October 2012 Monthly Energy Review





Independent Statistics & Analysis U.S. Energy Information Administration

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Monthly Energy Review

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

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

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The MER is available on EIA's website in a variety of formats at http://www.eia.gov/totalenergy/data/monthly.

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

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

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

Monthly Energy Review October 2012

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

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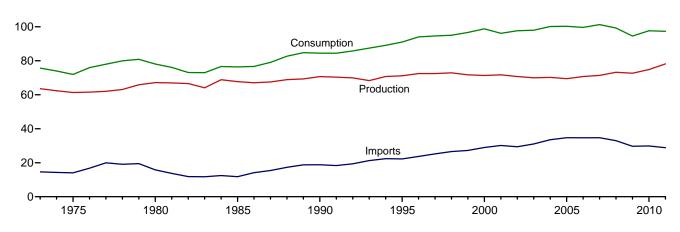
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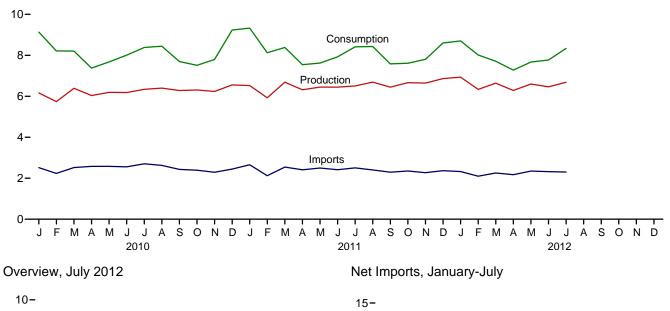
1. Energy Overview

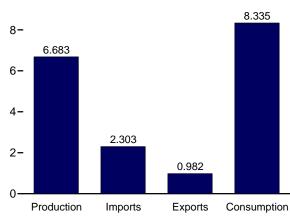
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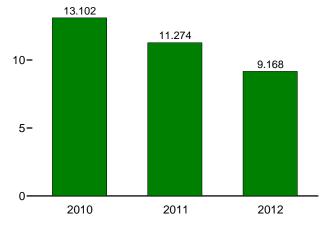
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Consumption, Production, and Imports, Monthly







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

Table 1.1 Primary Energy Overview

(Quadrillion Btu)

