009 Average 010 Average	1,689 1,711	4,776 4,906	11,691 11,793	2,024 2,353	9,667 9,441	18,771 19,180	9.0 8.9	25.4 25.6	62.3 61.5	51.5 49.2	14.4 14.5	40.9 41.6
011 January	1.681	4.909	12,248	2.750	9.497	18.993	8.8	25.8	64.5	50.0	13.7	40.1
February	1,495	4,530	10,738	2,634	8,104	18,873	7.9	24.0	56.9	42.9	13.9	42.2
March	1,667	4,638	11,850	2,733	9,117	19,329	8.6	24.0	61.3	47.2	14.1	39.1
April	1,704	4,548	11,808	3,071	8,736	18,650	9.1	24.4	63.3	46.8	14.4	38.5
May	1,844	4,619	11,866	2,735	9,131	18,479	10.0	25.0	64.2	49.4	15.5	38.9
June	2,033	4,894	11,877	2,716	9,161	19,253	10.6	25.4	61.7	47.6	17.1	41.2
July	2,167	4,939	11,757	3,053	8,704	18,778	11.5	26.3	62.6	46.4	18.4	42.0
August	1,910	4,656	11,227	3,002	8,224	19,415	9.8	24.0	57.8	42.4	17.0	41.5
September	2,039	4,326	11,270	3,174	8,095	18,892	10.8	22.9	59.7	42.9	18.1	38.4
October	1,904	4,296	11,053	3,107	7,946	18,844	10.1	22.8	58.7	42.2	17.2	38.9
November	1,944	4,206	11,217	3,159	8,059	19,080	10.2	22.0	58.8	42.2	17.3	37.5
December	1,921	4,093	11,064	3,667	7,397	18,803	10.2	21.8	58.8	39.3	17.4	37.0
Average	1,861	4,555	11,504	2,986	8,518	18,949	9.8	24.0	60.7	44.9	16.2	39.6
012 January	2,208	4,203	10,944	2,839	8,104	18,280	12.1	23.0	59.9	44.3	20.2	38.4
February	1,948	3,986	10,464	2,980	7,484	18,760	10.4	21.2	55.8	39.9	18.6	38.1
March	2,222	4,314	10,610	3,064	7,547	18,213	12.2	23.7	58.3	41.4	20.9	40.7
April	2,228	4,394	10,634	3,263	7,370	18,330	12.2	24.0	58.0	40.2	21.0	41.3
May	2,560	4,672	11,132	3,194	7,939 8,184	18,707	13.7 12.6	25.0 24.4	59.5 60.2	42.4 43.3	23.0 20.9	42.0 40.5
June July	2,376 2,131	4,618 4,331	11,393 10,748	3,209 3,211	0,104 7,537	18,915 18,601	12.0	24.4	57.8	43.3 40.5	20.9	40.5
August	2,131	4,331	10,748	3,017	7,881	19,226	10.8	23.5	56.7	40.5	19.0	39.9
September	2.071	4.268	10,533	3,150	7,383	18,173	11.4	23.5	58.0	40.6	19.7	40.5
October	2,141	4,186	10,088	3,255	6,833	18,722	11.4	22.4	53.9	36.5	21.2	41.5
November	2,103	4,195	10,103	3,404	6,698	18,604	11.3	22.5	54.3	36.0	20.8	41.5
December	1,750	3,554	9,610	3,623	5,987	18,130	9.7	19.6	53.0	33.0	18.2	37.0
Average	2,151	4,256	10,596	3,184	7,412	18,555	11.6	22.9	57.1	39.9	20.3	40.2
013 January	^R 1,798	^R 3,850	R 10,042	R 2,882	^R 7,160	^R 18,646	^R 9.6	^R 20.6	^R 53.9	R 38.4	^R 17.9	R 38.3
February	NA	NA	E 9,567	E 3,187	E 6,380	E 18,609	NA	NA	E 51.4	E 34.3	NA	NA
March 3-Month Average	NA NA	NA NA	^E 9,559 ^E 9,728	E 2,982 E 3,011	^E 6,577 ^E 6,717	^E 18,509 E 18,587	NA NA	NA NA	E 51.6 E 52.3	E 35.5 E 36.1	NA NA	NA NA
2012 3-Month Average 2011 3-Month Average	2,130 1,618	4,172 4,698	10,677 11,641	2,961 2,708	7,717 8,933	18,410 19,072	11.6 8.5	22.7 24.6	58.0 61.0	41.9 46.8	19.9 13.9	39.1 40.4

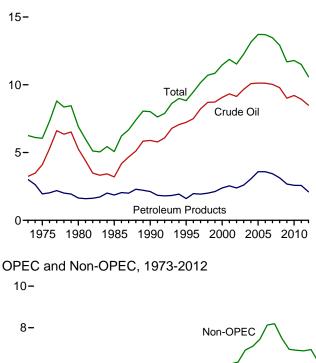
^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. See Table 3.3c for notes on which countries are included in the data.
 R=Revised. E=Estimate. 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 See Table 3.3b.
 Http://www.eia.gov/totalenergy/data/monthly/pdf/historical/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

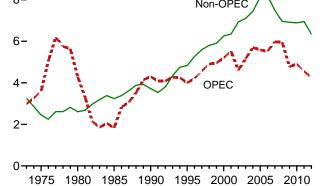
District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. 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. • 1981-2011: EIA, *Petroleum Supply Annual*, annual reports. • 2012 and 2013: EIA, *Petroleum Status Report* data system and *Monthly Energy Review* data system calculations.

Figure 3.3b Petroleum Trade: Imports

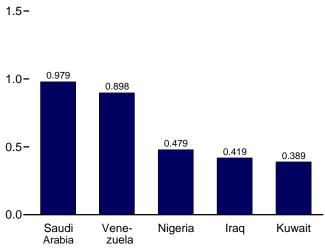
(Million Barrels per Day)



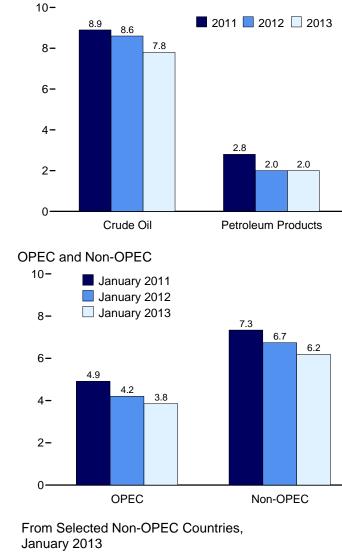






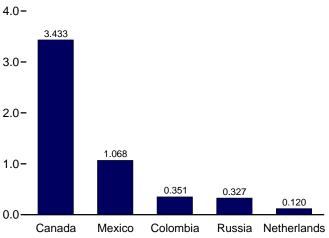


Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b-3.3d.



Crude Oil and Petroleum Products,

January-March



4.0-

Table 3.3b Petroleum Trade: Imports and Exports by Type

(Thousand Barrels per Day)

					Im	ports						Exports	;
	Cruc	le Oil ^a			LPG	b		_					
	SPR ^{c,d}	Total	Distillate Fuel Oil	Jet Fuel ^e	Propane ^f	Total	Motor Gasoline ^g	Residual Fuel Oil	Otherh	Total	Crude Oil ^a	Petroleum Products	Total
1973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2		231
1975 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
1980 Average 1985 Average	44 118	5,263 3.201	142 200	80 39	69 67	216 187	140 381	939 510	130 550	6,909 5.067	287	258 577	544 781
1990 Average	27	5.894	200	108	115	188	342	504	705	8.018	109	748	857
1995 Average	_	7,230	193	106	102	146	265	187	708	8,835	95	855	949
1996 Average	-	7,508	230	111	119	166	336	248	879	9,478	110	871	981
1997 Average	-	8,225	228	91	113	169	309	194	945	10,162	108	896	1,003
1998 Average	- 8	8,706	210 250	124 128	137 122	194 182	311 382	275 237	888 943	10,708	110	835 822	945 940
1999 Average 2000 Average	8	8,731 9.071	250	128	122	215	382 427	352	943 938	10,852 11,459	50		940 1.040
2000 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		984
2003 Average	-	9,665	333	109	168	225	518	327	1,087	12,264	12		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		1,165
2006 Average 2007 Average	8 7	10,118 10.031	365 304	186 217	228 182	332 247	475 413	350 372	1,881 1.885	13,707 13.468	25 27	1,292 1,405	1,317 1.433
2007 Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,433
2009 Average	56	9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,024
2010 Average	_	9,213	228	98	121	153	134	366	1,600	11,793	42		2,353
0044		0.400	007	05	005	000	100	444	4 000	10.040	70	0.070	0.750
2011 January	_	9,183 8,184	337 206	65 68	235 220	290 266	102 119	411 364	1,860 1,532	12,248 10,738	72 30		2,750 2,634
February March	_	9,183	190	65	205	260	135	378	1,639	11,850	36		2,034
April	_	8,839	191	80	141	177	138	424	1,959	11,808	41	3,031	3,071
May	-	9,059	170	91	118	160	137	306	1,942	11,866	37	2,698	2,735
June	-	9,235	127	82	115	160	130	353	1,789	11,877	36	2,680	2,716
July	-	9,276	157	95	115	157	92	246	1,733	11,757	73	2,980	3,053
August	_	8,936 8,914	148 179	66 58	123 141	167 176	106 99	231 277	1,573 1,567	11,227 11,270	34 35	2,969 3,139	3,002 3,174
September October	_	8,914 8,907	128	50 61	129	166	99 66	286	1,567	11,053	51	3,057	3,174
November	_	8,724	138	72	152	191	74	341	1,677	11,217	64	3.094	3,159
December	-	8,711	175	21	210	258	60	330	1,509	11,064	53	3,614	3,667
Average	-	8,935	179	69	158	202	105	328	1,686	11,504	47	2,939	2,986
2012 January	-	8,572	156	6	145	168	99	305	1,637	10,944	56		2,839
February	-	8,558	142	41	125	155	46	226	1,296	10,464	59	2,921	2,980
March	_	8,767 8,591	136 98	5 56	108 102	136 129	91 53	271 240	1,205 1,466	10,610 10,634	60 32	3,004 3,231	3,064 3,263
April May	_	8,909	90 111	50 49	102	218	53 60	240	1,400	11,132	69	3,231	3,203 3,194
June	-	9,101	87	42	133	170	66	325	1,602	11,393	46	3,163	3,209
July	-	8,606	113	48	148	182	52	247	1,501	10,748	77	3,134	3,211
August	-	8,631	110	124	142	186	37	233	1,577	10,898	60	2,957	3,017
September	-	8,375	84	84	149	191	35	256	1,507	10,533	58	3,092	3,150
October	_	8,091 8,130	88 189	106 46	135 136	176 156	26 32	219 236	1,382 1,314	10,088 10,103	67 73	3,188 3,331	3,255 3,404
November December	_	7,576	189	46 59	160	156	32 64	236	1,314	9,610	58	3,331	3,404 3,623
Average	-	8,491	125	55	138	171	55	249	1,449	10,596	60	3,125	3,184
2013 January	_	^R 7,953	^R 213	^R 46	^R 184	^R 207	40	^R 238	^R 1,345	^R 10,042	^R 73	^R 2,809	^R 2,882
February	_	E 7.617	E 176	E 48	E 147	NA	E 13	E 207	NA	E 9,567	E 44	E 3,143	E 3,187
March	-	^E 7,734	^E 155	E 19	E 112	NA	E 33	E 220	NA	E 9,559	^E 45	E 2,937	E 2,982
3-Month Average	-	^E 7,773	^E 182	^E 37	^E 148	NA	^E 29	E 222	NA	^E 9,728	^E 54	E 2,957	^E 3,011
2012 3-Month Average 2011 3-Month Average	-	8,634 8,872	145 246	17 66	126 220	153 272	80 119	268 385	1,381 1,682	10,677 11,641	58 47	2,902 2,661	2,961 2,708

Includes lease condensate.

 ^a Includes lease concensaue.
 ^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.
 ^e Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in ^a See Note 6, "Petroleum Data Discrepancies, at end or securor.
 ^e 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."
 ^f Includes propylene.
 ^g Through 1980, also includes motor gasoline.

¹ Includes propylene. ⁹ 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

naphtha-type jet fuel. R=Revised. E=Estimate. NA=Not available. - - =Not applicable. - =No data reported.

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/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/opetroleum/. 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. • 1981-2011: EIA, *Petroleum Supply Annual,* annual reports. • 2012 and 2013: 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.

Table 3.3c Petroleum Trade: Imports From OPEC Countries

(Thousand Barrels per Day)

	Algeria	Angolaa	Ecuador ^b	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Total OPEC
1973 Average	136	(a)	48	4	47	164	459	486	1,135	514	2,993
1975 Average	282	(a)	57	2	16	232	762	715	702	832	3,601
980 Average	488	(a)	27	28	27	554	857	1,261	481	577	4,300
985 Average	187	(a)	67	46	21	4	293	168	605	439	1,830
990 Average	280	(a)	49	518	86	0	800	1,339	1,025	199	4,296
1995 Average	234	(a)	(^b)	0	218	0	627	1,344	1,480	98	4,002
996 Average	256	(a)	(b)	1	236	0	617	1,363	1,676	62	4,211
997 Average	285	(a)	(b)	89	253	0	698	1,407	1,773	64	4,569
998 Average	290	(a)	(b)	336	301	0	696	1,491	1,719	73	4,905
1999 Average	259	(a)	(b)	725	248	0	657	1,478	1,493	93	4,953
2000 Average	225	(a)	(b)	620	272	0	896	1,572	1,546	72	5,203
2001 Average	278	(a)	(b)	795	250	0	885	1,662	1,553	105	5,528
2002 Average	264	(a)	(b)	459	228	0	621	1,552	1,398	83	4,605
2003 Average	382	(a)	(b)	481	220	0	867	1,774	1,376	61	5,162
2004 Average	452	(a)	(b)	656	250	20	1,140	1,558	1,554	70	5,701
2005 Average	478	(a)	(b)	531	243	56	1,166	1,537	1,529	47	5,587
2006 Average	657	(a)	(b)	553	185	87	1,114	1,463	1,419	38	5,517
2007 Average	670	508	(⊳)	484	181	117	1,134	1,485	1,361	39	5,980
2008 Average	548	513	221	627	210	103	988	1,529	1,189	26	5,954
2009 Average	493	460	185	450	182	79	809	1,004	1,063	50	4,776
2010 Average	510	393	212	415	197	70	1,023	1,096	988	3	4,906
2011 January	565	316	238	433	147	57	1,022	1,101	1,030	-	4,909
February	406	370	255	263	118	36	978	1,114	989	-	4,530
March	500	280	182	398	161	32	913	1,108	1,065	-	4,638
April	466	277	169	519	78	1	922	1,107	1,009	-	4,548
May	391	356	158	422	200	(s)	854	1,203	1,016	19	4,619
June	297	373	219	559	238	35	853	1,169	1,084	68	4,894
July	354	407	172	596	228	-	884	1,326	954	18	4,939
August	298	331	309	637	165	1	892	1,075	914	32	4,656
September	291	304	305	404	145	2	580	1,479	806	11	4,326
October	173	439	178	490	278	2	693	1,120	906	17	4,296
November	260	340	181	395	302	10	703	1,222	767	26	4,206
December	297	357	106	380	231	9	534	1,310	868	-	4,093
Average	358	346	206	459	191	15	818	1,195	951	16	4,555
2012 January	269	370	100	390	352	5	504	1,423	750	41	4,203
February	256	230	244	271	252	29	353	1,420	931	-	3,986
March	325	175	174	386	462	60	374	1,374	984	-	4,314
April	259	253	201	395	235	68	483	1,589	904	7	4,394
May	303	256	199	675	407	65	428	1,471	861	7	4,672
June	236	378	236	649	250	93	515	1,456	788	17	4,618
July	213	285	176	352	304	110	372	1,466	1,046	7	4,331
August	303	153	180	550	301	126	504	1,220	1,007	-	4,344
September	175	237	218	461	310	67	468	1,291	1,035	6	4,268
October	186	183	122	593	287	59	543	1,257	951	4	4,186
November	199	157	136	489	276	30	501	1,325	1,070	12	4,195
December	179	116	155	462	254	16	248	1,032	1,092	-	3,554
Average	242	232	178	474	308	61	441	1,359	952	8	4,256
2013 January	194	223	240	419	389	20	479	979	898	10	3.850

^a Angola joined OPEC in January 2007. For 1973-2006, Angola is included in

"Total Non-OPEC" on Table 3.3d. ^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 3.3d. ^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. (s)=Less than 500 barrels per day.
 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

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/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. 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. • 1981-2011: EIA, *Petroleum Supply Annual*, annual reports. • 2012 and 2013: EIA, *Petroleum Supply Monthly*, monthly reports.

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

(Thousand Barrels per Day)

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russia ^a	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
985 Average	61	770	23	816	58	32	8	310	247	913	3,237
990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
995 Average	8	1,332	219	1.068	15	273	25	383	278	1,233	4,833
996 Average	9	1,424	234	1,244	19	313	25	308	313	1,377	5,267
997 Average	5	1,563	271	1,385	25	309	13	226	300	1,495	5,593
998 Average	26	1,598	354	1,351	31	236	24	250	293	1,640	5,803
999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
001 Average	82	1,828	296	1,440	43	343	90	324	268	1,631	6,343
	116	1,971	260	1,547	45 66	393	210	478	236	1,649	6,925
002 Average	108	2,072	195	1,547	87	270	210	478	236		6,925 7,103
003 Average										1,766	
004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
006 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 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
009 Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
010 Average	272	2,535	365	1,284	108	89	612	256	253	1,112	6,887
011 January	263	3,004	355	1,366	101	85	558	155	276	1,176	7,338
February	179	2,997	258	1,103	129	69	437	110	179	749	6,209
March	165	2,819	427	1,319	91	156	690	198	149	1,198	7,211
April	228	2,755	548	1,077	133	167	704	193	179	1,275	7,260
May	298	2,564	433	1,303	129	101	684	245	194	1,296	7,247
June	283	2,586	309	1,222	175	93	689	146	151	1,330	6,983
July	330	2,691	418	1,197	80	58	564	175	192	1,113	6,818
August	239	2,688	395	1,185	81	87	585	125	185	1,001	6,571
September	190	2,880	529	1,192	64	97	592	124	189	1,087	6,943
October	190	2,719	578	1,177	23	180	687	150	151	902	6,757
November	245	2,858	424	1,256	96	174	737	125	177	918	7,011
December	417	3,009	508	1,064	101	88	552	162	214	857	6,971
Average	253	2,796	433	1,206	100	113	624	159	186	1,077	6,948
012 January	321	3.008	431	1,114	101	46	572	168	96	884	6,740
February	286	3,008	472	1,081	92	163	288	127	28	894	6,478
March	356	2,931	482	1,001	143	87	326	187	1	779	6,296
	237	2,931	402	1,004	84	51	320	204	12	858	6,239
April	237	2,931 3,018	472	996	84 121	95	388 550	204 143	12	858 891	6,239
May											,
June	297	3,051	515	915	151	82	655	205	(s)	904	6,775
July	257	2,973	397	1,007	137	47	491	131	1	976	6,417
August	289	3,022	409	1,016	91	90	368	197	-	1,072	6,554
September	152	2,815	357	1,096	75	63	562	109	-	1,036	6,264
October	90	2,683	376	1,062	69	67	552	117	3	882	5,902
November	107	2,843	465	1,065	72	80	445	126	-	704	5,908
December	85	3,131	379	1,016	52	36	523	144	-	690	6,056
Average	224	2,955	432	1,031	99	75	477	155	12	881	6,341
013 January	106	3,433	351	1,068	120	48	327	116	_	624	6,193

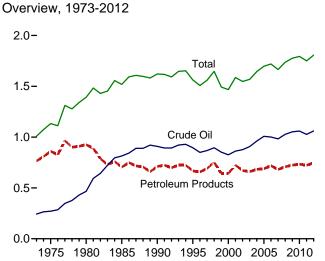
^a Through 1992, may include imports from republics other than Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary.
 – =No data reported. (s)=Less than 500 barrels per day.

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

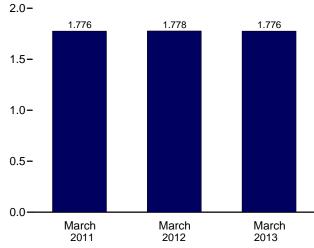
Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

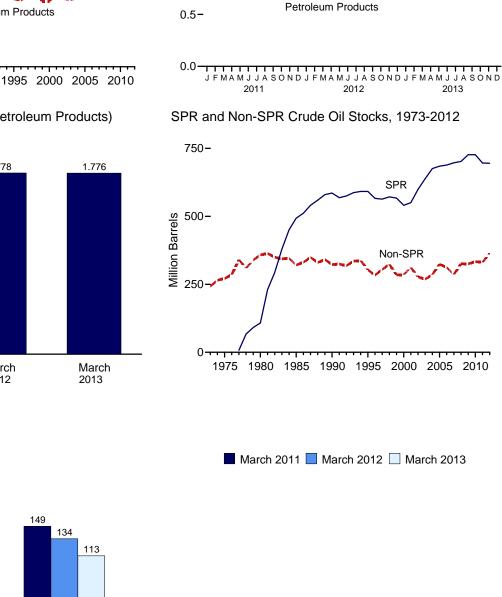
see http://www.eia.gov/petroleum/.
 Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012 and 2013: EIA, Petroleum Supply Monthly, monthly reports.

Petroleum Stocks Figure 3.4 (Billion Barrels, Except as Noted)



Total Stocks (Crude Oil and Petroleum Products)





Overview, Monthly

Total

Crude Oil

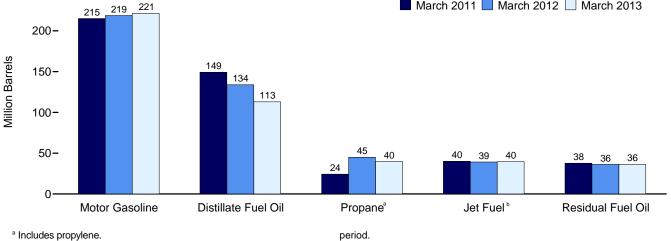
2.0-

1.5-

1.0-

Selected Products

250-



^b Includes kerosene-type jet fuel only. Notes: • SPR=Strategic Petroleum Reserve. • Stocks are at end of Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.4.

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oil ^a		Distillate	1-4	LPC	3 ^b	Matan	Desidual		
	SPRC	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	Otherk	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	493	321	814	144	40	39	74	223	50	174	1,519
1990 Year	586	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	567	284	852	125	41	43	89	193	36	157	1,493
2000 Year	541 550	286 312	826 862	118 145	45 42	41 66	83 121	196 210	36 41	164 166	1,468 1,586
2001 Year	599	278	877	145	42 39	53	106	209	31		1,560
2002 Year 2003 Year	599 638	278	877 907	134	39	53 50	94	209	31	152 147	1,548
2003 Year	676	289	961	126	39 40	55	94 104	207	42	147	1,500
2005 Year	685	324	1,008	136	40	57	104	208	37	157	1,698
2005 Year	689	312	1,000	144	39	62	113	212	42	169	1,030
2007 Year	697	286	983	134	39	52	96	218	39	156	1.665
2008 Year	702	326	1,028	146	38	55	113	210	36	162	1,737
2009 Year	727	325	1.052	166	43	50	102	223	37	153	1,776
2010 Year	727	333	1,060	164	43	49	108	219	41	158	1,794
2011 January	727	345	1,072	163	42	35	87	236	39	171	1,809
February	727	348	1,075	154	39	27	73	230	35	174	1,780
March	727	360	1,087	149	40	24	71	215	38	177	1,776
April	727	367	1,093	143	38	28	81	204	40	180	1,779
May	727	368	1,095	145	41	34	93	214	38	181	1,807
June	727	356	1,082	144	42	40	107	215	38	180	1,809
July	718	346	1,065	154	44	47	121	215	38	179	1,816
August	696	347	1,043	155	43	52	132	210	39	173	1,796
September	696	330	1,026	153	46	57	135	215	35	171	1,781
October	696	337	1,033	142	45	60	135	207	37	170	1,769
November	696	337	1,033	144	42	59	126	220	39	167	1,770
December	696	331	1,027	149	41	55	112	223	34	164	1,750
2012 January	696	340	1,036	149	42	48	101	235	34	175	1,772
February	696	347	1,043	139	41	43	96	231	36	179	1,765
March	696	368	1,064	134	39	45	102	219	36	184	1,778
April	696	377	1,073	125	40	50	116	211	34	179	1,777
May	696	386	1,082	122	40	56	133	205	33	179	1,794
	696	386	1,082	120	38	62	147	208	37	176	1,808
July	696	370	1,066	127	40	69	159	210	36	172	1,809
August	696	363 369	1,058	127	43 44	73 76	171 175	201	34 36	166	1,801
September	695 695	369	1,064 1,070	127 119	44 45	76 74	168	201 204	36 37	172 166	1,818 1,810
October November	695 695	375	1,070	119	45 41	74 73	158	204 215	37	166	1,810
December	695 695	379 365	1,074 1,060	135	39	68 68	141	2 15 231	30 34	167	1,809 1,807
2013 January	696	^R 378	^R 1,073	^R 131	^R 40	^R 56	121	234	^R 35	^R 177	^R 1,812
February	E 696	E 381	E 1,077	E 120	E 40	^E 46	^{RF} 106	E 228	E 36	^{RE} 175	E 1,782
March	E 696	E 389	E 1,085	E 113	E 40	E 40	F 103	E 221	E 36	E 178	E 1,776

a b Includes lease condensate.

^a includes lease contensate.
 ^b Liqued lease contensate.
 ^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."

 ^d All crude oil štocks 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.
 ^g Excludes stocks in the Northeast Heating Oil Reserve. 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 sene-type jet fuel only; naphtha-type jet fuel is included in "Other." Includes propylene.
 Includes finished motor gasoline and motor gasoline blending components;
 excludes oxygenates.
 K Agentia

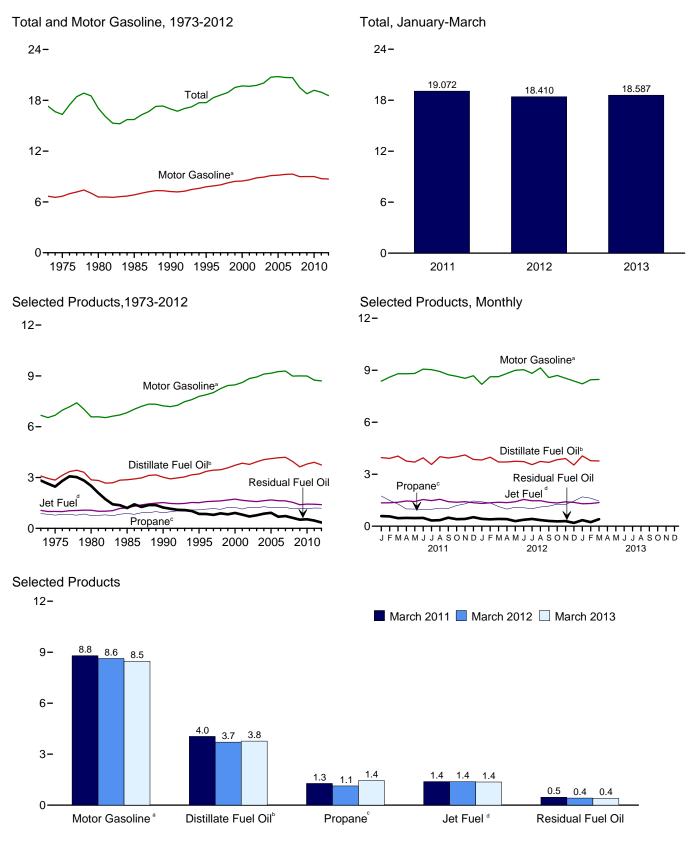
Asphalt and road oil, aviation gasoline, aviation gasoline blending

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

Beginning in 2005, and other hydrodarbons. Deginning 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

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/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.
 Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1981-2011: EIA, *Petroleum Supply Annual,* annual reports. • 2012 and 2013: EIA, *Petroleum Status, Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

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



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

^c Includes propylene.

^d Beginning in 2005, includes kerosene-type jet fuel only. Note: SPR=Strategic Petroleum Reserve.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.5.

Table 3.5 Petroleum Products Supplied by Type

(Thousand Barrels per Day)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPC	a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuelc	sene	Propaned	Total	cants	Gasoline ^e	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	419	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	486	21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725
1996 Average	484	20	3,365	1,578	62	1,136	2,012	151	7,891	379	848	1,518	18,309
1997 Average	505	22	3,435	1,599	66	1,170	2,038	160	8,017	377	797	1,605	18,620
1998 Average	521	19	3,461	1,622	78	1,120	1,952	168	8,253	447	887	1,508	18,917
1999 Average	547	21	3,572	1,673	73	1,246	2,195	169	8,431	477	830	1,532	19,519
2000 Average	525 519	20 19	3,722 3,847	1,725 1,655	67 72	1,235 1,142	2,231 2,044	166 153	8,472	406 437	909 811	1,458 1,481	19,701
2001 Average	519	19			43	1,142		153	8,610	437	700		19,649 19.761
2002 Average	503	16	3,776 3,927	1,614 1,578	43 55	1,240	2,163 2,074	140	8,848 8,935	463	700	1,474 1,579	20,034
2003 Average	537	17	4,058	1,630	64	1,215	2,074	140	9,105	524	865	1,657	20,034
2004 Average	546	19	4,038	1,630	70	1,270	2,132	141	9,105	515	920	1.605	20,731
2005 Average	521	18	4,110	1.633	54	1,229	2,030	137	9,159	522	689	1,605	20,602
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 Average	417	15	3.945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
2009 Average	360	14	3,631	1,393	18	1,160	2,051	118	8,997	427	511	1,251	18,771
2010 Average	362	15	3,800	1,432	20	1,160	2,173	131	8,993	376	535	1,343	19,180
2011 January	221	11	3,958	1,346	19	1,743	2,757	124	8,370	361	582	1,244	18,993
February	248	14	3,913	1,352	50	1,485	2,527	121	8,604	293	566	1,185	18,873
March	282	18	4,045	1,385	26	1,277	2,410	150	8,799	348	462	1,405	19,329
April	311	10	3,755	1,457	8	996	2,043	136	8,796	355	477	1,301	18,650
May	357	18	3,699	1,424	(s)	989	2,077	122	8,817	414	468	1,082	18,479
June	454	17	3,947	1,540	4	958	2,027	125	9,067	379	479	1,213	19,253
July	465	19	3,564	1,473	9	976	2,039	119	9,031	368	329	1,363	18,778
August	545	18	4,009	1,554	5	1,040	2,102	137	8,925	461	347	1,311	19,415
September	462 423	13 16	3,936	1,416	8 2	1,021	2,050	125 102	8,744 8.649	349 395	491 405	1,299	18,892 18.844
October	423 297	10	4,003 4,109	1,384 1,416	2	1,195 1,292	2,227 2.393	102	8,649 8.537	395	405	1,239 1.391	10,044
November December	187	12	3,853	1.353	12	1,292	2,393	124	8.683	229	519	1,228	18.803
Average	355	15	3,899	1,425	12	1,202	2,010 2,272	125	8,753	361	461	1,272	18,949
2012 January	216	12	3,823	1,313	2	1,406	2,463	129	8,187	367	420	1,349	18,280
February	218	11	3,980	1,350	23	1,343	2,421	139	8,622	297	394	1,306	18,760
March	236	14	3,706	1,382	2	1,134	2,226	111	8,633	323	416	1,163	18,213
April	329	14	3,704	1,359	3	986	2,069	122	8,817	338	408	1,166	18,330
May	378	17	3,745	1,409	1	1,095	2,152	116	8,996	376	294	1,224	18,707
June	454	13	3,729	1,545	2	1,064	2,072	107	9,035	372	372	1,214	18,915
July	461	20	3,552	1,468	2	1,008	2,120	104	8,819	338	418	1,298	18,601
August	485 444	13	3,740	1,469	1	1,110	2,190	111	9,135	409	353	1,320	19,226
September	444 369	15 14	3,681 3,838	1,379 1,341	3 3	1,157 1,273	2,224 2,388	103 110	8,575 8,700	357 319	302 279	1,090 1,361	18,173 18,722
October November	282	14	3,030	1,341	3	1,273	2,300	110	8,700	319	279	1,301	18,604
December	202	9	3,902	1,373	2	1,256	2,507	91	8,378	363	190	1,303	18,004
Average	340	14	3,743	1,399	4	1,191	2,270	113	8,703	354	345	1,271	18,555
2013 January	R 223	^R 11	^R 4,055	^R 1,297	^R 9	^R 1,693	^R 2,767	^R 127	^R 8,218	^R 369	^R 350	^R 1,220	^R 18,646
February	F_237	^{RF} _10	E 3,777	^E 1,310	^{RF} 30	E 1,620	F 2,611	^{RF} 121	E 8,451	F_310	^E 234	^{RE} 1,518	^E 18,609
March	[⊦] 257	F 12	^E 3,767	E 1,364	^F 24	E 1,447	F 2,389	F 121 E 123	E 8,469	F 351	E 402	E 1,353	E 18,509
3-Month Average	E 239	E 11	^E 3,869	^E 1,324	E 21	⊑ 1,586	E 2,588		^E 8,377	^E 344	^E 332	^E 1,359	E 18,587
2012 3-Month Average 2011 3-Month Average	223 250	12 14	3,833 3,974	1,348 1,361	8 31	1,293 1,502	2,369 2,566	126 132	8,477 8,591	330 335	410 536	1,272 1,281	18,410 19,072

^a Liquefied petroleum gases.

^a Liquetied petroleum gases.
 ^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 "Other." ^d Includes propylene. ^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blacked into motor gasoline.

⁶ Finished motor gasoline. Beginning in 1993, also includes tuel ethanol blended into motor gasoline. ⁷ 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. Performed E-fermate E-ference (b) and fuel burned as day and burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. (s)=Less than 500 barrels per day and greater than -500 barrels per day.

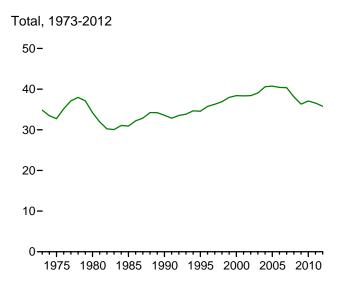
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

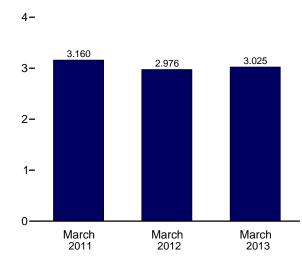
For all available data beginning in 1973, see Web Pages: http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information,

http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. 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. • 1981-2011: EIA, *Petroleum Supply Annual*, annual reports. • 2012 and 2013: EIA, *Petroleum Status Report data system*, Short-Term Integrated Eveneduations, *Surder Verlaum Surder Surder Surder*, Short-Term Integrated Eveneduations, Surder and Monthly. Exerce Survive data survers eveluations. Forecasting System, and Monthly Energy Review data system calculations.

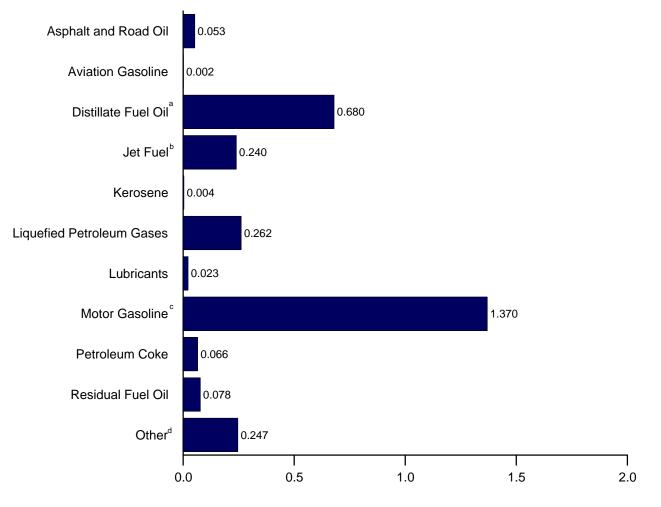
Figure 3.6 Heat Content of Petroleum Products Supplied by Type (Quadrillion Btu)

Total





By Product, March 2013



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

^b Includes kerosene-type jet fuel only.

[°] Includes fuel ethanol blended into motor gasoline.

^d All petroleum products not shown above. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.6.

Table 3.6 Heat Content of Petroleum Products Supplied by Type

(Trillion Btu)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	а	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuel ^c	sene	Propane ^d	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	45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,839	33,552
1995 Total	1,178	40	6,818	3,132	112	1,534	2,512	346	14,825	802	1,955	2,837	34,556
1996 Total	1,176	37	7,175	3,274	128	1,594	2,660	335	15,064	837	1,952	3,121	35,759
1997 Total	1,224 1,263	40 35	7,304 7,359	3,308 3,357	136 162	1,638 1,568	2,690 2,575	354 371	15,254 15,701	829 982	1,828 2,036	3,298 3,093	36,265 36,934
1998 Total 1999 Total	1,203	39	7,595	3,357	151	1,500	2,575	375	16,036	1,048	2,036	3,093	36,934
2000 Total	1,324	39	7,935	3,402	140	1,745	2,097	369	16,155	895	2,091	2,979	38,402
2000 Total	1,270	35	8.179	3,380	140	1,734	2,945	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
2003 Total	1,220	31	8.652	3,383	133	1.791	2,824	313	17,379	1,000	1,990	3,428	40,593
2005 Total	1,323	35	8,755	3,475	144	1,721	2,682	312	17,444	1,133	2,111	3,318	40,732
2006 Total	1,261	33	8,864	3,379	111	1,701	2,700	303	17,622	1,148	1,581	3,416	40,420
2007 Total	1,197	32	8,921	3,358	67	1.729	2,733	313	17,689	1,077	1,659	3,313	40,358
2008 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 Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,321
2010 Total	878	27	8,080	2,963	41	1,624	2,821	291	17,127	826	1,228	2,800	37,082
2011 January	45	2	715	237	3	207	304	23	1,354	67	113	227	3,091
February	46	2	638	215	8	159	254	20	1,257	49	100	190	2,779
March	58	3	730	243	5	152	265	28	1,423	65	90	250	3,160
April	62	2	656	248	1	115	216	25	1,377	64	90	224	2,965
May	73	3	668	250	(s)	118	226	23	1,426	77	91	194	3,032
June	90 96	3 3	690 644	262 259	1 2	110 116	214 222	23 22	1,419	68 69	90 64	209 245	3,070
July	112	3	044 724	259	2	124	222	22	1,461 1,444	86	68	245	3,086 3,201
August September	92	2	688	273	1	124	231	20	1,444	63	93	234	3,201
October	92 87	2	723	241	(s)	142	245	19	1,309	74	93 79	224	3,011
November	59	2	718	241	(3)	149	254	23	1,336	68	79	239	3.020
December	38	2	696	238	2	173	289	23	1,405	43	101	220	3.054
Total	859	27	8,289	2,950	25	1,682	2,937	276	16,670	794	1,058	2,676	36,562
2012 January	44	2	690	231	(s)	167	270	24	1,324	69	82	238	2,976
February	42	2	672	222	4	149	250	24	1,305	52	72	219	2,864
March	49	2	669	243	(s)	135	245	21	1,397	60	81	209	2,976
April	65	2	647	231	1	113	219	22	1,381	61	77	201	2,907
May	78	3	676	248	(S)	130	237	22	1,455	70	57	217	3,063
	90	2	652	263	(s)	122	218	19	1,415	67	70	211	3,008
July	95	3	641 675	258	(s)	120	230	20	1,427	63 76	81	232	3,051
August September	100 88	2 2	675 643	258 235	(s) (s)	132 133	239 236	21 19	1,478 1,343	76 64	69 57	233 190	3,152 2,877
October	00 76	2	693	235	(5)	155	230	21	1,343	64 60	57 54	241	2,877
November	56	2	682	230	1	145	203	21	1,408	69	56	241	2,939
December	42	1	637	239	(s)	143	281	17	1,356	68	37	259	2,939
Total	826	25	7,979	2,904	(3) 8	1,671	2,940	251	16,624	779	793	2,676	35,806
2013 January	_46	2	^R 732	^R 228	R 2	^R 201	^R _308	^R 24	^R 1,330	^R 69	^R 68	^R 218	^R 3,025
February	F 44	RF 1	^E 616	E 208	RF 5	E 174	F 259	F_21	E 1,235	F 52	E 41	RE 265	E 2,747
March	_ ^F 53	F2	_ ^E 680	E 240	_ ^F 4	^E 172	F 262	F 23	E 1,370	_ ^F 66	_ ^E 78	E 247	E 3,025
3-Month Total	^E 143	Ĕ5	^E 2,028	^E 676	^E 11	^E 547	^E 828	^E 67	E 3,935	^E 187	^E 188	^E 730	^E 8,797
2012 3-Month Total 2011 3-Month Total	135 150	6 7	2,032 2,083	696 695	4 16	452 519	765 823	69 72	4,026	181 182	235 303	666	8,815

 ^a Liquefied petroleum gases.
 ^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 "Cohor". "Other." d Includes propylene.

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

⁶ Finished motor gasoline. Beginning in 1993, also includes fuel emanor blended into motor gasoline. ⁶ 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 bill and these motion for the primer and according automatic aclassified as 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.

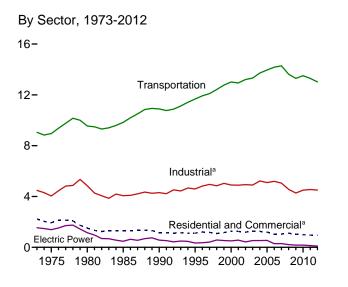
R=Revised. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

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," at end of section. • Totals may not equal sum of components due induced at several data several the construction of the Construction of the Section to independent rounding.

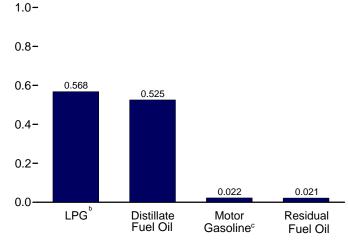
Geographic coverage is the 50 States and the District of Columbia.

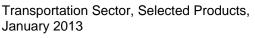
Web Pages:
 For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.
 For related information, see http://www.eia.gov/petroleum/.

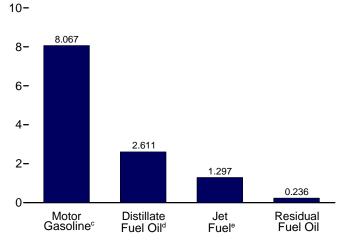
Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)











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

^b Liquefied petroleum gases.

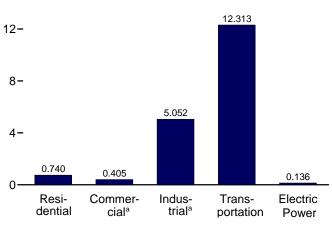
^c Includes fuel ethanol blended into motor gasoline.

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

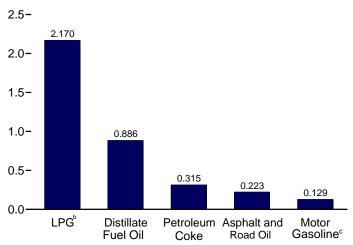
distillate fuel oil.

^e Includes kerosene-type jet fuel only.
 Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum.
 Sources: Tables 3.7a–3.7c.

By Sector, January 2013 16-



Industrial Sector,^a Selected Products, January 2013





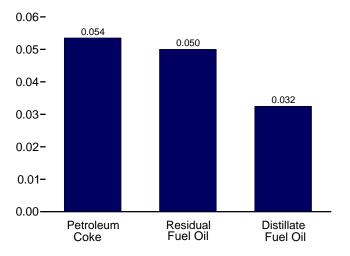


Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

(Thousand Barrels per Day)

	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	110	407	1.459	303	31	105	45	NA	290	774	
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653	
1980 Average	617	51	222	890	243	20	63	56	NA	245	626	
1985 Average	514	77	224	815	297	16	68	50	NA	99	530	
	460	31	252	742	252	6	73	58	0	100	489	
1990 Average	400	36	282	742	232	11	78	10	-	62	385	
1995 Average	420	43	334	811	225	10	87	10	(s)	60	385	
1996 Average	434	43 45	325	781	209	10	86	22	(s)	48	397	
1997 Average		40 52	303		209	12	84	22	(s)	40 37	370	
1998 Average	363			718					(s)	÷.		
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 Average	354	10	394	758	181	2	113	24	(s)	31	351	
2009 Average	276	13	391	680	188	2	99	28	(s)	31	348	
2010 Average	266	14	379	659	184	2	100	28	(s)	27	342	
2011 January	351	14	^R 439	^R 803	278	2	127	23	(s)	33	464	
February	368	36	R 402	^R 806	292	6	116	23	(s)	35	473	
March	251	19	R 384	^R 654	199	3	111	24	(s)	24	361	
April	173	6	R 325	^R 504	137	1	94	24	0	16	273	
May	114	(s)	R 331	^R 445	90	(s)	96	24	ŏ	11	221	
June	177	3	R 323	R 503	140	(0)	93	25	Ő	17	276	
July	158	7	R 325	^R 489	125	1	94	25	ő	15	260	
August	216	4	R 335	R 555	172	1	97	24	Ő	20	314	
September	237	6	R 326	^R 569	188	1	94	24	0	22	329	
October	257	1	^R 354	^R 613	204	(s)	^R 103	24	0	24	354	
November	295	4	^R 381	^R 680	204	(5)	110	24		24	396	
	295 380	4 9	^R 416	R 805	302	2	120	23 24	(s) (s)	20 36	483	
December	247	9	R 362	R 618	196	2	105	24		23	463 350	
Average	247	9	302	010	190	2	105	24	(s)	23	350	
2012 January	395	1	^R 392	^R 789	314	(s)	113	22	(s)	29	479	
February	332	17	^R 385	^R 734	264	3	111	^R 23	(s)	24	426	
March	270	1	^R 354	^R 625	214	(s)	^R 103	^R 23	(s)	20	360	
April	197	2	^R 329	^R 529	157	(s)	95	24	(s)	14	291	
May	196	(s)	R 343	^R 539	155	(s)	99	^R 24	0	14	293	
June	203	1	R 330	^R 534	161	(s)	95	25	ō	15	296	
July	189	2	R 337	^R 528	150	(s)	98	24	(s)	14	286	
August	238	1	R 349	R 587	189	(s)	101	25	(S)	17	332	
September	191	2	R 354	^R 547	152	(s)	102	23	(s)	14	292	
October	170	2	^R 380	^R 552	132	(s)	110	23	(s)	14	281	
November	224	2	^R 377	R 603	178	(s) (s)	109	24	(s) (s)	12	327	
December	248	2	R 404	R 655	197	(s) (s)	109	23	(s) (s)	18	R 355	
			R 361	R 602			^R 105					
Average	238	3	301	002	189	(s)	0105	24	(s)	17	335	
2013 January	293	7	441	740	232	1	127	22	(s)	21	405	

^a Commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
 ^b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline. R=Revised NA=Not constitution.