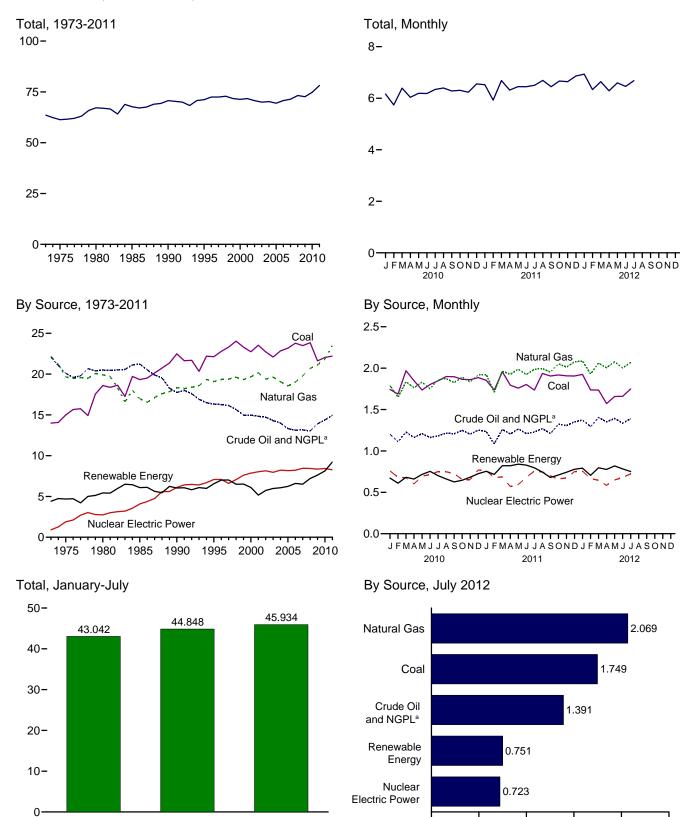
		Produ	uction			Trade		Charle		Consu	mption	
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Stock Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f
1973 Total	58.241	0.910	4.411	63.563	14.613	2.033	12.580	-0.459	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	5.982	69.962	31.061	4.054	27.007	1.009	84.014	7.959	5.983	97.978
2004 Total	55.930	8.222	6.070	70.222	33.544	4.434	29.110	.830	85.819	8.222	6.082	100.162
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 January	4.734	.758	.672	6.164	2.516	.590	1.926	1.042	7.697	.758	.662	9.132
February	4.446	.682	.610	5.738	2.237	.556	1.681	.793	6.915	.682	.605	8.213
March	5.032	.676	.682	6.389	2.519	.654	1.865	049	6.846	.676	.673	8.205
April	4.774	.602	.661	6.036	2.580	.686	1.894	558	6.104	.602	.657	7.372
May	4.777	.697	.717	6.191	2.578	.704	1.874	387	6.261	.697	.715	7.678
June	4.716	.714	.753	6.182	2.556	.684	1.872	047	6.530	.714	.755	8.008
July	4.888	.752	.701	6.341	2.705	.716	1.989	.053	6.920	.752	.701	8.383
August	4.987	.748	.662	6.396	2.627	.698	1.929	.119	7.030	.748	.660	8.445
September	4.930	.725	.626	6.280	2.431	.675	1.757	343	6.345	.725	.622	7.694
October	5.004	.656	.646	6.306	2.390	.714	1.676	473	6.209	.656	.643	7.509
November	4.896	.655	.682	6.233	2.289	.760	1.529	.035	6.464	.655	.676	7.797
December	5.058	.770	.726	6.554	2.447	.797	1.650	1.027	7.732	.770	.720	9.231
Total	58.241	8.434	8.136	74.812	29.877	8.234	21.643	1.211	81.054	8.434	8.090	97.667
2011 January	^R 5.008	.760	.754	^R 6.523	2.655	.841	1.814	^R .989	^R 7.818	.760	.738	^R 9.326
February	4.533	.677	.716	5.926	2.122	.759	1.363	^R .836	6.731	.677	.709	8.125
March	5.178	.686	.822	6.687	2.543	.880	1.663	R.031	^R 6.875	.686	.811	^R 8.381
April	4.924	.570	.820	6.315	2.412	.878	1.534	^R 305	6.154	.570	.811	7.543
May	5.012	.596	.840	6.448	2.497	.847	1.650	477	^R 6.179	.596	.834	7.621
June	4.935	.682	.829	6.447	2.417	.818	1.599	^R 119	6.404	.682	.828	^R 7.926
July	4.951	.756	.796	6.503	2.505	.854	1.651	R.258	6.852	.756	.787	8.411
August	5.200	.746	.745	6.690	2.405	.879	1.526	.211 R 269	R 6.922	.746	.744	8.427
September	5.068	.699	.679	6.446	2.294	.892	1.402	^R 268	^R 6.198	.699	.672	7.579
October	5.293 ^R 5.226	.662	.710	6.665	2.351	.891	1.460	515	6.237 B 6 200	.662	.701	7.610
November	^R 5.332	.674 .751	.742 .778	^R 6.643 6.862	2.272 2.370	.894 1.026	1.378 1.344	^R 218 ^R .394	^R 6.390 ^R 7.069	.674 .751	.732 .768	7.803 ^R 8.600
December Total	60.661	8.259	9.233	0.00∠ 78.154	2.370 28.842	10.26 10.458	18.384	R.816	R 79.829	8.259	9.137	R 97.353
2012 January	5.384	.757	.792	6.933	2.326	.864	1.462	.306	^R 7.164	.757	.769	8.701
February	^R 4.963	.667	.705	6.336	2.099	.838	1.262	.418	^R 6.644	.667	.694	^R 8.015
March	^R 5.199	.645	.797	6.641	2.255	.964	1.291	^R 221	^R 6.267	.645	.788	^R 7.711
April	^R 4.926	.584	.776	^R 6.286	2.174	R 1.000	R 1.174	^R 184	^R 5.907	.584	.773	^R 7.276
May	^R 5.127	.649	.819	^R 6.595	2.349	^R 1.012	R 1.337	^R 263	^R 6.187	.649	.819	^R 7.670
June	^R 4.996	.681	.783	^R 6.460	^R 2.321	.999	1.322	^R 012	^R 6.293	.681	.782	^R 7.769
July 7-Month Total	5.209 35.805	.723 4.705	.751 5.424	6.683 45.934	2.303 15.827	.982 6.660	1.320 9.168	.332 .376	6.841 45.303	.723 4.705	.753 5.377	8.335 55.478
2011 7-Month Total 2010 7-Month Total	34.542 33.366	4.728 4.880	5.578 4.795	44.848 43.042	17.151 17.692	5.877 4.589	11.274 13.102	1.211 .846	47.014 47.274	4.728 4.880	5.519 4.768	57.333 56.990

^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

 Bistrict of Columbia.
 Geographic Coverage is the so 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.

2010

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

2011

0.0

0.5

1.0

1.5

2.0

2.5

2012

Table 1.2 Primary Energy Production by Source

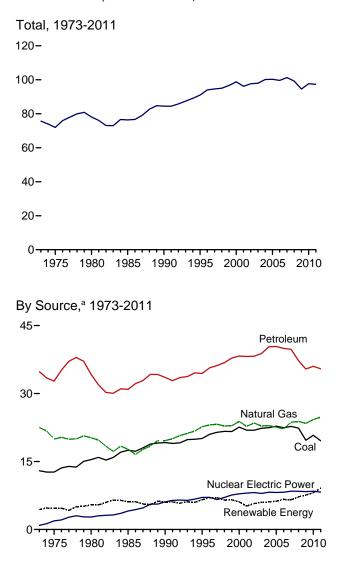
(Quadrillion Btu)

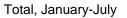
		F	ossil Fuels				Renewable Energy ^a						
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1973 Total 1975 Total 1980 Total 1980 Total 1995 Total 1997 Total 1998 Total 1998 Total 2000 Total	13.992 14.989 18.598 19.325 22.488 22.130 22.790 23.310 24.045 23.295 22.735	22.187 19.640 19.908 16.980 18.326 19.082 19.344 19.394 19.613 19.341 19.662	19.493 17.729 18.249 15.571 13.887 13.723 13.658 13.235 12.451 12.358	2.569 2.374 2.254 2.241 2.175 2.442 2.530 2.495 2.420 2.528 2.611	58.241 54.733 59.008 57.539 58.560 57.540 58.387 58.857 58.857 59.314 57.614 57.366	0.910 1.900 2.739 4.076 6.104 7.075 7.087 6.597 7.068 7.610 7.862	2.861 3.155 2.900 3.046 3.205 3.590 3.640 3.297 3.268 2.811	0.020 .034 .053 .097 .152 .163 .167 .168 .171 .164	NA NA (s) .059 .069 .070 .070 .069 .068 .068	NA NA (s) .029 .033 .033 .034 .031 .046 .057	1.529 1.499 2.475 3.016 2.735 3.099 3.155 3.108 2.929 2.965 3.006	4.411 4.687 5.428 6.084 6.041 6.558 7.012 7.018 6.494 6.517 6.104	63.563 61.320 67.175 67.698 70.705 71.174 72.486 72.472 72.876 71.742 71.332
2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total 2008 Total	23.547 22.732 22.094 22.852 23.185 23.790 23.493 23.851 21.624	20.166 19.382 19.633 19.074 18.556 19.022 19.786 20.703 21.139	12.282 12.160 11.948 11.538 10.978 10.772 10.748 10.615 11.332	2.547 2.559 2.346 2.466 2.334 2.356 2.409 2.419 2.574	58.541 56.834 56.022 55.930 55.053 55.940 56.435 57.588 56.669	8.029 8.145 7.959 8.222 8.161 8.215 8.455 8.427 8.356	2.242 2.689 2.825 2.690 2.703 2.869 2.446 2.511 2.669	.164 .171 .175 .178 .181 .181 .186 .192 .200	.064 .063 .062 .063 .063 .068 .076 .089 .098	.070 .105 .115 .142 .178 .264 .341 .546 .721	2.624 2.705 2.805 2.998 3.104 3.216 3.461 3.864 3.928	5.164 5.734 5.982 6.070 6.229 6.599 6.509 7.202 7.616	71.735 70.713 69.962 70.222 69.443 70.754 71.400 73.217 72.641
2010 January February April June July August September October December December December	1.743 1.687 1.969 1.848 1.736 1.802 1.847 1.898 1.897 1.864 1.860 1.886 22.038	1.790 1.648 1.835 1.763 1.832 1.751 1.859 1.874 1.826 1.833 1.920 21.823	.971 .901 .936 .971 .955 .979 .976 1.006 1.009 11.598	.230 .210 .236 .227 .238 .226 .227 .236 .232 .242 .235 .242 .235 .242 2.781	4.734 4.446 5.032 4.774 4.777 4.716 4.888 4.987 4.930 5.004 4.896 5.058 58.241	.758 .682 .676 .602 .697 .714 .752 .748 .725 .656 .655 .770 8.434	.218 .201 .204 .186 .245 .291 .239 .196 .168 .173 .191 .226 2.539	.018 .016 .018 .017 .018 .017 .018 .017 .017 .017 .018 .018 .018 .208	.010 .009 .010 .011 .011 .011 .011 .011	.067 .053 .084 .095 .085 .079 .066 .065 .069 .077 .095 .088 .923	.359 .332 .366 .351 .358 .355 .367 .371 .360 .369 .369 .383 4.341	.672 .610 .682 .661 .717 .753 .701 .662 .626 .646 .646 .682 .726 8.136	6.164 5.738 6.389 6.036 6.191 6.182 6.341 6.396 6.280 6.280 6.233 6.233 6.554 74.812
2011 January February March April July August September October December December Total	1.853 1.735 1.956 1.794 1.759 1.803 1.735 1.936 1.906 1.907 1.906 22.207	E 1.922 E 1.711 E 1.963 E 1.925 E 1.988 E 1.923 E 1.987 E 1.994 E 1.952 E 2.052 E 2.014 E 2.075 E 23.506	R.993 .881 1.009 .964 1.011 .969 .977 1.016 .971 1.060 R.1.044 R.1.083 11.978	.241 .207 .250 .241 .254 .251 .254 .239 .263 .261 .268 2.970	R 5.008 4.533 5.178 4.924 5.012 4.935 4.951 5.200 5.068 5.293 R 5.226 R 5.332 60.661	.760 .677 .686 .570 .596 .682 .756 .746 .699 .662 .674 .751 8.259	.255 .241 .310 .309 .323 .315 .308 .257 .210 .195 .209 .241 3.171	.020 .018 .020 .019 .019 .019 .019 .019 .018 .019 .019 .019 .019	.012 .013 .013 .014 .014 .014 .014 .014 .013 .014 .012 .013 .158	.084 .103 .121 .114 .106 .072 .067 .067 .104 .121 .102 1.168	.382 .343 .377 .359 .370 .376 .383 .383 .371 .379 .382 .403 4.509	.754 .716 .822 .820 .840 .796 .745 .679 .710 .742 .778 9.233	^R 6.523 5.926 6.687 6.315 6.448 6.447 6.503 6.690 6.446 6.665 ^R 6.643 6.862 78.154
2012 January February March April May June July 7-Month Total 2010 7-Month Total	1.924 1.737 1.735 1.571 1.658 1.659 1.749 12.034 12.635 12.633	E 2.087 E 1.930 E 2.061 E 2.004 E 2.007 RE 2.002 E 2.069 E 14.230 E 13.418 12.478	E 1.103 RE 1.041 RE 1.133 RE 1.088 RE 1.121 RE 1.077 E 1.127 E 7.691 6.804 6.661	.270 .254 .270 .262 .270 .257 .264 1.850 1.684 1.594	5.384 R 4.963 R 5.199 R 4.926 R 5.127 R 4.996 5.209 35.805 34.542 33.366	.757 .667 .645 .584 .649 .681 .723 4.705 4.725 4.728 4.880	.233 .203 .256 .261 .283 .264 .264 1.765 2.060 1.584	.019 .018 .019 .018 .019 .019 .019 .133 .132 .121	.015 .016 .017 .019 .019 .019 .120 .092 .073	.135 .108 .132 .123 .121 .115 .084 .818 .703 .528	.389 .362 .372 .357 .367 .364 2.588 2.591 2.489	.792 .705 .797 .776 .819 .783 .751 5.424 5.578 4.795	6.933 6.336 6.641 ^R 6.286 ^R 6.595 ^R 6.460 6.683 45.934 44.848 43.042

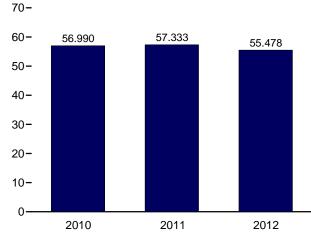
^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. 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.

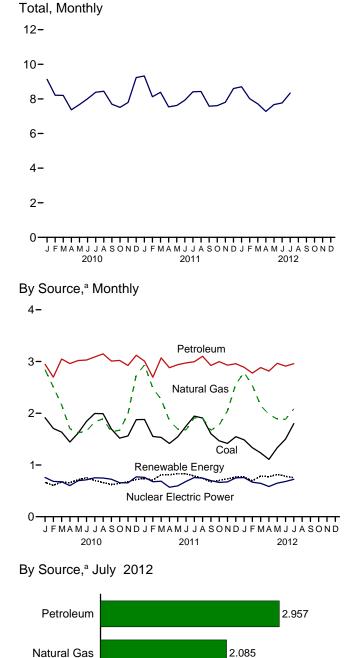
Figure 1.3 Primary Energy Consumption (Quadrillion Btu)







^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.