R=Revised. NA=Not available. (s)=Less than 500 barrels per day and greater than -500 barrels per day. 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/totalenergy/data/monthly/#petroleum for all available data beginning in 1973.

Table 3.7b Petroleum Consumption: Industrial Sector

(Thousand Barrels per Day)

	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			
	Itoad Oli	T del Oli	Rerosene	Gases	Lubricants	Gasonne	OOKC	i dei oli	other	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	84	97	325	179	1,373	4,304			
1995 Average	486	532	7	1.527	80	105	328	147	1,381	4,594			
1996 Average	484	557	9	1,580	78	105	343	146	1,518	4,819			
1997 Average	505	566	9	1,617	82	111	331	127	1,605	4,953			
1998 Average	521	570	11	1,553	86	105	390	100	1,508	4,844			
1999 Average	547	558	6	1,709	87	80	426	90	1,532	5,035			
2000 Average	525	563	8	1.720	86	79	361	105	1,458	4,903			
2001 Average	519	611	11	1,557	79	155	390	89	1,481	4.892			
	519	566	7	1,668	79	163	383	83	1,474	4,892			
2002 Average	503	500	12		70	171	303	03 96		4,934			
2003 Average				1,561					1,579				
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 Average	417	637	2	1,419	67	131	394	84	1,408	4,559			
2009 Average	360	508	2	1,541	61	128	363	57	1,251	4,272			
2010 Average	362	547	4	1,673	68	140	310	52	1,343	4,500			
2011 January	221	711	3	^R 2.162	64	^R 131	275	76	1.244	^R 4.887			
February	248	601	7	R 1,981	62	R 135	218	74	1,185	^R 4.512			
March	282	751	4	^R 1,890	77	^R 138	266	60	1.405	^R 4,871			
April	311	568	1	^R 1.602	70	^R 138	302	61	1,301	^R 4.353			
May	357	557	(s)	R 1,629	63	R 138	359	60	1,082	R 4,246			
June	454	580	(3)	^R 1.589	64	^R 142	309	61	1,213	R 4.414			
	465	344	1	^R 1,599	61	R 142	287	39	1,363	R 4,301			
July		• • •	1	^R 1.648	70	^R 140	388	42		^R 4,301			
August	545	546							1,311				
September	462	570	1	^R 1,607	64	R 137	276	63	1,299	^R 4,480			
October	423	599	(s)	^R 1,746	53	^R 136	343	52	1,239	^R 4,590			
November	297	704	1	^R 1,876	64	^R 134	336	53	1,391	^R 4,855			
December	187	487	2	^R 2,051	57	^R 136	173	66	1,228	^R 4,388			
Average	355	584	2	^R 1,781	64	^R 137	295	59	1,272	^R 4,549			
2012 January	216	637	(s)	^R 1,931	66	^R 129	303	53	1,349	^R 4,684			
February	218	781	3	^R 1.898	71	^R 135	242	51	1,306	^R 4,706			
March	236	581	(s)	^R 1,746	57	^R 136	292	54	1,163	R 4,265			
April	329	569	(s)	R 1.623	63	R 138	311	53	1,166	R 4.253			
May	378	553	(s)	R 1,687	59	R 141	343	38	1,224	R 4,424			
June	454	479	(s)	^R 1,625	55	^R 142	336	46	1,214	R 4,350			
	461	367	(s) (s)	^R 1,662	54	^R 138	298	40 52	1,214	^R 4,330			
July				^R 1,717	54 57	^R 143		52 44		^R 4,330			
August	485	421	(s)			^R 135	368		1,320				
September	444	522	(s)	^R 1,744	53		314	38	1,090	^R 4,340			
October	369	648	(s)	^R 1,873	57	^R 137	283	35	1,361	^R 4,763			
November	282	708	(s)	^R 1,856	60	^R 134	341	37	1,303	^R 4,722			
December	206	489	(s)	^R 1,992	47	^R 132	325	22	1,448	^R 4,661			
Average	340	562	1	^R 1,780	58	^R 137	313	44	1,271	^R 4,504			
2013 January	223	886	1	2.170	65	129	315	43	1,220	5.052			

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

^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 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.

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

day. 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/totalenergy/data/monthly/#petroleum for all available data beginning in 1973.

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

(Thousand Barrels per Day)

				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 Oil ^e	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 Average	45	1,045	1,042	35	74	6,496	317	9,054	129	7	1,406	1,542
1975 Average	39	998	992	31	70	6,512	310	8,951	107	1	1,280	1,388
1980 Average	35	1,311	1.062	13	77	6.441	608	9.546	79	2	1.069	1,151
1985 Average	27	1,491	1,002	21	71	6,667	342	9,838	40	3	435	478
1990 Average	24	1,722	1,522	16	80	7,080	443	10,888	45	14	507	566
1995 Average	24	1,973	1,522	13	76	7,674	397	11,668	51	37	247	334
1996 Average	20	2.096	1,578	11	73	7,772	370	11,921	51	36	273	360
1997 Average	22	2,198	1,599	10	78	7.883	310	12.099	52	46	311	410
1998 Average	19	2,150	1,622	13	81	8.128	294	12,033	64	56	456	576
1999 Average	21	2,205	1,673	10	82	8,336	294	12,765	66	51	418	535
2000 Average	20	2,332	1,725	8	81	8,370	386	13.012	82	45	378	505
2000 Average	19	2,422	1,655	10	74	8.435	255	12,938	80	47	437	564
2001 Average	18	2,405	1,614	10	73	8.662	295	13,208	60	80	287	427
2002 Average	16	2,550	1,578	10	68	8,733	295	13,200	76	79	379	534
2004 Average	17	2,783	1,630	14	69	8,887	321	13,720	52	101	382	535
2005 Average	19	2.858	1,679	20	68	8.948	365	13,957	54	111	382	547
2006 Average	18	3,017	1,633	20	67	9,029	395	14,178	35	97	157	289
2007 Average	17	3,037	1,633	16	69	9,023	433	14,287	42	78	173	203
2008 Average	15	2,738	1,539	29	64	8,834	402	13,621	34	70	104	209
2009 Average	14	2,626	1,393	20	57	8.841	344	13,296	33	63	79	175
2010 Average	15	2,765	1,432	21	64	8,824	389	13,509	38	65	67	170
Loto Atorago	10	2,700	1,402		04		000	,			01	
2011 January	11	2,575	1,346	R 29	60	^R 8,216	417	^R 12,655	43	85	56	184
February	14	2,620	1,352	R 27	59	^R 8,446	421	^R 12,938	33	75	37	144
March	18	2,816	1,385	^R 26	73	^R 8,637	342	^R 13,295	29	82	37	147
April	10	2,844	1,457	R 22	66	^R 8,634	354	^R 13,387	33	54	46	133
May	18	2,907	1,424	R 22	59	^R 8,655	355	^R 13,440	31	55	41	128
June	17	3,019	1,540	R 22	61	^R 8,900	358	^R 13,916	32	70	43	145
July	19	2,901	1,473	R 22	58	^R 8,865	223	^R 13,559	36	81	52	169
August	18	3,048	1,554	R 22	67	^R 8,761	240	^R 13,711	26	73	44	143
September	13	2,918	1,416	R 22	61	^R 8,583	372	^R 13,384	24	73	33	130
October	16	2,921	1,384	^R 24	50	^R 8,489	297	^R 13,180	24	52	32	107
November	12	2,852	1,416	^R 26	60	^R 8,380	306	^R 13,052	25	40	32	97
December	10	2,656	1,353	R 28	54	^R 8,523	386	^R 13,011	28	56	31	116
Average	15	2,841	1,425	^R 24	61	^R 8,592	338	^R 13,295	30	66	41	137
2012 January	12	2,451	1,313	^R 26	62	^R 8,036	304	^R 12,205	26	63	34	123
February	11	2,580	1,350	^R 26	67	^R 8,463	291	^R 12,788	23	55	27	105
March	14	2,623	1,382	^R 24	54	^R 8,474	314	^R 12,883	19	31	29	79
April	14	2,755	1,359	^R 22	59	^R 8,655	312	^R 13,177	26	27	28	80
May	17	2,812	1,409	^R 23	56	^R 8,830	214	^R 13,360	29	33	29	91
June	13	2,858	1,545	^R 22	52	^R 8,868	266	^R 13,624	29	37	45	111
July	20	2,818	1,468	^R 23	51	^R 8,657	299	^R 13,336	28	40	53	121
August	13	2,870	1,469	^R 23	54	^R 8,966	253	^R 13,649	23	41	39	102
September	15	2,794	1,379	^R 24	50	^R 8,417	220	^R 12,899	22	43	30	94
October	14	2,861	1,341	^R 25	54	^R 8,540	200	^R 13,034	24	36	32	92
November	11	2,768	1,407	R 25	56	^R 8,381	213	^R 12,861	24	39	28	91
December	9	2,573	1,373	^R 27	44	^R 8,224	121	^R 12,372	22	38	28	88
Average	14	2,730	1,399	^R 24	55	^R 8,543	250	^R 13,016	25	40	34	98
2013 January	11	2.611	1,297	30		8.067			32			

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS Determine the twice of the twice of the twice of the twice of twice of

^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. R=Revised.

R=Revised. 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 Peace: See bit://www.eia.gov/trienpency/diffuent/claum for all

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973.

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

Residential and Commercial Sectors,^a 1973-2012 Residential and Commercial Sectors,^a Monthly 0.20-3-Distillate 0.15 -Fuel Oil 2-Distillate Fuel Oil 0.10-Residual 1-Fuel Oil 0.05-LPG[♭] LPG Kerosene **Residual Fuel Oil** 0-0.00 ···· тп 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 2010 2011 2012 2013 Industrial Sector,^a 1973-2012 Industrial Sector,^a Monthly 0.3-2.5-LPG[♭] Distillate Fuel Oil 2.0-LPG^t 0.2 1.5 1.0 0.1 Asphalt and **Distillate Fuel Oil** Road Oil 0.5-Asphalt and Road Oil 0.0-----0.0 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 2010 2011 2012 2013 Transportation Sector, 1973-2012 Transportation Sector, Monthly 20-1.8-Motor Gasoline^c 15-Motor Gasoline^c 1.2-10-0.6-Distillate Fuel Oild Distillate Fuel Oild 5-Jet Fuel® Jet Fuel^e 0 0.0 1975 1980 1985 1990 1995 2000 2005 2010 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 2011 2012 2013 diesel) blended into distillate fuel oil. ^a Includes combined-heat-and-power plants and a small number of e Beginning in 2005, includes kerosene-type jet fuel only.

electricity-only plants. ^b Liquefied petroleum gases.

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

^d Beginning in 2009, includes renewable diesel fuel (including bio-

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum.

Sources: Tables 3.8a-3.8c.

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

1973 Total 1975 Total 1975 Total 1980 Total 1980 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1997 Total 1998 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total	Distillate Fuel Oil 2,003 1,807 1,316 1,992 978 905 926 874 772 828 905 908 860 905	Kerosene 227 161 107 159 64 74 89 93 108 111 95 95	Liquefied Petroleum Gases 570 512 311 314 352 395 469 455 424	Total 2,800 2,479 1,734 1,565 1,394 1,374 1,484	Distillate Fuel Oil 644 587 518 631 536	Kerosene 65 49 41 33	Liquefied Petroleum Gases 147 129 88	Motor Gasoline ^b 87 89 107	Petroleum Coke NA NA NA	Residual Fuel Oil 665 492 565	Total 1,607 1,346 1,318
1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1997 Total 1997 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2006 Total	1,807 1,316 1,092 978 905 926 874 772 828 905 908 860 905	161 107 159 64 74 89 93 108 111 95	512 311 314 352 395 469 455 424	2,479 1,734 1,565 1,394 1,374	587 518 631	49 41	129 88	89 107	NA	492	1,346
1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1997 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total	1,316 1,092 978 905 926 874 772 828 905 908 860 905	107 159 64 74 89 93 108 111 95	311 314 352 395 469 455 424	2,479 1,734 1,565 1,394 1,374	518 631	41	88	107			1,346
1980 Total 1985 Total 1990 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	1,316 1,092 978 905 926 874 772 828 905 908 860 905	159 64 74 89 93 108 111 95	311 314 352 395 469 455 424	1,734 1,565 1,394 1,374	518 631	41					
1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total	978 905 926 874 772 828 905 908 860 905	64 74 89 93 108 111 95	352 395 469 455 424	1,565 1,394 1,374		33					1.310
1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2003 Total 2004 Total 2005 Total 2006 Total	978 905 926 874 772 828 905 908 860 905	64 74 89 93 108 111 95	352 395 469 455 424	1,394 1,374			95	96	NA	228	1.083
1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total	905 926 874 772 828 905 908 860 905	74 89 93 108 111 95	395 469 455 424	1,374		12	102	111	0	230	991
1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2005 Total 2005 Total	926 874 772 828 905 908 860 905	89 93 108 111 95	469 455 424		479	22	109	18	(s)	141	769
1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2003 Total 2004 Total 2005 Total 2005 Total 2005 Total 2005 Total 2005 Total	874 772 828 905 908 860 905	93 108 111 95	455 424		483	21	122	27	(s)	137	790
1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2004 Total 2004 Total 2005 Total 2005 Total 2006 Total	772 828 905 908 860 905	108 111 95	424	1,422	444	25	120	43	(s)	111	743
1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2004 Total 2005 Total 2005 Total 2005 Total	828 905 908 860 905	111 95		1,304	429	31	118	39	(s)	85	702
2000 Total	905 908 860 905	95	526	1,465	438	27	140	28	(s)	73	707
2001 Total	908 860 905		555	1,554	491	30	150	45	(s)	92	807
2002 Total 2003 Total 2004 Total 2005 Total 2006 Total	860 905		526	1,529	508	31	143	37	(s)	70	790
2003 Total 2004 Total 2005 Total 2006 Total	905	60	537	1,457	444	16	141	45	(s)	80	726
2004 Total 2005 Total 2006 Total		70	544	1,519	481	19	157	60	(s)	111	828
2005 Total 2006 Total	924	85	512	1,520	470	20	152	45	(s)	122	810
2006 Total	854	84	513	1.451	447	22	131	46	(s)	116	762
	712	66	446	1.224	401	15	123	49	(s)	75	664
	726	44	484	1,254	384	9	121	61	(s)	75	651
2008 Total	756	21	553	1,330	387	4	158	46	(s)	71	666
2009 Total	587	28	547	1,161	399	4	139	53	(s)	71	667
2010 Total	566	29	530	1,126	392	5	140	53	(s)	62	652
									(-)		
2011 January	63	2	^R 52	^R 118	50	(s)	15	4	(s)	6	76
February	60	6	R 43	^R 109	48	1	12	3	(s)	6	71
March	45	3	^R 46	^R 94	36	1	13	4	(s)	5	58
April	30	1	R 37	^R 69	24	(s)	11	4	0	3	42
May	21	(s)	R 39	^R 60	16	(s)	11	4	0	2	34
June	31	1	R 37	^R 69	25	(s)	11	4	0	3	42
July	29	1	^R 39	^R 68	23	(s)	11	4	0	3	41
August	39	1	^R 40	^R 80	31	(s)	12	4	0	4	51
September	41	1	R 38	^R 80	33	(s)	11	4	0	4	52
October	46	(s)	^R 42	^R 89	37	(s)	12	4	0	5	58
November	51	1	R 44	^R 96	41	(s)	13	4	(s)	5	63
December	69	2	^R 50	^R 120	54	(s)	14	4	(s)	7	80
Total	526	19	^R 506	^R 1,051	417	3	146	45	(s)	54	666
2012 January	71	(s)	^R 47	^R 118	57	(s)	13	4	(s)	6	79
February	56	3	^R 43	^R 102	45	(s)	12	4	(s)	4	65
March	49	(s)	R 42	^R 91	39	(s)	12	4	(s)	4	59
April	34	(s)	^R 38	^R 73	27	(s)	11	4	(s)	3	45
May	35	(s)	^R 41	^R 76	28	(s)	12	4	0	3	47
June	35	(s)	^R 38	^R 74	28	(s)	11	4	Ō	3	46
July	34	(s)	R 40	^R 75	27	(s)	12	4	(s)	3	45
August	43	(s)	^R 41	^R 85	34	(s)	12	4	(s)	3	54
September	33	(s)	^R 41	^R 75	27	(s)	12	4	(s)	3	45
October	31	(s)	^R 45	^R 76	24	(s)	13	4	(s)	2	44
November	39	(s)	R 43	^R 83	31	(s)	13	4	(s)	3	50
December	45	(s)	R 48	^R 93	36	(s)	14	4	(s)	4	57
Total	507	6	R 507	^R 1,020	402	1	147	45	(s)	40	635
2013 January	53	1	52	106	42						

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

blended into motor gasoline.

R=Revised. 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 3.6. Petroleum products supplied is an approximation or 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/totalenergy/data/monthly/#petroleum for all evalidable data baceinging in 1073

available data beginning in 1973.

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

	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 Total	1.264	1,469	156	1,215	195	255	558	1.858	2,114	9.083			
1975 Total	1,204	1,339	119	1,123	149	233	540	1,509	2,114	8,127			
	962	1,339	181	1,559	149	158	516	1,349	3,278	9,509			
1980 Total 1985 Total	1,029	1,324	44	1,664	166	218	575	748	2,152	7,714			
1990 Total	1,029	1,1150	12	1,582	186	185	714	411	2,839	8.251			
1995 Total	1,178	1,130	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 Total	1,012	1,359	4	1,823	150	250	868	194	2,941	8,600			
2009 Total	873	1,081	4	1,950	135	244	799	130	2,611	7,826			
2010 Total	878	1,163	7	2,121	149	267	682	120	2,800	8,188			
2011 January	45	128	(s)	^R 234	12	21	51	15	227	^R 734			
February	46	98	1	^R 195	11	20	37	13	190	^R 611			
March	58	136	1	^R 203	14	22	50	12	250	^R 745			
April	62	99	(s)	^R 165	13	^R 22	55	12	224	^R 651			
May	73	101	(s)	^R 173	12	22	67	12	194	^R 654			
June	90	101	(s)	^R 164	12	22	56	12	209	^R 666			
July	96	62	(s)	^R 170	11	23	54	8	245	^R 668			
August	112	99	(s)	^R 177	13	^R 23	73	8	234	^R 739			
September	92	100	(s)	^R 165	12	21	50	12	224	^R 676			
October	87	108	(s)	^R 187	10	22	64	10	220	^R 709			
November	59	123	(s)	^R 195	12	21	61	10	239	^R 719			
December	38	88	(s)	^R 221	11	22	32	13	220	^R 646			
Total	859	1,242	4	^R 2,250	142	^R 262	648	135	2,676	^R 8,218			
2012 January	44	115	(s)	^R 207	12	21	57	10	238	^R 705			
February	42	132	1	^R 192	13	20	42	9	219	^R 670			
March	49	105	(s)	^R 188	11	22	55	10	209	^R 648			
April	65	99	(s)	^R 167	11	22	56	10	201	R 633			
May	78	100	(s)	^R 181	11	23	64	7	217	^R 682			
June	90	84	(s)	^R 166	10	22	61	9	211	^R 653			
July	95	66	(s)	^R 176	10	22	56	10	232	^R 667			
August	100	76	(s)	^R 183	11	23	69	9	233	^R 703			
September	88	91	(s)	^R 180	10	21	57	7	190	^R 644			
October	76	117	(s)	^R 202	11	22	53	7	241	^R 729			
November	56	124	(s)	^R 193	11	21	62	7	225	^R 699			
December	42	88	(s)	^R 215	9	21	61	4	259	^R 700			
Total	826	1,197	ີ 1	^R 2,252	129	^R 261	690	100	2,676	^R 8,133			
2013 January	46	160	(s)	237	12	21	59	8	218	761			

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

^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 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.

R=Revised. (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 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/totalenergy/data/monthly/#petroleum for all available data beginning in 1973. Sources: See end of section.

		(11110111	,						1			
				Transporta	tion Secto	r		1	E	lectric Po	wer 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 Oil ^e	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	12,485	711	17,615	226	2	2,937	3,166
1980 Total	64	2,795	2,179	18	172	12,383	1,398	19,009	169	5	2,459	2,634
1985 Total	50	3,170	2,497	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 37	4,195 4.469	3,132	18 16	168 163	14,607	911 851	23,070	108 109	81 80	566 628	755 817
1996 Total	37 40	4,469	3,274 3,308	16	163	14,837 14.999	712	23,648 23.918	109	80 102	628 715	817 927
1997 Total 1998 Total	40 35	4,672	3,308	14	180	15,463	674	23,910	136	102	1.047	1.306
1999 Total	39	5.001	3,357	10	182	15,403	665	24,558	140	112	959	1,300
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 Total	28	5,837	3,193	40	141	16,872	926	27,038	73	154	240	468
2009 Total	27	5,583	2,883	28	127	16,838	791	26,277	70	139	181	390
2010 Total	27	5,879	2,963	29	141	16,807	892	26,738	80	144	154	378
2011 January	2	465	237	3	11	1,329	81	^R 2,129	8	16	11	35
February	2	427	215	3	10	1,234	74	1,965	5	13	6	24
March	3	509	243	_ 3	14	1,397	67	2,235	5	15	7	28
April	2	497	248	R 3	12	1,352	67	2,179	6	10	9	24
May	3	525	250	R 3	11	1,400	69	2,261	6	10	8	24
June	3	528	262	2	11	1,393	67	2,266	6	13	8	26
July	3	524	259	R 3 R 3	11	1,434	43	2,276	7	15	10	32
August	3	550	273	R 3	13	1,417	47	2,306	5	14	9	27
September	2 2	510 527	241 243	3	11 9	1,344 1,373	70 58	2,180 2,216	4	13 10	6 6	24 20
October November	2	527 498	243 241	3	9 11	1,373	58	^R 2,125	4	7	6	20 18
December	2	498 480	238	3	10	1,312	50 75	^R 2,125	5	11	6	22
Total	27	6,040	2,950	R 34	134	^R 16,363	776	R 26,324	64	146	93	303
									_		_	
2012 January	2	443	231	3	12	1,300	59	R 2,050	5	12	7	23
February	2	436	222	3	12	1,281	53	2,008	4	10	5	18
March	2 2	474 481	243 231	3 R 3	10 11	1,371	61	2,164	3	6 5	6 5	15 15
April May	2	481 508	231 248	R 3	11	1,355 1,429	59 42	2,142 ^R 2,242	4 5	5 6	5	15 17
June	3	508 499	248 263	R 3	9	1,429	42 50	2,242	5	6 7	6 9	20
July	2	499 509	263	R 3	10	1,309	50 58	2,215	5	7	9 10	20
August	2	518	258	3	10	1,401	49	2,291	4	8	8	19
September	2	488	235	R 3	9	1,318	42	2,096	4	8	6	17
October	2	517	236	3	10	1,382	39	2,188	4	7	6	17
November	2	484	239	3	10	1,312	40	2,090	4	7	5	16
December	1	465	241	3	8	1,331	24	2,073	4	7	5	17
Total	25	5,821	2,904	^R 34	122	^R 16,318	576	^R 25,800	52	89	77	218
2013 January	2	471	228	4	12	1,305	46	2,067	6	10	10	26

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

^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 only; 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 here and naphtha-type jet fuel.

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. R=Revised.

R=Revised. 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 of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973. Sources: See end of section.

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 (PSM)*. 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 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* 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 3.1 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.

1981–2001: EIA, *Petroleum Supply Annual (PSA)*, annual reports.

2002 forward: EIA, PSA, annual reports; *Petroleum Supply Monthly*, monthly reports; revisions to crude oil production, total field production, and adjustments (based on crude oil production data from: State government agencies; U.S. Department of the Interior, Bureau of Safety and Environmental Enforcement, and predecessor agencies; and Form EIA-182, "Domestic Crude Oil First Purchase Report"); and, for the current two months, *Weekly Petroleum Status Report* data system and *Monthly Energy Review* data system calculations.

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 the U.S. Energy Information Administration's (EIA) *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 sources for Table 3.5). "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; 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 by first estimating total

petroleum products supplied (product supplied data in thousand barrels per day for total petroleum from Table 3.5 are converted to trillion Btu by multiplying by the total petroleum consumption heat content factor in Table A3), and then subtracting data in trillion Btu (from Table 3.6) for 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

Total petroleum products supplied is the sum of the data in trillion Btu for the products (except "Propane") shown in Table. 3.6.

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: U.S. Energy Information Administration's (EIA), *Energy Data Reports*, "Petroleum Statement, Annual."

1981–2011: EIA, *Petroleum Supply Annual*. 2012 and 2013: 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 to 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: 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.

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 to 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 allocated to the residential, commercial, and industrial sectors 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 allocated to the residential, commercial, and industrial sectors 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 allocated to the residential, commercial and industrial sectors in proportion

to the 1979 shares, and the 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 to 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 allocated to the commercial and industrial sectors 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 allocated to the commercial and industrial sectors in proportion to the 1979 shares, and the 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.

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.

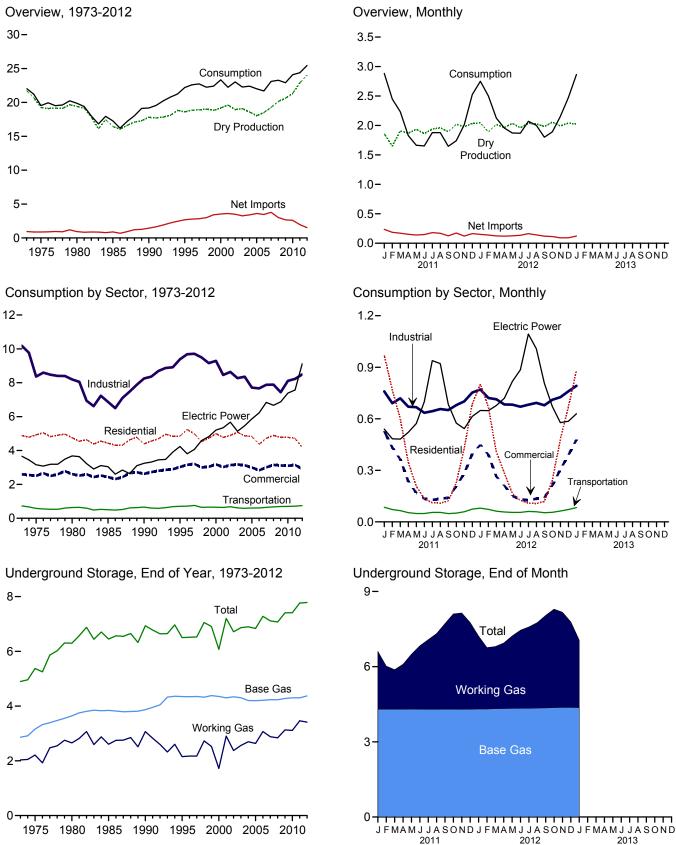
Total Petroleum

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. THIS PAGE INTENTIONALLY LEFT BLANK

4. Natural Gas

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Figure 4.1 Natural Gas (Trillion Cubic Feet)



Web Page: http://www.eia.gov/totalenergy/data/monthly/#naturalgas. Sources: Tables 4.1, 4.3, and 4.4.

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	•				Supple-		Trade		Net		
	Gross With- drawals ^a	Marketed Production (Wet) ^b	Extraction Loss ^c	Dry Gas Production ^d	mental Gaseous Fuels ^e	Imports	Exports	Net Imports	Storage With- drawals ^f	Balancing Item ^g	Consump tion ^h
1973 Total	24,067	ⁱ 22,648	917	ⁱ 21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	21,104	ⁱ 20,109	872	ⁱ 19,236	NA	953	73	880	-344	-235	19,538
1980 Total	21,870	20,180	777	19,403	155	985	49	936	23	-640	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	^j 19,174
1995 Total	23,744	19,506	908	18,599	110	2,841	154	2,687	415	396	22,207
1996 Total	24,114	19,812	958	18,854	109	2,937	153	2,784	2	860	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	24,174	20,198	1.016	19,182	90	3,782	244	3,538	829	-306	23,333
2001 Total	24,501	20,570	954	19,616	86	3,977	373	3,604	-1,166	99	22,239
2002 Total	23,941	19.885	957	18.928	68	4.015	516	3,499	467	65	23.027
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	461	22,403
2005 Total	23,457	18,927	876	18.051	64	4,341	729	3,612	52	236	22.014
2006 Total	23,535	19,410	906	18.504	66	4,186	724	3,462	-436	103	21,699
2007 Total	24,664	20,196	930	19,266	63	4.608	822	3,785	192	-203	23,104
2008 Total	25,636	21,112	953	20,159	61	3.984	963	3.021	34	2	23.277
2009 Total	26.057	21,648	1.024	20,624	65	3,751	1,072	2,679	-355	-103	22,910
2010 Total	26,816	22,382	1,066	21,316	65	3,741	1,137	2,604	-13	115	24,087
2011 January	2,299	1,953	92	1,861	5	372	136	236	811	-31	2,882
February	2,104	1,729	82	1,647	4	311	125	186	594	16	2,448
March	2,411	2,002	95	1,908	5	315	145	171	151	-3	2,232
April	2,350	1,961	93	1,868	5	278	127	151	-216	20	1,828
May	2,411	2,031	96	1,935	5	271	132	139	-405	-10	1,663
June	2,313	1,954	92	1,862	5	267	120	147	-346	-15	1,653
July	2,340	2,033	96	1.937	5	293	113	180	-248	3	1.877
August	2,370	2.057	97	1,960	5	280	111	169	-249	-7	1.878
September	2,358	1,987	94	1.893	5	252	127	125	-404	27	1.646
October	2,502	2,119	100	2.019	5	282	110	173	-391	-65	1,741
November	2,476	2.076	98	1.978	5	249	128	121	-41	-50	2.014
December	2,544	2,135	101	2.034	5	298	134	163	390	-69	2.524
Total	28,479	24,036	1,134	22,902	60	3,469	1,507	1,962	-354	-185	24,385
2012 January	2,573	^E 2,149	105	^E 2,044	6	281	130	151	545	5	2,750
February	2,378	E 1,989	99	E 1,890	5	270	130	140	459	6	2,500
March	2,537	E 2,123	105	E 2,017	6	265	141	124	-39	16	2,124
April	2,445	E 2,065	102	E 1,963	4	243	123	120	-137	5	1,956
May	2,530	E 2,139	105	E 2,034	4	259	133	126	-283	-11	1,871
June	2,420	E 2,061	100	E 1,962	5	260	125	134	-230	-4	1,867
July	2,458	E 2,139	103	E 2,036	5	281	118	162	-134	2	2,071
August	2.374	E 2,130	104	E 2.026	5	281	139	142	-168	-4	2.001
September	2,428	E 2.087	105	E 1,981	5	258	137	121	-291	-16	1.800
October	2,569	RE 2,167	111	RE 2,056	5	253	140	113	-241	^R -42	1.892
November	2,496	RE 2.100	109	RE 1,991	5	233	142	^R 91	125	R -60	2.154
December	R 2,562	E 2,149	107	E 2.041	6	251	159	R 92	385	^R -52	2,472
Total	R 29,771	RE 25,298	1,257	RE 24,042	62	3,135	1,619	R 1,516	-10	^R -153	25,457
2013 January	2.542	^E 2.127	105	E 2.022	6	276	155	121	722	-7	2.864

^a Gases withdrawn from natural gas, crude oil, coalbed, and shale gas wells. Includes natural gas, natural gas plant liquids, and nonhydrocarbon gases; but ^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.

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Marketed production (wet) minus extraction loss. See Note 3, "Supplemental Gaseous Fuels," at end of section. Net withdrawals from underground storage. For 1980-2011, also includes net f

withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section.

9 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). ^h See Note 6, "Natural Gas Consumption," at end of section. ⁱ May include unknown quantities of nonhydrocarbon gases.

^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: See Note 8, "Natural Gas Adjustments, 1993-2000," 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/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.
 Sources: https://www.faburdef.com, Table 4.3

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 Data: 1973-2006—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2007 forward—EIA, Natural Gas Monthly, March 2013, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports							Exports		
	Algeria ^a	Canada ^b	Egypt ^a	Mexico ^b	Nigeria ^a	Qatar ^a	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	Japan ^a	Mexicob	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	ŏ	ō	ŏ	ŏ	ŏ	ŏ	953	10	53	9	ŏ	73
1980 Total	86	797	ŏ	102	Ő	ŏ	Ő	ŏ	985	0	45	4	ŏ	49
1985 Total	24	926	ŏ	0	Ő	ŏ	Ő	ŏ	950	ŏ	53	2	ŏ	55
1990 Total	84	1.448	ŏ	ŏ	Ő	ŏ	ŏ	Ő	1,532	17	53	16	ŏ	86
1995 Total	18	2.816	ŏ	7	Ő	ŏ	Ő	ŏ	2.841	28	65	61	ŏ	154
1996 Total	35	2,883	ő	14	0 0	ő	Ö	5	2,041	52	68	34	0	153
	66	2,889	0 0	17	0 0	ő	Ö	12	2,937	52	62	34	0	153
1997 Total 1998 Total	69	2,099	0	15	0 0	ŏ	Ö	17	2,994	40	66	53	Ö	157
1999 Total	76	3,368	0 0	55	0 0	20	51	17	3,152	39	64	61	0	163
2000 Total	47	3,500	0 0	12	13	46	99	21	3,580	73	66	106	0	244
2000 Total	47 65	3,544	0	12	38	40 23	99 98	14	3,762	167	66	141	0	373
	65 27	3,729	0	2	38	23	98 151	14	3,977	167	63	263	0	373 516
2002 Total 2003 Total	53	3,785	0	2	50	35 14	378	8 11	3.944	271	63 66	263	0	680
2003 Total	120	3,437	0	0	50 12	14	462	46	3,944 4.259	395	62	343 397	0	854
	97	3,607	73	9	8	3	462	40	,	358	62	305	0	729
2005 Total				-					4,341			305	0	729
2006 Total	17	3,590 3,783	120	13 54	57 95	0 18	389 448	0	4,186	341 482	61 47	322 292	2	822
2007 Total	77 0	3,783	115 55	54 43	95 12	18	448	18	4,608	482	47 39	292	2	822 963
2008 Total	-					-		15	3,984				3	
2009 Total	0	3,271	160	28	13	13	236	29	3,751	701	31	338		1,072
2010 Total	0	3,280	73	30	42	46	190	81	3,741	739	33	333	32	1,137
2011 January	0	332	3	(s)	0	13	16	9	372	85	2	37	13	136
February	0	279	6	(s)	0	0	11	15	311	84	2	37	3	125
March	0	277	6	(s)	0	14	10	9	315	98	2	41	3	145
April	0	245	6	(s)	0	4	11	13	278	76	2	43	6	127
May	0	236	3	(s)	0	24	8	0	271	80	3	44	6	132
June	0	239	6	(s)	0	5	11	6	267	71	2	47	0	120
July	0	273	0	(s)	0	5	13	3	293	64	0	47	3	113
August	0	250	0	(s)	2	8	11	9	280	67	2	42	0	111
September	0	231	0	(s)	0	4	8	9	252	77	2	39	8	127
October	0	251	3	1	0	8	8	12	282	64	0	43	3	110
November	0	233	0	(s)	0	3	12	0	249	84	2	39	3	128
December	0	272	3	(s)	0	4	10	9	298	87	0	42	5	134
Total	0	3,117	35	3	2	91	129	92	3,469	937	18	500	52	1,507
2012 January	0	265	0	(s)	0	4	9	3	281	84	3	40	3	130
February	0	250	3	(s)	0	0	11	6	270	87	2	42	0	130
March	0	246	0	(s)	0	4	13	3	265	93	0	46	3	141
April	Ō	235	Ō	(s)	Ō	4	1	3	243	78	Ō	45	ō	123
May	0	243	0	(s)	0	6	11	0	259	78	3	52	0	133
June	0	251	0	(s)	0	0	8	0	260	64	2	58	0	125
July	0	265	0	(s)	0	3	12	0	281	62	0	57	0	118
August	Ō	262	Ō	(s)	Ō	3	16	Ō	281	77	2	60	Ō	139
September	Ō	246	Ō	(s)	Ō	3	8	Ō	258	80	Ō	58	ō	137
October	Ō	^R 243	Ō	(s)	Ō	6	5	Ō	253	75	2	61	3	140
November	Ō	219	Ō	(s)	Ō	3	8	3	233	93	0	49	Ō	142
December	õ	234	õ	(s)	Õ	Õ	8	9	251	R 101	Õ	52	6	159
Total	ŏ	2,960	3 3	(s)	ŏ	34	112	26	3,135	971	14	620	14	1,619
2013 January	0	262	0	(s)	0	0	11	3	276	99	0	56	0	155

^a As liquefied natural gas.
 ^b By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981; exported to Mexico beginning in 1998; and exported to Canada in 2007, 2012, and 2013. See Note 9, "Natural Gas Imports and Exports," at end of section.
 ^c Australia in 1997-2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; ladonesis, in 1998-2004, and 2004; Brunei in 2002; Equatorial Guinea in 2007;

Australia in 1997-2001 and 2004; Brunet in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002-2005; Norway in 2008-2012; Oman in 2000-2005; Peru in 2010 and 2011; United Arab Emirates in 1996-2000; Yemen in 2010 forward; and Other (unassigned) in 2004.
 ^d Brazil in 2010-2012; Chile in 2011; China in 2011; India in 2010-2012; Russia in 2007; South Korea in 2009-2011; Spain in 2010 and 2011; and United Kingdom in 2010 and 2011.

R=Revised. (s)=Less than 500 million cubic feet. Notes: See Note 9, "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/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973. Sources: 1973-1987: U.S. Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."
1988-2009: EIA, Natural Gas Annual, annual reports. 2010 forward: EIA, Natural Gas Monthly, March 2013, Tables 4 and 5; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

					End-Us	se Sectors		_				
					Industrial			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	tribution ^e	Fuel	Total	Sector ^{f,g}	Tota
973 Total	4.879	2.597	1.496	(^h)	8.689	8.689	10.185	728	NA	728	3.660	22.049
975 Total	4,924	2,508	1,396	(h)	6,968	6,968	8,365	583	NA	583	3,158	19,538
980 Total	4,752	2,611	1,026	(h)	7,172	7,172	8,198	635	NA	635	3,682	19,877
985 Total	4,433	2,432	966	(h)	5,901	5,901	6,867	504	NA	504	3,044	17,28
990 Total	4,391	2,623	1,236	1,055	5,963	ⁱ 7,018	8,255	660	(s)	660	3,245	19,174
995 Total	4,850	3,031	1,220	1,258	6,906	8,164	9,384	700	`Ś	705	4,237	22,207
996 Total	5,241	3,158	1,250	1,289	7,146	8,435	9,685	711	6	718	3,807	22,609
997 Total	4,984	3,215	1,203	1,282	7,229	8,511	9,714	751	8	760	4,065	22,737
998 Total	4,520	2,999	1,173	1,355	6,965	8,320	9,493	635	9	645	4,588	22,246
999 Total	4,726	3,045	1,079	1,401	6,678	8,079	9,158	645	12	657	4,820	22,405
000 Total	4,996	3,182	1,151	1,386	6,757	8,142	9,293	642	13	655	5,206	23,333
001 Total	4,771	3,023	1,119	1,310	6,035	7,344	8,463	625	15	640	5,342	22,239
002 Total	4,889	3,144	1,113	1,240	6,287	7,527	8,640	667	15	682	5,672	23,027
003 Total	5,079	3,179	1,122	1,144	6,007	7,150	8,273	591	18	610	5,135	22,277
004 Total	4,869	3,129	1,098	1,191	6,066	7,256	8,354	566	21	587	5,464	22,403
005 Total	4,827	2,999	1,112	1,084	5,518	6,601	7,713	584	23	607	5,869	22,014
006 Total	4,368	2,832	1,142	1,115	5,412	6,527	7,669	584	24	608	6,222	21,699
007 Total	4,722	3,013	1,226	1,050	5,604	6,655	7,881	621	25	646	6,841	23,104
008 Total	4,892	3,153	1,220	955	5,715	6,670	7,890	648	26	674	6,668	23,277
009 Total	4,779	3,119	1,275	990	5,178	6,167	7,443	670	27	697	6,873	22,910
010 Total	4,782	3,103	1,286	1,029	5,797	6,826	8,112	674	29	703	7,387	24,087
011 January	970	528	107	90	563	652	759	82	3	85	540	2,882
February	769	432	97	81	513	594	691	70	2	72	484	2,448
March	601	364	111	82	526	608	719	63	3	66	482	2,232
April	347	236	109	83	479	562	670	51	3	54	521	1,828
May	208	168	112	87	468	555	667	46	3	49	572	1,663
June	135	135	107	88	440	527	635	46	3	48	699	1,653
July	111	128	110	97	438	535	644	52	3	55	939	1,877
August	109	135	111	99	446	546	657	52	3	55	921	1,878
September	122	141	109	91	451	541	651	46	3	48	684	1,646
October	227	208	116	85	479	563	680	48	3	51	575	1,741
November	429	283	115	86	501	587	701	56	3	59	543	2,014
December	686	397	118	96	539	635	753	71	3	74	614	2,524
Total	4,714	3,154	1,323	1,063	5,842	6,905	8,227	684	32	716	7,574	24,385
012 January	802	448	E 118	98	555	653	771	E 77	E 3	E 80	648	2,750
February	668	391	E 109	90	521	612	721	E 70	E 3	E 73	648	2,500
March	408	263	E 117	90	507	597	713	E 60	E3	E 62	677	2,124
April	284	211	^E 114	87	482	570	683	E 55	E3	E 58	720	1,956
May	165	151	E 118	93	472	565	683	E 52	E3	E 55	817	1,871
June	125	133	E 113	94	462	557	670	E 52	E 3	E 55	885	1,867
July	109	126	E 118	101	464	564	682	E 58	E3	Ē 61	1,093	2,071
August	107	135	E 117	98	478	576	693	^E 56	E3	Ē 59	1,007	2,001
September	119	142	E 115	93	471	564	679	E 50	E3	E 53	807	1,800
October	241	212	E 119	95	497	591	711	E 53	E 3	E 56	671	1,892
November	481	305	E 116	97	513	610	726	E 60	E3	E 63	578	2,154
December	668	388	^E 118	103	_ 539	_ 642	760	_ ^E 69	E3	E 72	585	2,472
Total	4,177	2,905	^E 1,392	1,139	5,960	7,100	8,492	^E 714	^E 33	^E 747	9,137	25,457
013 January	881	478	E 117	102	573	675	792	E 80	E 3	E 83	629	2,864

 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

electricity-only plants. ^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.

"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."
 ⁱ 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.
 E=Estimate. NA=Not available. (s)=Less than 500 million cubic feet. Notes:

gaseous fuels. • See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section. • 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/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.
Sources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1973-2006—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions. 2007 forward—EIA, Natural Gas Monthly (MRM), March 2013, Table 2. • Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992-1998—EIA, "Alternatives to Traditional Transportation Fuels 1999" (October 1999), 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). 1999-2006—EIA, NGA, annual reports. 2007 forward—EIA, NGM, March 2013, Table 2. • Electric Power Sector: Table 7.4b.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

_	Natural Gas in Underground Storage, End of Period Base Gas Working Gas Total ^a			From Sa	Vorking Gas ne Period us Year	Storage Activity				
	Base Gas	Working Gas	Total ^a	Volume	Percent	Withdrawals	Injections	Net ^{b,c}		
973 Total	2,864	2,034	4,898	305	17.6	1,533	1,974	-442		
975 Total	3,162	2,212	5,374	162	7.9	1,760	2,104	-344		
980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14		
985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231		
990 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499		
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		
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24		
998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526		
999 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		
2001 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	4,211	3,070	7,281	435	16.5	2,493	2,924	-431		
2007 Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192		
2008 Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34		
2009 Total	4,277	3,130	7,407	290	10.2	2,966	3,315	-349		
2010 Total	4,301	3,111	7,412	-19	6	3,274	3,291	-17		
2011 January	4,303	2,306	6,609	2	.1	849	50	799		
February	4,302	1,722	6,024	39	2.3	666	82	584		
March	4,302	1,577	5,879	-75	-4.6	314	168	146		
April	4,304	1,788	6,092	-223	-11.1	100	312	-212		
May	4,304	2,187	6,491	-233	-9.6	58	458	-399		
June	4,302	2,530	6,831	-210	-7.7	80	421	-340		
July	4,300	2,775	7,075	-190	-6.4	116	359	-244		
August	4,300	3,019	7,319	-134	-4.2	126	370	-244		
September	4,301	3,416	7,717	-92	-2.6	55	454	-398		
October	4,302	3,804	8,106	-47	-1.2	52	437	-385		
November	4,300	3,843	8,143	74	2.0	184	221	-38		
December	4,302	3,462	7,764	351	11.3	474	90	383		
Total	4,302	3,462	7,764	351	11.3	3,074	3,422	-348		
2012 January	4,307	2,916	7,223	610	26.5	633	88	545		
February	4,307	2,455	6,762	733	42.6	526	67	459		
March	4,325	2,477	6,802	900	57.1	217	256	-39		
April	4,329	2,613	6,942	825	46.1	144	282	-137		
May	4,334	2,890	7,225	704	32.2	92	375	-283		
June	4,337	3,118	7,456	589	23.3	109	339	-230		
July	4,339	3,246	7,585	471	17.0	129	263	-134		
August	4,348	3,409	7,757	390	12.9	134	302	-168		
September	4,352	3,693	8,045	278	8.1	67	358	-291		
October	4,365	3,930	8,295	126	3.3	99	340	-241		
November	4,372	3,799	8,172	-43	-1.1	296	171	125		
December	4,371	3,413	7,784	-49	-1.4	490	105	385		
Total	4,371	3,413	7,784	-49	-1.4	2,936	2,945	-10		
013 January	4,365	2,690	7,055	-226	-7.7	793	71	722		

^a For total underground storage capacity at the end of each calendar year, see Note 4, "Natural Gas Storage," at end of section.
 ^b For 1980-2011, data differ from those shown on Table 4.1, which includes

^b For 1980-2011, 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. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section. 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/totalenergy/data/monthly/#naturalgas 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.

1976-1979—EIA, Natural Gas Production and Consumption 1979, Table 1. 1980-1995—EIA, Historical Natural Gas Annual 1930 Through 2000, Table 11. 1996-2006—EIA, Natural Gas Monthly (NGM), monthly issues. 2007 forward—EIA, NGM, March 2013, Table 8. • All Other Data: 1973 and 1974—American Gas Association, 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 FEA-G318-M-0, "Underground Gas Storage Report." 1977 and 1978—EIA, Form FEA-G318-M-0, "Underground Gas Storage Report." and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report." 1979-1995—EIA, Form EIA-191, "Underground Gas Storage Report." and FERC-8, "Underground Gas Storage Report." 1996-2006—EIA, NGM, monthly issues. 2007 forward—EIA, NGM, March 2013, Table 8.