1.799

2

3

4

0.753

0.723

1



0

Coal

Renewable

Energy

Nuclear

Electric Power

Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels					Renewable	e Energy ^a			
	Coal	Natural Gas ^b	Petro- leum ^c	Total ^d	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total ^f
1973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.020	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	.0́29	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
2003 Total	22.321 22.466	22.831 22.923	38.811 40.292	84.014 85.819	7.959 8.222	2.825 2.690	.175 .178	.062 .063	.115 .142	2.807 3.010	5.983 6.082	97.978 100.162
2004 Total 2005 Total	22.466 22.797	22.923	40.292 40.388	85.819	8.222	2.690	.178	.063	.142	3.010	6.082	100.162
2005 Total	22.447	22.305	39.955	84.702	8.215	2.869	.181	.063	.264	3.267	6.649	99.629
2007 Total	22.749	23.663	39.774	86.211	8.455	2.446	.186	.000	.204	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 January	1.914	2.841	2.947	7.697	.758	.218	.018	.010	.067	.349	.662	9.132
February	1.706	2.507	2.698	6.915	.682	.201	.016	.009	.053	.326	.605	8.213
March	1.635	2.160	3.048	6.846	.676	.204	.018	.010	.084	.357	.673	8.205
April	1.444	1.700	2.960	6.104	.602	.186	.017	.010	.095	.348	.657	7.372
May	1.618	1.622	3.020	6.261	.697	.245	.018	.011	.085	.356	.715	7.678
June	1.844	1.656	3.029	6.530	.714	.291	.017	.011	.079	.357	.755	8.008
July	1.995	1.836	3.089	6.920	.752	.239	.017	.011	.066	.368	.701	8.383
August	1.991	1.890	3.148	7.030	.748	.196	.018	.011	.065	.370	.660	8.445
September	1.693	1.644	3.008 3.020	6.345	.725	.168 .173	.017	.011	.069	.357 .366	.622	7.694 7.509
October November	1.519 1.561	1.671 1.986	2.923	6.209 6.464	.656 .655	.173	.017 .017	.010 .010	.077 .095	.363	.643 .676	7.509
December	1.876	2.741	3.120	7.732	.033	.226	.017	.010	.035	.303	.720	9.231
Total	20.794	24.256	36.010	81.054	8.434	2.539	.208	.126	.923	4.294	8.090	97.667
2011 January	1.879	2.932	3.006	^R 7.818	.760	.255	.020	.012	.084	.367	.738	^R 9.326
February	1.552	2.482	2.696	6.731	.677	.241	.018	.012	.103	.336	.709	8.125
March	1.534	^R 2.269	3.070	^R 6.875	.686	.310	.020	.013	.103	.366	.811	^R 8.381
April	1.416	_ 1.858	2.879	6.154	.570	.309	.018	.013	.121	.350	.811	7.543
May	1.544	^R 1.695	2.938	^R 6.179	.596	.323	.019	.014	.114	.364	.834	7.621
June	1.751	^R 1.679	2.973	6.404	.682	.315	.019	.014	.106	.375	.828	^R 7.926
July	1.945	^R 1.913	2.995	6.852	.756	.308	.019	.014	.072	.374	.787	8.411
August	1.908	R 1.909	3.101 ^R 2.923	R 6.922	.746 .699	.257 .210	.019	.014	.072	.383	.744	8.427
September October	1.604 1.467	^R 1.671 ^R 1.773	2.923	^R 6.198 6.237	.699	.210	.018 .019	.013 .014	.067 .104	.364 .370	.672 .701	7.579 7.610
November	1.407	2.045	2.990	^R 6.390	.674	.195	.019	.014	.104	.370	.701	7.803
December	1.546	2.045	2.929 2.957	^R 7.069	.674	.209	.019	.012	.121	.372	.752	^R 8.600
Total	19.564	R 24.789	35.465	R 79.829	8.259	3.171	.226	.158	1.168	4.413	9.137	R 97.353
2012 January	1.486	^R 2.787	2.889	^R 7.164	.757	.233	.019	.015	.135	.367	.769	8.701
February	1.333	^R 2.535	2.776	^R 6.644	.667	.203	.018	.015	.108	.350	.694	^R 8.015
March	1.233	^R 2.148	2.883	^R 6.267	.645	.256	.019	.016	.132	.364	.788	^R 7.711
April	^R 1.108	^R 1.978	2.815	^R 5.907	.584	.261	.018	.017	.123	.353	.773	^R 7.276
May	^R 1.334	^R 1.889	2.964	^R 6.187	.649	.283	.019	.019	.121	.376	.819	^R 7.670
June	^R 1.500	1.882	2.911	^R 6.293	.681	.264	.019	.019	.115	.365	.782	^R 7.769
July 7-Month Total	1.799 9.793	2.085 15.305	2.957 20.195	6.841 45.303	.723 4.705	.264 1.765	.019 .133	.019 .120	.084 .818	.366 2.541	.753 5.377	8.335 55.478
2011 7-Month Total	11.622	14.827	20.558	47.014	4.728	2.060	.132	.092	.703	2.532	5.519	57.333
2010 7-Month Total	12.154	14.827	20.558 20.790	47.014 47.274	4.728	2.060	.132	.092	.703	2.532	4.768	57.333