Natural Gas

Note 1. Natural Gas Production. Final annual data are from the U.S. Energy Information Administration (EIA) *Natural Gas Annual (NGA)*.

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*).

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.

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, which includes both active and inactive fields, at the end of each calendar year since 1975 (first year data were available), in billion cubic feet, was:

cot, mus.			
1975 6,280	1988 8,124	2001	8,182
1976 6,544	1989 8,120	2002	8,207
1977 6,678	1990 7,794	2003	8,206
1978 6,890	1991 7,993	2004	8,255
1979 6,929	1992 7,932	2005	8,268
1980 7,434	1993 7,989	2006	8,330
1981 7,805	1994 8,043	2007	8,402
1982 7,915	1995 7,953	2008	8,499
1983 7,985	1996 7,980	2009	8,656
1984 8,043	1997 8,332	2010	8,764
1985 8,087	1998 8,179	2011	8,849
1986 8,145	1999 8,229	2012	^{P, R} 9,011
1987 8,124	2000 8,241		

P= Preliminary.

R=Revised.

Monthly underground storage data are collected from the Federal Energy Regulatory Commission 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 1980–2011 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 Data Adjustments, 1993–2000. For 1993–2000, the original data for natural gas delivered to industrial consumers (now "Other Industrial" in Table 4.3) included deliveries to both industrial users and independent power producers (IPPs). These data were adjusted to remove the estimated consumption at IPPs from "Other Industrial" and include it with electric utilities under "Electric Power Sector." (To estimate the monthly IPP consumption, the monthly pattern for Other Industrial CHP in Table 4.3 was used.)

For 1996–2000, monthly data for several natural gas series Natural Gas Navigator shown in EIA's (see http://www.eia.gov/dnav/ng/ng cons sum dcu nus m.htm) were not reconciled and updated to be consistent with the final annual data in EIA's NGA. In the Monthly Energy Review, monthly data for these series were adjusted so that the monthly data sum to the final annual values. The Table 4.1 data series (and years) that were adjusted are: Gross Withdrawals (1996, 1997), Marketed Production (1997), Extraction Loss (1997, 1998, 2000), Dry Gas Production (1996, 1997), Supplemental Gaseous Fuels (1997-2000), Balancing Item (1997-2000), and Total Consumption (1997 -2000). The Table 4.3 data series (and years) that were adjusted are: Lease and Plant Fuel (1997-2000), Total Industrial (1997-2000), Pipelines and Distribution (2000), Total Transportation (2000), and Total Consumption (1997–2000).

Note 9. 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, Peru, 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 Brazil, China, Chile, India, Japan, Russia, South Korea, Spain, and United Kingdom. Also, small amounts of LNG have gone to Mexico since 1998 and to Canada in 2007, 2012, and 2013.

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.*

5. Crude Oil and Natural Gas Resource Development



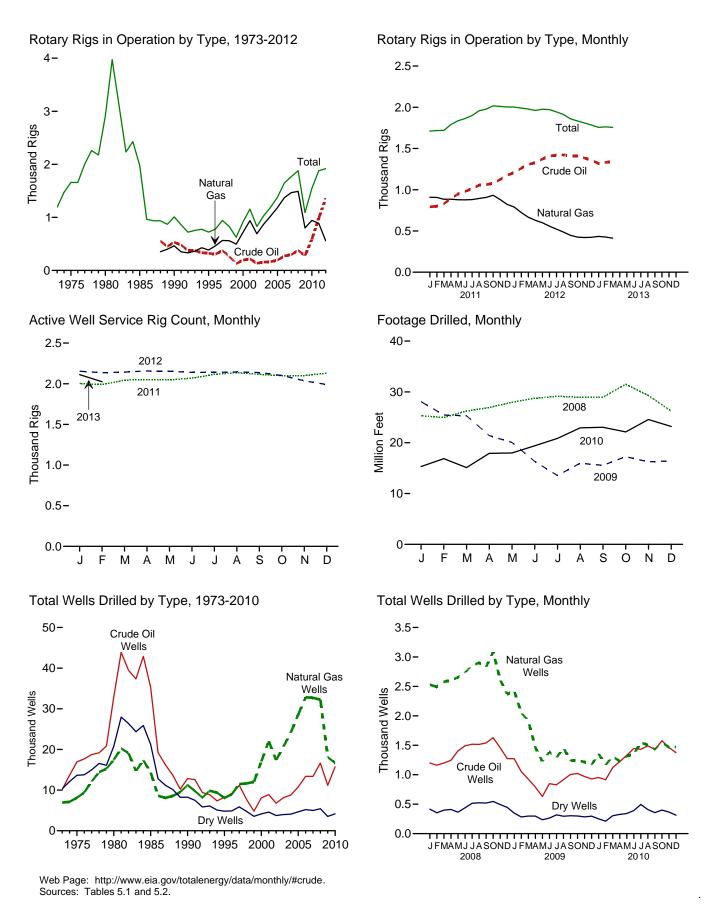


Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements (Number of Rigs)

		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
975 Average	1,554	106	NA	NA	1.660	2,486
	2.678	231	NA	NA	2,909	4.089
980 Average						
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
	519	106	128	496	625	2,232
999 Average						
000 Average	778	140	197	720	918	2,692
001 Average	1,003	153	217	939	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	1,035	94	194	1,184	1.381	2,222
006 Average	1,559	90	274	1,372	1,649	2,364
007 Average	1,695	72	297	1,466	1,768	2,388
2008 Average	1,814	65	379	1,491	1,879	2,515
2009 Average	1,046	44	278	801	1,089	1,722
010 Average	1,514	31	591	943	1,546	1,854
011 January	1,686	26	793	909	1,711	2,004
February	1.692	26	801	907	1,718	1,990
March	1.694	26	830	884	1,720	2.044
	1,762	28	896	885	1,720	2,044
April						
May	1,804	32	948	878	1,836	2,047
June	1,829	34	979	877	1,863	2,069
July	1,865	35	1,014	880	1,900	2,116
August	1.923	35	1.055	894	1.957	2,136
September	1.946	32	1.063	907	1,978	2,115
October	1,982	35	1,003	933	2.017	2,110
October						
November	1,974	37	1,125	880	2,011	2,100
December	1,961	42	1,177	821	2,003	2,131
Average	1,846	32	984	887	1,879	2,075
012 January	1,960	43	1,208	790	2,003	2,154
February	1,949	42	1,261	723	1,990	2,135
March	1.935	43	1,307	667	1,979	2,143
April	1,917	44	1.329	629	1,961	2,143
		44	1,329			2,157
May	1,931			600	1,977	
June	1,923	49	1,409	558	1,972	2,139
July	1,894	51	1,419	522	1,944	2,140
August	1,863	50	1,423	487	1,913	2,144
September	1.808	51	1,409	447	1,859	2,137
October	1,785	49	1,407	425	1.834	2,102
November	1,758	49 51	1,407	425	1,809	2,102
November						
December	1,733	51	1,358	423	1,784	1,990
Average	1,871	48	1,357	558	1,919	2,113
013 January	1,704	52	1,318	434	1,756	_ 2,112
February	1,708	54	1,332	426	1,762	^R 2,024
March	1.705	51	1.339	413	1,756	NA NA
3-Month Average	1,706	52	1,330	424	1,758	NA
2012 3-Month Average	1,947	42	1,262	722	1,990	2,144
011 3-Month Average	1,947	42 26	808	900	1,716	2,144

^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 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.

R=Revised. NA=Not available. Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all available data beginning in 1973. Sources: • Rotary Rigs in Operation: Baker Hughes, Inc., Houston, TX, Rotary Rigs Running—by State, used with permission. See http://investor.shareholder.com/bh/irig_counts/rc_index.cfm. • Active Well Service Rig Count: Cameron International Corporation, Houston, TX, See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells I	Drilled						
		Explo	ratory			Develo	pment			То	tal		Total
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Footage Drilled
						Num	nber						Thousand Feet
1973 Total	642	1,067	5,952	7.661	9,525	5.866	4,368	19,759	10,167	6,933	10,320	27,420	138,223
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,721	180,494
1980 Total	1,777	2,099	9,081	12,957	31,182	15,362	11,704	58,248	32,959	17,461	20,785	71,205	316,943
1985 Total	1,680	1,200	8,954	11,834	33,581	13,124	12,257	58,962	35,261	14,324	21,211	70,796	314,409
1990 Total	778	811	3,652	5,241	12,061	10,435	4,593	27,089	12,839	11,246	8,245	32,330	156,044
1995 Total	570	558	2,024	3,152	7,678	7,524	2,790	17,992	8,248	8,082	4,814	21,144	117,156
1996 Total	489	576	1,956	3,021	8,347	8,451	2,934	19,732	8,836	9,027	4,890	22,753	126,365
1997 Total	491 327	562 566	2,113 1.590	3,166 2.483	10,715	10,936 11,073	3,761 3,171	25,412 21,599	11,206 7,682	11,498 11,639	5,874 4,761	28,578 24,082	161,249 137,202
1998 Total 1999 Total	327 197	500	1,590	2,403	7,355 4.608	11,457	2,393	18.458	4.805	12.027	3,550	24,082	102.861
2000 Total	288	657	1,341	2,286	7,802	16,394	2,393	27,001	4,805	17,051	4,146	20,382	144,425
2001 Total	357	1,052	1,733	3,142	8,531	21,020	2,865	32,416	8,888	22,072	4,598	35,558	180,141
2002 Total	258	844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,159
2003 Total	350	997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,239
2004 Total	383	1,671	1,350	3,404	8,406	22,515	2,732	33,653	8,789	24,186	4,082	37,057	204,279
2005 Total	539	2,141	1,462	4,142	10,240	26,449	3,191	39,880	10,779	28,590	4,653	44,022	240,307
2006 Total	646	2,456	1,547	4,649	12,739	30,382	3,659	46,780	13,385	32,838	5,206	51,429	282,675
2007 Total	808	2,794	1,582	5,184	12,563	29,925	3,399	45,887	13,371	32,719	4,981	51,071	301,515
2008 January	88	208	144	440	1,111	2,321	272	3,704	1,199	2,529	416	4,144	25,306
February	82	230	107	419	1,080	2,261	247	3,588	1,162	2,491	354	4,007	24,958
March	66	216	127	409	1,132	2,363	271	3,766	1,198	2,579	398	4,175	26,226
April May	68 88	189 206	130 124	387 418	1,177 1,317	2,415 2.449	281 240	3,873 4.006	1,245 1,405	2,604 2,655	411 364	4,260 4,424	26,920 27,947
June	63	195	139	397	1,428	2,449	299	4,000	1,403	2,035	438	4,664	28,739
July	79	163	171	413	1,420	2,695	344	4,207	1,518	2,858	515	4,891	29,140
August	67	165	144	376	1,448	2,735	379	4,562	1,515	2,900	523	4,938	28,942
September	52	166	164	382	1,488	2,667	355	4,510	1,540	2,833	519	4,892	28,960
October	80	243	173	496	1,549	2,841	373	4,763	1,629	3,084	546	5,259	31,505
November	97	192	160	449	1,361	2,418	334	4,113	1,458	2,610	494	4,562	29,276
December	67	172	132	371	1,206	2,196	313	3,715	1,273	2,368	445	4,086	26,222
Total	897	2,345	1,715	4,957	15,736	29,901	3,708	49,345	16,633	32,246	5,423	54,302	334,141
2009 January	80 62	171 125	99 88	350 275	1,192 991	2,253 1,925	250 195	3,695 3,111	1,272 1,053	2,424 2.050	349 283	4,045 3,386	28,077 25,440
February March	62 59	125	00 88	275	867	1,925	210	2.848	926	2,050	203 298	3,300	25,440 25,304
April	36	68	93	197	755	1,396	205	2,356	791	1,464	298	2,553	23,304
May	47	90	80	217	584	1,136	156	1,876	631	1,226	236	2,093	20,055
June	44	91	75	210	804	1.297	189	2.290	848	1.388	264	2,500	16.301
July	40	100	101	241	789	1,188	217	2,194	829	1,288	318	2,435	13,543
August	49	84	88	221	867	1,372	207	2,446	916	1,456	295	2,667	15,970
September	61	71	96	228	945	1,170	207	2,322	1,006	1,241	303	2,550	15,547
October	55	79	78	212	966	1,167	222	2,355	1,021	1,246	300	2,567	17,261
November	38	83	85	206	931	1,133	199	2,263	969	1,216	284	2,469	16,236
December Total	34 605	98 1,206	84 1,055	216 2,866	894 10,585	1,074 16,882	213 2,470	2,181 29,937	928 11,190	1,172 18,088	297 3,525	2,397 32,803	16,424 231,562
2010 January	55	. 91	81	227	898	1,264	169	2,331	953	1,355	250	2,558	15,304
February	44	71	67	182	871	1,096	103	2,331	915	1,355	211	2,330	16,862
March	59	85	88	232	1,062	1,224	216	2,502	1,121	1,309	304	2,734	15,102
April	49	78	77	204	1,173	1,152	249	2,574	1,222	1,230	326	2,778	17,904
May	48	107	86	241	1,282	1,208	255	2,745	1,330	1,315	341	2,986	17,987
June	61	100	90	251	1,385	1,250	302	2,937	1,446	1,350	392	3,188	19,408
July	46	103	105	254	1,386	1,443	390	3,219	1,432	1,546	495	3,473	20,847
August	56	104	94	254	1,434	1,402	314	3,150	1,490	1,506	408	3,404	22,923
September	57	73	88	218	1,374	1,358	268	3,000	1,431	1,431	356	3,218	23,037
October	75	87	117	279	1,502	1,463	283	3,248	1,577	1,550	400	3,527	22,123
November	62	114	103	279	1,400	1,352	263	3,015	1,462	1,466	366	3,294	24,561
December	57	92	70	219	1,317	1,379	243	2,939	1,374	1,471	313	3,158	23,189
Total	669	1,105	1,066	2,840	15,084	15,591	3,096	33,771	15,753	16,696	4,162	36,611	239,247

Notes: • Data are estimates. • 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 and dwell 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 shown on this page are frequently revised. See Note, "Crude Oil and Natural Gas Exploratory and Development

Wells," at end of section.
• Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all

 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.

The 2011 and 2012 data in this table have been removed while EIA evaluates the quality of the data and the estimation methodology.

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.

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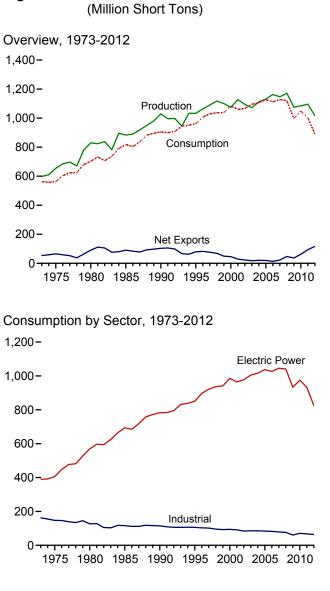
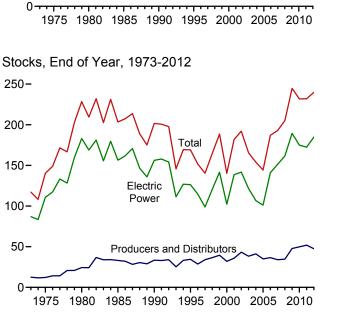
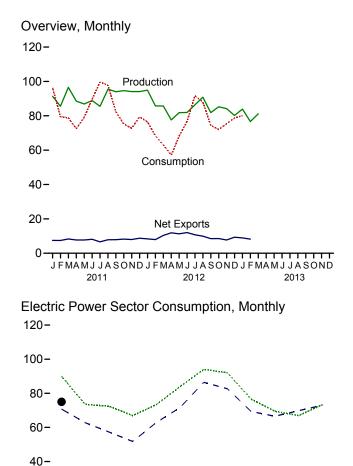


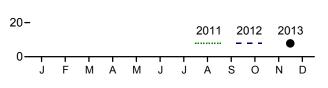
Figure 6.1

Coal



Web Page: http://www.eia.gov/totalenergy/data/monthly/#coal. Sources: Tables 6.1–6.3.





Electric Power Sector Stocks, End of Month 240-

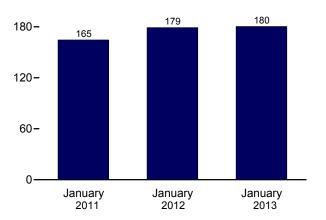


Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Production ^a	Supplied ^b	Imports	Exports	Net Imports ^c	Change ^{d,e}	for ^f	Consumption
973 Total	598,568	NA	127	53,587	-53,460	402	-17,878	562,584
75 Total	654,641	NA	940	66,309	-65,369	32.154	-5,522	562,640
980 Total	829,700	NA	1.194	91,742	-90,548	25,595	10.827	702,730
85 Total	883,638	NA	1,952	92,680	-90,727	-27.934	2,796	818,049
90 Total	1.029.076	3,339	2,699	105.804	-103,104	26,542	-1.730	904.498
95 Total	1.032.974	8,561	9.473	88.547	-79.074	-275	632	962,104
96 Total	1,063,856	8.778	8,115	90.473	-82.357	-17.456	1.411	1,006,321
97 Total	1.089.932	8.096	7.487	83.545	-76.058	-11.253	3.678	1,029,544
98 Total	1.117.535	8.690	8.724	78.048	-69.324	24.228	-4.430	1.037.103
999 Total	1.100.431	8.683	9.089	58.476	-49.387	23.988	-2.906	1,038,647
000 Total	1.073.612	9.089	12.513	58,489	-45.976	-48.309	938	1.084.095
00 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
001 Total								
002 Total	1,094,283	9,052	16,875	39,601	-22,726	10,215	4,040	1,066,355
003 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
004 Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
005 Total	1,131,498	13,352	30,460	49,942	-19,482	-9,702	9,092	1,125,978
006 Total	1,162,750	14,409	36,246	49,647	-13,401	42,642	8,824	1,112,292
007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4,085	1,127,998
008 Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
009 Total	1,074,923	13,666	22,639	59,097	-36,458	39,668	14,985	997,478
010 Total	1,084,368	13,651	19,353	81,716	-62,363	-13,039	182	1,048,514
11 January	91,355	1,182	1,014	8,509	-7,496	-11,679	418	96,303
February	85,575	1,046	843	8,275	-7,432	-3,306	2,917	79,577
March	96,548	1,126	1,524	9,832	-8,308	3,991	6,608	78,767
April	88,563	996	1,136	8,843	-7,706	8,966	390	72,497
May	86,850	910	1,313	9,042	-7,730	2,393	-1,461	79,098
June	88,878	1,162	970	9,102	-8,132	-9,803	2,060	89,652
July	85,498	1,202	1,208	7,865	-6,657	-15,788	-3,788	99,618
August	95,495	1,181	1,545	9,387	-7,843	-10,739	1,809	97,762
September	94,013	1,117	835	8,723	-7,888	5,015	-113	82,341
October	94,643	1,078	917	9,159	-8,242	13,552	-1,334	75,261
November	94,109	1,133	807	8,808	-8,001	11,911	2,623	72,707
December	94,101	1,076	976	9,713	-8,737	5.698	1,377	79,365
Total	1,095,628	13,209	13,088	107,259	-94,171	211	11,506	1,002,948
012 January	94,944	^R 1,127	789	9,126	-8,337	^R 2,882	^R 8,413	^R 76,439
February	85,763	^R 917	534	8,460	-7,927	^R 8,111	R 2,202	^R 68,440
March	85,698	R 886	699	11,055	-10,356	^R 9,769	^R 3.326	^R 63,133
April	77.624	746	623	12,529	-11,905	^R 7,263	^R 2,127	^R 57,074
May	81,825	938	986	12.257	-11,271	R 467	R 2.773	^R 68,252
June	81,911	905	719	12,749	-12,030	^R -5,275	^R -704	R 76.766
July	86.344	1.050	894	11.623	-10.729	^R -14.946	^R -99	^R 91,710
August	90.839	992	667	10,597	-9,930	^R -7.254	R 1.092	^R 88,063
September	81,846	800	855	9,344	-8,489	R 2,375	^R -2,696	^R 74,478
October	^R 85,244	^R 766	868	9,421	-8,554	R 3.741	^R 1.704	^R 72,012
November	^R 84,152	R 1.020	798	8,516	-7,718	^R 1,821	^R 247	^R 75.386
December	^R 80,208	^R 893	798	10.068	-9.341	R -974	^R -5.995	^R 78.729
Total	^R 1,016,399	^R 11,040	9.159	125.746	-116,586	^R 7,980	^R 12,389	^R 890.483
		^{RF} 1,068	-,	-, -	·			,
13 January	83,892		654 8 205	9,572	-8,917	^R -6,130	^R 2,117	^R 80,055
February	76,673	NA	R 385	^R 8,627	^R -8,242	NA	NA	NA
March	81,151	NA	NA	NA	NA	NA	NA	NA
3-Month Total	241,716	NA	NA	NA	NA	NA	NA	NA
012 3-Month Total 011 3-Month Total	266,405 273,478	2,931 3,354	2,022 3,381	28,642 26,617	-26,620 -23,236	20,762 -10,994	13,941 9,943	208,013 254,647

^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 dependent insite works) consumed by the electric

^o Waste coal (including line coal, coal obtained from a feruse bain of sturry 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 creater than imports.

greater than imports. ^d For 1980-2007, excludes coal stocks in the residential and commercial

e A negative value indicates a decrease in stocks; a positive value indicates an

^f The difference between calculated coal supply and disposition, due to coal

^f The difference between calculated coal supply and disposition, due to coal quantities lost or to data reporting problems. 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 include refined coal. • 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/totalenergy/data/monthly/#coal for all available data beginning in 1973. Sources: See end of section.

Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-l	Jse Sectors	S					
			Commerc	ial			Industrial					
	Resi-				Coke	0	ther Industria	al		Trans-	Electric Power	
	dential	CHPa	Otherb	Total	Plants	CHP ^c	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total	4,113	(^g)	7,004	7,004	94,101	(<u>h</u>)	68,038	68,038	162,139	116	389,212	562,584
1975 Total	2,823	(g)	6,587	6,587	83,598	(<u>h</u>)	63,646	63,646	147,244	24	405,962	562,640
1980 Total	1,355	(g)	5,097	5,097	66,657	(h) (h)	60,347	60,347	127,004	(h) (h)	569,274	702,730
1985 Total 1990 Total	1,711 1,345	(^g) 1,191	6,068 4,189	6,068 5,379	41,056 38,877	() 27,781	75,372 48,549	75,372 76,330	116,429 115,207	$\binom{n}{h}$	693,841 782,567	818,049 904,498
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	(<u>h</u>)	921,364	1,029,544
1998 Total	534	1,443	2,879	4,322	28,189	28,553	38,887	67,439	95,628	(<u>h</u>)	936,619	1,037,103
1999 Total	585	1,490	2,803	4,293	28,108	27,763	36,975	64,738	92,846	(h)	940,922	1,038,647
2000 Total	454	1,547	2,126	3,673	28,939	28,031	37,177	65,208	94,147	('') (h)	985,821	1,084,095
2001 Total 2002 Total	481 533	1,448 1,405	2,441 2,506	3,888 3,912	26,075 23,656	25,755 26,232	39,514 34,515	65,268 60,747	91,344 84.403	{:}	964,433 977,507	1,060,146 1,066,355
2002 Total	551	1,405	1.869	3,685	23,030	24.846	36,415	61.261	85.509	2h	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) (h)	1,045,141	1,127,998
2008 Total	{¦}	2,021 1.798	^R 1,485 ^R 1,412	^R 3,506 ^R 3,210	22,070 15.326	21,902 19.766	32,491 25.549	54,393 45.314	76,463 60.641	(")	1,040,580 933.627	1,120,548 997,478
2009 Total 2010 Total		1,798	^R 1,361	^R 3,081	21,092	24,638	25,549 24,650	45,314 49,289	70,381	('') ('h)	933,627 975,052	1,048,514
2011 January	(ⁱ)	189	^R 176	^R 364	1,746	2,082	2,090	4,172	5,917	(^h)	90,021	96,303
February	(i) (i)	173	^R 161	^R 335	1,623	1,800	2,345	4,145	5,769	(h)	73,474	79,577
March	()	164	^R 153	^R 317	1,819	1,891	2,281	4,173	5,991	(h)	72,458	78,767
April	(¦)	124	^R 86	^R 210	1,668	1,787	1,902	3,689	5,357	(h) (h)	66,930	72,497
May	(') (')	124 130	^R 87 ^R 91	^R 211 ^R 222	1,878 1,846	1,836 1,843	1,836	3,672	5,550	('') (h)	73,338	79,098 89,652
June July		130	^R 48	R 193	1,640	1,043	1,833 1,772	3,676 3,718	5,522 5,388	() (h)	83,908 94,037	99,618
August	{i}	129	R 43	R 172	1,863	1,940	1,753	3,715	5,578	}h {	92.012	97.762
September	ζij	122	R 41	R 163	1.874	1,788	1.947	3,735	5,609	ζh j	76,569	82.341
October	(ií)	110	^R 72	^R 182	1,784	1,748	2,088	3,836	5,621	(h)	69,458	75,261
November	(1)	117	^R 77	^R 194	1,772	1,712	2,110	3,822	5,594	(h)	66,919	72,707
December	(i) (i)	139	^R 91	^R 230	1,891	1,923	1,962	3,885	5,776	(h)	73,359	79,365
Total	(')	1,668	^R 1,125	^R 2,793	21,434	22,319	23,919	46,238	67,671	('n)	932,484	1,002,948
2012 January	(<u>i</u>)	162	^R 92	^R 254	1,701	1,913	^R 1,851	^R 3,764	^R 5,465	(^h)	70,720	^R 76,439
February	(¦)	141	R 81	R 222	1,687	1,708	^R 2,069	R 3,776	^R 5,463	(<u>h</u>)	62,755	^R 68,440
March	(i) (i)	135	R 77	^R 211	1,895	1,707	^R 2,020	^R 3,727	^R 5,622	(h) (h)	57,300	^R 63,133
April		115	^R 21 ^R 22	^R 136 ^R 143	1,783	1,542	^R 1,864 ^R 1,695	R 3,405	^R 5,188	('') (h)	51,751	^R 57,074
May		121 114	R 21	^R 135	1,857 1,657	1,689 1,634	^R 1,745	^R 3,384 ^R 3,379	^R 5,241 ^R 5,036	() (h)	62,868 71,595	^R 68,252 ^R 76,766
June July		114	R 11	^R 129	1,657	1,634	^R 1,745	R 3,476	^R 5,036	$\left\{ \begin{array}{c} h \\ h \end{array} \right\}$	86,429	^R 91,710
August	213	126	R 12	R 138	1,816	1,827	^R 1,639	^R 3,466	^R 5.282	(h)	82.643	^R 88.063
September	(!)	116	R 11	^R 127	1,552	1,613	^R 1,865	^R 3,478	^R 5,030	(h)	69,321	^R 74,478
October	(i) (i)	115	^R 43	^R 157	^R 1,647	1,796	^R 1,846	^R 3,641	^R 5,289	(h)	66,565	^R 72,012
November	(!)	134	^R 50	^R 185	^R 1,715	1,728	^R 1,961	^R 3,689	^R 5,403	(h)	69,798	^R 75,386
December	(!)	151	^R 57	^R 208	^R 1,766	1,789	^R 1,955	^R 3,744	^R 5,510	(h)	73,011	^R 78,729
Total	(i)	1,549	^R 496	^R 2,045	^R 20,751	20,717	^R 22,213	^R 42,930	^R 63,681	(^h)	824,758	^R 890,483
2013 January	(ⁱ)	153	^F 119	F 272	^F 1,425	1,760	^F 1,629	F 3,390	^F 4,815	(^h)	74,968	80,055

^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.
 ^b All commercial sector fuel use other than that in "Commercial CHP."
 ^c Industrial combined best and power (CHP) and a small number of industrial

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

^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 1988, data are for consumption at electric utilities only. Beginning in 1090, data business is a second and a second at the public secon

1989, data also include consumption at independent power producers.

g Included in "Commercial Other."

^h Included in "Industrial Non-CHP." ⁱ Beginning in 2008, residential coal consumption data are no longer collected by the U.S. Energy Information Administration (EIA). R=Revised. 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 include refined coal. • Data values preceded by "F" are derived from EIA'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/totalenergy/data/monthly/#coal for all

available data beginning in 1973.

Sources: See end of section.

Beginning in 2008, the data that were included under "Residential" are now included under "Commercial Other."

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors	i			
	Producers and	Residential ^a and		Industrial	1		Electric Power	
	Distributors	Commercial	Coke Plants	Otherb	Total	Total	Sector ^{c,d}	Total
1973 Year	12,530	290	6,998	10,370	17,368	17,658	86,967	117,155
975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391
980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,629
995 Year	34,444	NA	2,632	5,702	8,334	8,334	126,304	169,083
996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,627
997 Year	33,973	NA	1,978	5,597	7,576	7,576	98,826	140,374
998 Year	36,530	NA	2,026	5,545	7,571	7,571	120,501	164,602
999 Year	39,475	NA	1,943	5,569	7,511	7,511	° 141,604	188,590
000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,282
001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,912
002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,127
003 Year	38,277	NA	905	4,718	5,623	5,623	121,567	165,468
004 Year	41,151	NA	1,344	4,842	6,186	6,186	106,669	154,006
005 Year	34,971	NA	2,615	5,582	8,196	8,196	101,137	144,304
006 Year	36,548	NA	2,928	6,506	9,434	9,434	140,964	186,946
007 Year	33,977	NA	1,936	5,624	7,560	7,560	151,221	192,758
008 Year	34,688	498	2,331	6,007	8,338	8,836	161,589	205,112
009 Year	47,718	529	1,957	5,109	7,066	7,595	189,467	244,780
010 Year	49,820	552	1,925	4,525	6,451	7,003	174,917	231,740
011 January	48,709	536	1,937	4,305	6,241	6,777	164,575	220,061
February	49,140	520	1,948	4,084	6,032	6,552	161,064	216,755
March	48,165	503	1,959	3,864	5,823	6,326	166,255	220,746
April	49,852	505	1,958	3,969	5,927	6,433	173,427	229,712
May	51,473	508	1,957	4,075	6,032	6,539	174,093	232,105
June	50,507	510	1,956	4,181	6,136	6,646	165,149	222,302
July	52,420	513	2,082	4,203	6,285	6,798	147,296	206,514
August	50,287	515	2,221	4,225	6,446	6,961	138,527	195,775
September	49,909	518	2,405	4,247	6,652	7,170	143,711	200,790
October	50,810	546	2,473	4,316	6,790	7,336	156,196	214,342
November	50,997	575	2,541	4,386	6,927	7,502	167,754	226,253
December	51,897	603	2,610	4,455	7,065	7,668	172,387	231,951
012 January	^F 48,424	587	2,507	^R 4,285	^R 6,791	^R 7,379	179,030	^R 234,833
February	F 49,954	572	2,403	^R 4,114	^R 6,517	^R 7,089	185,901	^R 242,944
March	^F 51,458	557	2,300	^R 3,943	^R 6,244	^R 6,800	194,455	^R 252,713
April	^F 51,705	566	2,299	^R 4,038	^R 6,337	^R 6,903	201,368	^R 259,976
May	F 51,253	575	2,297	^R 4,134	^R 6,431	^R 7,006	202,184	^R 260,443
June	^F 51,007	585	2,295	^R 4,229	^R 6,524	^R 7,109	197,052	^R 255,168
July	F 49,859	589	2,329	^R 4,327	^R 6,656	^R 7,244	183,119	^R 240,222
August	F 48,343	592	2,363	^R 4,424	^R 6,787	^R 7,379	177,246	^R 232,968
September	^F 47,181	596	2,396	^R 4,522	^R 6,918	^R 7,514	180,648	^R 235,343
October	F 46,885	^R 592	^R 2,438	^R 4,508	^R 6,946	^R 7,538	184,661	^R 239,084
November	F 46,711	^R 587	^R 2,480	^R 4,493	^R 6,973	^R 7,561	186,633	^R 240,905
December	F 47,424	^R 583	R 2,522	^R 4,479	^R 7,001	^R 7,584	184,923	^R 239,931
013 January	^F 45,899	F 623	F 2,317	^F 4,645	^F 6,961	^F 7.584	180,318	233,802

^a The residential sector is included only through 1979.
^b Through 1977, data are for stocks held by the manufacturing and transportation sectors. Beginning in 1978, data are for stocks held at manufacturing

^c 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 ^d 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

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 include refined coal. • 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 web Page: See http://www.eia.gov/totalenergy/data/monthly/#coal for all

available data beginning in 1973.

Sources: See end of section.

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 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-Through 2007, 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 oilheated 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.

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 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, endof-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 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/forecasts/steo/.

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. (The 1973 stock change value is calculated using the 1972 total stocks value of 116,753 thousand short tons from EIA, *Annual Energy Review 2011*, Table 7.6. The 1972 stocks value excludes stocks at producers and distributors.)

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 (STIFS).

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, STIFS.

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, STIFS.

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 (STIFS).

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, STIFS.

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, STIFS.

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, STIFS.

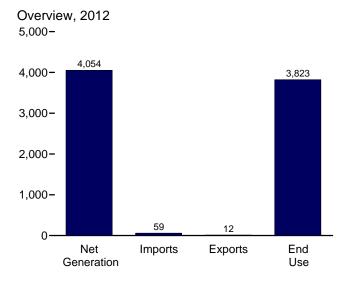
Electric Power

Table 7.5.

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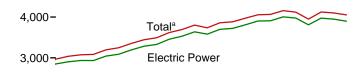


Figure 7.1 Electricity Overview (Billion Kilowatthours)



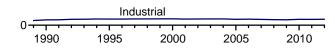
Net Generation by Sector, 1989-2012

5,000-



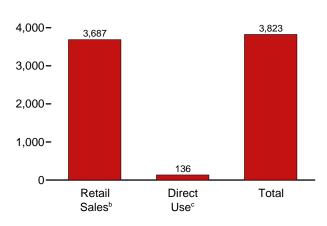
2,000-

1,000-



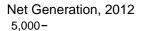


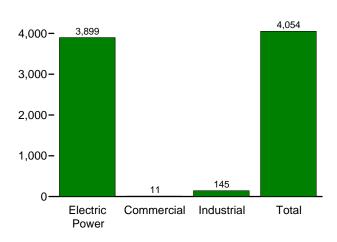




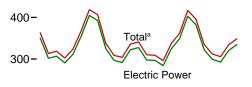
^a Includes commercial sector.

^b Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.



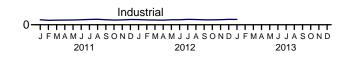


Net Generation by Sector, Monthly 500-

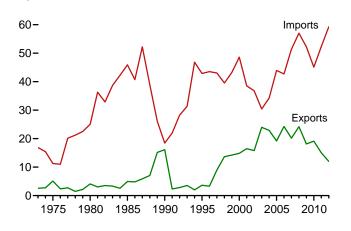


200-

100-



Trade, 1973-2012 70-



° See "Direct Use" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Source: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

		Net Gen	eration			Trade		T&D Losses ^e		End Use	
	Electric Power Sector ^a	Com- mercial Sector ^b	Indus- trial Sector ^c	Total	Importsd	Exports ^d	Net Imports ^d	and Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
1973 Total	1,861	NA	3	1,864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total	2,286	NA	3	2,290	25	4	21	216	2,094	NA	2,094
1985 Total	2,470	NA	3	2,473	46	5	41	190	2,324	NA	2,324
1990 Total	2,901	6	131	3.038	18	16	2	203	2.713	125	2.837
1995 Total	3,194	8	151	3,353	43	4	39	229	3.013	151	3,164
1996 Total	3,284	9	151	3.444	43	3	40	231	3,101	153	3,254
1997 Total	3,329	9	154	3.492	43	9	34	224	3,146	156	3,302
1998 Total	3.457	9	154	3.620	40	14	26	221	3.264	161	3.425
1999 Total	3,530	9	156	3.695	43	14	29	240	3,312	172	3,484
2000 Total	3.638	8	157	3,802	49	15	34	244	3,421	171	3.592
2000 Total	3,580	7	149	3,802	39	15	22	202	3,421	163	3,592
2002 Total	3,698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004 Total	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total	3,902	8	145	4,055	44	19	25	269	3,661	150	3,811
2006 Total	3,908	8	148	4,065	43	24	18	266	3,670	147	3,817
2007 Total	4,005	8	143	4,157	51	20	31	298	3,765	126	3,890
2008 Total	3,974	8	137	4,119	57	24	33	287	3,733	132	3,865
2009 Total	3,810	8	132	3,950	52	18	34	261	3,597	127	3,724
2010 Total	3,972	9	144	4,125	45	19	26	265	3,754	132	3,886
2011 January	350	1	12	363	4	2	3	20	334	E 11	345
February	302	1	11	313	4	2	2	9	297	E 10	307
March	307	1	11	319	4	2	2	19	292	E 10	302
April	291	i	11	302	4	2	2	19	275	E 10	286
	311	1	11	324	5	1	4	29	288	E 11	299
May	355	1	12	368	4	1	4	29 31	329	E 11	340
					6	1	5			E 12	
July	405	1	13	419				41	371	E 12	383
August	392	1	13	407	6	1	5	26	373		385
September	325	1	12	338	4	1	3	4	326	E 11	337
October	297	1	11	309	4	1	3	13	288	E 11	299
November	292	1	12	304	3	1	2	20	275	Ē11	286
December	322	1	13	336	4	1	3	26	302	^E 12	314
Total	3,949	10	142	4,101	52	15	37	255	3,750	133	3,883
2012 January	328	1	12	341	4	1	3	22	311	^E 12	323
February	298	1	12	310	4	1	3	16	286	E 11	297
March	297	1	11	309	4	1	3	19	283	E 11	293
April	284	1	11	296	5	1	4	19	270	E 10	281
May	325	i	12	338	5	1	4	35	295	E 11	307
June	349	1	12	362	5	1	4	30	324	E 11	336
July	403	1	12	417	7	1	6	40	370	^E 12	382
	383	1	13	396	6	1	5	26	364	E 12	376
August	303	1	13	390	5	1	5	20 10	304 318	E 11	329
September						1					
October	299	1	12	312	4	1	4	15	290	E 11	301
November	293	1	12	306	5	1	4	19	279	E 11	291
December	320	1	13	334	4	1	3	30	296	_ ^E 12	308
Total	3,899	11	145	4,054	59	12	47	279	3,687	^E 136	3,823
2013 January	335	1	13	349	5	1	4	23	317	E 12	329

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

^a Commercial combined east-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

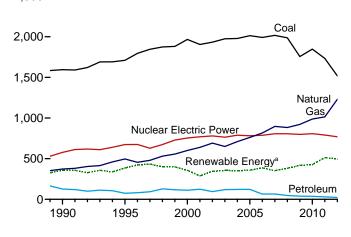
exports. e Transmission and distribution losses (electricity losses that occur between the television of television to the customer). See Note 2. "Electrical System point of generation and delivery to the customer). See Note 2, "Electrical System Energy Losses," at end of Section 2. ^f Data collection frame differences and nonsampling error.

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

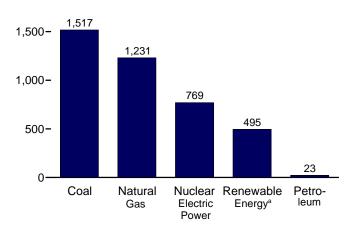
⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers.
 ^h Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.
 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/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

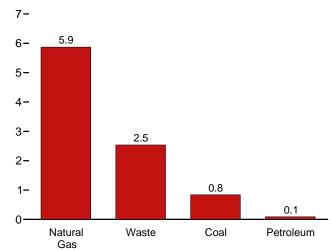
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

Total (All Sectors), Major Sources, 1989-2012 2,500-



Total (All Sectors), Major Sources, 2012 2,000-



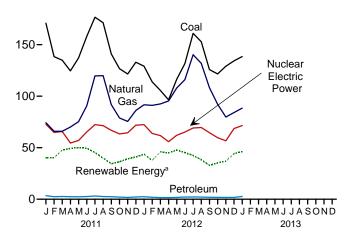


Commercial Sector, Major Sources, 2012

^a Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

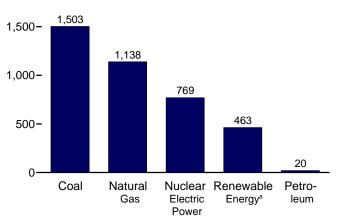
 $^{\rm b}\,\textsc{Blast}$ furnace gas, and other manufactured and waste gases derived from fossil fuels.

Total (All Sectors), Major Sources, Monthly 200-

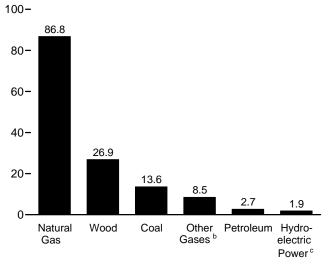


Electric Power Sector, Major Sources, 2012





Industrial Sector, Major Sources, 2012



° Conventional hydroelectric power.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.2a–7.2c.

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

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

		Fossil	Fuels						Renewab	le Energy			
	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	847,651	314,343	340,858	NA	83,479	(^f)	275,431	130	198	1,966	NA	NA	1,864,057
1975 Total	852,786	289,095	299,778	NA	172,505	(†)	303,153	18	174	3,246	NA	NA	1,920,755
1980 Total		245,994	346,240	NA	251,116	{¦	279,182	275	158	5,073	NA	NA	2,289,600
1985 Total 1990 Total ^k		<u>100,202</u> 126,460	291,946 372,765	<u>NA</u> 10,383	383,691 576,862	-3,508	284,311 292,866	743	<u>640</u> 13,260	<u>9,325</u> 15,434	<u>11</u> 367	2,789	2,473,002 3,037,827
1995 Total		74,554	496,058	13,870	673,402	-2,725	310,833	36,521	20,405	13,378	497	3,164	3,353,487
1996 Total		81,411	455,056	14,356	674,729	-3,088	347,162	36,800	20,911	14,329	521	3,234	3,444,188
1997 Total		92,555	479,399	13,351	628,644	-4,040	356,453	36,948	21,709	14,726	511	3,288	3,492,172
1998 Total	1,873,516	128,800	531,257	13,492	673,702	-4,467	323,336	36,338	22,448	14,774	502	3,026	3,620,295
1999 Total		118,061	556,396	14,126	728,254	-6,097	319,536	37,041	22,572	14,827	495	4,488	3,694,810
2000 Total		111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105
2001 Total		124,880	639,129	9,039	768,826	-8,823	216,961	35,200	14,548	13,741	543	6,737	3,736,644
2002 Total 2003 Total		94,567 119,406	691,006 649,908	11,463 15.600	780,064 763,733	-8,743 -8,535	264,329 275,806	38,665 37.529	15,044 15,812	14,491 14,424	555 534	10,354 11,187	3,858,452 3,883,185
2003 Total		121,145	710,100	15,252	788,528	-8,488	268,417	38,117	15,421	14,811	575	14,144	3,970,555
2005 Total		122.225	760.960	13,464	781,986	-6,558	270,321	38.856	15,420	14.692	550	17.811	4,055,423
2006 Total		64,166	816,441	14,177	787,219	-6,558	289,246	38,762	16,099	14,568	508	26,589	4,064,702
2007 Total		65,739	896,590	13,453	806,425	-6,896	247,510	39,014	16,525	14,637	612	34,450	4,156,745
2008 Total		46,243	882,981	11,707	806,208	-6,288	254,831	37,300	17,734	14,840	864	55,363	4,119,388
2009 Total		38,937	920,979	10,632	798,855	-4,627	273,445	36,050	18,443	15,009	891	73,886	3,950,331
2010 Total		37,061	987,697	11,313	806,968	-5,501	260,203	37,172	18,917	15,219	1,212	94,652	4,125,060
2011 January	170,803	3,457	74,254	930	72,743	-426	25,531	3,290	1,515	1,347	40	8,550	363,105
February	138,311	2,434 2.692	65,924 65,947	807 945	64,789 65.662	-247 -349	24,131 31.134	2,937 3,081	1,427 1,565	1,215 1,337	85 122	10,452 10,545	313,293 318,710
March April	134,845 124,488	2,692	70,029	945 918	54,547	-349	31,134	2,798	1,505	1,337	164	12,422	302,400
May	137,102	2,378	75,243	875	57.013	-418	32,587	2,794	1,563	1,318	191	11.772	323,627
June	158,055	2,594	90,691	1,013	65,270	-567	32,151	3,230	1,632	1,215	223	10,985	367,727
July	176,586	3,154	119,624	1,098	72,345	-708	31,285	3,362	1,690	1,269	191	7,489	418,693
August	171,281	2,594	119,856	1,087	71,339	-663	25,764	3,384	1,692	1,275	229	7,474	406,541
September	140,941	2,424	91,739	1,004	66,849	-553	21,378	3,178	1,589	1,226	186	6,869	337,961
October	126,627	2,062	78,819	941	63,337	-572	19,787	2,954	1,631	1,281	159	10,525	308,727
November	121,463	1,783 2,186	75,441	943 1.005	64,474	-441 -496	20,681 23,732	3,088 3,353	1,684 1,731	1,271 1,324	107 121	12,439 10.656	304,119
December Total	132,929 1,733,430	30,182	86,122 1,013,689	11,005	71,837 790,204	-490 -5,905	319,355	37,449	19,222	15,316	1,818	120,000	335,753 4,100,656
		,			,		,					,	
2012 January	129,115	2,444	91,641	980	72,381	-330	23,359	3,366	1,629	1,415	86	13,806	340,919
February March	113,908 105,546	1,926 1,561	91,091 92,503	1,005 1.010	63,847 61,729	-226 -268	20,361 25,770	3,126 2,938	1,537 1,663	1,339 1,413	137 249	11,164 13.897	310,151 309.040
April	96,466	1,564	92,503	980	55,871	-200	26,136	2,938	1,668	1,335	346	12,812	295,940
May	116,345	1,727	107,927	969	62,081	-343	28,542	2,997	1,713	1,422	511	12,573	337,530
June	131,569	2,056	116,015	945	65,140	-475	26,611	3,060	1,687	1,380	561	11,944	361,506
July	160,938	2,288	140,202	968	69,129	-587	26,758	3,296	1,769	1,421	522	8,724	416,515
August	152,743	2,072	131,828	1,024	69,602	-496	23,146	3,311	1,676	1,388	464	8,287	396,108
September	125,767	1,864	108,206	893	64,511	-401	17,562	3,143	1,628	1,377	462	8,680	334,735
October	121,587	1,861	92,141	820	59,743	-351	16,207	3,073	1,660	1,413	431	12,514	312,157
November December	128,992 134,230	1,779 1,757	79,707 84,103	759 858	56,713 68.584	-390 -549	18,834 23,248	3,216 3,350	1,633 1,762	1,429 1,459	314 258	11,513 14,175	305,548 334,335
Total	1,517,203	22,900	1,230,708	11,212	769,331	-4,658	276,535	37,540	20,025	16,791	4,342	140,089	4,054,485
2013 January	138,447	2,669	88,375	919	71,406	-442	25,123	3,299	1,587	1,444	288	14,535	348,642

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

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
 ^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^c Natural gas, plus a small amount of supplemental gaseous fuels.
 ^d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^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).

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, 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.

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/totalenergy/data/monthly/#electricity for all available data beginning in 1973.
 Sources: See sources for Tables 7.2b and 7.2c.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

		Fossil I	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 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1997 Total 1998 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total	1,402,128 1,572,109 1,686,056 1,771,973 1,850,762 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 1,998,330	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 42,881	340,858 299,778 346,240 291,946 309,486 419,179 378,757 399,596 449,293 472,996 517,978 554,940 607,683 567,303 627,172 683,829 734,417 814,752 802,372	NA NA NA 621 1,927 1,331 1,533 2,315 1,607 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042 3,200	83,479 172,505 251,116 383,691 576,682 673,402 674,729 628,644 673,702 728,254 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,225	(f) (f) (f) (f) (f) (f) (f) (f) (f) (f)	272,083 300,047 276,021 281,149 289,753 305,410 341,159 350,648 317,867 314,663 271,338 213,749 260,491 271,512 265,064 267,040 286,254 245,843 253,096	130 18 275 743 7,032 7,597 8,386 8,680 8,608 8,608 8,608 8,608 8,901 8,916 8,916 8,929 9,528 9,736 10,570 10,541 10,634	198 174 158 640 11,500 17,986 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 14,726 14,774 14,093 13,741 14,491 14,491 14,424 14,811 14,692 14,563 14,637 14,840	NA NA NA 11 367 497 521 502 495 493 555 534 555 550 558 612 864	NA NA 2,789 3,164 3,234 3,288 3,026 4,488 5,593 6,737 10,354 11,187 14,144 17,811 126,589 34,450 55,363	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 3,638,458 3,698,458 3,721,159 3,808,360 3,908,077 4,005,343 9,974,349
2009 Total 2010 Total	1,741,123 1,827,738	35,811 34,679	841,006 901,389	3,058 2,967	798,855 806,968	-4,627 -5,501	271,506 258,455	10,738 11,446	15,954 16,376	15,009 15,219	891 1,206	73,886 94,636	3,809,837 3,972,386
2011 January February March April June July August September October November December Total	169,390 137,082 133,584 123,272 135,820 156,716 175,129 169,798 139,648 125,442 120,323 131,686 1,717,891	3,229 2,255 2,526 2,257 2,218 3,006 2,449 2,272 1,894 1,632 2,025 28,202	66,932 59,380 59,362 63,257 68,175 83,426 111,502 111,540 84,300 71,962 68,262 78,193 926,290	243 207 252 244 259 262 264 252 240 227 247 2,939	72,743 64,789 65,662 54,547 57,013 65,270 72,345 71,339 66,849 63,337 64,474 71,837 790,204	-426 -247 -349 -466 -418 -567 -708 -663 -553 -572 -441 -496 -5,905	25,386 23,970 30,945 31,008 32,386 31,999 31,173 25,666 21,254 19,660 20,533 23,552 317,531	981 886 897 705 760 936 1,048 916 807 800 959 10,733	1,247 1,180 1,299 1,251 1,365 1,413 1,407 1,319 1,354 1,403 1,455 15,989	1,347 1,215 1,337 1,239 1,318 1,215 1,269 1,275 1,226 1,281 1,271 1,324 15,316	37 81 116 155 181 210 181 218 177 151 103 117 1,727	8,547 10,448 10,540 12,417 11,767 10,981 7,486 7,471 6,865 10,519 12,431 10,649 120,121	350,234 301,798 306,808 290,519 311,401 354,929 404,802 392,471 325,143 296,704 291,657 322,237 3,948,701
2012 January February March June July August September October November December Total 2013 January	127,857 112,775 104,379 95,403 115,212 130,371 159,516 151,372 124,585 120,392 127,836 133,034 1,502,732 137,301	2,144 1,727 1,358 1,344 1,541 1,842 2,071 1,813 1,625 1,635 1,635 1,635 2,498 20,122 2,433	83,819 83,629 85,311 88,356 100,212 108,256 131,757 123,795 100,681 84,574 71,950 75,731 1,138,072 80,113	237 233 241 234 226 228 237 244 225 206 183 224 2,719 221	72,381 63,847 61,729 55,871 62,081 65,140 69,129 69,602 64,511 56,713 68,584 769,331 71,406	-330 -226 -268 -242 -343 -475 -587 -496 -401 -351 -390 -549 -4,658 -442	23,181 20,201 25,580 25,973 28,357 26,476 26,646 23,045 17,467 16,097 18,595 23,026 274,644 24,776	952 879 830 642 802 869 989 989 989 1,016 892 829 906 959 10,566 937	1,349 1,264 1,394 1,395 1,426 1,414 1,467 1,379 1,348 1,360 1,335 1,444 16,574 1,306	1,415 1,339 1,413 1,335 1,422 1,380 1,421 1,388 1,377 1,413 1,429 1,459 16,791 1,444	83 132 240 334 493 544 506 451 447 417 305 252 4,203 282	13,798 11,157 13,888 12,804 12,565 11,936 8,719 8,282 8,675 12,507 11,508 14,167 140,004 14,526	327,525 297,543 296,736 284,075 324,644 348,626 402,532 382,523 322,061 299,443 299,542 320,482 3,898,702 334,889

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

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
 ^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^c Natural gas, plus a small amount of supplemental gaseous fuels.
 ^d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^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.

¹ Solar thermal and protovoltate (FV) energy. ¹ 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 producers. NA=Not available.

for electric utilites 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/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

	Commercial Sector ^a						Industrial Sector ^b								
	Coalc	Petro- leum ^d	Natural Gas ^e	Biomass Waste ^f	Total ^g	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- electric Power ⁱ	Bion Wood ^j	nass Waste ^f	Total ^k		
		louin	•	indete				•	Cubbo			muono	. eta.		
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	589 379	3,272	812	5,837	21,107	7,008	60,007	9,641	2,975	25,379	949 900	130,830		
1995 Total 1996 Total	998 1,051	369	5,162 5,249	1,519 2.176	8,232 9.030	22,372 22.172	6,030 6,260	71,717 71,049	11,943 13,015	5,304 5,878	28,868 28,354	900	151,025 151.017		
1997 Total	1.040	427	4,725	2,170	8,701	23,214	5,649	75,078	11,814	5,685	28,334	882	154,097		
1998 Total	985	383	4,723	2,342	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 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 Total	1,096	163	4,225	1,748	8,165	13,686	2,963	75,748	7,574	1,868	25,292	740	132,329		
2010 Total	1,111	124	4,725	1,672	8,592	18,441	2,258	81,583	8,343	1,668	25,706	869	144,082		
2011 January	108	21	421	186	817	1,304	207	6,901	687	143	2,307	82	12,054		
February	104	11	367	169	725	1,125	168	6,177	600	160	2,048	78	10,770		
March	100	7	373	188	753	1,161	160	6,212	693	187	2,181	78	11,149		
April	77	4	357	179	706	1,139	163	6,416	674	184	2,090	73	11,175		
May	82	5	471	202	867	1,199	156	6,597	633	198	2,033	66	11,359		
June	90	3	463	200	860	1,249	152	6,802	753	150	2,292	67	11,938		
July	104	7	605	205	1,023	1,353	141	7,517	836	109	2,312	71	12,868		
August	94	7	571	210	985	1,389	138	7,745	823	96	2,343	76	13,085		
September	84 65	7 6	487 438	195 190	870 799	1,209 1,120	145 162	6,953 6,419	752 700	122 126	2,260 2,146	75 86	11,948 11,224		
October November	62	6 7	430	190	800	1.077	162	6,419	700	120	2,146	86	11,224		
December	78	6	437	195	874	1,077	143	7.429	715	140	2,200	81	12.642		
Total	1,049	89	5,487	2,315	10,080	14,490	1,891	81,911	8,624	1,799	26,691	917	141,875		
	84	7	528	203	913	1 175	294	7.293	743	175	2.412	77	12.480		
2012 January	84 78	5	528 499	203	913 875	1,175 1,055	294 194	7,293 6,963	743	175	2,412	72	12,480		
February March	78	5 5	499 476	202 199	875	1,055	194	6,963	769	157	2,246	72	11,733		
April	64	6	478	202	843	998	214	6,522	709	160	2,022	70	11,452		
May	70	6	480	202	880	1.063	180	7.235	743	182	2,022	77	12.006		
June	68	10	493	202	880	1,130	204	7,266	717	131	2,188	71	12,000		
July	78	12	553	219	980	1.344	205	7.892	731	109	2,304	82	13.003		
August	71	10	498	220	917	1,299	249	7,535	779	97	2,293	77	12,669		
September	58	8	480	211	869	1,124	231	7,045	668	92	2,249	69	11,805		
October	43	9	471	219	855	1,152	217	7,096	614	107	2,241	81	11,860		
November	72	7	447	217	845	1,085	250	7,309	576	236	2,308	81	12,191		
December	81	6	478	231	911	1,115	252	7,894	634	218	2,388	88	12,942		
Total	837	90	5,870	2,536	10,621	13,634	2,688	86,767	8,490	1,851	26,949	915	145,162		
		15	522												

(Subset of Table 7.2a; Million Kilowatthours)

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants. ^b Industrial combined-heat-and-power (CHP) and industrial electricity-only

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

^c Anthracite, bituminous coal, subbituminous coal, lighte, waste out, included and performing in 2011, propane.
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^e 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 Includes a small amount of conventional hydroelectric power, other gases, photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed.

^h Blast furnace gas, and other manufactured and waste gases derived from

 Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ¹ Conventional hydroelectric power.
 ¹ Wood and wood-derived fuels.
 ^k Includes photovoltaic (PV) energy, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and fur derived fuels). tire-derived fuels). NA=Not available.

Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at voice. • 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/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.



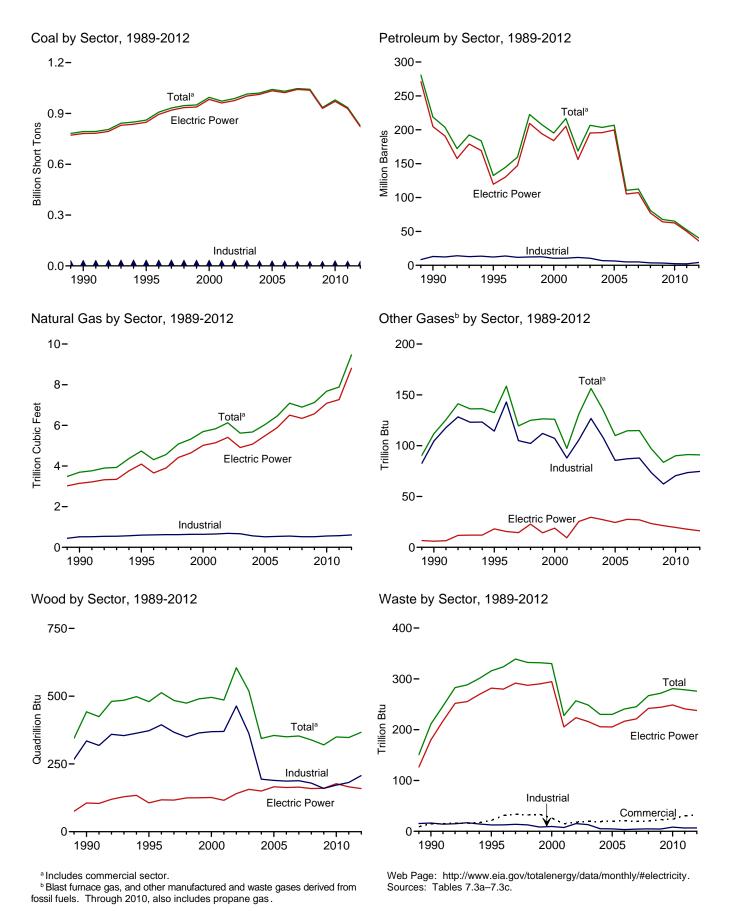


Table 7.3a **Consumption of Combustible Fuels for Electricity Generation:** Total (All Sectors) (Sum of Tables 7.3b and 7.3c)

				Petroleum					Bior	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	ousand 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	569,274	29,051	391,163	NA	179	421,110	3,682	NA	· ´3	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	792,457	18,143	190,652	437	1,914	218,800	3,692	112	442	211	36
1995 Total 1996 Total	860,594 907,209	19,615 20,252	95,507 106,055	680 1,712	3,355 3,322	132,578 144,626	4,738 4,312	133 159	480 513	316 324	42 37
1997 Total	931,949	20,252	118,741	237	4.086	159,715	4,565	119	484	339	36
1998 Total	946.295	25.062	172.728	549	4,860	222.640	5.081	125	475	332	36
1999 Total	949,802	25,951	158,187	974	4,552	207,871	5,322	126	490	332	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	228 257	160
2002 Total 2003 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	191 193
2003 Total	1,020,523	20,163	142,088	2,856	7,677	200,055 203,494	5,675	135	344	249	183
2005 Total	1.041.448	20,651	141.518	2,968	8,330	206,785	6.036	110	355	230	173
2006 Total	1,030,556	13,174	58,473	2,174	7,363	110,634	6,462	115	350	241	172
2007 Total	1,046,795	15,683	63,833	2,917	6,036	112,615	7,089	115	353	245	168
2008 Total	1,042,335	12,832	38,191	2,822	5,417	80,932	6,896	97	339	267	172
2009 Total 2010 Total	934,683 979,684	12,658 14,050	28,576 23,997	2,328 2,056	4,821 4,994	67,668 65,071	7,121 7,680	84 90	320 350	272 281	170 184
2011 January	90.208	1.347	1.723	255	552	6.086	564	7	31	22	16
February	73,614	913	1,020	144	431	4,230	505	6	28	21	15
March	72,645	907	1,113	140	517	4,746	503	7	29	23	17
April	67,128	1,005	1,333	111	336	4,130	546	7	25	22	17
May	73,522	973	1,230	88	357	4,078	599	7	26	23	18
June	84,156	968 1.138	1,249 1,550	138 238	432 510	4,514 5,476	727	8 9	30 31	24 25	18 19
July August	94,304 92,297	831	1,313	230 146	464	5,476 4,610	967 951	9	32	25 25	19
September	76,790	736	942	156	454	4,105	712	8	30	23	17
October	69,605	753	938	143	338	3,522	600	7	27	24	17
November	67,059	768	917	147	257	3,115	568	8	28	24	17
December	73,610	892	922	138	365	3,775	642	8	31	25	18
Total	934,938	11,231	14,251	1,844	5,012	52,387	7,884	91	348	279	205
2012 January	70,846	816	994	78	465	4,213	675	8	33	22	15
February	62,906	689	760	118	354	3,340	673	8	31	21	14
March	57,442	599	875	128	234	2,771	702	8	28	23 23	15
April May	51,893 62,978	789 907	799 839	141 166	202 245	2,741 3,138	742 844	8 8	26 29	23 24	14 16
June	71.750	899	1.299	177	245	3,698	911	8	30	24	15
July	86,667	894	1,608	174	291	4,131	1,123	8	32	25	16
August	82,862	723	1,143	154	319	3,617	1,034	8	33	23	16
September	69,490	681	836	112	313	3,196	834	7	31	22	15
October	66,745	776	937	148	266	3,188	699	7	29	23	15
November December	69,977 73,144	737 687	782 816	118 126	298 300	3,126 3,128	609 618	6 7	31 33	23 24	15 16
Total	826,700	9,196	11,687	1,639	3,552	40,285	9,465	91	367	276	181
2013 January	75.110	1,027	1.547	246	375	4.696	660	7	32	22	14

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

^a Anthracite, biturninous coal, substantiness coal, be performed and substantiate of the substantiation of th

oil no. 4. $^{\rm d}$ Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, Propane. ^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

f

Performation over a converted information ratio to barries by intellipting by 5.
 Natural gas, plus a small amount of supplemental gaseous trels.
 Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.

Wood and wood-derived rules.
 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

¹ 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 only.

for electric utilities, independent power producers, commercial plants, and industrial plants.

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

components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See sources for Tables 7.3b and 7.3c.

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	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 1975 Total 1980 Total 1985 Total 1990 Total ^k	569,274 693,841	47,058 38,907 29,051 <u>14,635</u> 16,394	513,190 467,221 391,163 <u>158,779</u> 183,285	NA NA NA NA 25	507 70 179 <u>231</u> 1,008	562,781 506,479 421,110 <u>174,571</u> 204,745	3,660 3,158 3,682 <u>3,044</u> 3,147	NA NA NA NA 6	(s) 3 106	2 2 2 7 180	NA NA NA NA (s)
1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1999 Total	847,854 894,400 919,009 934,126 937,888	18,066 18,472 18,646 23,166 23,875	88,895 98,795 112,423 165,875 151.921	23 441 567 130 411 514	2,452 2,467 3,201 3,999 3,607	119,663 130,168 147,202 209,447 194,345	3,147 4,094 3,660 3,903 4,416 4,644	18 16 14 23 14	106 106 117 117 125 125	282 280 292 287 290	(5) 2 1 2 1
2000 Total 2001 Total 2002 Total 2002 Total 2003 Total 2004 Total	982,713 961,523 975,251 1,003,036	29,722 29,056 21,810 27,441 18,793	138,047 159,150 104,577 137,361 138,831	403 374 1,243 1,937 2,511	3,155 3,308 5,705 5,719 7,135	183,946 205,119 156,154 195,336 195,809	5,014 5,142 5,408 4,909 5,075	19 9 25 30 27	126 116 141 156 150	294 205 224 216 206	1 109 137 136 131
2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 Total	1,033,567 1,022,802 1,041,346 1,036,891	19,450 12,578 15,135 12,318 11,848 13,677	138,337 56,347 62,072 37,222 27,768 23,560	2,591 1,783 2,496 2,608 2,110 1,848	7,877 6,905 5,523 5,000 4,485 4,679	199,760 105,235 107,316 77,149 64,151 62,477	5,485 5,891 6,502 6,342 6,567 7,085	24 28 27 23 21 20	166 163 165 159 160 177	205 216 221 242 244 249	116 117 117 122 115 116
2011 January February March April May June July August September October November December Total	89,681 73,167 72,148 66,643 73,010 83,622 93,724 91,707 76,286 69,165 66,642 73,063 928,857	1,314 886 882 989 955 951 1,117 812 714 727 745 868 10,961	1,660 977 1,082 1,302 1,206 1,223 1,524 1,287 915 906 889 891 13,861	238 127 124 96 72 123 223 130 140 128 132 123 1,655	524 409 495 312 333 409 491 440 428 312 232 339 4,726	5,833 4,033 4,563 3,948 3,899 4,344 5,317 4,430 3,911 2,926 3,579 50,105	512 459 457 498 548 675 909 893 659 551 518 586 7,265	1 1 2 1 1 2 2 2 1 1 1 1 8	15 14 14 12 14 16 16 14 13 12 15 166	19 18 20 19 20 21 21 21 21 20 20 21 22 241	10 10 11 11 12 12 12 12 11 11 11 12 133
2012 January February March April June July September October December December Total	70,382 62,486 57,010 51,504 62,569 71,310 86,138 82,344 69,048 66,287 69,550 72,738 821,365	797 674 582 766 885 871 867 696 656 749 717 669 8,929	958 725 845 773 808 1,276 1,579 1,119 812 914 760 792 11,362	62 102 119 113 158 159 166 147 101 125 112 115 1,479	382 306 183 153 215 237 247 247 213 223 223 226 2,827	3,727 3,032 2,463 2,415 2,831 3,380 3,796 3,195 2,851 2,857 2,851 2,704 2,706 35,907	620 621 652 693 789 856 1,063 977 781 645 553 559 8,810	1 1 1 1 1 1 1 1 1 1 1 1 6	15 14 12 10 12 13 15 15 14 12 13 14 12 13 14 159	19 17 20 21 20 21 20 19 20 20 21 238	11 10 10 11 11 12 11 11 11 11 11 11 11 29
2013 January	74,704	1,001	1,501	232	322	4,343	602	1	14	19	10

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

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal 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. $^{\rm d}$ Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane. ^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

Perfore the over is converted in short costs to barries by intuitiplying by 5.
 Natural gas, plus a small amount of supplemental gaseous trels.
 Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.

¹ Wood and wood-derived rules. ¹ 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).

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 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. 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. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

		Commerci	ial Sector ^a				Indu	strial Sector	b		
			Natural	Biomass	-		Natural	Other	-	nass ,	
	Coalc	Petroleumd	Gas ^e	Wastet	Coalc	Petroleumd	Gas ^e	Gases ^g	Wood ^h	Wastet	Other
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1989 Total 1990 Total 1995 Total 1995 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2005 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2009 Total 2007 Total 2008 Total 2009 Total 2009 Total	414 417 569 656 630 440 481 514 532 477 582 377 377 377 377 361 361 369 317 314	1,165 953 649 645 790 802 931 823 1,023 834 894 766 585 333 258 166 190 172	18 28 43 39 37 36 33 38 33 34 35 34 33 34 33 34 33	9 15 21 34 32 33 26 15 15 19 20 21 19 20 21 20 23 22 24	9,707 10,740 12,171 12,153 12,311 11,728 11,432 11,706 10,636 11,855 10,440 7,687 7,504 7,508 5,075 4,674 8,125	8,482 13,103 12,265 13,813 11,723 12,392 10,530 10,530 11,608 10,424 6,919 6,440 5,066 5,064 3,617 3,328 2,422	444 517 601 623 625 639 640 654 685 668 556 518 536 554 520 525	83 104 114 143 105 102 112 107 88 106 127 108 85 87 88 87 88 87 3 62 70	267 335 373 364 369 364 369 370 464 362 194 189 187 188 179 160 172	15 16 13 14 13 8 10 7 15 13 5 3 4 5 4 8	37 36 35 35 35 45 44 43 46 45 41 39 42 55
2011 January February April June July August September October December Total	40 39 37 25 25 27 32 29 26 21 21 21 26 347	27 16 11 5 5 14 12 13 10 11 9 137	4 3 3 4 4 5 5 4 4 4 4 4 4 7	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1	487 409 460 487 507 548 562 479 419 397 521 5,735	226 180 173 177 174 165 168 181 191 179 187 2,145	48 43 45 47 48 53 54 49 45 47 51 572	6 5 6 6 7 7 7 6 6 6 6 6 7 4	16 14 15 14 16 16 16 15 15 16 16 182	1 1 1 1 1 1 1 1 1 1 1 7	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
2012 January February April May June July August September October December Total	29 27 25 22 24 26 28 24 20 26 26 28 310	9 7 8 10 9 15 18 16 12 13 11 9 136	4 4 4 4 5 4 4 4 4 4 4 4 9	3 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	435 393 407 366 385 413 500 491 418 438 401 378 5,026	476 301 300 298 303 318 407 377 324 412 412 412 412	50 48 46 51 51 55 53 50 50 50 51 55 606	6 7 6 6 6 7 6 5 5 6 75	18 17 15 16 17 17 18 18 17 17 18 19 207	1 1 1 1 1 1 1 1 1 1 7	3 3 3 3 3 3 3 3 3 3 3 3 3 36
2013 January	31	22	4	3	375	331	54	6	18	1	3

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

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

 $\underset{b}{\text{plants.}}$ plants. CHP) and industrial electricity-only

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

^c Anthracite, bituminous coal, subbituminous coal, ingrine, waste ocal, ingrine, and beginning in 2011, propane.
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^e 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, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.

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. 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.

and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989. Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report.— Nonutility." • 2001-2003: EIA, Form EIA-966, "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."

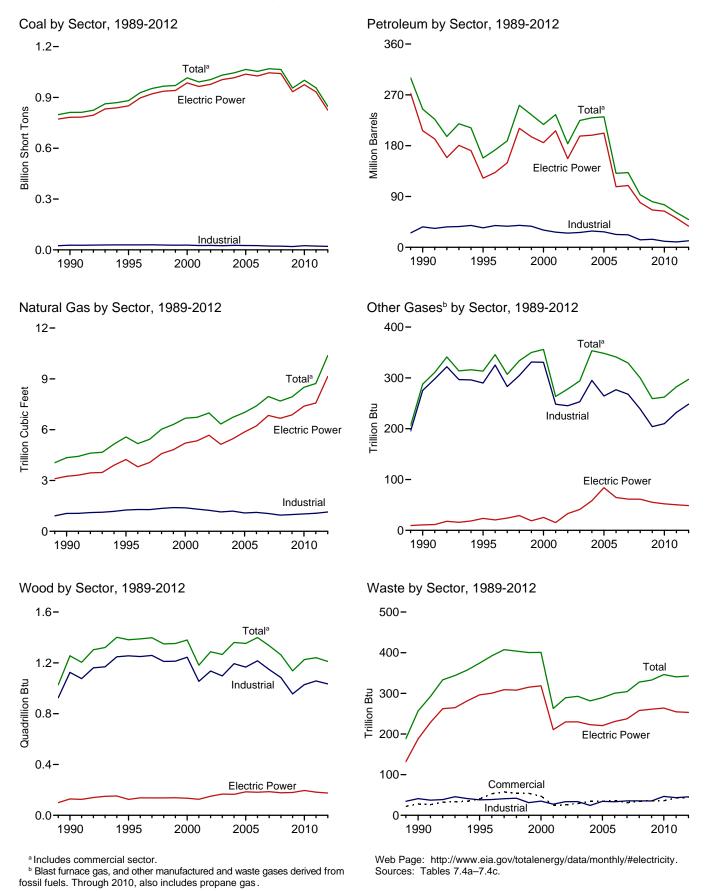


Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output

				Petroleum					Bior	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tr	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
					-						
1973 Total 1975 Total	389,212 405,962	47,058 38,907	513,190 467,221	NA NA	507 70	562,781 506,479	3,660 3,158	NA NA	1 0	2 2	NA NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total	693 841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	811,538	20,194	209,081	1,332	2,832	244,765	4,346	288	1,256	257	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 22.893	124,607	2,468 526	4,596	172,499	5,178 5,433	346 307	1,389 1,397	392 407	91 103
1997 Total 1998 Total	952,955 966,615	22,893 30,006	134,623 189,267	1,230	6,095 6,196	188,517 251,486	5,433 6,030	307	1,397	407	95
1999 Total		30,616	172,319	1,812	5.989	234.694	6,305	350	1.352	400	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		31,825	152,859	4,576	7,067	224,593	6,337	294	1,266	293	262
2004 Total 2005 Total	1,044,798 1,065,281	23,520 24,446	157,478 156,915	4,764 4,270	8,721 9,113	229,364 231,193	6,727 7,021	353 348	1,360 1,353	282 289	254 237
2005 Total		14,655	69,846	3,396	8,622	131,005	7,404	340	1,355	300	237
2007 Total		17.042	74,616	4.237	7.299	132.389	7,962	329	1,336	304	239
2008 Total	1,064,503	14,137	43,477	3,765	6,314	92,948	7,689	300	1,263	328	212
2009 Total	955,190	14,800	33,672	3,218	5,828	80,830	7,938	259	1,137	333	228
2010 Total	1,001,411	15,247	26,944	2,777	6,053	75,231	8,502	262	1,226	346	237
2011 January	92,292	1,411	2,123	329	645	7,087	636	23	111	28	20
February	75,447	986	1,247	213	521	5,052	570	22	99	26	19
March	74,514	965	1,327	201	603	5,506	570	24	104	28	22
April	68,841	1,034	1,537	166	428	4,876	610	22	96	26	21
May June	75,298 85,881	1,016 1,001	1,416 1,450	146 191	452 521	4,838 5,246	666 794	23 24	95 104	27 28	22 23
July		1,169	1,738	292	599	6,194	1.045	24	104	20	23
August	94,103	855	1,515	204	545	5,298	1.030	25	107	29	23
September		770	1,136	207	545	4,837	782	24	104	28	21
October	71,317	797	1,147	201	429	4,289	666	24	100	30	22
November		805	1,118	201	345	3,848	636	23	103	30	22
December	75,422	926	1,123	189	460	4,537	718	24	111	31	23
Total	956,470	11,735	16,877	2,540	6,092	61,610	8,724	282	1,241	340	261
2012 January	72,795	847	1,188	131	561	4,970	755	26	109	28	18
February	64,604	710	892	168	449	4,015	746	25	101	26	16
March		626	994 920	198 219	360	3,617 3,538	775 814	27 25	96 91	29 27	17 17
April May	53,407 64,678	814 938	920 991	219 206	317 355	3,538	814 917	25	91 100	27	17 18
June	73,344	938	1,458	200	365	4,458	987	20	100	29	18
July		937	1,767	205	385	4,836	1,203	25	105	29	18
August	84,597	754	1,303	180	412	4,297	1,113	26	103	28	18
September	71,050	705	973	146	406	3,854	908	23	101	27	17
October	68,476	803	1,087	214	379	3,999	774	22	98	29	17
November	71,660 74,951	765 712	931 961	148 164	405 418	3,868 3,927	682 696	22 25	100 106	30 32	17 18
December Total		9,555	13,465	2,214	418 4,811	3,927 49,287	10,370	25 297	1,211	32 343	209
				,	,	,	,		,		
2013 January	76,882	1,066	1,716	298	505	5,603	739	25	107	30	17

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)

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

Antifractie, bituminous coal, cossiliant of a contraction of the contraction

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

f

Perfore the over is converted in short costs to barries by intuitiplying by 5.
 Natural gas, plus a small amount of supplemental gaseous tyels.
 Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.

¹¹ Wood and wood-derived rules. ¹ 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).

^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 plants. 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/totalenergy/data/monthly/#electricity for all available data beginning in 1973.

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

				Petroleum					Bior	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	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 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2006 Total 2006 Total 2006 Total 2007 Total	782,567 850,230 896,921 921,364 936,619 940,922 985,821 964,433 977,507 1,005,116 1,016,268 1,037,485 1,026,636 1,045,141	47,058 38,907 29,051 14,635 16,567 18,553 18,780 23,300 24,058 30,016 29,274 21,876 27,632 21,9,107 19,675 12,646 15,327 15,327	513,190 467,221 391,163 99,023 184,915 90,023 113,669 166,528 152,493 138,513 138,513 138,513 138,279 139,816 139,409 139,816 139,409	NA NA NA 26 499 653 152 431 544 454 454 454 454 454 454 454 2,026 2,713 2,685 1,870 2,594 2,594	507 70 179 231 1,008 2,674 2,642 3,372 3,775 3,472 3,775 3,427 5,816 5,799 7,372 8,083 7,101 5,665 5,665 5,665	562,781 506,479 421,110 206,550 122,447 132,593 149,668 210,769 195,769 195,769 195,769 195,769 195,769 195,769 195,821 156,996 196,932 198,498 202,184	3,660 3,158 3,682 3,044 3,245 4,237 3,807 4,065 4,588 4,420 5,206 5,342 5,526 5,458 5,458 5,545 5,464 5,5454 5,869 6,222 6,841 5,869	NA NA NA 11 24 20 24 29 19 25 53 33 41 58 84 65	1 (s) 3 8 129 125 138 137 138 134 134 150 165 185 185 185 185	2 2 2 7 188 296 300 309 308 315 318 211 230 223 223 221 231 231 237	NA NA NA (s) 2 1 1 1 1 1 1 1 1 1 1 1 1 3 143 143 143 1
2008 Total 2009 Total 2010 Total	1,040,580 933,627 975,052	12,547 12,035 13,790	38,241 28,782 24,503	2,670 2,210 1,877	5,119 4,611 4,777	79,056 66,081 64,055	6,668 6,873 7,387	61 55 52	177 180 196	258 261 264	131 124 124
2011 January February April June July September October November December Total	90,021 73,474 72,458 66,930 73,338 83,908 94,037 92,012 76,569 69,458 66,919 73,359 932,484	1,322 911 885 991 957 954 1,120 816 730 748 870 11,021	1,745 1,024 1,153 1,384 1,286 1,303 1,609 1,375 1,002 990 968 965 14,803	239 127 124 96 72 123 223 130 140 128 134 123 1,658	529 417 506 321 344 419 501 451 439 319 241 350 4,837	5,953 4,148 4,692 4,078 4,034 4,474 5,458 4,575 4,052 3,445 3,052 3,707 51,667	540 484 482 521 572 699 939 921 684 575 543 614 7,574	4 5 4 4 4 4 4 4 50	17 16 15 12 13 16 17 17 15 14 14 16 182	21 19 21 20 21 22 22 21 22 21 22 23 25	11 12 12 12 13 13 12 12 12 12 12 12 12 143
2012 January February March April May June July August September October November December Total	70,720 62,755 57,300 51,751 62,868 71,595 86,429 82,643 89,321 66,565 69,798 73,011 824,758 74,968	800 676 585 769 890 874 871 699 659 753 720 672 8,968 1,007	1,050 787 895 836 889 1,362 1,656 1,199 889 997 841 874 12,272 1,551	63 102 119 113 158 159 166 147 101 125 112 115 1,480 232	393 317 194 162 207 221 246 256 257 222 232 232 236 2,940 332	3,877 3,149 2,568 2,526 2,971 3,497 3,922 3,324 2,933 2,982 2,832 2,832 2,841 37,420 4,449	648 648 677 720 817 1,093 1,007 807 671 578 585 9,137 629	4 4 4 4 4 4 4 4 4 4 4 4 9	16 15 14 11 13 15 16 15 14 15 16 176 16	21 19 21 20 22 21 21 20 21 20 21 22 23 253	12 10 11 12 12 12 12 11 11 11 11 12 139

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

^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 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, waste oil, and, beginning in 2011,

Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011,

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

^e 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, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h 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

tire-derived fuels)

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 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: • 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/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

		Commerc	ial Sectora				Indu	strial Sector	b		
	Coal ^c	Petroloumd	Natural Gas ^e	Biomass	Cool	Petroloumd	Natural Gas ^e	Other Gases ^g	Biom Wood ^h		Other ⁱ
	Coale	Petroleum ^d	Gas	Waste [†]	Coalc	Petroleumd	Gase	Gases	wood	Waste [†]	Other
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	ı 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 39	95
1996 Total 1997 Total	1,660 1,738	1,246 1.584	82 87	53 58	29,434 29.853	38,661 37,265	1,289 1,282	325 283	1,249 1,259	39 41	89 102
1998 Total	1,730	1,584	87	54	29,855	38,910	1,202	305	1,239	41	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	1,832	79	25	25,755	26,817	1,310	248	1,054	27	101
2002 Total	1,405	1,250	74	26	26,232	25,163	1,240	245	1,136	34	92
2003 Total	1,816	1,449	58	29	24,846	26,212	1,144	253	1,097	34	103
2004 Total 2005 Total	1,917 1,922	2,009 1,630	72 68	34 34	26,613 25,875	28,857 27,380	1,191 1,084	295 264	1,193 1,166	24 34	94 94
2006 Total	1,886	935	68	36	25,262	22,706	1,115	277	1,216	33	102
2007 Total	1,927	752	70	31	22,537	22,207	1,050	268	1,148	36	98
2008 Total	2,021	671	66	34	21,902	13,222	955	239	1,084	35	60
2009 Total	1,798	521	76	36	19,766	14,228	990	204	955	35	82
2010 Total	1,720	437	86	36	24,638	10,740	1,029	210	1,029	47	91
2011 January	189	103	7	3	2,082	1,031	90	18	94	4	7
February	173	48	6	3	1,800	856	81	18	83	4	7
March	164	26	6	3	1,891	788	82	19	88	4	8
April	124 124	8 12	6 7	3	1,787 1.836	791 791	83 87	18 19	84 82	3 3	5
May June	124	9	7	4	1,030	764	88	20	o∠ 88	3	6
July	145	23	9	4	1,946	714	97	20	90	3	
August	129	20	9	4	1,962	703	99	20	90	3	Ē
September	122	23	8	4	1,788	762	91	20	88	3	7
October	110	14	7	4	1,748	830	85	20	86	4	8
November	117	28	7	4	1,712	767	86	19	90	5	8
December Total	139 1,668	19 333	8 87	4 43	1,923 22,319	812 9,610	96 1, 063	20 232	95 1, 057	4 43	8 94
2012 January	162	27	9	4	1,913	1,065	98	21	93	4	4
February	141	20	8	4	1,708	847	90	21	86	4	3
March	135	23	8	4	1,707	1,026	90	22	82	4	4
April	115	16	7	3	1,542	997	87	21	80	4	3
May	121 114	17 29	7 8	4	1,689 1,634	921 932	93 94	22 21	87 85	4	4
June July	114	29	o 8	3	1,634	932 876	94 101	21	60 89	3	2
August	126	32	8	3	1,773	942	98	22	86	4	-
September	116	25	8	3	1,613	896	93	19	85	4	2
October	115	28	8	4	1,796	989	95	18	85	4	2
November	134	25	7	4	1,728	1,011	97	19	86	4	4
December	151	23	8	4	1,789	1,064	103	21	90	5	4
Total	1,549	302	94	44	20,717	11,566	1,139	248	1,034	45	45
2013 January	153	53	8	4	1,760	1,101	102	21	91	4	4

Table 7.4c Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output: Commercial and Industrial Sectors (Subset of Table 7.4a)

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

plants. ^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. ^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

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, waste oil, and, beginning in 2011, propane.
 ^e 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 fuels).

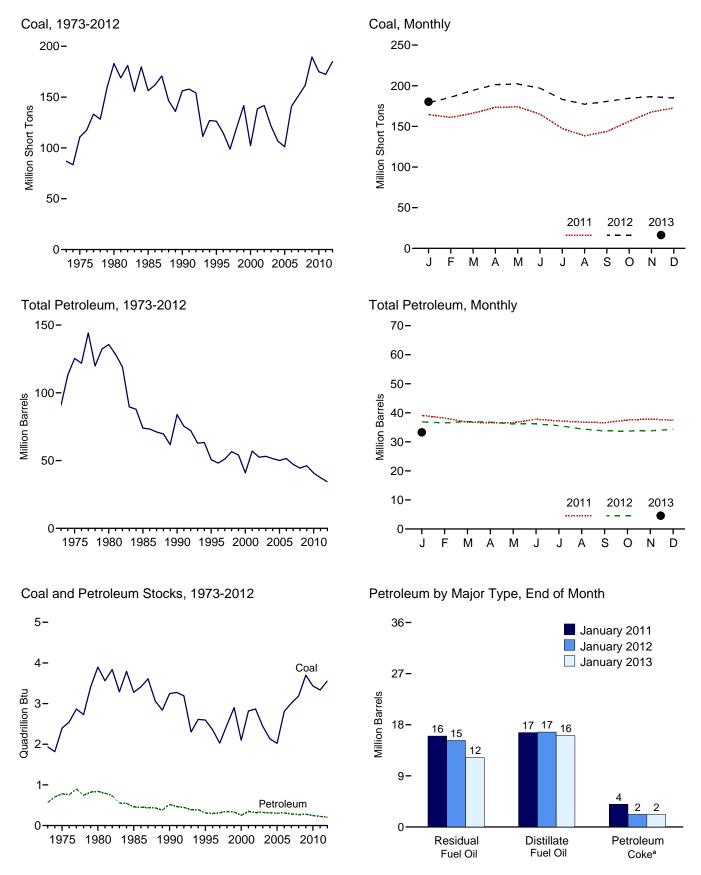
tire-derived fuels). ⁹ Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

h Wood and wood-derived fuels.

ⁿ Wood and wood-derived fuels. 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: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at the section of Power Plants Into Energy-Use Sectors," at the section was to components due to independent in the section.

Notes: • Šee 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/totalenergy/data/monthly/#electricity for all available data beginning in 1989.
 Sources: • **1989-1997**: U.S. Energy Information Administration (EIA), Form EIA-8608, "Annual Nonutility Power Producer Report." • **1998-2000**: EIA, Form EIA-8608, "Annual Electric Generator Report." • **1998-2000**: EIA, Form EIA-960, "Power Plant Report." • **2004-2007**: EIA, Form EIA-906, "Power Plant Report." • **2004-2007**: EIA, Form EIA-906, "Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

Stocks of Coal and Petroleum: Electric Power Sector Figure 7.5



^a Converted from short tons to barrels by multiplying by 5. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity.

	Table 7.5	Stocks of Coal and Petroleum:	Electric Power Sector
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				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e
	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	31	125,413
1980 Year		30,023	105,351	NA	52	135,635
1985 Year		16.386	57.304	NA	49	73,933
1990 Year		16,471	67.030	NA	94	83.970
		15.392	35.102	NA	65	50,821
1995 Year				NA	91	
1996 Year		15,216	32,473			48,146
1997 Year		15,456	33,336	NA	469	51,138
1998 Year		16,343	37,451	NA	559	56,591
1999 Year [†]		17,995	34,256	NA	372	54,109
2000 Year		15,127	24,748	NA	211	40,932
2001 Year		20,486	34,594	NA	390	57,031
2002 Year	141,714	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
2005 Year		18,778	27,624	1,012	530	50,062
2006 Year		18,013	28.823	1,380	674	51,583
					554	
2007 Year		18,395	24,136	1,902		47,203
2008 Year		17,761	21,088	1,955	739	44,498
2009 Year	189,467	17,886	19,068	2,257	1,394	46,181
2010 Year	174,917	16,758	16,629	2,319	1,019	40,800
2011 January		16,613	16,012	2,492	799	39,111
February	161,064	16,565	15,552	2,545	707	38,198
March	166,255	16,367	15,405	2,546	495	36,794
April	173.427	16,153	15,181	2,561	526	36.525
May	174.093	15,997	15.209	2,539	563	36,558
June		16.379	16.359	2,601	496	37,820
July		16,170	16,111	2,622	463	37.218
August		16,162	15,843	2,631	437	36,822
		16,311	15,726	2,628	385	36,593
September					440	
October		16,567	16,044	2,681		37,495
November		16,729	15,964	2,744	494	37,906
December	172,387	16,649	15,491	2,707	508	37,387
2012 January		16,712	15,232	2,735	443	36,893
February		16,532	15,121	2,778	420	36,532
March		16,423	15,244	2,815	500	36,984
April	201,368	16,325	15,082	2,856	507	36,795
May		16.232	14,747	2.872	459	36,147
June		16,152	14,500	2,900	519	36,145
July		16.581	13.728	2,941	474	35.617
August		16.023	13,509	2,840	413	34,439
		15,920	13,309	2,840	358	33,773
September						
October		15,813	13,148	2,774	398	33,725
November		15,837	13,039	2,808	423	33,796
December	184,923	16,061	12,995	2,841	495	34,371
2013 January	180.318	16.092	12,222	2,763	444	33,296

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

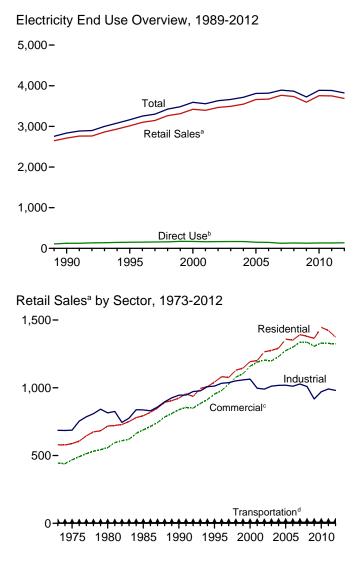
⁶ Petroleum coke is converted from short tons to barrels by multiplying by 5.
 ^f Through 1998, data are for electric utilities only. Beginning in 1999, data are

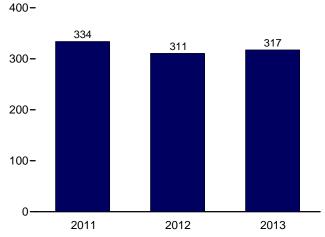
for electric utilities and independent power producers. NA=Not available. Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Stocks

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.

Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity 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." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report." • 1989-2000: EIA, 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-920, "Power Plant Operations Report." EIA-923, "Power Plant Operations Report."

Figure 7.6 Electricity End Use (Billion Kilowatthours)

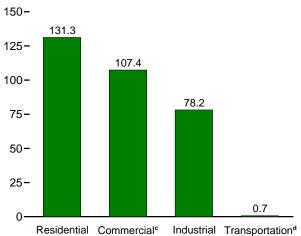




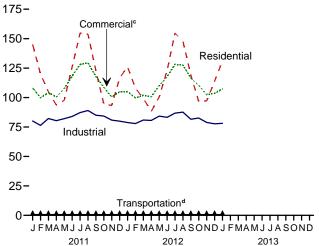
 ^a Electricity retail sales to ultimate customers reported by utilities and other energy service providers.
 ^b See "Direct Use" in Glossary.

° Commercial sector, including public street and highway lighting, inter-

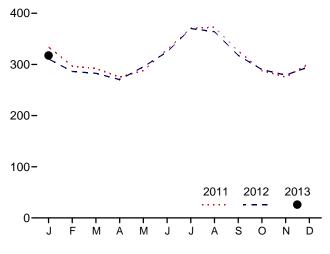
Retail Sales^a by Sector, January 2013



Retail Sales^a by Sector, Monthly



Retail Sales^a Total, Monthly



departmental sales, and other sales to public authorites. ^d Transportation sector, including sales to railroads and railways. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Source: Table 7.6.