^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.

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: Tables 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)

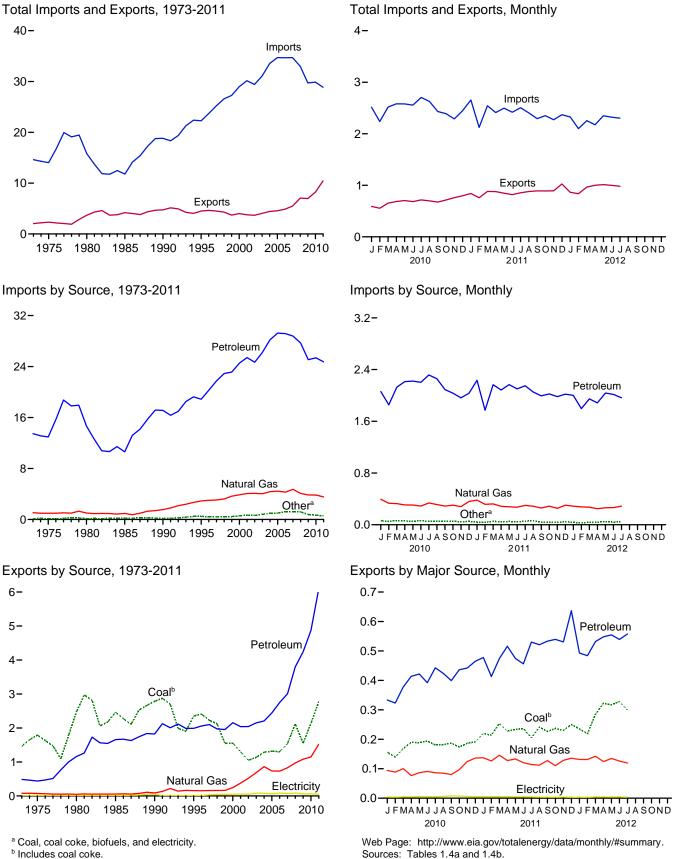
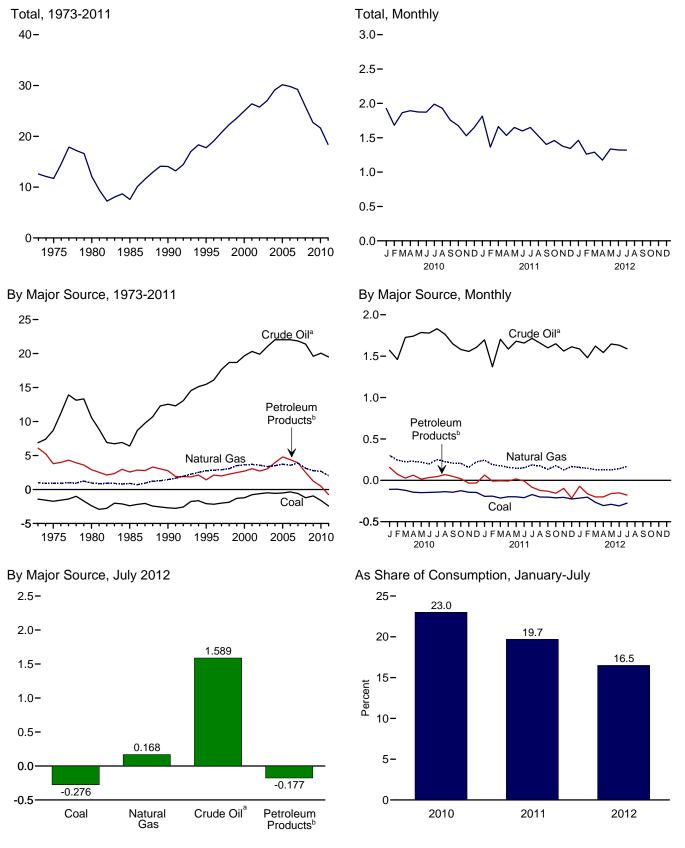