Retail Sales^a Total, January

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercialb	Industrialc	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	Commercial (Old) ^h	Other (Old) ⁱ
1973 Total	579,231	^E 444,505	686,085	^E 3,087	1,712,909	NA	1,712,909	388,266	59,326
1975 Total	588,140	E 468,296	687,680	E 2,974	1,747,091	NA	1,747,091	403,049	68,222
1980 Total	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	488,155	73,732
1985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2.323.974	605,989	87,279
1990 Total	924.019	838,263	945.522	4,751	2.712.555	124.529	2,837,084	751.027	91.988
1995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
1996 Total	1,082,512	980,061	1,033,631	4.923	3.101.127	152,638	3,253,765	887,445	97,539
1997 Total	1,075,880	1,026,626	1,038,197	4.907	3,145,610	156,239	3.301.849	928.633	102.901
1998 Total	1.130.109	1.077.957	1.051.203	4,962	3.264.231	160,866	3.425.097	979.401	103.518
1999 Total	1,144,923	1,103,821	1,058,217	5,126	3,312,087	171,629	3,483,716	1,001,996	105,510
	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	100,952
2000 Total									
2001 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,174
2002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552
2003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029		
2004 Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949		
2005 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
2006 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
2007 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231		
2008 Total	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
2009 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
2010 Total	1,445,708	1,330,199	970,873	7,712	3,754,493	131,910	3,886,403		
2011 January	145,054	108,243	80,077	710	334,084	^E 11,245	345,329		
February	120,121	99,789	76,332	637	296,879	E 10,042	306,922		
March	104,921	104,263	82,196	664	292,044	E 10,398	302,442		
April	93,700	100,505	80,356	629	275,190	E 10,380	285,570		
May	97,688	107,624	82,095	619	288,026	E 10,681	298,707		
June	125,983	118,169	83,941	643	328,736	E 11,181	339,917		
July	154,729	128,063	87.245	650	370,686	E 12,136	382.822		
August	153,739	129,371	89,014	625	372,749	E 12.292	385,041		
September	122,720	117,951	84,959	634	326,263	E 11,199	337,462		
October	94,585	108,655	84,287	616	288,144	E 10,504	298,647		
November	93,220	100,552	80,858	590	275,220	E 10,888	286,108		
December	116.341	104.873	79.956	656	301,826	E 11.808	313,634		
Total	1,422,801	1,328,057	991,316	7,672	3,749,846	132,754	3,882,600		
2012 Jonuary	126,208	105,118	78,821	666	310,813	^E 11.702	322,515		
2012 January	107.951	99.682	77,898	646		E 11.014	297,191		
February	99.153	99,682 101,930	80.911	619	286,177 282,613	E 10.750	297,191 293,363		
March	88.300	101,930	80,604	604	270.348	E 10,750	293,303		
April									
May	100,478	110,062	84,273	606	295,420	E 11,258	306,678		
June	122,992	117,651	83,202	610	324,455	E 11,252	335,708		
July	154,649	128,157	86,762	642	370,210	E 12,216	382,426		
August	147,991	127,713	87,629	650	363,984	E 11,869	375,853		
September	119,201	116,483	81,560	628	317,873	E 11,073	328,945		
October	96,707	110,111	82,600	619	290,037	E 11,108	301,144		
November	97,174	102,546	78,877	580	279,178	E 11,389	290,567		
December	113,791	103,551	77,698	632	295,673	E 12,103	307,775		
Total	1,374,594	1,323,844	980,837	7,504	3,686,780	E 136,099	3,822,878		
2013 January	131,252	107,415	78,153	664	317,482	E 12.016	329,498		

□ Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. ^D Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities. ^c Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation. ^d Transportation sector, including sales to railroads and railwavs. ^a Electricity retail sales to ultimate customers reported by electric utilities and,

In 2003, includes agriculture and irrigation. ^d Transportation sector, including sales to railroads and railways. ^e The sum of "Residential," "Commercial," "Industrial," and "Transportation." ^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/totalenergy/data/monthly/#electricity for all available data beginning in 1973.
 Sources: See end of section.

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/survey/form/eia_860/instructions.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,

Imports and Exports, Electricity Trade with Mexico, 1990 Forward

DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, "Monthly Electricity Imports and Exports Report," and predecessor form. For 2001 forward, data from the California Independent System Operator are used in combination with the Form OE-781 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." 1984–2002: EIA, Form EIA-861, "Annual Electric Utility Report."

2003 forward: EIA, *Electric Power Monthly*, March 2013, 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/state/seds/sep_use/notes/use_elec.pdf. 2003 forward: EIA, *Electric Power Monthly*, March 2013, 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/state/seds/sep_use/notes/use_elec.pdf. 2003 forward: EIA, *Electric Power Monthly*, March 2013, Table 5.1.

Direct Use, Annual

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

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

2001–2011: EIA, *Electric Power Annual 2011*, January 2013, Table 2.2.

2012: 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 2012 and 2013, the 2011 annual share is used.

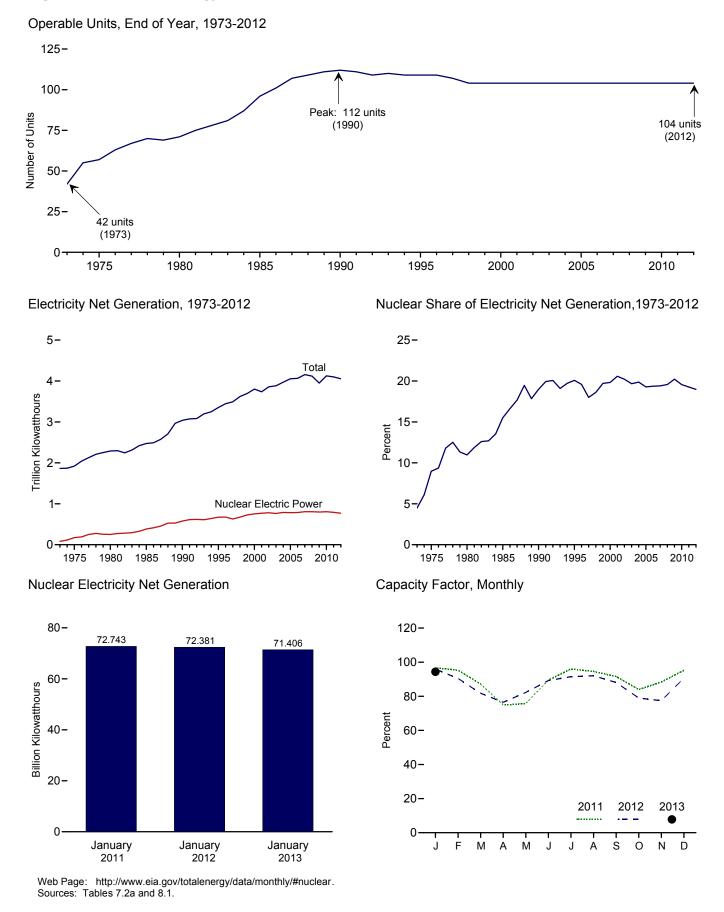
Discontinued Retail Sales Series Commercial (Old) and Other (Old)

1973-2002: See sources for "Residential" and "Industrial."

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8. Nuclear Energy

Figure 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 ^d
	Number	Million Kilowatts	Million Kilowatthours	Per	rcent
1973 Total	42	22.683	83,479	4.5	53.5
1975 Total	57	37.267	172,505	9.0	55.9
1980 Total	71	51.810	251,116	11.0	56.3
985 Total	96	79.397	383,691	15.5	58.0
990 Total	112	99.624	576,862	19.0	66.0
995 Total	109	99.515	673,402	20.1	77.4
996 Total	109	100.784	674,729	19.6	76.2
997 Total	103	99.716	628,644	18.0	70.2
998 Total	107	97.070	673.702	18.6	78.2
	104	97.411		19.7	85.3
999 Total	104		728,254	19.7	88.1
000 Total		97.860	753,893		
2001 Total	104	98.159	768,826	20.6	89.4
2002 Total	104	98.657	780,064	20.2	90.3
2003 Total	104	99.209	763,733	19.7	87.9
2004 Total	104	99.628	788,528	19.9	90.1
2005 Total	104	99.988	781,986	19.3	89.3
2006 Total	104	100.334	787,219	19.4	89.6
2007 Total	104	100.266	806,425	19.4	91.8
008 Total	104	100.755	806,208	19.6	91.1
009 Total	104	101.004	798,855	20.2	90.3
010 Total	104	^e 101.167	806,968	19.6	91.1
011 January	104	E 101.167	72,743	20.0	E 96.6
February	104	^E 101.167	64,789	20.7	^E 95.3
March	104	^E 101.167	65,662	20.6	^E 87.2
April	104	E 101.167	54,547	18.0	E 74.9
May	104	E 101.167	57,013	17.6	E 75.7
June	104	^E 101.281	65,270	17.7	^E 89.5
July	104	E 101.281	72,345	17.3	E 96.0
August	104	E 101.351	71,339	17.5	E 94.6
September	104	E 101.351	66,849	19.8	^E 91.6
October	104	E 101.351	63,337	20.5	E 84.0
November	104	E 101.351	64,474	21.2	E 88.4
December	104	101.419	71,837	21.4	95.2
Total	104	101.419	790,204	19.3	89.1
	104	101.413	750,204	19.5	05.1
012 January	104	^E 101.419	72,381	21.2	^E 95.9
February	104	E 101.419	63.847	20.6	E 90.5
March	104	E 101.419	61,729	20.0	E 81.8
April	104	E 101.419	55,871	18.9	E 76.5
May	104	E 101.442	62.081	18.4	E 82.3
June	104	E 101.442	65,140	18.0	E 89.2
	104	^E 101.564	69,140	16.6	E 91.5
July	104	E 101.564		17.6	E 92.0
August		E 101.673	69,602		E 88.1
September	104		64,511	19.3	
October	104	^E 101.673	59,743	19.1	E 79.0
November	104	^E 101.702	56,713	18.6	^E 77.4
December	104	E 101.702	68,584	20.5	^E 90.6
Total	104	^E 101.702	769,331	19.0	^E 86.2
013 January	104	E 101.702	71,406	20.5	E 94.4

^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 2011, September 2012, Table 9.1, http://www.eia.gov/totalenergy/data/annual/#nuclear.
 ^b At end of period.

^b At end of period.
 ^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 2, "Nuclear Capacity," at end of section.
 ^e Beginning in 2010, monthly capacity values are estimated in two steps: 1) uprates reported on Form EIA-860M are added to specific months; and 2) the

difference between the resulting year-end capacity (from data reported on Form EIA-860M) and final capacity (reported on Form EIA-860) is distributed evenly across the 12 months.

across the 12 months.
E=Estimate.
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/totalenergy/data/monthly/#nuclear for all available data beginning in 1973.
Sources: See end of section.

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," Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and monthly updates as appropriate. For a list of currently operable units, see http://www.eia.gov/nuclear/reactors/stats table1.html.

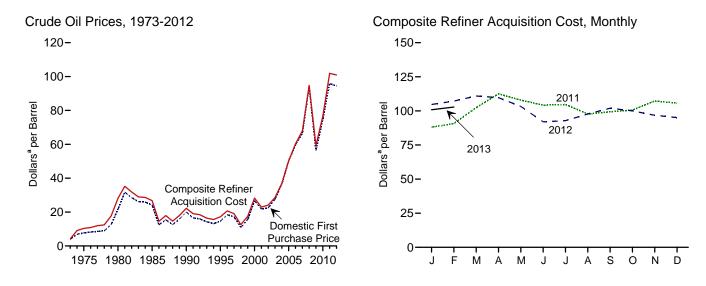
Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

See Table 7.2a.

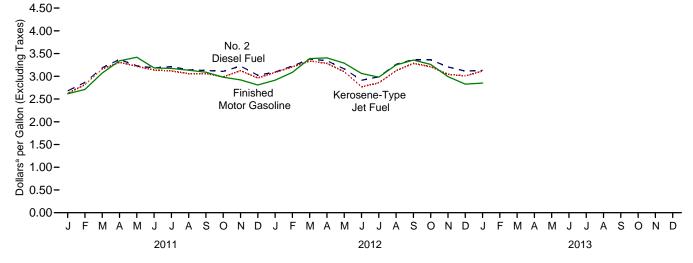
Capacity Factor

Calculated by EIA using the method described above in Note 2.

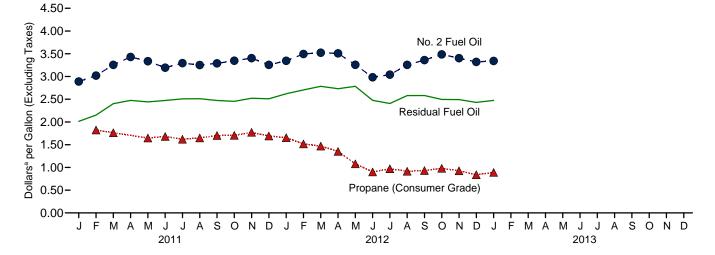
9. Energy Prices



Refiner Prices to End Users: Motor Gasoline, Diesel Fuel, and Jet Fuel, Monthly



Refiner Prices to End Users: No. 2 Fuel Oil, Propane, and Residual Fuel, Monthly



^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

				F	Refiner Acquisition Co	st ^b
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	[⊑] 4.08	^E 4.15
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
995 Average	14.62	15.69	16.78	17.33	17.14	17.23
996 Average	18.46	19.32	20.31	20.77	20.64	20.71
997 Average	17.23	16.94	18.11	19.61	18.53	19.04
998 Average	10.87	10.76	11.84	13.18	12.04	12.52
999 Average	15.56	16.47	17.23	17.90	17.26	17.51
000 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
002 Average	22.51	22.63	23.91	24.65	23.71	24.10
2002 Average	27.56	25.86	23.91	29.82	27.71	24.10
2003 Average	36.77	33.75	36.07	38.97	35.90	36.98
004 Average	50.28	47.60	49.29	52.94	48.86	50.98
•	59.69	57.03	49.29 59.11	62.62	40.00 59.02	50.24 60.24
2006 Average	66.52	66.36	67.97	69.65	67.04	67.94
2007 Average	94.04	90.32	93.33	98.47	67.04 92.77	67.94 94.74
008 Average	94.04 56.35	90.32 57.78	93.33 60.23		92.77 59.17	94.74 59.29
009 Average 010 Average	56.35 74.71	57.78 74.19	76.50	59.49 78.01	59.17 75.86	59.29 76.69
011 January	85.66	86.81	89.47	88.70	87.61	88.04
February	86.69	92.20	94.28	89.50	91.42	90.66
March	99.19	104.17	104.73	102.41	102.43	102.43
April	108.80	111.52	112.43	111.70	113.02	112.51
May	102.46	105.81	108.18	107.63	107.98	107.84
June	97.30	104.33	105.18	102.51	105.38	104.23
July	97.82	105.59	106.22	102.67	105.94	104.68
August	89.00	97.72	99.30	95.90	99.00	97.70
September	90.22	100.82	101.03	96.89	101.05	99.39
October	92.28	101.91	102.55	98.34	101.99	100.57
November	100.18	105.79	106.00	106.69	107.67	107.28
December	98.71	103.09	105.62	104.51	106.52	105.69
Average	95.73	101.66	102.92	100.71	102.63	101.87
012 January	98.99	103.96	105.27	103.97	105.25	104.70
February	102.05	108.56	109.24	105.93	108.08	107.18
March	105.42	110.72	110.68	110.80	111.00	110.92
April	103.62	107.17	107.58	111.26	108.53	109.70
May	95.57	100.79	101.56	103.17	103.26	103.23
June	83.59	87.89	91.90	91.66	92.18	91.96
July	86.10	92.50	93.66	92.64	92.98	92.83
August	92.53	99.63	98.70	98.58	97.07	97.71
September	95.98	101.08	101.31	102.17	101.82	101.97
October	92.25	97.75	99.18	99.07	100.92	100.02
November	89.65	^R 91.86	^R 96.07	95.28	98.07	96.78
December	^R 89.81	^R 92.99	^R 94.03	96.56	93.70	95.06
Average	94.53	^R 99.81	^R 100.95	100.74	101.09	100.94
013 January	^R 94.89	^R 96.35	^R 93.17	^R 103.71	^R 98.04	^R 100.81
February	NA	NA	NA	^E 105.82	^E 100.80	^E 102.82

^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 E.O.B. Costs," at end of section.
 ^e See Note 4, "Crude Oil Landed Costs," at end of section.
 ^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. • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the

Virgin Islands, and all U.S. Territories and Possessions.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973. Sources: See end of section.

Table 9.2 F.O.B. Costs of Crude Oil Imports From Selected Countries

(Dollars^a per Barrel)

			S	elected Count	ries			Persian		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	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	_0.00	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
	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
1999 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2000 Average		29.04	18.89	24.85	18.98	23.30		18.89	25.56	21.04
2001 Average	23.25 24.09	24.25	21.60	24.05	23.92	23.30	18.01	23.38	22.18	21.04
2002 Average							20.13			
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 Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
2009 Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
2010 Average	78.18	72.56	72.46	80.83	76.44	w	70.30	75.65	75.23	73.24
2011 January	95.97	83.36	84.45	99.86	W	_	81.25	W	89.74	83.96
February	W	88.55	88.77	109.07	W	-	85.11	97.25	96.01	88.99
March	113.63	101.29	102.55	117.98	W	-	97.56	107.36	106.19	102.41
April	122.52	114.17	109.90	126.05	W	-	106.56	114.82	115.15	107.71
May	113.33	106.15	105.13	117.66	W	-	101.60	110.02	108.43	103.64
June	115.13	102.78	103.43	119.13	W	-	100.59	106.39	108.22	100.37
July	114.80	100.30	104.84	119.68	W	-	100.62	109.06	110.09	100.88
August	W	95.01	98.21	115.61	W	-	97.17	106.98	104.19	93.57
September	112.49	97.45	100.28	115.43	109.99	-	95.72	108.41	105.82	97.06
October	109.74	102.37	101.48	114.46	W	-	96.93	105.62	105.20	98.64
November	112.49	106.97	107.94	115.35	W	-	105.44	106.51	108.16	104.17
December	111.26	103.10	105.96	W	Ŵ	_	105.75	104.48	106.42	100.80
Average	111.82	100.21	100.90	115.35	107.08	-	97.23	106.47	105.34	98.49
2012 January	111.10	106.69	107.79	114.12	W	_	105.08	107.51	107.51	101.40
February	121.45	114.47	110.14	124.31	Ŵ	_	110.37	111.12	113.85	103.42
March	W	118.46	114.81	124.01	ŵ	_	112.76	118.06	117.06	104.75
April	118.84	114.06	110.54	W	Ŵ	_	109.33	115.02	113.85	104.75
May	110.79	101.27	103.12	110.79	Ŵ	_	103.33	105.16	105.28	96.74
June	95.65	91.81	90.60	98.96	91.90	_	87.64	90.55	90.63	85.28
July	95.05 W	96.83	95.03	103.86	91.90 W	_	93.81	95.47	96.30	88.45
	Ŵ	106.16	101.12	114.62	Ŵ	_	99.94	104.87	104.18	95.13
August	112.75	108.59	101.12	114.02	107.14	_	101.00	105.58	104.18	97.60
September October	W	105.77	98.98	W	107.14 W	_	98.10	105.58	105.05	95.05
	W		98.98 93.45	~	Ŵ	_	93.10 93.15		95.94	^R 89.37
November		103.75	93.45 ^R 94.19	w	Ŵ		93.15 ^R 93.00	101.91	95.94 ^R 98.14	^R 89.37 ^R 87.98
December Average	_ 111.23	101.24 106.43	^R 101.84	^{VV} ^R 114.51	106.63	_	^R 100.15	102.93 105.44	^R 98.14 ^R 104.39	^R 87.98
Average	111.25	100.45	101.04	114.31	100.03	_	100.15	103.44	104.33	33.10
2013 January	W	106.99	100.04	_	W		96.90	105.30	101.95	93.07

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and 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 Indonesia; for 1973–1992 and again beginning in 2007, on this table 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 Gaudo (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 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.

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 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 determined and reported. U.S. geographic. 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/totalenergy/data/monthly/#prices for all available data beginning in 1973.

Sources: See end of section.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars^a per Barrel)

				Selected	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC
1973 Averaged	w	5.33	w	_	9.08	5.37	_	5.99	5.91	6.85	5.64
1975 Average	11.81	12.84	-	12.61	12.70	12.50	_	12.36	12.64	12.70	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
	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2005 Average	64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2006 Average	71.27	60.38	70.91	62.31	78.01	70.78	72.47	66.13	69.83	71.14	63.96
2007 Average	98.18	90.00	93.43	85.97	104.83	94.75	96.95	90.76	93.59	95.49	90.59
2008 Average			58.50		68.01				62.15		58.58
2009 Average	61.32	57.60		57.35		62.14	63.87	57.78		61.90	58.58 74.68
2010 Average	80.61	72.80	74.25	72.86	83.14	79.29	80.29	72.43	78.60	78.28	74.00
2011 January	99.58	81.96	85.88	85.07	101.24	96.59	W	84.70	96.41	94.00	85.07
February	110.07	80.54	90.93	89.08	109.61	103.20	W	89.88	101.81	100.19	89.00
March	114.40	89.39	105.84	103.03	117.17	110.22	118.42	101.22	109.64	109.26	101.11
April	123.35	99.13	112.47	110.55	126.47	116.13	124.38	107.95	115.07	116.57	108.80
May	116.76	98.12	109.70	105.62	119.95	112.19	W	104.04	111.10	111.75	104.97
June	116.73	92.33	104.31	103.71	120.81	110.00	Ŵ	102.32	108.97	109.87	100.82
July	117.77	91.75	101.35	105.38	121.80	111.06	Ŵ	103.04	110.19	111.61	100.37
August	113.36	84.05	95.08	98.78	115.83	109.45	Ŵ	99.54	108.32	106.27	93.83
September	112.63	85.21	99.17	99.90	117.19	109.91	Ŵ	99.10	108.82	107.67	95.59
October	114.82	88.20	104.14	101.97	116.09	108.90	Ŵ	99.89	108.00	107.95	97.93
November	115.14	93.80	108.52	108.46	117.05	108.61	Ŵ	106.90	108.39	110.10	102.91
December	115.65	95.74	106.64	106.31	117.10	108.27	Ŵ	108.02	107.53	109.63	102.52
Average	114.05	89.92	102.57	101.21	116.43	108.83	118.45	100.14	108.01	107.84	98.64
	115 10	02.42	110 54	100.20	115 14	110.40	14/	106.00	110.61	110.00	101 21
2012 January	115.13	93.43	110.54	108.38	115.41	110.49	W	106.23	110.61	110.32	101.31
February	121.40	92.14	115.19	111.24	126.42	114.73	W	111.72	114.22	115.76	103.02
March	128.35	88.73	119.93	115.20	130.46	117.55	_	114.29	117.14	118.26	103.98
April	120.60	85.55	113.78	111.55	124.06	115.65	W	110.58	115.98	116.21	99.94
May	114.94	82.78	105.04	103.79	113.89	108.39	W	103.02	108.52	108.26	95.20
June	103.10	78.11	93.85	90.89	103.24	99.38	_	89.41	99.24	97.29	87.15
July	106.95	75.62	97.70	95.24	106.95	99.00	W	94.91	99.02	99.48	88.10
August	113.27	80.68	105.94	101.98	114.51	104.74	-	101.38	104.40	105.29	92.29
September	116.51	85.47	109.19	103.16	114.95	107.06	_	102.97	106.26	107.02	95.82
October	114.90	86.34	106.48	99.09	117.03	106.07	W	99.31	105.73	105.79	93.77
November	^R 111.01	^R 82.89	^R 104.74	ຼ94.32	^R 112.55	^R 105.94	_	<u>94.67</u>	^R 104.86	^R 102.14	R 91.17
December	W	^R 76.83	^R 102.48	^R 94.98	^R 114.42	^R 105.83	RW	^R 94.31	^R 104.81	^R 102.44	^R 86.49
Average	^R 114.85	^R 84.26	^R 107.06	^R 102.45	^R 116.88	^R 108.12	w	^R 101.58	^R 107.73	R 107.53	^R 95.05
2013 January	115.31	74.47	105.49	100.87	w	107.94	_	98.75	106.31	105.21	85.95

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Bahrain, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and 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, 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 Indonesia; for 1973–1992 and again beginning in 2008, also includes Indonesia; for 1973–1992 and again beginning in 2007, on this table Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador (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 individual company data.

individual company data. Notes: • See "Landed Costs" in Glossary, and Note 4, "Crude Oil Landed

Costs," at end of section. • Values for the current two months are preliminary. 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 here here is the four data prices of the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices here here is the four data price of the time the crude oil is acquired for importation into the United States, are not included in the published the time the four data prices here here is the four data prices of the four the time the crude oil is acquired for importation into the United States, are not included in the published the time the four data prices of the four the time the crude oil is acquired for the time the four time the crude oil is acquired for the time the four time the time the crude oil is acquired to the time the crude oil is acquired for the time the four time the time the time the crude oil the time the four time the time th have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices 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 forward: EIA, Petroleum Marketing Monthly, April 2013, Table 22.

Table 9.4 Motor Gasoline Retail Prices, U.S. City Average

(Dollars^a per Gallon, Including Taxes)

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
	0.000			
973 Average	0.388	NA	NA	NA
975 Average	0.567	NA	NA	NA
980 Average	1.191	1.245	NA	1.221
985 Average	1.115	1.202	1.340	1.196
990 Average	1.149	1.164	1.349	1.217
995 Average	NA	1.147	1.336	1.205
996 Average	NA	1.231	1.413	1.288
997 Average	NA	1.234	1.416	1.291
998 Average	NA	1.059	1.250	1.115
999 Average	NA	1.165	1.357	1.221
000 Average	NA	1.510	1.693	1.563
001 Average	NA	1.461	1.657	1.531
002 Average	NA	1.358	1.556	1.441
003 Average	NA	1.591	1.777	1.638
004 Average	NA	1.880	2.068	1.923
005 Average	NA	2.295	2.000	2.338
	NA	2.589	2.805	2.635
006 Average	NA	2.569	3.033	2.835
007 Average				
008 Average	NA	3.266	3.519	3.317
009 Average	NA	2.350	2.607	2.401
010 Average	NA	2.788	3.047	2.836
011 January	NA	3.091	3.345	3.139
February	NA	3.167	3.424	3.215
March	NA	3.546	3.807	3.594
April	NA	3.816	4.074	3.863
May	NA	3.933	4.192	3.982
June	NA	3.702	3.972	3.753
July	NA	3.654	3.915	3.703
August	NA	3.630	3.893	3.680
September	NA	3.612	3.887	3.664
October	NA	3.468	3.745	3.521
November	NA	3.423	3.700	3.475
December	NA	3.278	3.553	3.329
Average	NA	3.527	3.792	3.577
012 January	NA	3.399	3.663	3.447
February	NA	3.572	3.840	3.622
March	NA	3.868	4.138	3.918
April	NA	3.927	4.194	3.976
Артт Мау	NA	3.792	4.062	3.839
	NA	3.552	3.825	
June				3.602
July	NA	3.451	3.726	3.502
August	NA	3.707	3.991	3.759
September	NA	3.856	4.140	3.908
October	NA	3.786	4.079	3.839
November	NA	3.488	3.782	3.542
December	NA	3.331	3.626	3.386
Average	NA	3.644	3.922	3.695
013 January	NA	3.351	3.646	3.407
	NA	3.693	3.990	3.748
February	INA	3.093	3.330	

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

^b The 1981 average (available in Web file) is based on September through

December data only. ^c Also includes types of motor gasoline not shown separately. NA=Not available.

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/totalenergy/data/monthly/#prices 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—Plati'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

(Dollars^a per Gallon, Excluding Taxes)

	Sulfur Co	II Fuel Oil ntent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	Average		
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	
978 Average	0.293	0.314	0.245	0.275	0.263	0.298	
980 Average	0.608	0.675	0.479	0.523	0.528	0.607	
985 Average	0.610	0.644	0.560	0.582	0.577	0.610	
990 Average	0.472	0.505	0.372	0.400	0.413	0.444	
995 Average	0.383	0.436	0.338	0.377	0.363	0.392	
996 Average	0.456	0.526	0.389	0.433	0.420	0.455	
997 Average	0.415	0.488	0.366	0.403	0.387	0.423	
998 Average	0.299	0.354	0.269	0.287	0.280	0.305	
999 Average	0.382	0.405	0.329	0.362	0.354	0.374	
000 Average	0.627	0.708	0.529	0.566	0.566	0.602	
	0.523	0.642	0.428	0.492	0.300	0.531	
001 Average							
002 Average	0.546	0.640	0.508	0.544	0.530	0.569	
003 Average	0.728	0.804	0.588	0.651	0.661	0.698	
004 Average	0.764	0.835	0.601	0.692	0.681	0.739	
005 Average	1.115	1.168	0.842	0.974	0.971	1.048	
006 Average	1.202	1.342	1.085	1.173	1.136	1.218	
007 Average	1.406	1.436	1.314	1.350	1.350	1.374	
008 Average	1.918	2.144	1.843	1.889	1.866	1.964	
009 Average	1.337	1.413	1.344	1.306	1.342	1.341	
010 Average	1.756	1.920	1.679	1.619	1.697	1.713	
011 January	NA	2.302	1.896	1.870	1.918	2.013	
February	2.100	2.451	2.079	2.019	2.086	2.150	
March	2.344	2.654	2.307	2.245	2.321	2.403	
April	2.555	2.741	2.427	2.370	2.448	2.475	
May	2.463	2.786	2.374	2.325	2.392	2.440	
June	2.467	2.905	2.377	2.312	2.402	2.473	
July	2.547	2.877	2.430	2.362	2.474	2.508	
August	2.394	2.896	2.392	2.342	2.392	2.512	
September	2.368	2.882	2.370	2.318	2.369	2.473	
October	2.512	2.891	2.375	2.276	2.406	2.454	
November	2.566	2.853	2.424	2.368	2.459	2.521	
December	2.473	2.891	2.335	2.348	2.371	2.509	
Average	2.389	2.736	2.316	2.257	2.336	2.401	
012 January	2.591	2.965	2.480	2.452	2.512	2.620	
February	2.739	3.070	2.632	2.556	2.654	2.705	
March	2.921	3.159	2.717	2.601	2.772	2.784	
April	2.805	3.201	2.624	2.596	2.670	2.731	
May	2.589	3.170	2.501	2.652	2.527	2.784	
June	2.275	3.083	2.186	2.179	2.211	2.476	
July	2.271	2.926	2.224	2.221	2.234	2.406	
August	2.586	3.041	2.457	2.442	2.483	2.579	
September	2.558	2.970	2.491	2.473	2.501	2.582	
October	2.338	2.969	2.393	2.382	2.409	2.382	
November	2.385	2.895	2.393	2.346	2.300	2.490	
			^R 2.248		^R 2.268		
December	R 2.341	2.814		2.275		2.431	
Average	2.548	3.025	2.429	2.433	2.457	2.592	
013 January	2.530	2.874	2.340	2.333	2.396	2.475	

^a Prices are not adjusted for inflation. See "Nominal Dollars" 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, "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/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • **1978-2009**: EIA, *Petroleum Marketing Annual 2009*, Table 16. • **2010 forward:** EIA, *Petroleum Marketing Monthly*, April 2013, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

(Dollars^a per Gallon, Excluding Taxes)

	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	0.434	0.537	0.386	0.404	0.369	0.365	0.237
980 Average	0.941	1.128	0.868	0.864	0.803	0.801	0.415
985 Average	0.835	1.130	0.794	0.874	0.776	0.772	0.398
990 Average	0.786	1.063	0.773	0.839	0.697	0.694	0.386
995 Average	0.626	0.975	0.539	0.580	0.511	0.538	0.344
	0.713	1.055	0.646	0.714	0.639	0.659	0.344
996 Average	0.700	1.065	0.613	0.653	0.590	0.606	0.401
997 Average							
998 Average	0.526	0.912	0.450	0.465	0.422	0.444	0.288
999 Average	0.645	1.007	0.533	0.550	0.493	0.546	0.342
000 Average	0.963	1.330	0.880	0.969	0.886	0.898	0.595
001 Average	0.886	1.256	0.763	0.821	0.756	0.784	0.540
002 Average	0.828	1.146	0.716	0.752	0.694	0.724	0.431
003 Average	1.002	1.288	0.871	0.955	0.881	0.883	0.607
004 Average	1.288	1.627	1.208	1.271	1.125	1.187	0.751
005 Average	1.670	2.076	1.723	1.757	1.623	1.737	0.933
006 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
007 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
008 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
009 Average	1.767	2.480	1.719	1.844	1.657	1.713	0.921
010 Average	2.165	2.874	2.185	2.299	2.147	2.214	1.212
011 January	2.472	3.161	2.585	2.804	2.585	2.621	1.380
February	2.584	3.248	2.783	2.974	2.737	2.820	1.401
March	2.934	3.607	3.095	3.196	2.996	3.134	1.403
April	3.218	4.035	3.259	3.296	3.167	3.296	1.433
May	3.174	4.096	3.188	W	3.039	3.116	1.515
June	2.970	3.847	3.101	3.054	2.956	3.079	1.503
July	3.058	4.011	3.090	3.158	3.024	3.135	1.513
	2.949	3.899	3.040	3.089	2.927	3.032	1.513
August	2.896	3.878	3.025	3.073	2.927	3.035	1.557
September							
October	2.805	3.616	2.962	3.096	2.915	3.035	1.511
November	2.701	3.494	3.089	3.258	3.050	3.157	1.498
December	2.614	3.424	2.951	3.006	2.928	2.927	1.444
Average	2.867	3.739	3.014	3.065	2.907	3.034	1.467
012 January	2.747	3.576	3.059	3.197	3.027	3.018	1.341
February	2.936	3.788	3.186	3.293	3.166	3.163	1.282
March	3.203	4.052	3.296	3.306	3.211	3.308	1.293
April	3.189	4.157	3.255	3.243	3.153	3.252	1.163
May	3.016	4.004	3.076	3.008	2.976	3.039	0.950
June	2.757	3.883	2.747	2.697	2.635	2.741	0.762
July	2.806	3.877	2.850	2.936	2.774	2.907	0.809
August	3.087	4.124	3.129	3.195	2.988	3.206	0.875
September	3.163	4.269	3.245	3.236	3.128	3.278	0.910
October	2.941	4.002	3.182	3.250	3.155	3.265	0.979
November	2.713	3.508	3.015	3.221	3.049	3.117	0.955
December	^R 2.590	3.518	2.982	3.145	3.003	3.022	0.894
Average	2.990 2.929	3.919	3.080	3.145 3.163	3.031	3.109	1.033
013 January	2.676	3.687	3.093	3.284	3.068	3.045	0.928

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. W=Value withheld to avoid disclosure of individual company data.

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/totalenergy/data/monthly/#prices for all

valiable data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 4.
• 2010 forward: EIA, Petroleum Marketing Monthly, April 2013, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Dollars^a per Gallon, Excluding Taxes)

	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	0.484	0.516	0.387	0.421	0.400	0.377	0.335
980 Average	1.035	1.084	0.868	0.902	0.788	0.818	0.482
985 Average	0.912	1.201	0.796	1.030	0.849	0.789	0.717
990 Average	0.883	1.120	0.766	0.923	0.734	0.725	0.745
995 Average	0.765	1.005	0.540	0.589	0.562	0.560	0.492
996 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
	0.839	1.128	0.613	0.745	0.636	0.642	0.552
997 Average							
998 Average	0.673	0.975	0.452	0.501	0.482	0.494	0.405
999 Average	0.781	1.059	0.543	0.605	0.558	0.584	0.458
000 Average	1.106	1.306	0.899	1.123	0.927	0.935	0.603
001 Average	1.032	1.323	0.775	1.045	0.829	0.842	0.506
002 Average	0.947	1.288	0.721	0.990	0.737	0.762	0.419
003 Average	1.156	1.493	0.872	1.224	0.933	0.944	0.577
004 Average	1.435	1.819	1.207	1.160	1.173	1.243	0.839
005 Average	1.829	2.231	1.735	1.957	1.705	1.786	1.089
006 Average	2.128	2.682	1.998	2.244	1.982	2.096	1.358
007 Average	2.345	2.849	2.165	2.263	2.241	2.267	1.489
008 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
009 Average	1.888	2.442	1.704	2.675	1.962	1.834	1.220
010 Average	2.301	3.028	2.201	3.063	2.462	2.314	1.481
011 January	2.615	3.323	2.623	3.358	2.889	2.681	NA
February	2.712	3.374	2.818	3.506	3.020	2.867	1.823
March	3.072	3.767	3.161	3.697	3.255	3.189	1.763
April	3.340	4.132	3.306	3.796	3.430	3.370	NA
May	3.419	4.091	3.220	3.894	3.337	3.231	1.648
June	3.184	3.913	3.138	3.802	3.193	3.183	1.681
July	3.172	4.027	3.118	3.812	3.294	3.214	1.620
		3.920	3.057	3.851	3.251		1.650
August	3.134					3.143	
September	3.090	3.915	3.059	3.873	3.288	3.127	1.702
October	2.980	3.697	2.987	3.823	3.346	3.108	1.706
November	2.922	3.620	3.124	3.892	3.403	3.225	1.773
December	2.808	W	2.963	3.824	3.255	3.024	1.691
Average	3.050	3.803	3.054	3.616	3.193	3.117	1.709
012 January	2.914	3.732	3.087	3.848	3.345	3.093	1.655
February	3.087	W	3.206	3.874	3.495	3.224	1.518
March	3.389	4.133	3.337	3.919	3.522	3.378	1.470
April	3.405	4.313	3.283	3.916	3.509	3.342	1.352
May	3.289	W	3.100	3.741	3.258	3.163	1.080
June	3.061	Ŵ	2.768	3.753	2.982	2.912	0.902
July	2.981	Ŵ	2.856	3.612	3.041	2.989	0.972
	3.248	4.091	3.123	3.575	3.256	3.265	0.912
August							
September	3.357	4.262	3.283	3.771	3.361	3.367	0.932
October	3.261	4.064	3.211	3.864	3.486	3.364	0.980
November	2.994	3.561	ຼ 3.045	3.854	_ 3.403	3.206	0.926
December	2.828	3.599	^R 3.008	3.789	^R 3.321	3.115	0.840
Average	3.154	3.971	3.104	3.843	3.358	3.202	1.139
013 January	2.850	3.738	3.117	3.790	3.341	3.128	0.891

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

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

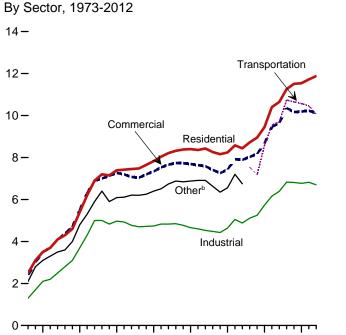
the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

See http://www.eia.gov/totalenergy/data/monthly/#prices for all Web Page: available data beginning in 1978. Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 2.

• 2010 forward: EIA, Petroleum Marketing Monthly, April 2013, Table 2.

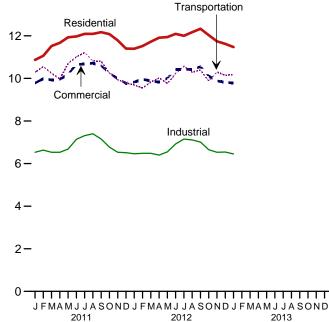
Figure 9.2 Average Retail Prices of Electricity

(Cents^a per Kilowatthour)



1995 2000

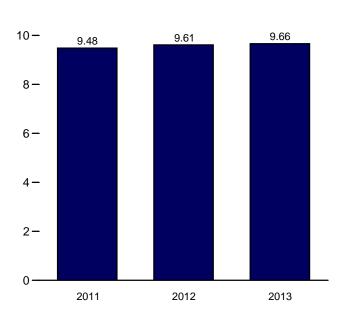
2005 2010



Total, January

1975 1980 1985 1990

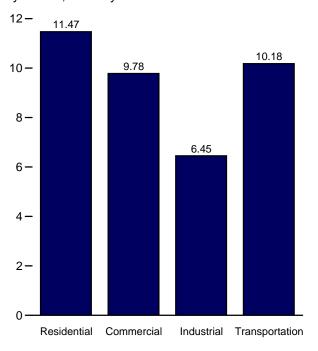
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By Sector, January 2013

By Sector, Monthly

14 —



^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 railroads and railways. Note: Includes taxes.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.8.

Table 9.8 Average Retail Prices of Electricity

(Cents^a per Kilowatthour, Including Taxes)

	Residential	Commercial ^b	Industrial ^c	Transportation ^d	Other ^e	Total
	2.50	2.40	1.30	NA	2.10	2.00
973 Average	3.50	3.50	2.10	NA	3.10	2.00
975 Average						
980 Average	5.40	5.50	3.70	NA	4.80	4.70
985 Average	7.39	7.27	4.97	NA	6.09	6.44
990 Average	7.83	7.34	4.74	NA	6.40	6.57
995 Average	8.40	7.69	4.66	NA	6.88	6.89
996 Average	8.36	7.64	4.60	NA	6.91	6.86
997 Average	8.43	7.59	4.53	NA	6.91	6.85
998 Average	8.26	7.41	4.48	NA	6.63	6.74
999 Average	8.16	7.26	4.43	NA	6.35	6.64
000 Average	8.24	7.43	4.64	NA	6.56	6.81
001 Average	8.58	7.92	5.05	NA	7.20	7.29
002 Average	8.44	7.89	4.88	NA	6.75	7.20
003 Average	8.72	8.03	5.11	7.54		7.44
004 Average	8.95	8.17	5.25	7.18		7.61
	9.45	8.67	5.73	8.57		8.14
2005 Average	10.40	9.46	6.16	9.54		8.90
006 Average	10.40	9.65	6.39	9.54		9.13
007 Average						
008 Average	11.26	10.36	6.83	10.74		9.74
009 Average	11.51	10.17	6.81	10.65		9.82
010 Average	11.54	10.19	6.77	10.57		9.83
011 January	10.87	9.78	6.53	10.29		9.48
February	11.06	9.99	6.63	10.55		9.56
March	11.52	9.93	6.53	10.24		9.55
April	11.67	9.96	6.53	9.97		9.54
May	11.93	10.19	6.68	10.70		9.78
June	11.97	10.66	7.14	11.01		10.26
July	12.09	10.67	7.31	11.21		10.47
August	12.09	10.72	7.40	10.82		10.49
September	12.03	10.59	7.15	10.80		10.43
	12.08	10.35	6.77	10.25		9.83
October						
November	11.78	9.98	6.53	9.93		9.58
December	11.40	9.77	6.51	9.79		9.53
Average	11.72	10.23	6.82	10.46		9.90
012 January	11.39	9.83	6.46	9.69		9.61
February	11.52	9.96	6.48	9.55		9.60
March	11.72	9.88	6.48	9.83		9.56
April	11.91	9.83	6.40	10.02		9.49
May	11.94	10.01	6.55	9.76		9.68
June	12.09	10.42	6.92	10.22		10.15
July	12.00	10.42	7.15	10.57		10.31
August	12.17	10.43	7.11	10.29		10.34
September	12.33	10.55	7.01	10.39		10.31
October	12.03	10.11	6.65	9.88		9.76
November	11.74	9.88	6.53	10.30		9.58
December	11.62	9.82	6.54	10.14		9.65
Average	11.88	10.12	6.70	10.05		9.87
013 January	11.47	9.78	6.45	10.18		9.66

Prices are not adjusted for inflation. See "Nominal Price" in Glossary.

 ^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.
 ^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. 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 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 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.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all writely data hearing in 1072.

available data beginning in 1973.

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." • 1984-2009: EIA, Form EIA-861, "Annual Electric Utility Report." • 2010 forward: EIA, *Electric Power Monthly*, March 2013, Table 53. Table 5.3.

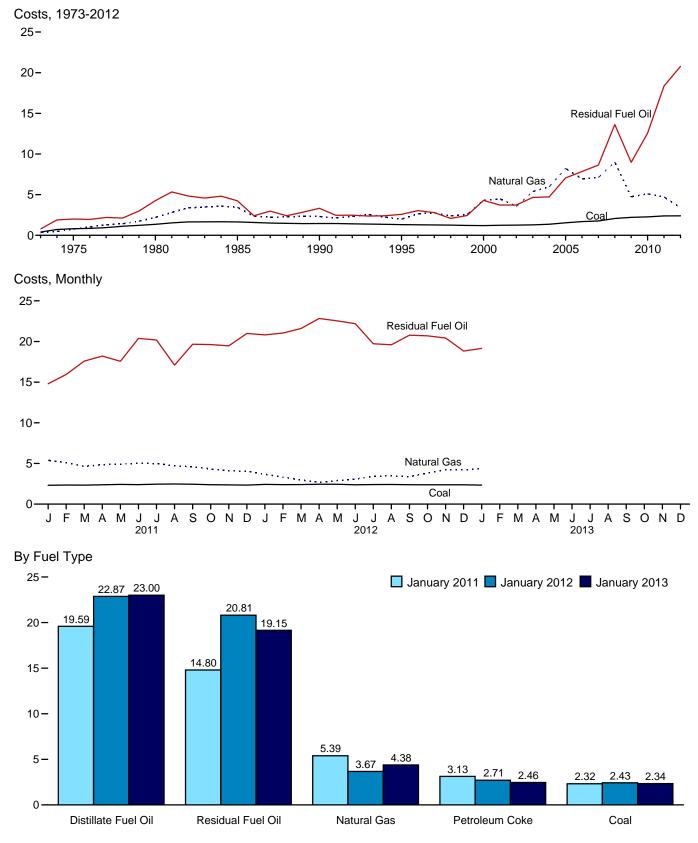


Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars^a per Million Btu, Including Taxes)

 $^{\mathrm{a}}\mathrm{Prices}$ are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.9.

Table 9.9 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 Oilc	Petroleum Coke	Totald	Natural Gas ^e	All Fossil Fuels
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
2000 Average	1.23	3.73	6.30	.78	3.69	4.49	1.74
2001 Average ^g	1.25	3.73	5.34	.78	3.34	3.56	1.86
2002 Average	1.25	4.66	6.82	.78	3.34 4.33	5.39	2.28
	1.20	4.00	8.02	.72 .83	4.33	5.96	2.28
2004 Average	1.56	4.73	11.72	.03 1.11	4.29	8.21	2.40
2005 Average		7.85			6.23		3.02
2006 Average	1.69 1.77	8.64	13.28 14.85	1.33 1.51	6.23 7.17	6.94 7.11	3.23
2007 Average							
2008 Average	2.07	13.62	21.46	2.11	10.87	9.01	4.12
2009 Average	2.21	8.98	13.22	1.61	7.02	4.74	3.04
2010 Average	2.27	12.57	16.61	2.28	9.54	5.09	3.26
2011 January	2.32	14.80	19.59	3.13	11.83	5.39	3.37
February	2.35	15.94	20.93	2.84	11.60	5.09	3.27
March	2.34	17.59	22.59	3.09	12.98	4.64	3.12
April	2.38	18.21	24.06	3.20	13.04	4.86	3.29
May	2.43	17.57	23.04	3.31	13.21	4.89	3.39
June	2.40	20.38	23.13	2.78	14.29	5.04	3.52
July	2.45	20.18	22.95	3.30	12.13	4.98	3.62
August	2.47	17.09	22.51	3.08	10.52	4.73	3.44
September	2.44	19.66	22.73	2.93	11.51	4.56	3.26
October	2.39	19.62	23.20	3.32	13.20	4.33	3.14
November	2.37	19.47	23.38	2.58	13.03	4.10	3.04
December	2.34	20.99	22.45	2.74	12.11	4.04	3.02
Average	2.39	18.35	22.46	3.03	12.48	4.72	3.30
2012 January	2.43	20.81	22.87	2.71	12.76	3.67	2.98
February	2.40	21.04	23.73	2.57	12.61	3.32	2.83
March	2.40	21.60	24.80	2.43	12.31	2.96	2.73
April	2.44	22.83	24.30	2.64	13.17	2.68	2.65
Аріїі Мау	2.44	22.54	23.23	2.68	13.88	2.90	2.05
June	2.38	22.19	23.23	2.08	13.41	3.08	2.75
July	2.30	19.72	21.80	2.93	13.95	3.41	2.98
	2.41	19.72	23.15	2.93	13.95	3.41	2.96
August September	2.42	20.77	23.15	2.51	10.33	3.38	2.97
	2.39	20.77	24.30	2.43	12.24	3.80 3.81	2.87
October							
November	2.38	20.43	24.37	2.46	12.27	4.23	3.10
December	2.38	18.83	23.50	2.46	11.44	4.20	3.13
Average	2.40	20.78	23.45	2.54	12.60	3.40	2.90
2013 January	2.34	19.15	23.00	2.46	12.03	4.38	3.10

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

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).