Figure 1.4b Primary Energy Net Imports

(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
90 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 January	.042	.001	.394	1.577	.483	2.060	.001	.018	2.516
February	.031	.005	.332	1.469	.384	1.853	(s)	.015	2.237
March	.047	.003	.327	1.734	.393	2.127	.001	.015	2.519
April	.045	.001	.306	1.747	.466	2.214	(s)	.013	2.580
May	.037	.005	.305	1.793	.428	2.221	.001	.010	2.578
June	.044	.005	.289	1.784	.419	2.203	(s)	.014	2.556
July	.035	.003	.337	1.844	.472	2.316	(s)	.015	2.705
August	.043	.003	.313	1.772	.484	2.256	(s)	.012	2.627
September	.040	.002	.289	1.658	.432	2.090	(s)	.010	2.431
October	.044	.001	.302	1.585	.448	2.034	(s)	.009	2.390
November	.037	(s)	.280	1.563	.400	1.963	(s)	.009	2.289
December	.039 .484	(s) .030	.361 3.834	1.614 20.140	.420	2.034 25.371	(s) .004	.013 .154	2.447 29.877
Total	.404	.030	3.034	20.140	5.231	23.371	.004	.154	29.077
11 January	.025	.001	.380	1.710	.523	2.233	(s)	.015	2.655
February	.021 .038	.002 .004	.316 .322	1.377 1.710	.394 .455	1.771 2.166	(s) (s)	.013 .014	2.122 2.543
March	.038	.004	.322 .285	1.593	.455	2.084		.014	2.543
April	.028	.001	.205	1.687	.490	2.166	(s)	.013	2.412
May June	.033	.004	.272	1.665	.479	2.100	(s) .001	.017	2.497
July	.024	.004	.300	1.728	.430	2.101	.001	.013	2.417
August	.039	.005	.286	1.664	.389	2.053	.001	.021	2.305
September	.039	.003	.260	1.607	.386	1.993	.002	.013	2.403
October	.021	.003	.288	1.659	.364	2.023	.003	.014	2.294
November	.023	.002	.254	1.572	.409	1.981	.002	.013	2.331
December	.020	.002	.303	1.622	.397	2.019	.005	.012	2.370
Total	.327	.035	3.542	19.595	5.145	24.740	.019	.178	28.842
112 January	.020	.003	.288	1.597	.405	2.001	(s)	.014	2.326
February	.013	.003	.276	1.491	.304	1.795	(s)	.012	2.099
March	.017	.002	.272	1.633	.313	1.946	.002	.012	2.255
April	.016	.007	.249	1.549	.336	1.885	.001	.017	2.174
May	.025	.004	.263	1.659	.378	2.037	.002	.019	2.349
June	.018	.001	.265	1.640	.375	2.015	.002	.018	R 2.321
July	.022	.001	.288	1.603	.361	1.964	.004	.023	2.303
7-Month Total	.131	.022	1.901	11.171	2.472	13.643	.013	.118	15.827
011 7-Month Total	.200	.019	2.152	11.470	3.199	14.669	.003	.107	17.151
10 7-Month Total	.281	.023	2.291	11.948	3.046	14.994	.003	.100	17.692

^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum

 ^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.