^c For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).
 ^d For all years, includes residual fuel oil and distillate fuel oil. For 1990 forward, also includes petroleum coke. For 1973–2012, also includes jet fuel, kerosene, and waste oil. For 1983–2012, also includes other petroleum, such as propane and refined meter oil.

refined motor oil. ^e 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 derived from fossil fuels. ^f Weighted average of costs shown under "Coal," "Petroleum," and "Natural

Gas."

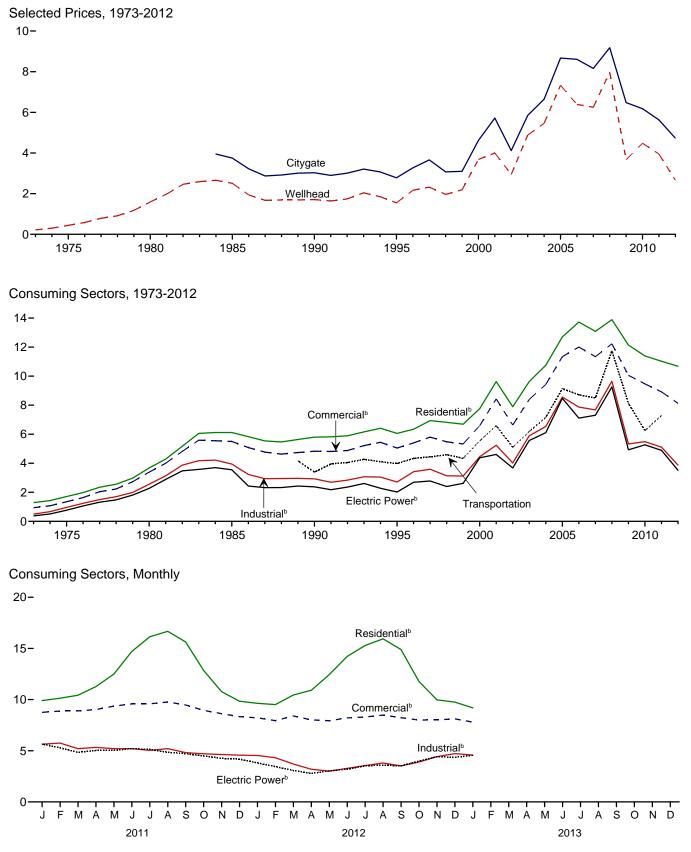
^g Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors.

 NA=Not available.
 Naexot available.
 Notes:

 Receipts are purchases of fuel.
 Yearly costs are averages of monthly values, weighted by quantities in Btu.
 For this table, there are several breaks in the data series related to what plants and fuels are covered. Beginning in 2013, data cover all regulated generating plants; plus unregulated plants whose table for each fueld are presented are constrained.

 in 2013, data cover all regulated generating plants; plus unregulated plants whose total fossil-fueled nameplate generating capacity is 50 megawatts or more for coal, and 200 megawatts or more for natural gas, residual fuel oil, distillate fuel oil, and petroleum coke. For data coverage before 2013, see EIA, *Electric Power Monthly*, Appendix C, Form EIA-923 notes, "Receipts and cost and quality of fossil fuels" section. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

Sources: See end of section.



^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary. ^bIncludes taxes.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.10.

Table 9.10 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

						C	onsuming	Sectorsb			
		City-	Res	idential	Com	mercial ^c	Inde	ustriald	Transportation	Electr	ic Power ^e
	Wellhead Price	gate Price	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Vehicle Fuel ^h Price ^f	Price ^f	Percentage of Sector ^{9,}
1973 Average	0.22	NA	1.29	NA	0.94	NA	0.50	NA	NA	0.38	92.1
1975 Average		NA	1.71	NA	1.35	NA	.96	NA	NA	.77	96.1
1980 Average		NA	3.68	NA	3.39	NA	2.56	NA	NA	2.27	96.9
1985 Average		3.75	6.12	NA	5.50	NA	3.95	68.8	NA	3.55	94.0
1990 Average		3.03	5.80	99.2	4.83	86.6	2.93	35.2	3.39	2.38	76.8
1995 Average		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 1997 Average		3.66	6.94	99.0	5.80	70.8	3.42	19.4	4.34	2.09	68.0
1998 Average		3.00	6.82	97.7	5.48	67.0	3.14	16.1	4.59	2.40	63.7
1999 Average		3.10	6.69	95.2	5.33	66.1	3.12	18.8	4.34	2.62	58.3
2000 Average		4.62	7.76	92.6	6.59	63.9	4.45	19.8	5.54	4.38	50.5
2001 Average		5.72	9.63	92.4	8.43	66.0	5.24	20.8	6.60	4.61	40.2
2002 Average		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	23.6	7.16	6.11	89.8
2005 Average		8.67	12.70	98.1	11.34	82.1	8.56	24.0	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 Average		9.18	13.89	97.5	12.23	79.7	9.65	20.4	11.75	9.26	101.1
2009 Average 2010 Average		6.48 6.18	12.14 11.39	97.4 97.4	10.06 9.47	77.8 77.5	5.33 5.49	18.8 18.0	8.13 6.25	4.93 5.27	101.1 100.8
2010 Average	4.40	0.10	11.39	57.4	9.47	11.5	5.49	10.0	0.25	5.27	100.0
2011 January		5.69	9.90	96.5	8.75	72.8	5.64	17.1	NA	5.66	101.7
February		5.75	10.14	96.5	8.88	72.0	5.75	16.9	NA	5.29	101.8
March		5.73	10.43	96.2	8.89	69.6	5.20	16.8	NA	4.84	101.0
April		5.62	11.27	96.0	9.03	66.4	5.33	16.3	NA	5.03	101.6
May		5.80 6.12	12.50 14.70	96.2 96.3	9.36 9.58	63.9 61.7	5.20 5.20	16.7 16.2	NA NA	5.04 5.20	101.3 101.1
June		6.12	16.14	96.3 96.3	9.58	60.1	5.20	17.0	NA	5.20	100.5
July August		6.19	16.67	95.7	9.59	58.1	5.20	16.4	NA	4.85	100.5
September		5.94	15.63	95.5	9.47	57.8	4.82	16.2	NA	4.71	101.4
October		5.45	12.85	95.7	8.95	61.4	4.70	16.2	NA	4.49	101.5
November	3.35	5.29	10.78	95.2	8.63	66.1	4.63	16.5	NA	4.26	101.1
December		5.03	9.84	96.4	8.33	69.1	4.57	17.0	NA	4.18	101.4
Average		5.63	11.03	96.2	8.92	67.3	5.11	16.6	7.29	4.89	101.2
2012 January	^E 2.89	4.85	9.64	96.2	8.22	70.5	4.54	16.4	NA	3.81	100.8
February		4.73	9.51	96.1	7.94	69.2	4.34	16.6	NA	3.45	100.8
March		4.84	10.45	96.2	8.40	67.3	3.70	16.4	NA	3.07	100.3
April		4.19	10.91	95.5	8.02	63.7	3.19	15.8	NA	2.79	101.1
May	^E 1.94	4.30	12.44	95.6	7.93	60.8	3.01	16.1	NA	3.03	100.8
June	E 2.54	4.63	14.22	95.6	8.21	60.7	3.28	16.0	NA	3.20	100.7
July		4.88	15.29	95.6	8.30	59.1	3.55	16.4	NA	3.53	100.7
August		5.13	15.94	95.1	8.49	57.1	3.80	17.2	NA	3.59	100.5
September	E 2.71	4.74	14.89	95.1	8.23	57.6	3.52	17.1	NA	3.52	101.3
October		4.65	11.77	95.2	8.00	60.7	3.90	17.0	NA	3.98	101.4
November		4.79 4.79	9.97 9.75	95.5 95.8	8.02 8.11	65.8 68.6	4.42 4.72	17.5 17.3	NA NA	4.42 4.36	100.4 101.6
December Average		4.79 4.73	9.75 10.68	95.8 95.8	8.11 8.13	^R 65.4	4.72 3.87	17.3 16.7	NA	4.36 3.52	101.6 100.8
-											
2013 January	NA	4.52	9.19	95.9	7.81	70.8	4.58	17.3	NA	4.56	95.1

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 8, "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. include independent power producers.

Includes taxes.

⁹ 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 9.10 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.

¹ 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 included all taxes. See Note 8, "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.eia.gov/totaleneru/data/monthly/thores for all

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices 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 consumer 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. 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. Delivered-to-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 forward: EIA, *Petroleum Marketing Monthly*, April 2013, 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 forward: EIA, *Petroleum Marketing Monthly*, April 2013, 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 forward: EIA, *Petroleum Marketing Monthly*, April 2013, 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 21.

2010 forward: EIA, *Petroleum Marketing Monthly*, April 2013, Table 21.

Table 9.9 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*, March 2013, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.10 Sources

All Prices Except Vehicle Fuel and Electric Power

1973–2006: U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports and unpublished revisions.

2007 forward: EIA, *Natural Gas Monthly (NGM)*, March 2013, 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

1989–2011: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." 2012: EIA, Form EIA-857, "Monthly Report of Natural

Gas Purchases and Deliveries to Consumers."

Percentage of Commercial Sector

1987–2006: 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.

2007 forward: EIA, NGM, March 2013, Table 3.

Percentage of Industrial Sector

1982–2006: 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. 2007 forward: EIA, NGM, March 2013, 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 (MER)*, Table 7.3b; for 1989–2001, see MER, Table 7.4b).

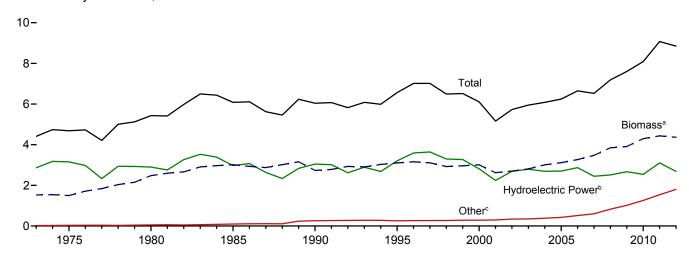
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed by the electric power sector (see MER, Table 7.4b).

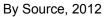
2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see MER, Table 7.4b).

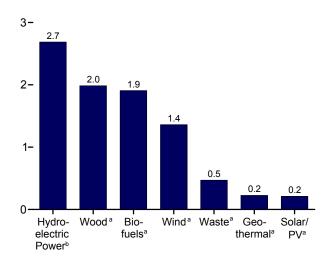
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

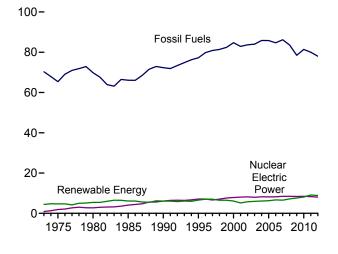
Total and Major Sources, 1973-2012



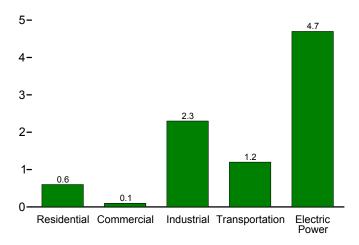




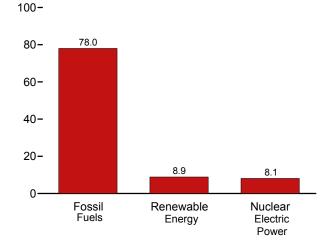
Compared With Other Resources, 1973-2012



By Sector, 2012



Compared With Other Resources, 2012



Web Page: http://www.eia.gov/totalenergy/data/monthly/#renewable.

Sources: Tables 1.3 and 10.1-10.2c.

^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

° Geothermal, solar/PV, and wind.

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Table 10.1 Renewable Energy Production and Consumption by Source (Trillion Btu)

		Production	a					Consumpti	on			
	Bior	nass	Total Renew-	Hvdro-					Bior	nass		Total Renew-
	Bio- fuels ^b	Totalc	able Energy ^d	electric Power ^e	Geo- thermal ^f	Solar/ PV9	Wind ^h	Wood ⁱ	Waste	Bio- fuels ^k	Total	able Energy
1973 Total	NA	1,529	4,411	2,861	20	NA	NA	1,527	2	NA	1,529	4,411
1975 Total	NA	1,499	4,687	3,155	34	NA	NA	1,497	2	NA	1,499	4,687
1980 Total	NA	2,475	5,428	2,900	53	NA	NA	2,474	2	NA	2,475	5,428
1985 Total	93	3,016	6,084	2,970	97	(s)	(s)	2,687	236	93	3,016	6,084
1990 Total	111	2,735	6,041	3,046	171	59	29	2,216	408	111	2,735	6,041
1995 Total 1996 Total	198 141	3,099 3.155	6,558 7.012	3,205 3.590	152 163	69 70	33 33	2,370 2.437	531 577	200 143	3,101 3.157	6,560 7.014
1997 Total	141	3,155	7,012	3,590	163	70	33	2,437	577	143	3,157	7,014
1998 Total	202	2,929	6,494	3,297	168	69	34	2,184	542	201	2,927	6,493
1999 Total	211	2,965	6,517	3.268	171	68	46	2,214	540	209	2.963	6,516
2000 Total	233	3,006	6,104	2.811	164	66	57	2,262	511	236	3.008	6,106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5,163
2002 Total	308	2,705	5,734	2,689	171	63	105	1,995	402	303	2,701	5,729
2003 Total	402	2,805	5,947	2,793	173	62	113	2,002	401	404	2,807	5,948
2004 Total	487	2,998	6,069	2,688	178	63	142	2,121	389	499	3,010	6,081
2005 Total	564	3,104	6,229	2,703	181	63	178	2,137	403	577	3,117	6,242
2006 Total	720	3,216	6,599	2,869	181	68	264 341	2,099	397 413	771	3,267	6,649
2007 Total	978 1.387	3,461 3.864	6,509 7.202	2,446 2.511	186 192	76 89	341 546	2,070 2.040	413	991 1.372	3,474 3.849	6,523 7.186
2008 Total 2009 Total	1,307	3,004	7,202	2,511	200	98	546 721	2,040	430	1,572	3,849	7,100
2010 Total	1,884	4,341	8,136	2,539	208	126	923	1,988	469	1,837	4,294	8,090
	,							,				,
2011 January	169	385	747	248	18	12	83	177	39	153	369	731
February	151	346	710	234	17	12	102	158	36	145	339	703
March	171	380	816	303	18	13	102	170	39	160	369	805
April	163	359	813	303	17	13	121	160	36	154	349	804
May	170 168	369 375	832 824	317 312	18 17	14 14	114 107	161 168	38 39	164 168	363 374	826 824
June July	171	375	624 792	312	17	14	73	172	39 40	162	374	624 782
August	174	387	742	250	18	14	73	172	40	174	386	702
September	166	372	677	208	17	13	67	167	38	160	365	670
October	176	382	708	192	18	13	102	166	40	167	373	699
November	178	386	738	201	18	13	121	167	41	167	375	727
December	186	405	770	231	18	13	104	177	42	176	395	760
Total	2,044	4,527	9,168	3,103	212	158	1,168	2,014	469	1,948	4,432	9,072
2012 January	177	390	785	227	19	15	134	174	39	154	367	763
February	164	362	701	198	18	15	108	162	36	152	351	690
March	172	373	795	250	19	17	135	162	40	163	365	786
April	164	356	770	254	18	17	124	155	38	160	353	767
May	173	378	816	277	19	19	122	166	40	172	378	816
June	165	368	780	259	19	19	116	164	39	164	366	779
July	157	368	751	260	19	19	85	171	40	158	369	753
August	163	370	713	225	19	19	81	169	39	168	375	719
September	152 156	353 359	645 676	171	19 19	18	84	164 164	38 40	150	352 364	644 681
October November	156	359 356	676 687	157 183	19 19	19 17	122 112	164 164	40 40	161 152	364 356	681 687
December	152	371	771	226	20	17	138	172	40	152	367	767
Total	1,951	4,406	8,893	2,687	227	212	1,361	1,985	471	1,909	4,364	8,851
2013 January	152	365	787	244	19	17	141	173	40	151	364	786

^a Production equals consumption for all renewable energy sources except

^b 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

^d Hydroelectric power, geomennan, some unconservation provide p

^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

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/totalenergy/data/monthly/#renewable for all available data beginning in 1973. Sources: Tables 10.2a–10.4.

Table 10.2a Renewable Energy Consumption: Residential and Commercial Sectors (Trillion Btu)

		Resider	ntial Sector					Co	ommercial	Sectora			
			Biomass		Hydro-					Bio	omass		
	Geo- thermal ^b	Solar/ PV ^c	Wood ^d	Total	electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ^g	Wood ^d	Wasteh	Fuel Ethanol ⁱ	Total	Total
1973 Total	NA	NA	354	354	NA	NA	NA	NA	7	NA	NA	7	7
1975 Total	NA	NA	425	425	NA	NA	NA	NA	8	NA	NA	8	8
1980 Total	NA	NA	850	850	NA	NA	NA	NA	21	NA	ŅĄ	21	21
1985 Total	NA	NA	1,010	1,010	NA	NA	NA	NA	24	NA	(s)	24	24 98
1990 Total	6 7	56 64	580 520	641 591	1	3 5	-	_	66 72	28 40	(s)	94 113	98 118
1995 Total 1996 Total	7	65	520	612		5	-	-	76	40 53	(s) (s)	129	135
1997 Total	8	64	430	502		6		_	73	58	(S) (S)	131	135
1998 Total	8	64	380	452	1	7	_	_	64	54	(s)	118	127
1999 Total	9	63	390	461	1	7	_	_	67	54	(s)	121	129
2000 Total	9	61	420	489	1	8	_	_	71	47	(s)	119	128
2001 Total	9	59	370	438	1	8	-	-	67	25	(s)	92	101
2002 Total	10	57	380	448	(s)	9	-	-	69	26	(s)	95	104
2003 Total	13	57	400	470	í <u>í</u>	11	-	-	71	29	`1	101	113
2004 Total	14	57	410	481	1	12	-	-	70	34	1	105	118
2005 Total	16	58	430	504	1	14	-	-	70	34	1	105	120
2006 Total	18	63	380	462	1	14	-	-	65	36	1	103	118
2007 Total	22	70	410	502	1	14	-	-	70	31	2	103	118
2008 Total	26	80	450	557	1	15	(s)	-	73	34	2	109	125
2009 Total	33 37	89	430 420	552 571	1	17 19	(s) (s)	(s) (s)	72 72	36 36	3	112 111	129 130
2010 Total	31	114	420	5/1	'	19	(5)	(5)	12	30	3		130
2011 January	3	12	37	52	(s)	2 2 2	(s)	(s)	6	3	(s)	10	11
February	3	11	33 37	47	(s)	2	(s)	(s)	5	3	(s)	9	10
March	3 3	12 12	37	52 50	(s) (s)	2	(s)	(s)	6 6	3	(s)	10 9	11 11
April	3	12	35 37	50 52		2	(s)	(s)	6	3	(s)	10	11
May	3	12	35	52 50	(s) (s)	2	(s)	(s)	6	4	(s) (s)	10	12
June July	3	12	37	52	(S)	2 2 2	(s) (s)	(s) (s)	6	4	(S) (S)	10	12
August	3	12	37	52	(S)	2	(s)	(s)	6	4	(s)	10	12
September	3	12	35	50	(s)	2	(s)	(s)	6	4	(s)	10	11
October	3	12	37	52	(s)	2	(s)	(s)	ĕ	4	(s)	10	12
November	3 3	12	35	50	(s)	2	(s)	(s)	ő	4	(s)	10	11
December	3	12	37	52	(s)	2	(s)	(s)	6	4	(s)	10	12
Total	40	140	430	610	(s)	20	` 1	(s)	71	43	`3	116	137
2012 January	3	14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
February	3 3	13	34	51	(s)	2	(s)	(s)	ő	4	(s)	10	11
March	3 3	14	36	54	(s)	2	(s)	(s)	ő	4	(s)	10	12
April	3	14	35	52	(s)	22	(s)	(s)	6	3	(s)	9	11
May	3	14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
June	3	14	35	52	(s)	2	(s)	(s)	6	3	(s)	9	11
July	3	14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
August	3	14	36	54	(s)	2	(s)	(s)	6	3	(s)	10	12
September	3	14	35	52	(s)	2	(s)	(s)	6	3	(s)	10	11
October	3	14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
November	3	14	35	52	(s)	2 2 2	(s)	(s)	6	4	(s)	10	12
December	3 40	14 170	36 430	54 639	(s)	2 20	(s)	(s)	6 71	4 44	(s) 3	11	12 140
Total	40	170	430	023	(s)	20	1	1	/1	44	3	118	140
2013 January	3	14	37	54	(s)	2	(s)	(s)	6	4	(s)	10	12

^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 pump and direct use energy.
 ^c Solar thermal direct use energy, hotovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). Includes distributed solar thermal and PV energy used in the commercial, industrial, and electric power sectors.

Includes distributed solar thermal and PV energy used in the commercial, industrial, and electric power sectors. ^e Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). ^f Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at commercial plants with capacity of 1 megawatt or greater. ^g Wind electricity net generation (converted to Btu using the fossil-fuels heat rate)

rate—see Table A6). ^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

non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ¹ 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. Notes: • Data are estimates, except for commercial sector solar/PV, hydroelectric power, wind, 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: Sae http://www.eia.gov/detalescent/dt//www.th/f/

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1973. Sources: See end of section.

Table 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors (Trillion Btu)

					Industri	al Sector ^a					Trans	portation S	Sector
						1	Biomass		1	-		Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Wind ^e	Wood ^f	Waste ^g	Fuel Ethanol ^h	Losses and Co- products ⁱ	Total	Total	Fuel Ethanol ^j	Bio- diesel	Total
1973 Total	35	NA	NA	NA	1,165	NA	NA	NA	1,165	1,200	NA	NA	NA
1975 Total	32	NA	NA	NA	1,063	NA	NA	NA	1,063	1,096	NA	NA	NA
1980 Total	33	NA	NA	NA	1,600	NA	NA	NA	1,600	1,633	NA	NA	NA
1985 Total	33	NA	NA	NA	1,645	230	1	42	1,918	1,951	50	NA	50
1990 Total	31	2	-	-	1,442	192	1	49	1,684	1,717	60	NA	60
1995 Total	55 61	3	-	_	1,652 1.683	195 224	2 1	86 61	1,934 1.969	1,992 2.033	112 81	NA NA	112 81
1996 Total 1997 Total	58	3	-	_	1,003	184	1	80	1,969	2,033	102	NA	102
1998 Total	55	3	_	_	1.603	180	ł	86	1,872	1,929	113	NA	113
1999 Total	49	4	_	_	1.620	171	1	90	1.882	1,934	118	NA	118
2000 Total	42	4	_	_	1.636	145	i	99	1,881	1,928	135	NA	135
2001 Total	33	5	-	-	1,443	129	3	108	1,681	1,719	141	1	142
2002 Total	39	5	_	_	1,396	146	3	130	1,676	1,720	168	2	170
2003 Total	43	3	-	-	1,363	142	4	169	1,679	1,725	228	2	230
2004 Total	33	4	-	-	1,476	132	6	203	1,817	1,853	286	3	290
2005 Total	32	4	-	-	1,452	148	7	230	1,837	1,873	327	12	339
2006 Total	29	4	-	-	1,472	130	10	285	1,897	1,930	442	33	475
2007 Total	16	5	_	-	1,405	144	10	377	1,936	1,956	557	46	602
2008 Total 2009 Total	17 18	5 4	-	-	1,340 1,208	144 155	12 13	532 617	2,028 1.994	2,049 2.016	786 894	40 42	826 935
2010 Total	16	4	_ (s)	Ξ	1,301	169	17	742	2,229	2,016	1,041	42 34	1,075
2011 January	1	(s)	(s)	(s)	117	15	1	66	200	202	82	3	86
February	2	(s)	(s)	(s)	104	14	1	59	178	180	81	4	84
March	2	(s)	(s)	(s)	112	15	1	65	193	196	87	6	93
April	2	(s)	(s)	(s)	106	13	1	62	183	185	82	8	90
May	2	(s)	(s)	(s)	105	14	1	64	185	187	90	8	98
June	1	(s)	(s)	(s)	111	13	1	63	189	191	92	10	103
July	1	(s)	(s)	(s)	113 113	14 14	1 2	64 65	192 193	194 195	86 95	10 12	96 107
August September	1	(s) (s)	(s) (s)	(s) (s)	113	14	2	62	193	189	83	12	96
October	1	(S) (S)	(s) (s)	(S) (S)	109	14	1	65	191	193	89	13	100
November	1	(s)	(s)	(S)	112	15	1	66	195	197	86	13	99
December	2	(s)	(s)	(s)	118	15	1	69	204	206	91	14	105
Total	17	4	(s)	(s)	1,332	171	17	771	^R 2,291	2,312	1,045	113	1,158
2012 January	2	(s)	(s)	(s)	116	15	1	67	198	201	81	5	86
February	2	(s)	(s)	(s)	108	14	1	61	184	186	82	8	90
March	2	(s)	(s)	(s)	106	14	1	64	185	187	88	10	98
April	2	(s)	(s)	(s)	103	14	1	61	179	181	87	11	98
May	2	(s)	(s)	(s)	110	14	1	64	190	192	93	14	107
	1	(s)	(s)	(s)	108	14	1	61	185	186	90	11	101
July	1	(s) (s)	(s) (s)	(s) (s)	112 110	15 15	1	58 60	186 186	188 187	88 95	10 11	99 106
August September	1	(S) (S)	(S) (S)	(S) (S)	108	15	2	56	179	181	83	9	92
October	1	(S) (S)	(S) (S)	(S) (S)	108	14	1	58	183	184	93	8	101
November	2	(S)	(s)	(s)	108	15	1	58	182	185	84	9	93
December	2	(s)	(s)	(s)	114	16	1	60	190	193	86	5	92
Total	18	4	(s)	(s)	1,309	174	17	728	R 2,228	2,250	1,050	111	1,161
2013 January	3	(s)	(s)	(s)	115	15	1	57	189	192	83	9	92

 ^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 fossil-fuels heat rate—see Table A6).
 ^c Geothermal heat pump and direct use energy.
 ^d Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 megawatt or greater.
 ^e Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 megawatt or greater.
 ^e Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^f Wood and wood-derived fuels.
 ^g 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). tire-derived fuels). ^h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

consumed by the industrial sector. ⁱ 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 production of fuel ethanol and biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source. ^j The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector. R=Revised. NA=Not available. – =No data reported. (s)=Less than 0.5 trillion

Btu. Notes: • Data are estimates, except for industrial sector hydroelectric power in 1973-1978 and 1989 forward, solar/PV, and wind. • 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/totalenergy/data/monthly/#renewable for all available data beginning in 1973.

Sources: See end of section.

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro-	0				Biomass		
	electric Power ^a	Geo- thermal ^b	Solar/PV ^c	Wind ^d	Wood ^e	Wastef	Total	Total
973 Total	2,827	20	NA	NA	1	2	3	2,851
975 Total	3,122	34	NA	NA	(s)	2	2	3,158
980 Total	2.867	53	NA	NA	3	2	4	2,925
985 Total	2,937	97	(s)	(s)	8	7	14	3.049
990 Total ^g	3,014	161	4	29	129	188	317	3,524
995 Total	3,149	138	5	33	125	296	422	3,747
996 Total	3.528	148	5	33	138	300	438	4,153
997 Total	3,581	150	5	34	137	309	446	4,216
998 Total	3,241	151	5	31	137	308	444	3,872
999 Total	3.218	152	5	46	138	315	453	3.874
000 Total	2,768	144	5	57	134	318	453	3,427
001 Total	2,209	142	6	70	126	211	337	2,763
002 Total	2,650	147	6	105	150	230	380	3,288
003 Total	2,749	146	5	113	167	230	397	3,411
004 Total	2,655	148	6	142	165	223	388	3,339
005 Total	2,670	147	6	178	185	221	406	3,406
006 Total	2,839	145	5	264	182	231	412	3,665
007 Total	2,430	145	6	341	186	237	423	3,345
008 Total	2,494	146	9	546	177	258	435	3,630
009 Total	2,650	146	9	721	180	261	441	3,967
010 Total	2,521	148	12	923	196	264	459	4,064
011 January	247	13	(s)	83	17	21	37	381
February	233	12	1	102	16	19	35	382
March	301	13	1	102	15	21	36	453
April	301	12	2	121	12	20	32	467
May	315	13	2	114	13	21	34	477
June	311	12	2	107	16	22	37	469
July	303	12	2	73	17	22	39	429
August	249	12	2	73	17	22	39	376
September	207	12	2	67	15	21	37	323
October	191	12	1	102	14	22	36	343
November	199	12	1	121	14	22	36	369
December	229	13	1	103	16	23	39	385
Total	3,085	149	17	1,167	182	255	437	4,855
012 January	225	14	1	134	16	21	37	410
February	196	13	1	108	15	19	34	353
March	249	14	2	135	14	21	35	435
April	252	13	3	124	11	20	31	424
May	276	14	5	122	13	22	35	451
June	257	13	5	116	15	21	36	428
July	259	14	5	85	16	22	38	401
August	224	13	4	80	16	21	38	360
September	170	13	4	84	15	20	36	307
October	156	14	4	122	14	21	35	330
November	181	14	3	112	15	22	36	346
December	224	14	2	138	16	23	38	416
Total	2,668	163	41	1,360	176	253	429	4,661
013 January	241	14	3	141	16	21	37	435

^a Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^b Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate area Table A6).

^o Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^c Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^d Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Wind electricity net generation (convence to bit control to bit cont

tire-derived fuels).

⁹ 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: • 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 Pare: See bits//www.eia.cov/totalenergy/data/monthly//trenewable for all

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1973. Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

	Feed- stock ^a	Losses and Co- products ^b	Dena- turant ^c	Pr	oductiond		Trade ^d Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Co	nsumption	b	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	202	86	669	33,453	1,405	119	66	3,406	481	33,038	1,388	118	115
1999 Total	211	90	698	34,881	1,465	124	87	4,024	618	34,350	1,443	122	119
2000 Total	233	99	773	38,627	1,622	138	116	3,400	-624	39,367	1,653	140	137
2001 Total	253	108	841	42,028	1,765	150	315	4,298	898	41,445	1,741	148	144
2002 Total	307	130	1,019	50,956	2,140	182	306	6,200	1,902	49,360	2,073	176	171
2003 Total	400	169	1,335	66,772	2,804	238	292	5,978	-222	67,286	2,826	240	233
2004 Total	484	203	1,621	81,058	3,404	289	3,542	6,002	24	84,576	3,552	301	293
2005 Total	552	230	1,859	92,961	3,904	331	3,234	5,563	-439	96,634	4,059	344	335 453
2006 Total	688 914	285 376	2,326 3.105	116,294	4,884 6,521	414 553	17,408 10.457	8,760	3,197 1.775	130,505 163.945	5,481 6.886	465 584	453
2007 Total 2008 Total	1,300	531	4.433	155,263 221,637	9,309	553 790	12,610	10,535 14,226	3,691	230.556	9.683	564 821	800
2009 Total	1,500	616	4,433 5.688	260.424	10,938	928	4.720	16,594	2,368	262.776	9,003 11,037	936	910
2010 Total	1,839	742	6,506	316,617	13,298	1,127	-9,115	17,941	1,347	306,155	12,858	1,090	1,061
			,		,								
2011 January	165	66	581	28,467	1,196	101	-1,359	20,826	2,885	24,223	1,017	86	84
February	146	59	535	25,300	1,063	90	-1,425	21,016	190	23,685	995	84	82
March	163	65	548	28,178	1,183	100	-2,003	21,593	577	25,598	1,075	91	89
April	154	62	508	26,538	1,115	94	-2,865	21,065	-528	24,201	1,016	86	84
May	160	64	550	27,720	1,164	99	-1,743	20,609	-456	26,433	1,110	94	92
June	158	63	540	27,224	1,143	97	-1,533	19,217	-1,392	27,083	1,137	96	94
July	159	64 65	555 575	27,541	1,157	98 100	-2,731	18,788	-429	25,239	1,060 1,175	90 100	88 97
August September	162 154	62	525	27,976 26,588	1,175 1,117	95	-665 -1,745	18,123 18,465	-665 342	27,976 24,501	1,029	87	85
October	162	65	525	28,013	1,177	100	-2,388	18.038	-427	24,501	1.029	93	90
November	164	66	573	28,383	1,192	100	-2,911	18,308	270	25,202	1,054	90	87
December	172	69	602	29,718	1,248	106	-2,997	18,238	-70	26,791	1,125	95	93
Total	1,919	769	6,649	331,646	13,929	1,181	-24,365	18,238	297	306,984	12,893	1,093	1,065
			,		,	.,		,		,			.,
2012 January	167	67	583	29,063	1,221	103	-1,789	21,753	ⁱ 3,492	23,782	999	85	82
February	154	61	528	26,653	1,119	95	-1,785	22,572	819	24,049	1,010	86	83
March	160	64	522	27,706	1,164	99	-1,626	22,952	380	25,700	1,079	91	89
April	152	61	494	26,368	1,107	94	-1,549	22,370	-582	25,401	1,067	90	88
May	160	64	520	27,718	1,164	99	-1,013	21,851	-519	27,224	1,143	97	95
June	154	61	503	26,611	1,118	95	-613	21,456	-395	26,393	1,109	94	92
July	146	58	504	25,329	1,064	90	-502	20,373	-1,083	25,910	1,088	92	90
August	151	60 56	526	26,194	1,100	93	654	19,369	-1,004	27,852	1,170	99	97
September	141 146	56 58	497 528	24,511	1,029 1.065	87 90	694 609	20,044	675	24,530	1,030	87 97	85 94
October	146	58 58	528 527	25,352 25,189	1,065	90 90	997	18,762 20,174	-1,282 1,412	27,243 24,774	1,144 1.041	97 88	94 86
November December	145	58 60	527 534	25,189	1,058	90 92	-79	20,174	503	24,774 25,389	1,041	88 90	88
Total	1,825	727	6,266	316,665	13,300	1,127	-6,002	20,677	ⁱ 2,416	20,009 308,247	12,946	1,097	1.069
	1,020	121	0,200	510,005	13,300	1,127	-0,002	20,011	2,410	300,247	12,340	1,037	1,009

Table 10.3 Fuel Ethanol Overview

a Total corn and other biomass inputs to the production of undenatured ethanol used for fuel ethanol. ^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. ^c The amount of denaturant in fuel ethanol produced.

d

Includes denaturant.

 Through 2009, data are for fuel ethanol imports only; data for fuel ethanol exports are not available. Beginning in 2010, data are for fuel ethanol imports minus fuel ethanol exports. f Stocks are at end of period.

⁹ A negative value indicates a decrease in stocks and a positive value indicates

^b A negative value and the second secon

ⁱ Derived from the preliminary 2011 stocks value (18,261 thousand barrels), not the final 2011 value (18,238 thousand barrels) that is shown 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 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 feedstock, losses and co-products, and denaturant are estimates. 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. Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1981.

Sources: See end of section.

Feed- stock ^a and Co- products ^b Production Imports Exports Net Imports ^c Stock Stocks ^d ancing Change ^e			Losses					Trade				Bal-			
2001 Total 1 (s) 204 9 1 78 39 39 NA NA NA NA 243 10 2007 Total 1 (s) 250 10 1 191 56 135 NA NA NA NA NA NA NA 243 10 2005 Total 2 (s) 566 28 4 97 124 -26 NA NA NA 243 164 27 2005 Total 32 (s) 5,963 250 324 1,069 828 242 NA NA NA 8,6204 261 2007 Total 63 1 11,662 490 62 3,342 6,477 -3,135 NA NA NA 8,528 358 2005 Total 67 1 12,281 516 66 1,844 6,332 -4,489 711 711 619 7,750 326 <td< th=""><th></th><th></th><th>and Co-</th><th>Pi</th><th>oduction</th><th></th><th>Imports</th><th>Exports</th><th></th><th>Stocksd</th><th></th><th>ancing</th><th>Со</th><th>nsumptio</th><th>n</th></td<>			and Co-	Pi	oduction		Imports	Exports		Stocksd		ancing	Со	nsumptio	n
2002 Total 1 191 56 135 NA NA NA NA 385 16 2003 Total 4 (s) 666 28 4 97 124 -26 NA NA NA SA 640 27 2005 Total 32 (s) 5,963 250 32 1,069 828 242 NA NA NA 640 27 2005 Total 63 1 1662 490 622 3,342 6,477 -3,135 NA NA NA 8,528 358 2009 Total 67 1 12,281 516 67 7,502 1,6128 -8,626 NA NA NA 8,528 358 2010 Total 44 1 8,177 343 44 564 2,503 -1,429 71 690 6,258 27 -39 0 6,258 263 2010 Total 44 18,177 343 44 53 197 -144 1,381 164 0 1,111 47		TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2003 Total 2 (s) 338 14 2 94 110 -16 NA NA NA NA SA 322 14 2004 Total 12 (s) 2,162 91 12 207 206 1 NA NA NA NA KA 640 27 2006 Total 32 (s) 5,563 250 32 1,069 828 242 NA NA NA 6,40 27 2007 Total 63 1 11,662 490 62 3,342 6,477 -3,135 NA NA NA 8,42 358 208 7,502 316 2009 7,519 316 2010 7,519 316 2010 7,519 326 52 22 -4,69 7,719 30 6,528 263 201 7,99 0 6,528 263 201 7,99 30 6,528 263 201 7,99 30 6,528 263 201 7,48 5 5 9,92 212 1,408 1,217	2001 Total	•	(s)												1
2004 Total 4 (s) 6666 28 4 97 124 -26 NA NA NA (A) 27 2005 Total 32 (s) 5,963 250 32 1,069 828 242 NA NA NA 2,663 91 2007 Total 63 1 11,662 490 62 3,342 6,477 -3,135 NA NA NA 8,528 358 2008 Total 67 1 12,281 516 66 64 2,632 -1,844 6,332 -4,489 711 711 669 7,750 326 2010 Total 67 1 12,281 55 5 49 217 -169 1,016 9.39 0 634 27 February 5 (s) 961 40 5 37 78 51 1,217 201 0 709 330 March 8 (s) 1,491 60 83 197 -144 1,564 634 0 1,526 6															2
2005 Total 12 (5) 2,162 91 12 2007 2066 1 NA NA NA 2,163 91 2006 Total 32 (5) 5,963 250 32 1,069 828 242 NA NA NA RA 8,28 358 2007 Total 63 1 11,662 490 62 3,342 6,477 -3,135 NA NA NA Figure 10 7,519 316 2009 Total 67 1 12,281 516 66 1,844 6,332 -4,489 711 711 69 7,750 326 2010 Total 44 1 8,177 343 44 546 2,503 -1,958 672 -39 0 6,258 263 2010 Total 44 1 8,177 343 44 546 2,503 -1,958 672 -39 0 6,34 27 February 5 (5) 961 40 5 37 88 -51 1,217 201 <t< 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></td><td></td><td>:</td></t<>															:
2006 Total 32 (is) 5.963 250 32 1.069 828 242 NA NA NA Ka 6,204 261 2007 Total 63 1 11,642 490 62 3.342 6,477 -3,135 NA		-													
2007 Total 63 1 1 1 1 662 430 622 332 6,477 -3,135 NA				_,					-						12
2008 Total 88 1 16,145 678 87 7,502 16,128 -5,626 NA NA NA F1 711 669 7,750 326 2010 Total															33
2009 Total 67 1 12,281 516 66 1,844 6,332 -4,489 711 711 669 7,750 326 2010 Total															46
2010 Total 44 1 8,177 343 44 546 2,503 -1,958 672 -39 0 6,258 263 2011 January 5 (s) 961 40 5 37 88 -51 1,217 201 0 709 30 March 8 (s) 1,419 60 8 53 197 -144 1,381 164 0 1,111 47 April 9 (s) 1,692 71 9 52 222 -169 1,408 27 0 1,495 63 March 10 (s) 1,838 77 10 48 192 -144 1,576 168 0 1,222 81 July 112 (s) 2,183 92 12 65 71 -7 1,834 86 0 2,137 100 October 14 (s) 2,284 96 12 85 131 -65 137 -261 0 2,111 89 2,517 106 </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></td> <td></td> <td>40</td>				- / -			/								40
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February 5 (s) 961 40 5 37 88 -51 1,217 201 0 709 30 March 8 (s) 1,419 60 8 53 197 -144 1,381 164 0 1,111 47 April 9 (s) 1,838 77 10 48 192 -144 1,576 168 0 1,526 64 June 11 (s) 1,938 81 10 48 192 -144 1,576 168 0 1,526 64 June 112 (s) 2,183 92 12 65 71 -7 1,834 86 0 2,181 92 September 12 (s) 2,273 95 12 65 71 -7 1,834 86 0 2,181 92 50 1,877 70 2,111 89 November 14 (s) 2,494 105 13 82 132 -49 1,965 347 0 <	2011 January	5	(s)	842	35	5	49	217	-169	1,016	^g 39	0	634	27	3
March 8 (s) 1,419 60 8 53 197 -144 1,381 164 0 1,111 47 April 9 (s) 1,838 77 10 48 192 -144 1,576 168 0 1,495 63 June 11 (s) 1,938 81 10 48 192 -144 1,576 168 0 1,495 63 June 11 (s) 1,938 81 10 48 117 -69 1,524 -53 0 1,922 81 July 12 (s) 2,183 92 12 65 71 -7 1,834 86 0 2,181 92 September 12 (s) 2,284 96 12 65 193 -127 1,617 -216 0 2,373 100 October 14 (s) 2,404 105 13 86 131 -65 1,877 -88 0 2,517 106 December		5	(s)	961	40	5	37	88	-51	1,217	201	0	709	30	4
April 9 (s) 1,692 71 9 52 222 -169 1,408 27 0 1,495 63 May 10 (s) 1,338 77 10 48 192 -144 1,576 168 0 1,526 64 June 11 (s) 1,338 81 10 48 192 -144 1,576 168 0 1,526 64 Juny 12 (s) 2,183 92 12 62 142 -80 1,748 224 0 1,879 79 August 12 (s) 2,284 96 12 65 71 -7 1,834 86 0 2,111 89 November 14 (s) 2,508 105 13 82 132 -49 1,965 347 0 2,111 89 November 14 (s) 2,604 109 14 234 39 195 2,012 135 0 2,164 112 Total		8	(s)	1,419	60	8	53	197	-144	1,381	164	0	1,111	47	6
May 10 (s) 1,838 77 10 48 192 -144 1,576 168 0 1,526 64 June 11 (s) 1,938 81 10 48 117 -69 1,524 -53 0 1,922 81 July 12 (s) 2,183 92 12 62 142 -80 1,748 224 0 1,879 79 August 12 (s) 2,273 95 12 65 71 -7 1,834 86 0 2,181 92 September 14 (s) 2,284 96 12 65 193 -127 1,617 -216 0 2,373 100 October 14 (s) 2,494 105 13 66 131 -65 1,877 -88 0 2,517 106 December 14 (s) 2,604 109 14 234 39 195 2,012 91,035 0 21,122 887 <t< td=""><td></td><td>9</td><td>(s)</td><td>1,692</td><td>71</td><td>9</td><td>52</td><td>222</td><td>-169</td><td>1,408</td><td>27</td><td>0</td><td>1,495</td><td>63</td><td>8</td></t<>		9	(s)	1,692	71	9	52	222	-169	1,408	27	0	1,495	63	8
June 11 (s) 1,938 81 10 48 117 -69 1,524 -53 0 1,922 81 July 12 (s) 2,183 92 12 62 142 -80 1,748 224 0 1,879 79 August 12 (s) 2,273 95 12 65 71 -7 1,617 -216 0 2,181 92 September 14 (s) 2,284 96 12 65 193 -127 1,617 -216 0 2,373 100 October 14 (s) 2,494 105 13 66 131 -65 1,877 -88 0 2,517 106 2,564 112 December 14 (s) 2,604 109 14 234 39 195 2,012 91,035 0 2,162 87 Total 125 2 23,035 967 123 861 1,740 -879 2,012 91,035 0 2,162<		10	(s)	1,838	77	10	48	192	-144	1,576	168	0	1,526	64	8
August 12 (s) 2,273 95 12 65 71 -7 1,834 86 0 2,181 92 September 12 (s) 2,284 96 12 65 193 -127 1,617 -216 0 2,373 100 October 14 (s) 2,508 105 13 82 132 -49 1,965 347 0 2,111 89 November 14 (s) 2,494 105 13 66 131 -65 1,877 -88 0 2,517 106 December 14 (s) 2,604 109 14 234 39 195 2,012 91,035 0 2,1624 112 Total 125 2 23,035 967 123 861 1,740 -879 2,012 91,035 0 21,122 887 2012 January 9 (s) 1,837 77 10 58 119 -93 3,053 184 0 1,915		11	(s)	1,938	81	10	48	117	-69	1,524	-53	0	1,922	81	10
September 12 (s) 2,284 96 12 65 193 -127 1,617 -216 0 2,373 100 October 14 (s) 2,508 105 13 82 132 -49 1,965 347 0 2,111 89 November 14 (s) 2,494 105 13 66 131 -65 1,877 -88 0 2,517 106 December 14 (s) 2,604 109 14 234 39 195 0 2,664 112 Total 125 2 23,035 967 123 861 1,740 -879 2,012 91,035 0 2,122 887 2012 January 9 (s) 1,700 71 9 44 248 -204 2,527 h 625 0 872 37 February 10 (s) 1,837 77 10 58 119 -62 2,869 342 0 1,433 60 <td< td=""><td>July</td><td>12</td><td>(s)</td><td>2,183</td><td>92</td><td>12</td><td>62</td><td>142</td><td>-80</td><td>1,748</td><td>224</td><td>0</td><td>1,879</td><td>79</td><td>10</td></td<>	July	12	(s)	2,183	92	12	62	142	-80	1,748	224	0	1,879	79	10
October 14 (s) 2,508 105 13 82 132 -49 1,965 347 0 2,111 89 November 14 (s) 2,494 105 13 66 131 -65 1,877 -88 0 2,517 106 December 14 (s) 2,604 109 14 234 39 195 2,012 91,035 0 2,664 112 Total 125 2 23,035 967 123 861 1,740 -879 2,012 91,035 0 2,1122 887 2012 January 9 (s) 1,700 71 9 44 248 -204 2,527 h625 0 872 37 February 10 (s) 1,837 77 10 58 119 -62 2,869 342 0 1,433 60 March 12 (s) 2,130 92 12 49 221 -171 2,932 -121 0 2,130 <t< td=""><td>August</td><td>12</td><td>(s)</td><td>2,273</td><td>95</td><td>12</td><td>65</td><td>71</td><td>-7</td><td>1,834</td><td>86</td><td>0</td><td>2,181</td><td>92</td><td>12</td></t<>	August	12	(s)	2,273	95	12	65	71	-7	1,834	86	0	2,181	92	12
November 14 (s) 2,494 105 13 66 131 -65 1,877 -88 0 2,517 106 December 14 (s) 2,604 109 14 234 39 195 2,012 135 0 2,664 112 Total 125 2 23,035 967 123 861 1,740 -879 2,012 91,035 0 21,122 887 2012 January 9 (s) 1,700 71 9 44 248 -204 2,527 h625 0 872 37 February 10 (s) 2,193 92 12 55 149 -93 3,053 184 0 1,915 80 April 12 (s) 2,162 91 12 102 375 -273 2,363 -151 0 2,539 108 July 11 (s) 2,065 87<			(s)						-127				2,373		13
December 14 (s) 2,604 109 14 234 39 195 2,012 135 0 2,664 112 Total 125 2 23,035 967 123 861 1,740 -879 2,012 135 0 2,664 112 2012 January 9 (s) 1,700 71 9 44 248 -204 2,527 h 625 0 872 37 February 10 (s) 1,837 77 10 58 119 -62 2,869 342 0 1,433 60 March 12 (s) 2,180 92 12 49 291 21 49 293 3,053 184 0 1,915 80 May 13 (s) 2,373 100 13 94 306 -212 2,514 -418 0 2,579 108 June 12 (s) 2,162 91 12 102 375 -273 2,363 -151 0	October	14		2,508		13			-49		347			89	11
Total 125 2 23,035 967 123 861 1,740 -879 2,012 91,035 0 21,122 887 2012 January 9 (s) 1,700 71 9 44 248 -204 2,527 h 625 0 872 37 February 10 (s) 1,837 77 10 58 119 -62 2,869 342 0 1,433 60 March 12 (s) 2,193 92 12 55 149 -93 3,053 184 0 1,915 80 April 13 (s) 2,373 100 13 94 306 -212 2,514 -418 0 2,579 108 June 12 (s) 2,162 91 12 102 375 -273 2,363 -151 0 2,039 86 July 11 (s) 2,140 90															13
2012 January 9 (s) 1,700 71 9 44 248 -204 2,527 h625 0 872 37 February 10 (s) 1,837 77 10 58 119 -62 2,869 342 0 1,433 60 March 12 (s) 2,193 92 12 55 149 -93 3,053 184 0 1,915 80 April 12 (s) 2,180 92 12 49 221 -171 2,932 -121 0 2,130 89 May 13 (s) 2,162 91 12 102 375 -273 2,363 -151 0 2,039 86 July 11 (s) 2,162 91 12 102 375 -273 2,363 -151 0 2,039 86 July 11 (s) 2,140 90 11 43 386 -342 2,003 -250 0 2,048 86 <td< td=""><td></td><td></td><td></td><td>,</td><td></td><td></td><td></td><td></td><td></td><td>7 -</td><td></td><td></td><td></td><td></td><td>14</td></td<>				,						7 -					14
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Table 10.4 **Biodiesel Overview**

Total vegetable oil and other biomass inputs to the production of biodiesel.

 ^a Total vegetable oil and other biomass inputs to the production of biodiesel.
 ^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.

 ^c Net imports equal imports minus exports.
 ^d Stocks are at end of period. Through 2010, includes stocks at bulk terminals only. Beginning in 2011, includes stocks at bulk terminals and biodiesel production plants. ^e A negative value indicates a decrease in stocks and a positive value indicates

an increase. ^f Beginning in 2009, because of incomplete data coverage and different data

^g Derived from the final 2010 stocks value for bulk terminals and biodiesel production plants (977 thousand barrels), not the final 2010 value for bulk terminals

only (672 thousand barrels) that is shown under "Stocks." ^h Derived from the preliminary 2011 stocks value (1,902 thousand barrels), not the final 2011 value (2,012 thousand barrels) that is shown 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 part harrel (the approximate heat contout for biodigoet) (42) • Through per barrel (the approximate heat content of biodised—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/totalenergy/data/monthly/#renewable for all available data beginning in 2001. Sources: See end of section.

Renewable Energy

Note. Renewable Energy Production and Consumption. In Tables 1.1, 1.3, and 10.1, renewable energy consumption consists of: conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate-see Table A6); geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fuels heat rate ---see Table A6), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossilfuels heat rate-see Table A6); 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. In Tables 1.1, 1.2, and 10.1, renewable 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 estimates for 2012 and 2013 are set equal to that of 2011.)

Residential Sector, Solar/PV

1989–2009: 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.

2010 forward: EIA estimates based on Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report"; Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey" (pre-2010 data); and SEIA/GTM Research, *U.S. Solar Market Insight: 2010 Year in Review.* 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 worth. (The annual estimate for 2012 is derived using the average annual growth rate for 2009–2011. The annual estimate for 2013 is set equal to that of 2012.)

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 estimates for 2012 and 2013 are set equal to that of 2011.)

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-fuels heat rate—see 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 estimates for 2012 and 2013 are set equal to that of 2011.)

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-fuels heat rate—see Table A6.

Commercial Sector, Wind

2009 forward: Commercial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see 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-heatand-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 estimates for 2012 and 2013 are set equal to that of 2011); 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-fuels heat rate—see 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 estimates for 2012 and 2013 are set equal to that of 2011.)

Industrial Sector, Solar/PV

2010 forward: Industrial sector solar thermal and photovoltaic (PV) electricity net generation data from the U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wind

2011 forward: Industrial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

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, *Monthly Energy Review (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 estimates for 2012 and 2013 are set equal to that of 2011); 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 estimates for 2012 amd 2013 are set equal to that of 2011); 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).

2009–2011: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, annual 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.

2012 and 2013: 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."

2009–2011: EIA, PSA, annual reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2012 and 2013: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

1992–2011: EIA, PSA, annual reports, Table 1.

2012 and 2013: 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).

2009–2011: EIA, PSA, annual reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2012 and 2013: 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-to-production 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, the U.S. Energy Information Administration (EIA) estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007: 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).

2008: 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.

2009 forward: EIA, *Monthly Biodiesel Production Report*, monthly reports, Table 1.

Trade

2001-October 2012: For imports, U.S. Department of Agriculture, data for the following Harmonized Tariff Schedule codes: 3824.90.40.20, "Fatty Esters Animal/Vegetable Mixture" (data through June 2010); "Biodiesel/Mixes" 3824.90.40.30, (data for July 2010-2011); 3826.00.00.00, "Biodiesel B30-99" (data for 2012); and 3826.00.10.00, "Biodiesel B100" (data for 2012). For exports, U.S. Department of Agriculture, data for the following Schedule B codes: 3824.90.40.00, "Fatty Substances Animal/ Vegetable/Mixture" (data through 2010); 3824.90.40.30, "Biodiesel <70%" (data for 2011); and 3826.00.00.00, "Biodiesel B=>30" (data for 2012). 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.

November 2012 forward: EIA, *Petroleum Supply Monthly* (*PSM*), monthly reports, Tables 37 and 49, data for biomass-based diesel fuel.

Stocks and Stock Change

2009–2011: EIA, *Petroleum Supply Annual (PSA)*, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2012 and 2013: EIA, PSM, monthly reports, 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.

11. International Petroleum

Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)

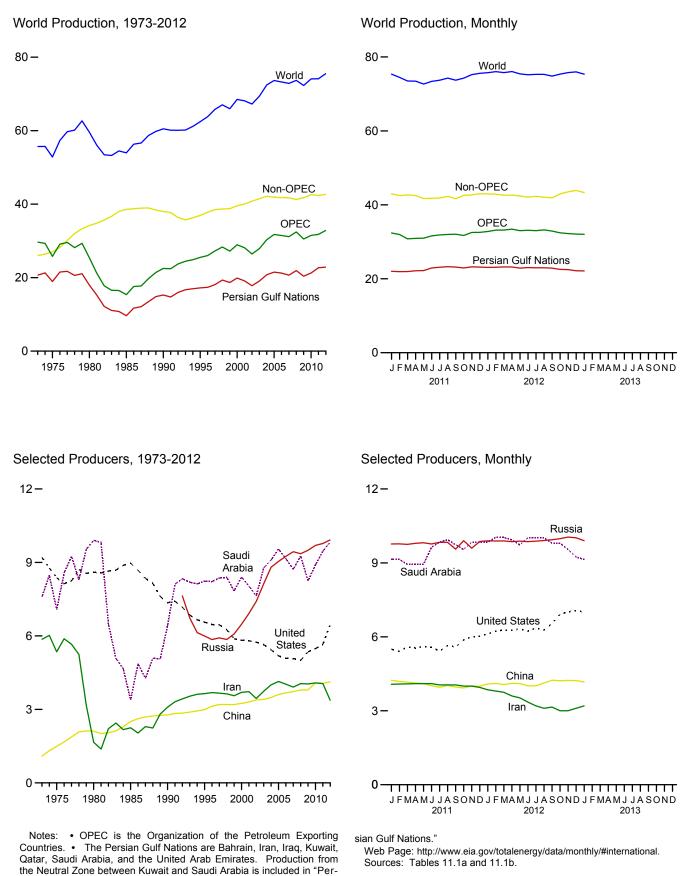
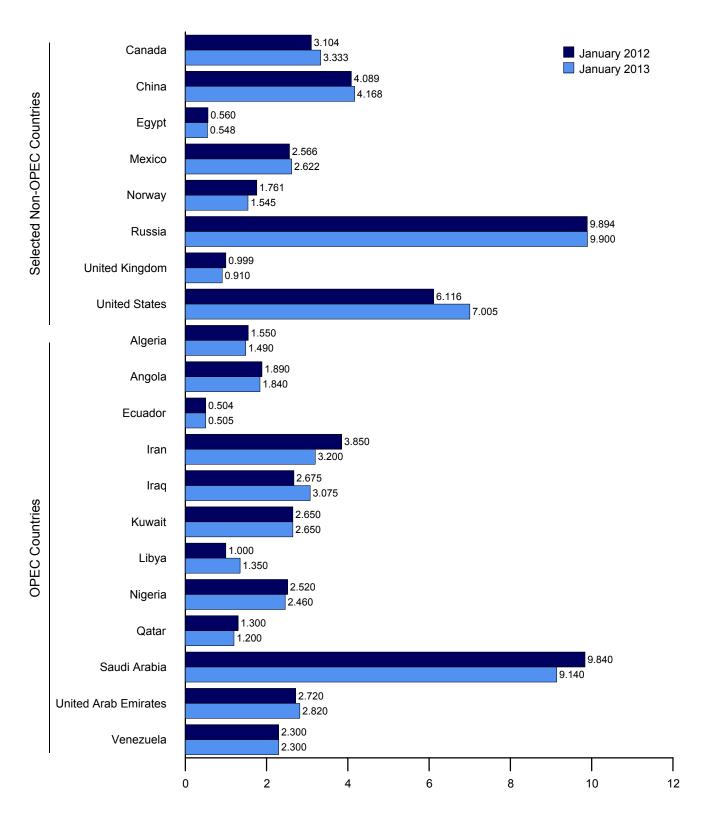


Figure 11.1b World Crude Oil Production by Selected Country

(Million Barrels per Day)



Note: OPEC is the Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Sources: Tables 11.1a and 11.1b.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

	Algeria	Angola	Ecuador	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Vene- zuela	Total OPEC ^b
1973 Average	1,097	162	209	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,661
1975 Average	983	165	161	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	25,790
1980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
1985 Average	1,036	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,367
1990 Average	1,180	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,498
1995 Average	1,162	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,500
1996 Average	1,227	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,003
1997 Average	1,259	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,274
1998 Average	1,226	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,346
1999 Average	1,177	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,199
2000 Average	1,214 1,265	746 742	395 412	3,696 3,724	2,571	2,079 1.998	1,410	2,165	737 714	8,404 8.031	2,368	3,155 3.010	28,940 28.114
2001 Average	1,205	896	393	- /	2,390		1,367	2,256	679	- /	2,205 2.082	2.604	
2002 Average	1,549	903	411	3,444 3.743	2,023 1,308	1,894 2,136	1,319 1,421	2,118 2,275	715	7,634 8,775	2,082	2,604	26,435 27,885
2003 Average	1,510	1,052	528	3,743 4,001	2.011	2,130	1,421	2,275	715	9,101	2,340 2,478	2,335 2,557	30,313
2004 Average 2005 Average	1,562	1,052	526	4,001	1,878	2,576	1,633	2,329	835	9,101	2,470	2,557	31,766
	1,692	1,413	536	4,139	1,996	2,525	1,633	2,027	850	9,350	2,535	2,505	31,476
2006 Average 2007 Average	1,708	1,744	511	3,912	2,086	2,335	1,702	2,440	851	8,722	2,603	2,311	31,143
2008 Average	1.705	1,981	505	4.050	2,000	2,586	1,736	2,350	924	9.261	2,681	2,450	32.433
2009 Average	1.585	1,907	486	4,030	2,373	2,350	1.650	2,103	927	8.250	2,413	2,404	30.522
2010 Average	1,540	1,939	486	4,080	2,399	2,300	1,650	2,455	1,127	8,900	2,415	2,216	31,507
2011 January	1,540	1,790	500	4,076	2,625	2,350	1,650	2,616	1,280	9,140	2,520	2,300	32,387
February	1,540	1,790	509	4,084	2,525	2,350	1,340	2,604	1,280	9,140	2,520	2,300	31,982
March	1,540	1,790	501	4,092	2,525	2,450	300	2,460	1,290	8,940	2,620	2,300	30,808
April	1,540	1,740	504	4,100	2,525	2,550	200	2,520	1,300	8,940	2,720	2,300	30,939
May	1,540	1,640	497	4,100	2,575	2,550	200	2,604	1,300	8,940	2,720	2,300	30,966
June	1,540	1,690	495	4,100	2,575	2,550	100	2,604	1,300	9,640	2,720	2,300	31,614
July	1,540	1,740	492	4,050	2,625	2,550	100	2,604	1,300	9,840	2,720	2,300	31,861
August	1,540	1,790	495	4,050	2,625	2,600	0	2,640	1,300	9,940	2,720	2,300	32,000
September	1,540	1,840	496	4,050	2,725	2,600	100	2,640	1,300	9,740	2,720	2,300	32,051
October	1,540	1,790	502	4,000	2,725	2,600	300	2,400	1,300	9,540	2,720	2,300	31,717
November	1,540	1,940	504	4,000	2,725	2,600	550	2,520	1,300	9,840	2,720	2,300	32,539
December	1,540	1,890	501	3,950	2,725	2,600	800	2,400	1,300	9,840	2,720	2,300	32,566
Average	1,540	1,786	500	4,054	2,626	2,530	465	2,550	1,296	9,458	2,679	2,300	31,784
2012 January	1,550	1,890	504	3,850	2,675	2,650	1,000	2,520	1,300	9,840	2,720	2,300	32,799
February	1,550	1,940	503	3,800	2,575	2,650	1,200	2,580	1,300	10,040	2,720	2,300	33,158
March	1,550	1,790	499	3,750	2,725	2,640	1,350	2,520	1,200	10,030	2,820	2,300	33,174
April	1,550	1,890	500	3,600	2,965	2,640	1,400	2,640	1,190	9,930	2,820	2,300	33,425
May	1,550	1,840	498	3,525	2,925	2,640	1,400	2,580	1,200	9,730	2,820	2,300	33,008
June	1,544	1,790	502	3,350	2,975	2,630	1,400	2,580	1,200	10,020	2,820	2,300	33,111
July	1,546	1,740	508	3,200	3,075	2,625	1,400	2,580	1,200	10,015	2,820	2,300	33,009
August	1,548	1,840	512	3,100	3,175	2,625	1,450	2,640	1,200	10,015	2,820	2,300	33,225
September	1,550	1,740	506	3,150	3,275	2,610	1,500	2,460	1,200	9,800	2,820	2,300	32,911
October	1,482	1,790	503	3,000	3,075	2,610	1,500	2,340	1,200	9,800	2,820	2,300	32,420
November	1,483	1,770	504	3,000	3,225	2,650	1,450	2,280	1,200	9,540	2,820	2,300	32,222
December		1,790	503	3,100	3,125	2,650	1,350	2,520	1,200	9,240	2,820	2,300	R 32,083
Average	1,532	1,817	504	3,367	2,983	2,635	1,367	2,520	1,216	9,832	2,804	2,300	32,877
2013 January	1,490	1,840	505	3,200	3,075	2,650	1,350	2,460	1,200	9,140	2,820	2,300	32,030

^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 January 2013, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 520 thousand barrels per day. Data for Saudi Arabia include approximately 150 thousand barrels per day from the Abu Sath field produced on behalf of Barrain.

ber day. Data for Saudi Arabia include approximately 150 thousand barrels per day from the Abu Safah field produced on behalf of Bahrain. ^b 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.

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/totalenergy/data/monthly/#international for all available data beginning in 1973. Sources: See end of section.

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World (Thousand Barrels per Day)

					Selected	I Non-OPE	C ^a Producer	s				
	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	53,965
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,497
1995 Average	17,208	1,805	2,990	920	2,711	2,766		5,995	2,489	6,560	36,934	62,434
1996 Average	17,367	1,837	3,131	922	2,944	3,091		5,850	2,568	6,465	37,815	63,818
1997 Average	18,095	1,922	3,200	856	3,104	3,142		5,920	2,518	6,452	38,532	65,806
1998 Average	19,337	1,981	3,198	834	3,160	3,011		5,854	2,616	6,252	38,685	67,032
1999 Average	18,667	1,907	3,195	852	2,998	3,019		6,079	2,684	5,881	38,768	65,967
2000 Average	19,892	1,977	3,249	768	3,104	3,222		6,479	2,275	5,822	39,583	68,522
2001 Average	19,098	2,029	3,300	720	3,218	3,226		6,917	2,282	5,801	40,003	68,116
2002 Average	17,794	2,171	3,390	715	3,263	3,131		7,408	2,292	5,744	40,825	67,260
2003 Average	19,063	2,306	3,409	713	3,459	3,042		8,132	2,093	5,644	41,478	69,363
2004 Average	20.787	2.398	3,485	673	3.476	2,954		8.805	1.845	5.435	42,149	72.462
2005 Average	21,501	2,369	3,609	623	3,423	2,698		9,043	1,649	5,186	41,878	73,644
2006 Average	21.232	2.525	3.673	535	3,345	2,491		9,247	1,490	5.089	41,793	73,269
2007 Average	20,672	2,628	3,729	530	3,143	2,270		9,437	1,498	5,077	41,730	72,873
2008 Average	21,913	2,579	3,790	566	2,839	2,182		9,357	1,391	5,000	41,265	73,699
2009 Average	20,402	2,579	3,796	587	2,646	2,067		9,495	1,328	5,353	41,785	72,307
2010 Average	21,257	^R 2,741	4,078	575	2,621	1,869		9,694	1,233	5,479	^R 42,585	^R 74,092
2011 January	22,026	^R 2,833	4,238	572	^R 2.636	1,905		9,769	1,316	^R 5,502	^R 42.978	^R 75.366
February	21.934	R 2,783	4,188	571	^R 2,606	1,861		9,773	1,085	^R 5,410	^R 42,500	^R 74,482
March	21,952	2,854	4,160	570	^R 2,624	1,808		9,753	1,073	^R 5,595	^R 42,687	^R 73,495
April	22,170	^R 2.854	4,127	569	R 2.624	1,874		9,795	1,164	^R 5.546	^R 42,505	^R 73.444
May	22,220	^R 2,562	4,106	568	R 2,608	1,607		9,818	1.017	^R 5,611	41.718	^R 72.685
June	22,920	R 2,670	4,017	567	R 2,595	1,660		9,770	1,018	^R 5,573	^R 41,769	^R 73,383
July	23,120	R 2,913	3,956	566	R 2,584	1,737		9,837	946	^R 5,420	^R 41,855	^R 73,715
August	23,270	R 3,073	4,027	565	R 2,601	1,714		9,832	767	^R 5,645	^R 42,274	^R 74,274
September	23,170	^R 2,993	3,964	564	R 2,537	1,636		9,557	890	^R 5,593	41,673	73,724
October	22,920	R 3,062	3,926	563	R 2,601	1,756		9,902	998	^R 5,874	^R 42,568	^R 74,285
November	23,220	R 3,043	4,006	562	R 2,577	1,764		9,595	1,039	^R 6,006	^R 42,681	^R 75,220
December	23,170	^R 3,155	3,998	561	R 2,604	1,713		9,869	1,010	^R 6,027	^R 43.004	^R 75,569
Average	22,678	^R 2,901	4,059	566	R 2,600	1,752		9,774	1,026	^R 5,652	^R 42,352	^R 74,136
2012 January	23,070	^R 3,104	4,089	560	^R 2,566	1,761		9,894	999	^{RE} 6,116	^R 42,948	^R 75,747
February	23,120	^R 3,245	4,109	560	^R 2,591	1,745		9,889	1,016	RE 6.227	R 42,867	^R 76,025
March	23,200	^R 3.044	4,066	560	^R 2,600	1,715		9,891	968	RE 6.280	^R 42.601	^R 75.775
April	23,180	^R 3,164	4,111	560	R 2,590	1,720		9,861	981	RE 6,269	R 42,628	^R 76,054
May	22,875	^R 3,033	4,105	560	^R 2,591	1,699		9,882	893	RE 6.314	R 42,408	^R 75,416
June	23,030	^R 3,003	4,015	556	^R 2,588	1,583		9,861	949	E 6,228	^R 42,071	^R 75,181
July	22,970	^R 3,112	4,013	554	^R 2,571	1,553		9,882	954	RE 6,357	^R 42,288	^R 75,297
August	22,970	^R 3.062	4,010	554	^R 2,600	1,555		9,902	742	^{RE} 6,276	42,200	75.284
September	22,870	R 3,002	4,120	553	^R 2,602	1,309		9,941	609	RE 6,539	^R 41,905	^R 74,816
October	22,030	^R 3.172	4,242	551	R 2,585	1,509		9.984	688	^{RE} 6,915	^R 42.949	^R 75.369
November	22,340	^R 3,272	4,217	551	^R 2,622	1,549		10,048	865	RE 7,012	R 43,538	^R 75,760
December	22,470	^R 3.423	4,232	551	R 2,607	1,517		10,048	916	^{RE} 7,064	^R 43,886	^R 75,700
Average	22,170 22,872	^R 3,136	4,224 4,129	556	^R 2,593	1,607		9,922	881	^{RE} 6,467	^R 42,680	^R 75,557
2013 January	22,120	3,333	4,168	548	2,622	1,545		9,900	910	^E 7,005	43,313	75,343

^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.

for all years. ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

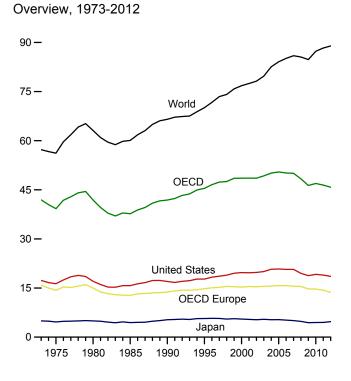
R=Revised. NA=Not available. --=Not applicable. E=Estimate.

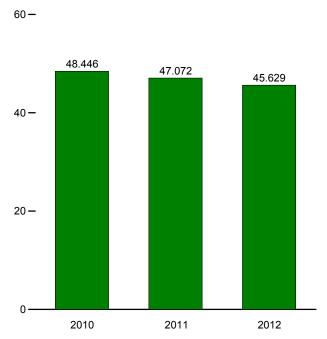
Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum 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/totalenergy/data/monthly/#international for all available data beginning in 1973.

Sources: See end of section.

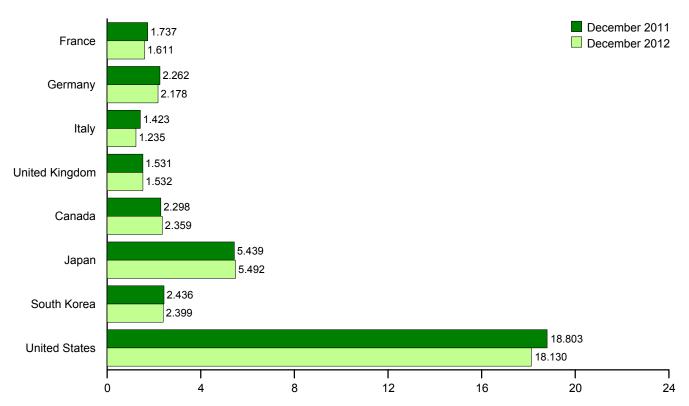
Figure 11.2 Petroleum Consumption in OECD Countries (Million Barrels per Day)





OECD Total, December

By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECDd	World
1072 Average	2.601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
1973 Average 1975 Average	2,001	2,957	1,855	1,911	14,314	1,779	4,545	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	12,772	1,514	4,300	552	15,726	2,699	37,699	60,083
1990 Average	1,826	2,682	1,868	1,776	13,762	1,722	5,315	1,048	16,988	3,040	41,875	66,533
1995 Average	1,920	2.882	1,942	1.816	14,762	1.799	5.693	2.008	17,725	3.452	45.439	70.099
1996 Average	1,949	2,922	1,920	1,852	15,055	1,853	5,739	2,101	18,309	3,509	46,566	71,714
1997 Average	1,969	2,917	1.934	1.810	15,195	1,940	5.702	2,255	18,620	3.629	47,342	73,464
1998 Average	2.043	2,923	1,943	1,792	15,500	1,931	5,507	1,917	18,917	3,757	47,529	74,117
1999 Average	2,043	2,836	1,891	1,811	15,409	2,016	5,642	2,084	19,519	3,844	48,514	75,833
2000 Average	2,000	2,767	1,854	1,765	15,276	2,010	5.515	2,004	19,701	3,902	48.543	76,788
2001 Average	2,000	2,807	1,832	1,747	15,447	2,014	5,412	2,133	19,649	3,892	48,575	77,481
	1.985	2,710	1,870	1,739	15,386	2,045	5,319	2,132	19,761	3,873	48,553	78,175
2002 Average	2.001	2,662	1,860	1,759	15,380	2,005	5,428	2,149	20,034	3,918	48,555	79,720
2003 Average 2004 Average	2,001	2,662	1,829	1,785	15,494	2,191	5,420 5,319	2,175	20,034 20,731	4,015	49,241 50,100	82,583
	1.991	2,621	1,781	1,820	15,716	2,202	5,328	2,133	20,731	4,013	50,445	84,089
2005 Average	1,991											
2006 Average		2,639	1,777	1,806	15,723	2,229	5,197	2,180	20,687	4,128	50,144	85,156
2007 Average	1,979	2,416	1,729	1,753	15,546	2,283	5,037	2,241	20,680	4,250	50,037	85,944
2008 Average	1,945	2,542	1,667	1,727	15,457 B 4 4 7 4 5	2,225	4,795	2,142	19,498	4,237	48,355 B 46 220	85,554 B 04 700
2009 Average	1,868	2,453	1,544	1,641	R 14,715	2,153	4,406	2,188	18,771	4,095	^R 46,328	^R 84,789
2010 Average	1,831	2,470	1,544	1,630	^R 14,676	2,258	^R 4,465	2,268	19,180	4,077	^R 46,923	^R 87,328
2011 January	1,773	2,230	1,352	1,600	^R 13,665	2,255	^R 4,853	2,429	18,993	3,821	^R 46,017	NA
February	1,916	2,433	1,554	1,652	^R 14,801	2,315	^R 5,060	2,349	18,873	4,261	^R 47,660	NA
March	1,789	2,393	1,445	1,635	^R 14,303	2,390	^R 4,553	2,295	19,329	4,270	^R 47,140	NA
April	1,747	2,258	1,461	1,621	^R 13,991	2,144	^R 4,110	2,011	18,650	4,079	^R 44,985	NA
May	1,734	2,403	1,425	1,555	^R 14,096	2,184	^R 3,790	2,022	18,479	4,092	^R 44,663	NA
June	1,786	2,270	1,510	1,687	14,441	2,340	^R 3,956	2,112	19,253	4,218	^R 46,321	NA
July	1,799	2,409	1,477	1,562	^R 14,436	2,321	^R 4,240	2,188	18,778	4,166	^R 46,129	NA
August	1,804	2,638	1,400	1,617	^R 14,761	2,456	^R 4,466	2,212	19,415	4,230	^R 47,540	NA
September	1,919	2,551	1,541	1,671	^R 15,054	2,302	^R 4,306	2,241	18,892	4,216	^R 47,010	NA
October	1,777	2,508	1,465	1,578	^R 14,437	2,190	^R 4,415	2,216	18,844	4,016	^R 46,118	NA
November	1,730	2,447	1,405	1,595	^R 14,227	2,276	^R 4,604	2,252	19,080	4,282	^R 46,721	NA
December	1,737	2,262	1,423	1,531	^R 13,778	2,298	^R 5,439	2,436	18,803	4,317	^R 47,072	NA
Average	1,792	2,400	1,454	1,608	^R 14,328	2,289	^R 4,480	2,230	18,949	4,163	^R 46,440	^R 88,290
2012 January	1.745	2,133	1,263	1,440	^R 12.964	2.167	5,161	2,366	18,280	4,112	^R 45.049	NA
February	1,950	2,483	1,306	1,565	^R 14,375	2,163	5,550	2,300	18,760	4,287	^R 47,544	NA
March	1,330	2,219	1,316	1,614	^R 13.610	2,103	5,156	2,410	18,213	4,342	^R 45.858	NA
April	1,686	2,231	1,293	1,600	^R 13,540	2,384	4,390	2,155	18,330	4,342	^R 44,790	NA
May	1,671	2,305	1,304	1,517	^R 13,565	2,255	4,367	2,033	18,707	4,133	^R 45,392	NA
June	1,780	2,305	1,304	1,526	^R 14,068	R 2,297	4,307	2,101	18,915	4,207	R 45,900	NA
July	1,780	2,400	1,380	1,520	^R 13.924	2,297	4,129	2,304	18,601	^R 4,188	^R 45,900	NA
	1,600	2,425	1,300	1,507	^R 13,609	2,300	4,372	2,196	19,226	4,194	^R 46,538	NA
August					^R 13,609	2,495 ^R 2,291					^R 44,913	NA
September	1,726	2,339	1,315	1,525			4,443	2,265	18,173	4,056		
October	1,807	2,510	1,357	1,422	R 14,076	^R 2,289	4,422	2,199	18,722	4,327	^R 46,037	NA
November	1,709	2,496	1,256	1,506	R 13,769	^R 2,442	4,641	2,423	18,604	4,340	^R 46,219	NA
December	1,611	2,178	1,235	1,532	12,960	2,359	5,492	2,399	18,130	4,288	45,629	NA
Average	1,738	2,338	1,310	1,519	13,674	2,327	4,729	2,268	18,555	4,235	45,788	88,938

^a Data are for unified Germany, i.e., the former East Germany and West

Germany. ^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; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovenia. ^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories;

for 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel. ^d The Organization for Economic Cooperation and Development (OECD)

consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

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.

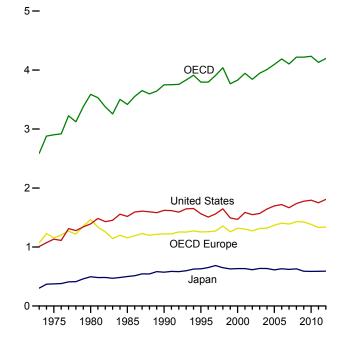
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for

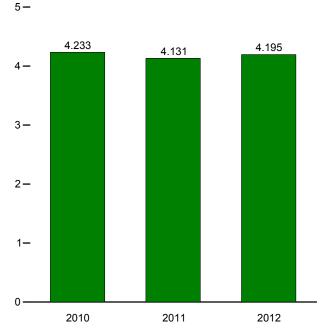
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973. Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy 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 forward—EIA, Short Term Energy Outlook, April 2013, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

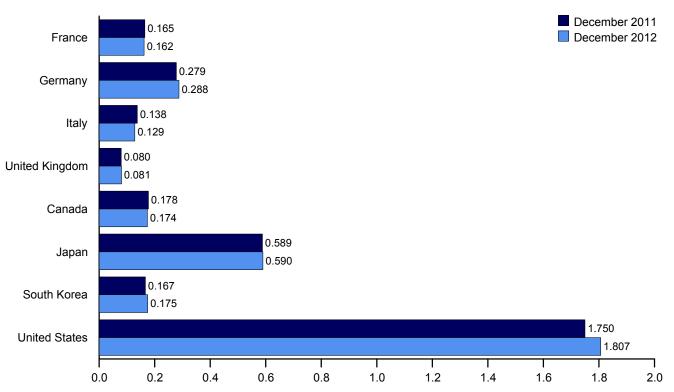
Overview, End of Year, 1973-2012

OECD Stocks, End of Month, December





By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. 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
				-							
973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
975 Year	225	187	143	165	1,154	174	375	NA	1,133	67	2,903
980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
985 Year	139	277	156	131	1,154	112	500	13	1,519	119	3,417
990 Year	143	280	171	103	1,222	143	572	64	1,621	126	3,74
995 Year	155	302	162	101	1,256	132	631	92	1,563	122	3,79
996 Year	154	303	152	103	1,259	127	651	123	1,507	127	3,794
997 Year	161	299	147	100	1,271	144	685	124	1,560	123	3,90
998 Year	169	323	153	104	1,355	139	649	129	1,647	120	4,03
999 Year	160	290	148	101	1,258	141	629	132	1,493	114	3,76
000 Year	170	272	157	100	1,318	143	634	140	1,468	126	3,82
01 Year	165	273	151	113	1,306	154	634	143	1,586	120	3,94
002 Year	170	253	156	104	1,273	155	615	140	1,548	112	3,843
003 Year	179	273	153	100	1,316	165	636	155	1,568	105	3,94
004 Year	177	267	154	101	1,319	154	635	149	1,645	108	4,01
005 Year	185	283	151	95	1,371	168	612	135	1,698	112	4,09
006 Year	182	283	153	103	1,404	169	631	152	1,720	113	4,18
007 Year	180	275	152	92	1,389	163	621	143	1,665	121	4,10
008 Year	179	279	148	93	1,431	162	630	135	1,737	124	4,218
009 Year	175	284	146	89	1,424	157	589	155	1,776	117	4,21
10 Year	168	287	^R 143	83	^R 1,384	184	^R 587	165	1,794	119	^R 4,23
11 January	173	291	^R 149	90	^R 1,424	174	596	168	1,809	117	^R 4,28
February	170	288	^R 140	89	^R 1,395	169	591	162	1,780	121	^R 4,21
March	167	286	^R 141	87	^R 1,383	172	^R 580	170	1,776	116	^R 4,19
April	163	291	^R 142	89	^R 1,372	179	601	173	1,779	123	^R 4,22
May	168	288	^R 139	85	^R 1,372	177	^R 598	170	1,807	122	^R 4,24
June	167	286	^R 141	79	^R 1,366	177	593	175	1,809	120	^R 4,24
July	164	290	^R 140	81	^R 1,356	177	599	173	1,816	122	^R 4,24
August	162	283	^R 142	83	^R 1,360	176	598	171	1,796	123	^R 4,22
September	160	277	^R 140	78	^R 1,339	176	601	174	1,781	119	^R 4,18
October	165	278	^R 140	79	^R 1,327	178	599	174	1,769	118	^R 4,16
November	164	277	^R 141	86	^R 1,344	179	603	170	1,770	116	^R 4,18
December	165	279	^R 138	80	^R 1,331	178	589	167	1,750	116	^R 4,13
12 January	166	284	^R 141	84	^R 1,359	178	594	164	1,772	119	^R 4,18
February	165	283	^R 141	84	^R 1,357	180	583	171	1,765	110	^R 4,16
March	165	281	^R 142	82	^R 1,368	175	580	164	1,778	113	^R 4,17
April	163	280	^R 140	85	^R 1,358	176	592	174	1,777	115	^R 4,19
May	162	281	^R 140	82	^R 1,341	172	597	183	1,794	117	R 4,20
June	164	280	^R 138	82	^R 1,343	171	601	177	1,808	112	^R 4,21
July	163	286	^R 135	80	^R 1,353	173	608	181	1,809	^R 116	^R 4,24
August	168	285	^R 142	82	^R 1,370	^R 177	603	179	1,801	^R 114	^R 4,24
September	164	284	^R 146	75	^R 1,352	^R 179	606	184	1,818	^R 116	^R 4,25
October	160	284	^R 144	75	^R 1,334	^R 175	614	180	1,810	^R 110	R 4,22
November	160	288	^R 141	85	^R 1,349	^R 174	604	177	1,809	^R 106	^R 4,21
December	162	288	129	81	1,341	174	590	175	1,807	107	4,19

^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.
 ^b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France,

^D "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; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovenia.

Slovenia. ^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories; for 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel. ^d The Organization for Economic Cooperation and Development (OECD)

^a The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

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/totalenergy/data/monthly/#international 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, March 13, 2013.

International Petroleum

Tables 11.1a and 11.1b Sources

United States Table 3.1.

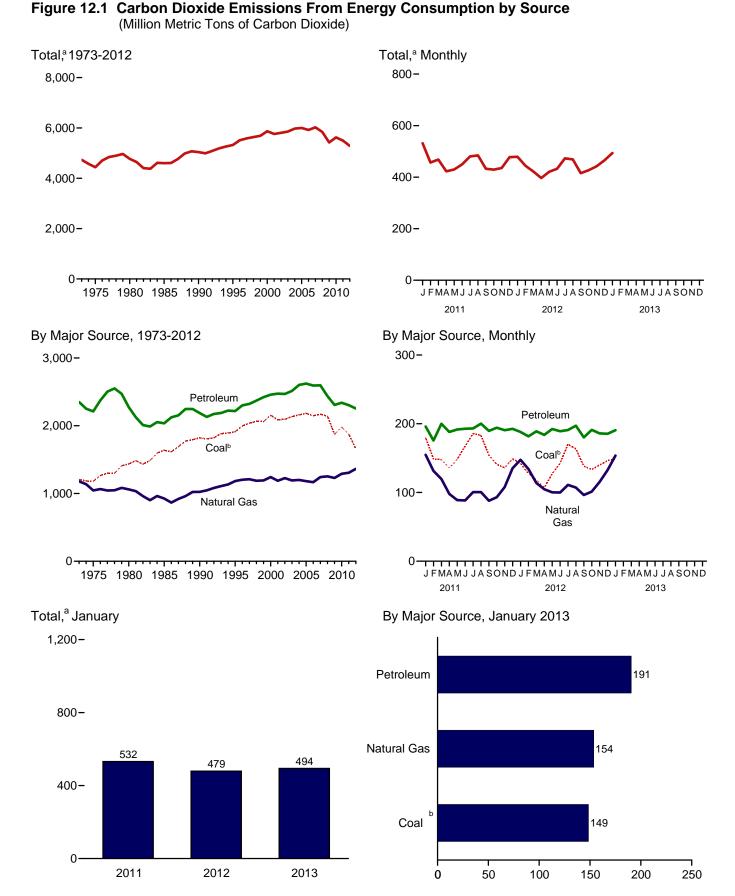
All Other Countries and World, Annual Data

1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, April 2013.

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 Energy Database, April 2013.

12. Environment



^a Excludes emissions from biomass energy consumption. ^b Includes coal coke net imports.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Source: Table 12.1.

Table 12.1 Carbon Dioxide Emissions From Energy Consumption by Source

(Million Metric Tons of Carbon	Dioxide ^a)
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								Petrole	um					
	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	Other ^g	Total	Total ^{h,i}
1973 Total	1,207	1,178	6	480	155	32	92	13	911	54	508	100	2,350	4,735
1975 Total	1,181	1,046	5	443	146	24	82	11	911	51	443	97	2,212	4,439
1980 Total	1,436	1,061	4	446	156	24	87	13	900	49	453	142	2,275	4,771
1985 Total	1,638	926	3	445	178	17	87	12	930	54	216	93	2,036	4,600
1990 Total	1,821	1,024	3	470	223	6	67	13	988	70	220	127	2,187	5,039
1995 Total	1,913	1,183	3	498	222	8	80	13	1,044	76	152	121	2,216	5,323
1996 Total	1,995	1,204	3	525	232	9	86	12	1,063	79	152	139	2,300	5,510
1997 Total	2,040	1,210	3	534	234	10	87	13	1,075	80	142	145	2,323	5,584
1998 Total	2,064	1,189	2	538	238	12	82	14	1,107	93	158	128	2,372	5,635
1999 Total	2,062	1,193	3	555	245	11	90	14	1,127	96	148	133	2.422	5,688
2000 Total	2,155	1,243	3	580	254	10	97	14	1,135	86	163	118	2,459	5,868
2001 Total	2,088	1,188	2	598	243	11	88	13	1,151	89	144	135	2,474	5,761
2002 Total	2,095	1,227	2	587	237	6	91	12	1,183	96	125	130	2,470	5,804
2003 Total	2,136	1,193	2	610	231	8	87	11	1,188	96	138	142	2.514	5.855
2004 Total	2,160	1,200	2	632	240	10	87	12	1,214	107	155	144	2,603	5,975
2005 Total	2,182	1,183	2	640	246	10	84	12	1,214	106	165	143	2.623	5,999
2006 Total	2,147	1,168	2	648	240	8	80	11	1,224	106	122	152	2,593	5,920
2007 Total	2,172	1,243	2	652	238	5	83	12	1.227	100	129	150	2,596	6.023
2008 Total	2,139	1,253	2	615	226	2	79	11	1,166	93	111	132	2,437	5.841
2009 Total	1,876	1,230	2	564	204	3	78	10	1,157	87	91	112	2,307	5,424
2010 Total	1,982	1,290	2	590	210	3	79	11	1,146	81	96	122	2,339	5,623
2011 January	180	155	(s)	52	17	(s)	10	1	91	7	9	10	196	532
February	149	131	(s)	47	15	Ì	8	1	84	5	8	8	176	457
March	148	120	(s)	53	17	(s)	8	1	95	6	7	11	200	468
April	136	98	(s)	48	18	(s)	6	1	92	6	7	10	188	^R 423
May	148	89	(s)	49	18	(s)	6	1	95	8	7	8	192	430
June	168	88	(s)	50	19	(s)	6	1	95	7	7	9	193	450
July	186	101	(s)	47	18	(s)	6	1	98	7	5	11	193	^R 481
August	183	101	(s)	53	19	(s)	7	1	96	8	5	10	200	485
September	154	88	(s)	50	17	(s)	6	1	92	6	7	10	190	R 433
October	141	93	(s)	53	17	(s)	7	1	93	7	6	10	194	429
November	136	108	(s)	52	17	(s)	8	1	89	7	6	11	191	435
December	149	135	(s)	51	17	(s)	9	1	94	4	8	10	193	478
Total	1,876	1,306	2	603	209	2	87	10	1,113	78	82	118	2,304	5,498
2012 January	^R 142	148	(s)	50	16	(s)	8	1	89	7	6	11	188	^R 479
February	128	134	(s)	49	16	(s)	8	1	87	5	6	10	182	^R 444
March	R 118	114	(s)	49	17	(s)	7	1	93	6	6	.0	189	422
April	^R 107	105	(s)	47	16	(s)	6	1	92	6	6	9	184	397
May	^R 127	100	(s)	49	18	(s)	7	1	97	7	4	9	192	421
June	143	100	(s)	47	19	(s)	6	1	94	7	5	10	189	433
July	^R 170	111	(s)	47	18	(s)	7	1	95	6	6	10	191	R 473
August	164	107	(s)	49	18	(s)	7	1	99	7	5	11	197	^R 469
September	^R 138	96	(s)	47	17	(s)	7	1	90	6	4	8	180	416
October	^R 134	101	(s)	50	17	(s)	8	1	94	6	4	11	191	^R 427
November	140	115	(s)	50	17	(s)	8	1	89	7	4	11	186	442
December	146	133	(s)	46	17	(s)	9	1	90	7	3	13	185	465
Total		1,364	2	579	206	1	88	9	1,110	76	61	122	2,254	R 5,288
2013 January	149	154	(s)	53	16	(s)	10	1	89	7	5	10	191	494

^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.
 ^c Natural gas, excluding supplemental gaseous fuels.
 ^d Distillate fuel oil, excluding biodiesel.
 ^e Lise field particular gaseous

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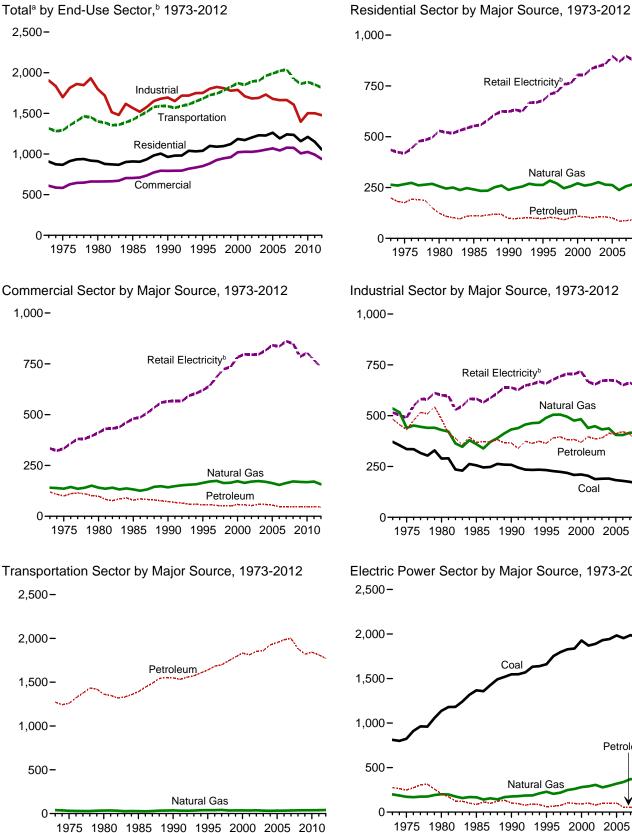
^e Liquefied petroleum gases.
 ^f Finished motor gasoline, excluding fuel ethanol.
 ^g Aviation gasoline blending components, crude oil, motor gasoline blending

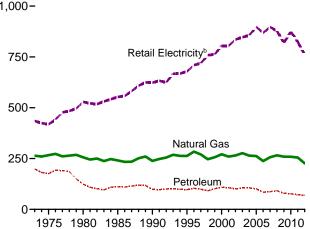
components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.
 ^h Includes electric power sector use of geothermal energy and non-biomass waste. See Table 12.6.
 ⁱ Excludes emissions from biomass energy consumption. See Table 12.7.

R=Revised. (s)=Less than 0.5 million metric tons. Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. 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," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 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 Pace: See http://www.eia.gov/totalenergv/data/monthly/#environment for

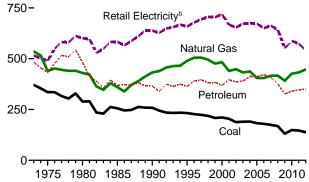
Web Page: See http://ww.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.



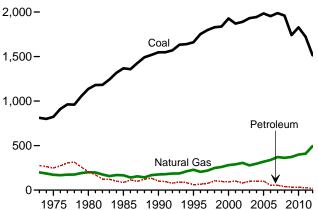




Industrial Sector by Major Source, 1973-2012



Electric Power Sector by Major Source, 1973-2012



^a Excludes emissions from biomass energy consumption.

^b 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/totalenergy/data/monthly/#environment. Sources: Tables 12.2-12.6.

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector (Million Metric Tons of Carbon Dioxidea)

				Petrole	Detail			
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Retail Elec- tricity ^e	Total ^f
973 Total	9	264	147	16	36	199	435	907
975 Total	ő	266	132	12	32	176	419	867
980 Total	3 3	256	96	8	20	124	529	911
985 Total	4	241	80	11	20	111	553	909
990 Total	3	238	72	5	20	98	624	963
990 Total	2	263	66	5	25	96	678	1.039
995 Total	2	203	68	5	25 30	104	710	1,039
996 Total 997 Total	2	204 270	64	67	29	99	710	1,099
	2 1	247				99 91		
998 Total	1		56	8 8	27		759	1,097
999 Total	1	257	61	87	33	102	762	1,122
2000 Total		271	66		35	108	805	1,185
2001 Total	1	259	66	7	33	106	805	1,172
2002 Total	1	265	63	4	34	101	835	1,203
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	_ 1,241
2008 Total	^R NA	266	55	2	35	92	878	^R 1,235
2009 Total	^R NA	259	43	2	35	79	819	R 1,157
2010 Total	^R NA	259	41	2	33	77	875	^R 1,210
011 January	^R NA	52	5	(s)	R 3	8	87	^R 147
February	^R NA	42	4	(s)	3	8	67	116
March	^R NA	33	3	(s)	3	R 6	59	98
April	^R NA	19	2	(s)	R 2	5	53	76
May	^R NA	11	2	(s)	R 2	4	57	73
June	^R NA	7	2 2	(s)	R 2	5	75	87
July	RNA	6	2	(s)	R 2	5	95	106
August	RNA	õ	3	(s)	3	R 5	92	R 103
September	R NA	7	3	(s)	R 2	R 5	68	R 80
October	R NA	12	3	(S)	3	6	53	72
Nevember	^R NA	23	4		3	7	53	R 82
November	^R NA	37	5	(s) (s)	3	R 8	66	112
December Total	R NA	255	38	(5)	R 32	R 72	R 824	R 1,150
l otal	^I NA	200	38	1	N 32	×72	824	~1,150
012 January	RNA	43	5	(s)	3	8	^R 68	120
February	^R NA	36	4	(s)	3	7	58	101
March	^R NA	22	4	(s)	3	6	51	79
April	^R NA	15	3	(s)	R 2	5	R 44	65
May	^R NA	9	3	(s)	3	5	55	^R 69
June	^R NA	7	3	(s)	^R 2	5	69	81
July	^R NA	6	3 2 3 2 2 3	(s)	3	5	R 92	^R 103
August	RNA	õ	3	(s)	3	6	85	^R 96
September	^R NA	õ	2	(s)	3	5	65	R 76
October	^R NA	13	2	(s)	3	5	54	72
November	RNA	26	3	(s)	3	ő	R 56	R 88
December	R NA	36	3	(s)	3	R 6	65	R 107
Total	R NA	226	37	(s) (s)	R 32	^R 69	R 760	R 1,056
	INA		-	(3)				
013 January	NA	48	4	(s)	3	7	72	127

^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.
 ^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.
 ^e Excludes emissions from biomass energy consumption. See Table 12.7.

¹ Excludes emissions from biomass energy consumption. See Table 12.7. R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. 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," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 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/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

Beginning in 2008, the data that were included under "Coal" on this table are now included under "Coal" on Table 12.3.

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector (Million Metric Tons of Carbon Dioxidea)

						Petroleum				Potoil	
	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 ^g
1973 Total	15	141	47	5	9	6	NA	52	120	334	609
1975 Total	14	136	43	4	8	ő	NA	39	100	333	583
1980 Total	11	141	38	3	Ğ	8	NA	44	98	412	662
1985 Total	13	132	46	ž	Ğ	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	170	32	1	9	3	(s)	6	52	795	1,026
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	1,078
2008 Total	7	171	28	(s)	10	3	(s)	6	47	850	1,075
2009 Total	R 7	169	29	(s)	9	4	(s)	6	47	785	^R 1,008
2010 Total	6	168	29	(s)	9	4	(s)	5	46	805	1,025
2011 January	1	29	4	(s)	1	(s)	(s)	1	5	65	99
February	1	23	3	(s)	1	(s)	(s)	(s)	5	55	85
March	1	20	3	(s)	1	(s)	(s)	(s)	4	58	83
April	(s)	13	2	(s)	1	(s)	0	(s)	3	57	73
May	(s)	9	1	(s)	1	(s)	0	(s)	2	63	75
June	(s)	7	2	(s)	1	(s)	0	(s)	3	70	81
July	(s)	7	2	(s)	1	(s)	0	(s)	3	79	89
August	(s)	7	2	(s)	1	(s)	0	(s)	4	77	89
September	(s)	8	2	(s)	1	(s)	0	(s)	4	66	77
October	(s)	11	3	(s)	1	(s)	0	(s)	4	61	77
November	(s)	15	3	(s)	1	(s)	(s)	(s)	4	57	77
December	(s) ^R 6	21	4	(s)	1	(s)	(s)	1	6	60	87
Total	^R 6	171	31	(s)	9	3	(s)	4	47	769	992
2012 January	^R 1	24	4	(s)	1	(s)	(s)	(s)	6	57	87
February	(s)	21	3	(s)	1	(s)	(s)	(s)	5	53	^R 79
March	(s)	14	3	(s)	1	(s)	(s)	(s)	4	52	71
April	(s)	11	2	(s)	1	(s)	(s)	(s)	3	51	66
May	(s)	8	2	(s)	1	(s)	0	(s)	3	^R 60	72
June	(s)	7	2	(s)	1	(s)	0	(s)	3	66	77
July	(s)	7	2	(s)	1	(s)	(s)	(s)	3	^R 76	87
August	(s)	7	2	(s)	1	(s)	(s)	(s)	4	^R 73	85
September	(s)	8	2	(s)	1	(s)	(s)	(s)	3	64	75
October	(s)	11	2	(s)	1	(s)	(s)	(s)	3	_ 61	76
November	R (s)	17	2	(s)	1	(s)	(s)	(s)	4	^R 59	_ 80
December	^R (s) ^R 4	21	3	(s)	1	(s)	(s)	(s)	4	59	_ ^R 84
Total	^{'R'} 4	157	29	(s)	9	3	(s)	` 3	45	^R 732	^R 938
2013 January	1	26	3	(s)	1	(s)	(s)	(s)	5	59	90

^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.
 ^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 Excludes emissions from biomass energy consumption. See Table 12.7.

9 Excludes emissions from biomass energy consumption. See Table 12.7. R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. 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," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 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/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector (Million Metric Tons of Carbon Dioxide^a)

		Coal Coke						Petroleun	n				Retail	Total ^h
	Coal	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	Elec- tricity ^g	
1973 Total	371	-1	536	106	11	44	7	18	52	144	100	483	515	1.904
1975 Total	336	2	440	97	9	39	6	16	51	117	97	431	490	1,697
1980 Total	289	-4	429	96	13	61	7	11	48	105	142	483	601	1,798
1985 Total	256	-2	360	81	3	59	6	15	54	57	93	369	583	1,566
1990 Total	258	1	432	84	1	37	7	13	67	31	127	366	638	1,695
1995 Total	233	ż	489	82	1	47	. 7	14	67	25	121	364	659	1.751
1996 Total	227	3	505	87	1	48	6	14	71	24	139	391	678	1.803
1997 Total	224	5	505	88	1	50	7	15	70	21	145	396	694	1.824
1998 Total	219	8	495	88	2	47	7	14	80	16	128	382	706	1.80
1999 Total	208	7	475	86	1	47	7	11	85	14	133	383	704	1.778
2000 Total	211	7	483	87	1	52	7	11	76	17	118	369	719	1.78
2001 Total	204	3	440	95	2	45	6	21	79	14	135	396	667	1,711
2002 Total	188	7	448	88	1	47	Ğ	22	79	13	130	386	654	1,683
2003 Total	190	6	432	83	2	42	Ğ	23	78	16	142	390	672	1,690
2004 Total	191	16	437	88	2	44	Ğ	26	84	18	144	413	675	1,731
2005 Total	183	5	405	92	3	42	Ğ	25	81	20	143	412	673	1.678
2006 Total	179	7	405	92	2	43	6	26	84	16	152	421	650	1.662
2007 Total	175	3	416	92	1	43	6	21	82	13	150	409	662	1.665
2008 Total	168	5	417	99	(s)	32	6	17	77	13	132	376	642	1.607
2009 Total	131	-3	391	78	(s)	33	5	16	72	9	112	326	551	1.396
2010 Total	149	-1	426	84	1	35	6	18	67	8	122	340	587	1,502
2011 January	13	(s)	40	9	(s)	5	(s)	1	5	1	10	^R 33	48	133
February	12	(s)	36	7	(s)	4	(s)	1	4	1	8	^R 26	42	117
March	13	(s)	38	10	(s)	4	1	1	5	1	11	33	46	130
April	12	(s)	35	7	(s)	3	(s)	1	5	1	10	28	45	120
May	12	(s)	35	7	(s)	3	(s)	1	7	1	8	^R 28	48	123
June	12	(s)	33	7	(s)	3	(s)	1	5	1	9	27	50	R 123
July	12	(s)	34	5	(s)	3	(s)	2	5	1	11	26	54	125
August	12	(s)	35	7	(s)	3	(s)	^R 2	7	1	10	^R 31	53	131
September	12	(s)	34	7	(s)	3	(s)	1	5	1	10	28	47	122
October	12	(s)	36	8	(s)	R 4	(s)	1	6	1	10	30	47	125
November	12	(s)	37	9	(s)	4	(s)	1	6	1	11	32	46	126
December	13	(s)	40	6	(s)	^R 5	(s)	1	3	1	10	^R 27	45	124
Total	147	1	432	90	(s)	R 44	5	17	63	9	118	^R 347	574	^R 1,501
2012 January	12	(s)	41	8	(s)	4	(s)	1	5	1	11	_ 31	43	126
February	12	(s)	38	10	(s)	_ 4	(s)	1	4	1	10	R 31	42	122
March	12	(s)	37	8	(s)	^R 4	(s)	1	5	1	9	^R 29	41	_ 120
April	11	1	36	7	(s)	_ 3	(s)	1	5	1	9	27	41	^R 116
May	11	(s)	36	7	(s)	R 4	(s)	2	6	1	9	29	46	122
June	11	(s)	35	6	(s)	3	(s)	1	6	1	10	27	47	120
July	_ 11	(s)	36	5	(s)	_ 3	(s)	1	5	1	10	26	52	125
August	^R 12	(s)	36	6	(s)	R 4	(s)	2	7	1	11	29	_ 50	127
September	_ 11	(s)	36	7	(s)	^R 4	(s)	1	6	(s)	8	26	R 44	117
October	R 11	(s)	37	9	(s)	4	(s)	1	5	(s)	11	31	46	_ 126
November	R 12	(s)	38	9	(s)	_4	(s)	1	6	(s)	11	_ 32	46	R 127
December	_ ^R 12	(s)	40	6	(s)	R 5	(s)	1	6	(s)	13	R 32	44	_ ^R 128
Total	^R 138	(s)	447	87	(s)	^R 45	5	17	67	7	122	^R 350	^R 543	^R 1,478
2013 January	10	(s)	42	12	(s)	5	(s)	1	6	1	10	35	43	130

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

Natural gas, excluding supplemental gaseous fuels. Distillate fuel oil, excluding biodiesel.

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^c Distillate fuer on, excluding broass.
 ^d Liquefied petroleum gases.
 ^e Finished motor gasoline, excluding fuel ethanol.
 ^f Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas,

components, pentanes plus, perochemical redistocks, special naphrinas, still gas, unfinished oils, waxes, and miscellaneous petroleum products. ⁹ 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. ^h Excludes emissions from biomass energy consumption. See Table 12.7.

R=Revised. (s)=Less than 0.5 million metric tons and greater than -0.5 million metric tons.

metric tons.
Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. 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," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 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.

and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973.

Sources: See end of section.

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector (Million Metric Tons of Carbon Dioxidea)

				Petroleum								
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1997 Total 1998 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2001 Total	()))))))))))))))))))))))))))))))))))))	39 32 34 28 36 39 31 35 36 35 37 33 33 33 33 33 35 37 38 38	6543333232222222222222222	163 155 204 288 307 327 342 352 366 378 387 394 414 434 444 449 472 427 408 429	152 145 155 178 223 232 234 234 238 254 245 254 243 240 240 238 246 240 238 226 204 210	3 3 1 2 1 1 1 1 1 1 1 1 1 1 1 2 2 1 3 2 2	6666766677766666656555	886 889 808 907 1,029 1,047 1,057 1,105 1,121 1,121 1,121 1,125 1,161 1,165 1,161 1,185 1,185 1,186 1,194 1,194 1,137 1,125	57 56 110 62 80 72 67 53 52 53 52 54 53 52 58 66 71 78 73 62 70	1,273 1,258 1,363 1,548 1,639 1,548 1,639 1,743 1,789 1,833 1,813 1,851 1,851 1,926 1,953 1,984 1,953 1,984 1,882 1,820 1,843	2 2 2 3 3 3 3 3 3 3 4 4 4 5 5 5 5 5 5 5 5 5	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,872 1,872 1,852 1,899 1,962 1,991 2,022 2,040 1,924 1,863 1,886
2011 January February March June July September October Docember December Total	((((((((((((()))))))))))))))))))))))))	5 4 3 3 3 3 3 3 3 3 3 4 39	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	34 31 37 36 38 38 40 37 38 36 35 439	17 15 17 18 19 18 19 17 17 17 17 209	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	89 82 93 91 93 93 96 94 90 92 87 92 87 92 1,093	6 6 5 5 5 5 3 4 6 5 5 6 <mark>6</mark> 1	147 135 154 150 156 156 157 158 150 152 146 8 150	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	152 139 158 154 159 160 162 153 156 150 155 1,855
2012 January February April May June July August September October November December Total	((((((((((((()))))))))))))))))))))))))	4 3 3 3 3 3 3 3 3 3 3 4 4 4	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	32 34 35 37 36 37 38 35 37 35 34 422	16 16 17 18 19 18 18 17 17 17 206	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	87 86 92 90 95 93 94 97 88 92 88 88 89 1,089	5 4 5 5 3 4 5 4 3 3 3 2 4 5 4 3 3 2 4 5 5 5 4 5 4 5 5 4 5 5 5 4 5 5 5 5 4 5 5 5 5 8 4 5 5 5 5	141 138 149 147 154 154 157 144 150 143 143 142 1,771	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	146 142 152 151 157 155 158 161 147 153 147 146 1,816
2013 January	(^h)	5	(s)	34	16	(s)	(s)	87	4	142	(s)	147

^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.
 ^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 Excludes emissions from biomass energy consumption. See Table 12.7.

⁹ Excludes emissions from biomass energy consumption. See Table 12.7.
 ^h Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

R=Revised. (s)=Less than 0.5 million metric tons. Notes: Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. 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," at end of section. Data exclude emissions from biomass energy consumption. See Table 12.7 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/totalenergv/data/monthlv/#environment for

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

Table 12.6 Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector (Million Metric Tons of Carbon Dioxidea)

973 Total	Coal	Natural	Distillate					Non-	
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Biomass Waste ^d	Total ^e
	812	199	20	2	254	276	NA	NA	1.286
975 Total	824	172	17		234	248	NA	NA	1,200
			12	(s)					
980 Total	1,137	200		1	194	207	NA	NA	1,544
985 Total	1,367	166	6	1	79	86	NA	NA	1,619
990 Total	1,548	176	7	3	92	102	(s)	6	1,831
995 Total	1,661	228	8	8	45	61	(s)	10	1,960
996 Total	1,752	205	8	8	50	66	(s)	10	2,033
997 Total	1,797	219	8	10	56	75	(s)	10	2.101
998 Total	1.828	248	10	13	82	105	ŝ	10	2,192
999 Total	1,836	260	10	11	76	97		10	2.204
000 Total	1,927	281	13	10	69	91		10	
000 Total									2,310
001 Total	1,870	290	12	11	79	102	(S)	11	2,273
002 Total	1,890	306	9	18	52	79	(s)	13	2,288
003 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
006 Total	1,954	338	5	22	28	56	(s)	12	2.359
007 Total	1.987	372	7	17	31	55	25	11	2.426
008 Total	1.959	362	5	16	19	40	(s)	12	2.374
	1,939	373	5	14	14	34	(-/	11	2,374
009 Total 010 Total	1,828	399	6	14	14	34 33	(s) (s)	11	2,159
011 January	166	29	1	2	1	3	(s)	1	200
	136	26	1	1	4	2	(s)	4	165
February			(s)	•	1				
March	134	26	(s)	2	1	3	(s)	1	163
April	124	28	(s)	1	1	2	(S)	1	155
May	135	31	(s)	1	1	2	(s)	1	169
June	155	38	(s)	1	1	2	(s)	1	196
July	174	51	(s)	2	1	3	(s)	1	228
August	170	50	(s)	1	1	2	ŝ	1	223
September	141	37	(s)	1	(s)	2	(s)	1	R 182
September						2	(-)		
October	128	31	(s)	1	(s)	2	(s)	1	162
November	124	29	(s)	1	(s)	2	(s)	1	155
December	136	33	(s)	1	(s)	2	(s)	1	172
Total	1,723	409	5	15	7	27	(s)	11	^R 2,171
012 January	^R 130	35	(s)	1	1	2	(s)	1	^R 168
February	^R 115	35	(s)	1	(s)	2	(s)	1	153
March	^R 105	37	(s)	1	(s)	1	(s)	1	R 144
April	R 95	39	(S)	(s)	(s)	1	(s)	1	R 136
	R 115	44	(S)	(3)		1		1	R 162
May	^R 131	44 48		1	(5)	2	101	4	R 182
June			(s)	1	1		(s)	1	
July	^R 159	59	(s)	1	1	2	(s)	1	R 221
August	^R 152	54	(s)	1	1	2	(s)	1	R 209
September	^R 127	44	(s)	1	(s)	2	(s)	1	^R 173
October	^R 122	36	(s)	1	(s)	1	(s)	1	^R 161
November	R 128	31	(s)	1	(s)	1	(s)	1	R 162
December	^R 134	32	(s)	1	(s)	1	(s)	1	R 168
Total	^R 1,514	494	4	9	6	19	(s)	11	R 2,039
013 January	138	34	(s)	1	1	2	(s)	1	175

^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.
 ^c Distillate fuel oil, excluding biodiesel.
 ^d Municipal solid waste from non-biogenic sources, and tire-derived fuels.
 ^e Excludes emissions from biomass energy consumption. See Table 12.7.
 R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons. Notes:
 Data are estimates for carbon dioxide emissions from energy consumption. 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," at end of section.
 Data exclude emissions from biomass energy consumption. See Table 12.7 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/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

			By Source			By Sector						
	Wood ^b	Biomass Waste ^c	Fuel Ethanol ^d	Bio- diesel	Total	Resi- dential	Com- mercial ^e	Indus- trial ^f	Trans- portation	Electric Power ^g	Total	
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1906 Total	143 140 232 252 208 222	(s) (s) 14 24 30	NA NA NA 3 4 8	NA NA NA NA NA	143 141 232 270 237 260	33 40 80 95 54 49	1 1 2 8 9	109 100 150 168 147 166	NA NA NA 3 4 8	(s) (s) (s) 1 23 28	143 141 232 270 237 260	
1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total	229 222 205 208 212 188	30 32 30 30 29 27 33	6 7 8 9 10	NA NA NA NA NA (s)	266 259 242 245 248 231	49 51 40 36 37 39 35	9 10 10 9 9 9 9 9	170 172 160 161 161 147	6 7 8 9 10	28 30 30 30 30 29 31	266 259 242 245 248 231	
2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2007 Total 2008 Total 2008 Total	187 188 199 200 197 194 191	36 36 35 37 36 37 40	12 16 20 23 31 39 55	(s) (s) (s) 1 2 3 3	235 240 255 261 266 274 289	36 38 38 40 36 38 42	9 9 10 10 9 9 10	144 141 151 150 151 146 140	12 16 20 23 33 41 57	35 37 36 37 38 39 40	235 240 255 261 266 274 289 284	
2009 Total 2010 Total	177 186	41 43	62 73	3 2	284 304	40 39	10 10	128 139	64 74	41 42	284 304	
2011 January February March April May June July August September October November December Total	17 15 16 15 16 16 16 16 16 17 189 16	4 3 4 3 4 4 4 3 4 4 4 4 3 4 4 4 3 4 4 4 3 4 4 4 3 4 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6 6 6 6 6 6 6 6 6 6 6 7 6 6 6 7 3 6	(s) (s) (s) 1 1 1 1 1 1 8 (s)	26 24 25 25 26 27 27 26 26 28 313 26	3 3 3 3 3 3 3 3 3 3 3 3 3 3 40 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 11 12 11 12 12 12 12 12 12 13 142 12	6 6 7 7 7 7 7 7 80 6	3 3 3 3 3 4 4 3 3 4 4 0 3	26 24 25 25 26 27 27 26 26 26 28 313 26	
February March April May June July August September October November December Total	15 15 16 15 16 15 15 15 16 186	3 4 3 4 4 3 4 4 3 4 4 4 4 3	6 6 6 6 7 6 6 6 7 3	() 1 1 1 1 1 1 1 1 (s) 8	25 26 25 27 26 27 25 26 26 26 26 310	33333333333333333333333333333333333333	1 1 1 1 1 1 1 1 1 1 11	11 11 12 12 11 12 12 11 12 12 12 12 140	6 7 7 7 7 7 6 7 6 80	3 3 3 3 4 3 3 3 3 4 39	25 26 27 27 26 27 25 26 26 26 26 310	
2013 January	16	4	6	1	26	3	1	12	6	3	26	

(Million Metric Tons of Carbon Dioxidea)

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 ^b Wood and wood-derived fuels.
 ^c Municipal solid waste from biogenic sources, landfill gas, sludge waste,

Multicipal solid waste from bigenic sources, fanding gas, studge waste, agricultural byproducts, and other biomass.
 ^d Fuel ethanol minus denaturant.
 ^e Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
 ^f Industrial sector, including industrial combined-heat-and-power (CHP) and industrial sector.

⁹ 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.

NA=Not available. (s)=Less than 0.5 million metric tons. Notes: • Carbon dioxide emissions from biomass energy consumption are excluded from the energy-related carbon dioxide emissions reported in Tables 12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. See Note 1, "Energiance of Carbon Dioxide and Otac Creatives Conces" at See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," 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/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

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. CO_2 emissions. The vast majority of CO_2 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 nonbiomass waste. Other sources of CO_2 emissions include industrial processes, such as cement and limestone production. Data in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review (MER)* Tables 12.1–12.6 are estimates for U.S. CO_2 emissions from energy consumption, including the nonfuel use of fossil fuels (excluded are estimates for CO_2 emissions from biomass energy consumption, which appear in Table 12.7).

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/environment/emissions/ghg_report/.

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 MER Tables 12.1-12.6, but appear in Table 12.7. 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 CO_2 emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO_2 emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO_2 emissions from biomass combustion alongside other energy-related CO_2 emissions offers an alternative accounting treatment. It is important, however, to avoid misinterpreting emissions from fossil energy and biomass energy sources as necessarily additive. Instead, the combined total of direct CO_2 emissions from biomass and energy-related CO_2 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.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1–12.7, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine 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).

Biomass—Sectoral consumption data in trillion Btu for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are from MER Tables 10.2a–10.2c.

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 fossilbased petroleum denaturant, to make the fuel ethanol For 1993-2008, petroleum denaturant is undrinkable. 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 2008*" 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 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_09_v2.xls. Beginning in 2010, the 2009 factors are used.

Coal— CO_2 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.

Natural Gas— CO_2 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— CO_2 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 CO_2 emissions data for geothermal and non-biomass waste are EIA estimates based on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). 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.)

Biomass— CO_2 emissions for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are calculated for each sector. Total emissions for each biomass fuel are the sum of the sectoral emissions. The following factors, in million metric tons CO_2 per quadrillion Btu, are used: wood —93.80; biomass waste—90.70; fuel ethanol—68.44; and biodiesel—73.84. For 1973–1988, the biomass portion of waste in MER Tables 10.2a–10.2c is estimated as 67 percent; for 1989–2000, the biomass portion of waste is estimated as 67 percent in 1989 to 58 percent in 2000, based on the biogenic shares of total municipal solid waste shown in EIA's "Methodolology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy," Table 1 at http://www.eia.gov/cneaf/solar.renewables/page/mswaste/msw.pdf.

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Appendix A

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 butanepropane 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 Gasoline ^d		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.

^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.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

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
950	5.800	4.522	5.943	6.263	6.080	5.800	5.751	5.766
955	5.800	4.406	5.924	6.234	6.040	5.800	5.765	5.768
960	5.800	4.295	5.911	6.161	6.021	5.800	5.835	5.834
965	5.800	4.264	5.872	6.123	5.997	5.800	5.742	5.743
970	5.800	4.204	5.822	6.088	5.985	5.800	5.811	5.810
	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748
975								
	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820
81	5.800	3.930	5.818	5.659	5.775	5.800	5.837	5.821
982	5.800	3.872	5.826	5.664	5.775	5.800	5.829	5.820
983	5.800	3.839	5.825	5.677	5.774	5.800	5.800	5.800
984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850
985	5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814
86	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840
	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857
90	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
91	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823
992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777
993	5.800	3.801	5.954	5.620	5.883	5.800	5.777	5.779
94	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779
95	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746
96	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736
97	5.800	3.762	5.954	5.469	5.862	5.800	5.726	5.734
98	5.800	3.769	5.953	5.462	5.861	5.800	5.710	5.720
999	5.800	3.744	5.942	5.421	5.840	5.800	5.684	5.699
000	5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658
01	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752
02	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688
03	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740
04	5.800	3.724	5.981	5.475	5.863	5.800	5.753	5.754
005	5.800	3.724	5.977	5.474	5.845	5.800	5.741	5.743
06	5.800	3.712	5.980	5.454	5.842	5.800	5.723	5.724
07	5.800	3.701	5.985	5.503	5.862	5.800	5.749	5.750
08	5.800	3.706	5.990	5.479	5.866	5.800	5.762	5.762
09	5.800	3.692	5.988	5.525	5.882	5.800	5.737	5.738
010	5.800	3.674	5.989	5.557	5.894	5.800	5.670	5.672
)11	5.800	3.672	6.008	5.507	5.896	5.800	5.596	5.599
)12 ^P	5.800	3.684	6.021	5.485	5.995	5.800	5.584	5.588
)13 ^E								
JIS	5.800	3.684	6.021	5.485	5.915	5.800	5.584	5.588

 ^a Includes lease condensate.
 P=Preliminary. E=Estimate.
 Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.
 Web Pages: • See http://www.eia.gov/totalenergy/data/annual/#appendices for all data from 1949–1972. • See http://www.eia.gov/totalenergy/data/monthly/#appendices for all data beginning in 1973. Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Consumption and Biofuels Production (Million Btu per Barrel)

		Total Pe	etroleum ^a C	onsumption b	y Sector		Liquefied Petroleum	Motor		Fuel Ethanol		Biodiesel
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Gases Con- sumption ^f	Gasoline Con- sumption ^g	Fuel Ethanol ^h	Feed- stock Factor ⁱ	Biodiesel	Feed- stock Factor
1950	5.473	5.817	5.953	5.461	6.254	5.649	4.011	5.253	NA	NA	NA	NA
1955		5.781	5.881	5.407	6.254	5.591	4.011	5.253	NA	NA	NA	NA
1960		5.781	5.818	5.387	6.267	5.555	4.011	5.253	NA	NA	NA	NA
1965		5.760	5.748	5.386	6.267	5.532	4.011	5.253	NA	NA	NA	NA
1970		5.708	5.595	5.393	6.252	5.503	^f 3.779	5.253	NA	NA	NA	NA
1975		5.649	5.513	5.392	6.250	5.494	3.715	5.253	NA	NA	NA	NA
1980		5.751	5.366	5.441	6.254	5.479	3.674	5.253	3.563	6.586	NA	NA
1981		5.693	5.299	5.433	6.258	5.448	3.643	5.253	3.563	6.562	NA	NA
1982		5.698	5.247	5.423	6.258	5.415	3.615	5.253	3.563	6.539	NA	NA
1983		5.591	5.254	5.416	6.255	5.406	3.614	5.253	3.563	6.515	NA	NA
1984		5.657	5.207	5.418	6.251	5.395	3.599	5.253	3.563	6.492	NA	NA
1985		5.598	5.199	5.423	6.247	5.387	3.603	5.253	3.563	6.469	NA	NA
1986		5.632	5.269	5.426	6.257	5.418	3.640	5.253	3.563	6.446	NA	NA
1987		5.594	5.233	5.429	6.249	5.403	3.659	5.253	3.563	6.423	NA	NA
1988		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		5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA	NA
1990	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
1992	5.124	^b 5.505	^b 5.178	^b 5.436	6.230	^b 5.379	3.606	5.253	3.563	6.287	NA	NA
1993		5.515	5.178	5.424	6.213	5.361	3.635	⁹ 5.233	3.563	6.267	NA	NA
1994		5.478	5.121	5.417	6.188	5.341	3.623	5.230	3.563	6.242	NA	NA
1995									3.563	6.220		
		5.433	5.114	5.420	6.195	5.336	3.613	5.216			NA	NA
1997		5.391	5.120	5.416	6.199	5.336	3.616	5.213	3.563	6.198	NA	NA
1998 1999		5.365	5.137 5.092	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA	NA
		5.291		5.413	6.205	5.328	3.616	5.211	3.563	6.167	NA	NA
2000		5.316	5.057	5.422	6.189	5.326	3.607	5.210	3.563	6.159	NA	NA 5 400
2001		5.325	5.142	5.412	6.199	5.345	3.614	5.210	3.563	6.151	5.359	5.433
2002		5.293	5.093	5.411	6.173	5.324	3.613	5.208	3.563	6.143	5.359	5.433
2003		5.307	5.142	5.409	6.182	5.340	3.629	5.207	3.563	6.116	5.359	5.433
2004		5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	5.433
2005		5.364	5.178	5.427	6.188	5.365	3.620	5.218	3.563	6.063	5.359	5.433
2006		5.310	5.160	5.431	6.143	5.353	3.605	5.218	3.563	6.036	5.359	5.433
2007		5.298	5.127	5.434	6.151	5.346	3.591	5.219	3.563	6.009	5.359	5.433
2008		5.186	5.154	5.424	6.123	5.339	3.600	5.218	3.563	5.983	5.359	5.433
2009		5.250	5.019	^c 5.414	6.105	^c 5.301	3.558	5.218	3.563	5.957	5.359	5.433
2010	4.679	5.228	4.985	5.423	6.084	5.297	3.557	5.218	3.561	5.931	5.359	5.433
2011		5.219	^R 4.949	5.425	6.058	5.286	3.541	5.218	3.560	5.905	5.359	5.433
2012	^{RE} 4.630	^E 5.185	RE 4.933	^E 5.416	P 6.064	P 5.272	P 3.539	P 5.219	P 3.560	5.880	5.359	5.433
2013	^{RE} 4.630	^E 5.185	^{RE} 4.933	^E 5.416	^E 6.064	^E 5.272	E 3.539	^E 5.219	^E 3.560	5.880	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.

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

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

^f Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids. ^f There is a discontinuity in this time series between 1966 and 1967; beginning in 1967, the single constant factor is replaced by a quantity-weighted

factor-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 A1. ^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. 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.

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 Biu 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.

R=Revised. 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 Pages: • See http://www.eia.gov/totalenergy/data/annual/#appendices for all data from 1949–1972. • See http://www.eia.gov/totalenergy/data/monthly/#appendices for all data beginning in 1973.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
950	1,119	1,035	1,035	1,035	1,035		1,035
955	1,120	1,035	1,035	1,035	1,035	1,035	1,000
960	1,107	1,035	1,035	1,035	1,035	1,035	1,035
965	1,101	1,032	1,032	1,032	1,032	1,032	1,032
70	1,102	1,031	1,031	1,031	1,031	1,031	1,031
75	1,095	1,021	1,020	1,026	1,021	1,026	1,014
80	1,098	1.026	1,024	1,035	1.026	1,022	1.013
81	1,103	1,027	1,025	1,035	1.027	1,014	1,011
82	1,107	1,028	1,026	1,036	1,028	1,014	1,011
983	1,115	1,031	1,020	1,030	1,020	1,018	1,010
984	1,109	1.031	1.030	1.035	1.031	1,005	1,010
85	1,103	1,032	1,030	1,038	1.032	1,002	1,010
86	1,110	1,030	1,029	1,034	1,032	997	1,011
87	1,112	1,031	1,031	1,032	1,031	999	1,000
88	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1,107	1,031	1,020	°1,028	1,031	1,002	1,019
90	1,105	1,029	1,030	1,027	1.029	1,012	1,018
90	1,108	1,029	1,031	1,025	1,029	1,012	1,010
92	1,110	1,030	1,031	1,025	1,030	1,014	1,022
93	1,106	1,030	1.028	1,025	1.027	1.020	1,018
994	1,105	1,027	1.029	1,025	1.028	1,020	1,010
995	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1,109	1,026	1,027	1,021	1,026	1,022	1,011
90	1,107	1,026	1,027	1,020	1,026	1,022	1,011
997	1,107	1,026	1,033	1,020	1,026	1,023	1,011
999	1,109	1,027	1,033	1,022	1.027	1,023	1,011
	1,107	1,027	1,026	1,022	1,027	1,022	1,006
000	1,107	1,025	1,028	1,021	1,025	1,023	1,000
01	1,103	1,028	1,029	1,020	1,028	1,023	1,010
02	1,103	1,024 1,028	1,025	1,020	1,024	1,022	1,008
003			1,029		1,028	1,025	
04	1,104	1,026		1,027	1,026		1,009
005	1,104	1,028	1,028	1,028		1,025	1,009
06	1,103 1,102	1,028 1,027	1,028 1,027	1,028 1,027	1,028 1,027	1,025 1,025	1,009 1,009
07							
08	1,100	1,027	1,027	1,027	1,027	1,025	1,009
009	1,101	1,025	1,025	1,025	1,025	1,025	1,009
010	1,098	1,023	1,023	1,022	1,023	1,025	1,009
011	1,094	1,022 E 1,022	1,022	1,021	1,022	1,025	1,009 ^E 1.009
012	E 1,094	E 1,022	E 1,022	RP 1,022	E 1,022	E 1,025	
013	^E 1,094	^E 1,022	^E 1,022	^E 1,022	E 1,022	^E 1,025	^E 1,009

 ^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.

R=Revised. P=Preliminary. E=Estimate. — – =Not applicable. Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary. Web Pages: • See http://www.eia.gov/totalenergy/data/annual/#appendices for all data from 1949–1972. • See http://www.eia.gov/totalenergy/data/monthly/#appendices for all data beginning in 1973.

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					
		Waste	Residential and	Industria	I Sector	Electric				Imports
	Production ^a	Coal Supplied ^b	Commercial Sectors ^c	Coke Plants	Otherd	Power Sector ^{e,f}	Total	Imports	Exports	and Exports
1950	25.090	NA	24.461	26.798	24.820	23.937	24,989	25.020	26.788	24.800
1955		NA	24.373	26.794	24.821	24.056	24.982	25.000	26.907	24.800
1960		NA	24.226	26.791	24.609	23.927	24.713	25.003	26.939	24.800
965		NA	24.028	26.787	24.385	23.780	24.537	25.000	26.973	24.800
1900	23.842	NA	23.203	26.784	22.983	22.573	23.440	25.000	26.982	24.800
							22.506			
1975	22.897	NA	22.261	26.782	22.436	21.642		25.000	26.562	24.800
1980		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		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		NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985		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
987	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	^e 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		10.396	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	21.010	25.000	26.335	24.800
1994		11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
995	21.326	11.722	23,118	26.800	21.950	20.543	20.880	25.000	26,180	24,800
996		12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
997		12.158	22,494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
998		12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999		12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000		12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
2001	^a 20.772	12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800
		12.165	22.962	27.426	22.562		20.541	25.000	26.062	24.800
2002	20.673	12.165	22.962			20.238 20.082				
2003				27.425	22.468		20.387	25.000	25.972	24.800
2004	20.424	12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
2005		12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
2006		12.080	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007		12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008		12.121	^c 21.887	26.281	22.348	19.713	19.977	25.000	25.399	24.800
2009	19.963	12.076	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010	20.173	11.960	21.826	26.296	21.005	19.623	19.829	25.000	25.713	24.800
2011	20.142	11.604	21.179	26.300	21.738	19.341	19.605	25.000	25.645	24.800
2012	^E 20.142	^E 11.604	^E 21.179	^E 26.300	^E 21.738	^{RP} 19.223	^{RE} 19.508	^E 25.000	^E 25.645	^E 24.800
2013	^E 20.142	^E 11.604	^E 21.179	E 26.300	^E 21.738	E 19.223	^E 19.508	^E 25.000	^E 25.645	^E 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

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 ^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 ^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 ^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 ^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 ^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 ^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 ^c 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 ^c 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 ^c 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 ^c 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 ^c Waste coal (including fine coal, coal obtained fine culm) and coal obtained fine culm, and coal obtained fine culm) and coal o 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 Through 2007, used as the thermal conversion factor for coal consumption by the residential and commercial sectors. Beginning in 2008, used as the thermal

conversion factor for coal consumption by the commercial sector only.

^d Includes transportation. Excludes coal synfuel plants.

e 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.

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

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Pages: • See http://www.eia.gov/totalenergy/data/annual/#appendices for all data from 1949–1972. • See http://www.eia.gov/totalenergy/data/monthly/#appendices for all data beginning in 1973.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity (Btu per Kilowatthour)

		Approx	imate Heat Rates	a for Electricity Net Ge	eneration		
		Fossil	Fuels ^b				
	Coal ^c	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}	Nuclear ^h	Noncombustible Renewable Energy ^{g,i}	Heat Content ^j of Electricity ^k
1950	NA	NA	NA	14,030		14.030	3.412
1955	NA	NA	NA	11,699		11,699	3,412
1960	NA	NA	NA	10,760	11.629	10,760	3,412
1965	NA	NA	NA	10,453	11,804	10,453	3,412
1970	NA	NA	NA	10,400	10.977	10,494	3.412
1975	NA	NA	NA	10,406	11.013	10,406	3,412
1980	NA	NA	NA	10,388	10.908	10,388	3,412
1981	NA	NA	NA	10,388	11.030	10,355	3.412
1981	NA	NA	NA	10,453	11,030	10,453	3,412
1982	NA	NA	NA	10,434	10.905	10,454	3,412
1983	NA	NA	NA	10,320	10,905	10,320	3,412
				-, -		-, -	
1985	NA	NA	NA	10,447	10,622	10,447	3,412
1986	NA	NA	NA	10,446	10,579	10,446	3,412
1987	NA	NA	NA	10,419	10,442	10,419	3,412
1988	NA	NA	NA	10,324	10,602	10,324	3,412
1989	NA	NA	NA	10,432	10,583	10,432	3,412
1990	NA	NA	NA	10,402	10,582	10,402	3,412
1991	NA	NA	NA	10,436	10,484	10,436	3,412
1992	NA	NA	NA	10,342	10,471	10,342	3,412
1993	NA	NA	NA	10,309	10,504	10,309	3,412
1994	NA	NA	NA	10,316	10,452	10,316	3,412
1995	NA	NA	NA	10,312	10,507	10,312	3,412
1996	NA	NA	NA	10,340	10,503	10,340	3,412
1997	NA	NA	NA	10,213	10,494	10,213	3,412
1998	NA	NA	NA	10,197	10,491	10,197	3,412
1999	NA	NA	NA	10,226	10,450	10,226	3,412
2000	NA	NA	NA	10,201	10,429	10,201	3,412
2001	10.378	10.742	10.051	^b 10.333	10,443	10.333	3,412
2002	10,314	10,641	9,533	10,173	10,442	10,173	3,412
2003	10,297	10.610	9,207	10,125	10,421	10,125	3,412
2004		10.571	8.647	10.016	10.427	10.016	3.412
2005	10,373	10,631	8.551	9,999	10,436	9,999	3.412
2006	10,351	10,809	8,471	9,919	10,436	9,919	3,412
2007	10,375	10,794	8,403	9.884	10,485	9.884	3,412
2008	10,378	11,015	8,305	9,854	10,453	9,854	3,412
2009	10,414	10,923	8,160	9,760	10,460	9,760	3,412
2009	10,415	10,923	8,185	9,756	10,452	9,756	3,412
2010	10,415	10,984	8.152	9,750	10,464	9,756	3,412
	E 10,444	E 10,829	^E 8.152	^E 9.716	^E 10,464	^E 9.716	- /
2012	^E 10,444	^E 10,829		^E 9,716		E 9,716	3,412
2013	- 10,444	- 10,829	^E 8,152	- 9,710	^E 10,464	- 9,716	3,412

^a The values in columns 1–6 of this table are for net heat rates. See "Heat Rate" in Glossary. ^b 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.

^c Includes anthracite, bituminous coal, subbituminous coal, lignite, and, beginning in 2002, waste coal and coal synfuel.
 ^d Includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

 ^e Includes natural gas and supplemental gaseous fuels.
 ^f Includes coal, petroleum, natural gas, and, beginning in 2001, other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).

⁹ The fossil-fuels heat rate is used as the thermal conversion factor for electricity net generation from noncombustible renewable energy (hydro, geothermal, solar thermal, photovoltaic, and wind) 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 h Used as the thermal conversion factor for nuclear electricity net generation.

¹¹ Used as the thermal conversion factor for nuclear electricity net generation. ¹² Technology-based geothermal heat rates are no longer used in Btu calculations in this report. For technology-based geothermal heat rates for 1960–2010, see the Annual Energy Review 2010, Table A6.

¹ See "Heat Content" in Glossary.
 ^k 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. NA=Not available. -- =Not applicable. Web Pages: • See http://www.eia.gov/totalenergy/data/annual/#appendices for all data from 1949–1972. • See http://www.eia.gov/totalenergy/data/monthly/#appendices for all data beginning in 1973.

Sources: See "Thermal Conversion Factor Source Documentation." which follows this table

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. • 1949–1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote, constant value of 4.011 million Btu per barrel. • 1967 forward: 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, ethanepropane mixtures, and isobutane. For 1967–1980, 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. • 1949–1993: 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 or 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 or 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 or 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/state/seds/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/state/seds/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/state/seds/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/state/seds/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 **Petro***leum 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: EIA used the 2009 factor. • 2009 forward: 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's Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM), Table 1, data for renewable fuels and oxygenate plant net production of fuel ethanol. The quantity of pentanes plus used as denaturant is from PSA/PSM, 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 PSA/PSM, 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. • 1949–1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.* • 1963–1979: 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. • 1949–1972: Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed (see **Natural Gas Consumption, Total**). • 1973 forward: 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. • 1949–1972: Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed (see Natural Gas Consumption, Total). • 1973 forward: 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. • 1949–1963: Calculated annually by EIA by dividing the heat content of coal imported by the quantity imported. • 1964 forward: 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, Coal. • 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 anthracite, bituminous coal, subbituminous coal, lignite, and beginning in 2002, waste coal and coal synfuel.

Electricity Net Generation, Natural Gas. • 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 natural gas and supplemental gaseous fuels.

Electricity Net Generation, Noncombustible Renewable Energy. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, geothermal, solar thermal, photovoltaic, and wind energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossil-fueled power plants in the United States (see "Electricity Net Generation, Total Fossil Fuels"). By using that factor it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts.

Electricity Net Generation, Nuclear. • 1957–1984: 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 data reported on Form EIA-860, "Annual Electric Generator Report," and predecessor forms.

Electricity Net Generation, Petroleum. • 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 distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

Electricity Net Generation, Total Fossil Fuels. • 1949–1955: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published by EIA in *Thermal-Electric Plant Construction Cost and Annual Production*

Expenses—1981 and Steam-Electric Plant Construction Cost and Annual Production Expenses—1978. • 1956–1988: 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 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 coal, petroleum, natural gas, and other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).

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Appendix B

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. 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 x 42 gallons/barrel = 420 gallons).

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 (Ib U_3O_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 (m ³)
	1 cubic yard (yd ³)	=	0.764 555	cubic meters (m ³)
	1 cubic foot (ft ³)	=	0.028 316 85	cubic meters (m ³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in ³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
•	1 yard (yd)	=	0.914 4ª	meters (m)
	1 foot (ft)	=	0.304 8ª	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 (km ²)
	1 square yard (yd ²)	=	0.836 127 4	square meters (m ²)
	1 square foot (ft ²)	=	0.092 903 04ª	square meters (m ²)
	1 square inch (in ²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu)°	=	1,055.055 852 62ª	joules (J)
- 55	1 calorie (cal)	=	4.186 8ª	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	0ª	degrees Celsius (°C)
·	212 degrees Fahrenheit (°F)	=	100ª	degrees Celsius (°C)

^aExact conversion.

^bCalculated by the U.S. Energy Information Administration.

^eThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. ^eTo 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/totalenergy/data/monthly/#appendices.

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.

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	Μ	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	E	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Y	10 ⁻²⁴	yocto	у

Table B2. Metric Prefixes

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. 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)	=	1,000ª	kilograms (kg)		
Wood	1 cord (cd)	=	1.25 ^b	shorts tons		
	1 cord (cd)	=	128ª	cubic feet (ft ³)		

^aExact conversion.

^bCalculated by the U.S. Energy Information Administration.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

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.

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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/totalenergy/data/monthly/#appendices 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, nonpoisonous 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.

Citygate: 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.htm. 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/totalenergy/data/monthly/#appendices 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 (C_2H_6) . 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

above-mentioned 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 selfservice.

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 heavywalled 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); hydroelectricity conventional net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled 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 woodderived 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 The U.S. Energy Information Administration energy. 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 fossil-fueled 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.htm. 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.htm 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 horse-power.

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.