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

(Quadrillion Btu)

					Exports					Net Imports ^a
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Total	Biofuelsd	Electricity	Total	Total
1973 Total	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2.033	12.580
1975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
1980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
1985 Total	2.438	.028 .014	.056	.432 .230	1.225	1.657	NA NA	.017	4.196	7.584
1990 Total 1995 Total	2.772 2.318	.014	.087 .156	.230	1.594 1.791	1.824 1.991	NA	.055 .012	4.752 4.511	14.065
1996 Total	2.368	.040	.155	.233	1.825	2.059	NA	.012	4.633	19.069
1997 Total	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
1998 Total	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
1999 Total	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
2000 Total	1.528	.028	.245	.106	2.048	2.154	NA	.051	4.006	24.967
2001 Total	1.265	.033	.377	.043	1.996	2.039	(s)	.056	3.771	26.386
2002 Total	1.032	.020	.520	.019	2.023	2.042	(s)	.054	3.669	25.739
2003 Total	1.117 1.253	.018 .033	.686 .862	.026 .057	2.124 2.151	2.151 2.208	.001 .001	.082 .078	4.054 4.434	27.007 29.110
2004 Total 2005 Total	1.253	.033	.862	.057	2.151	2.208	.001	.078	4.434 4.560	30.149
2006 Total	1.264	.043	.730	.052	2.699	2.751	.001	.083	4.872	29.806
2007 Total	1.507	.036	.830	.058	2.949	3.007	.035	.069	5.482	29.221
2008 Total	2.071	.049	.972	.061	3.739	3.800	.086	.083	7.060	25.932
2009 Total	1.515	.032	1.082	.093	4.147	4.240	.034	.062	6.965	22.741
2010 January	.151	.006	.094	.006	.327	.332	.003	.004	.590	1.926
February	.138	.001	.089	.009	.312	.321	.003	.003	.556	1.681
March	.169	(s)	.100	.008	.366	.374	.006	.004	.654	1.865
April	.189	.001	.077	.006	.404	.411	.005	.004	.686	1.894
May	.186 .190	.003 .004	.086 .091	.007 .005	.414 .385	.420 .391	.003 .003	.006 .005	.704 .684	1.874 1.872
June July	.190	.004	.087	.003	.385	.391	.003	.005	.716	1.989
August	.180	.003	.085	.006	.415	.440	.003	.005	.698	1.929
September	.184	.003	.080	.011	.385	.396	.004	.008	.675	1.757
October	.170	.003	.097	.004	.429	.433	.004	.007	.714	1.676
November	.180	.006	.125	.006	.433	.439	.004	.006	.760	1.529
December	.186	.005	.136	.007	.452	.459	.007	.005	.797	1.650
Total	2.101	.036	1.147	.088	4.750	4.838	.046	.065	8.234	21.643
2011 January	.218	.001	.137	.013	.460	.473	.006	.005	.841	1.814
February	.212 .252	.002 .001	.126 .146	.005 .007	.403 .461	.408 .467	.005 .008	.005 .005	.759 .880	1.363
March April	.252 .227	.001	.140	.007	.499	.407	.008	.005	.000 .878	1.534
May	.232	.001	.133	.007	.462	.469	.007	.003	.847	1.650
June	.233	.003	.121	.006	.444	.451	.006	.004	.818	1.599
July	.202	.003	.114	.013	.506	.520	.011	.004	.854	1.651
August	.241	.001	.112	.006	.511	.517	.005	.003	.879	1.526
September	.224	.003	.128	.006	.518	.524	.010	.003	.892	1.402
October	.235	.002	.110	.009	.520	.529	.011	.003	.891	1.460
November	.226	.004	.129	.011	.507	.518	.013	.004	.894	1.378
December Total	.249 2.751	.001 .024	.136 1.521	.010 .100	.613 5.904	.622 6.004	.014 .108	.003 .051	1.026 10.458	1.344 18.384
	.234	.001	.132	.010	.476	.487	.008	.003	.864	1.462
2012 January February	.234 .217	.001	.132	.010	.476	.487 .478	.008	.003	.864 .838	1.462
March	.284	.002	142	.010	.514	.525	.007	.003	.964	1.202
April	.321	.002	R.124	.006	.536	.542	.000	.004	R 1.000	^R 1.174
May	.314	.003	.135	.012	.537	.550	.006	.004	^R 1.012	^R 1.337
June	.327	.001	.126	.008	.526	.534	.007	.004	.999	1.322
July	.298	.001	.119	.014	.538	.552	.007	.003	.982	1.320
7-Month Total	1.995	.011	.910	.071	3.596	3.667	.050	.026	6.660	9.168
2011 7-Month Total	1.576	.013	.906	.057	3.235	3.293	.055	.034	5.877	11.274
2010 7-Month Total	1.201	.017	.624	.054	2.636	2.690	.025	.033	4.589	13.102

^a Net imports equal imports minus exports.
 ^b Crude oil and lease condensate.
 ^c Petroleum products, unfinished oils, pentanes plus, and gasoline blending

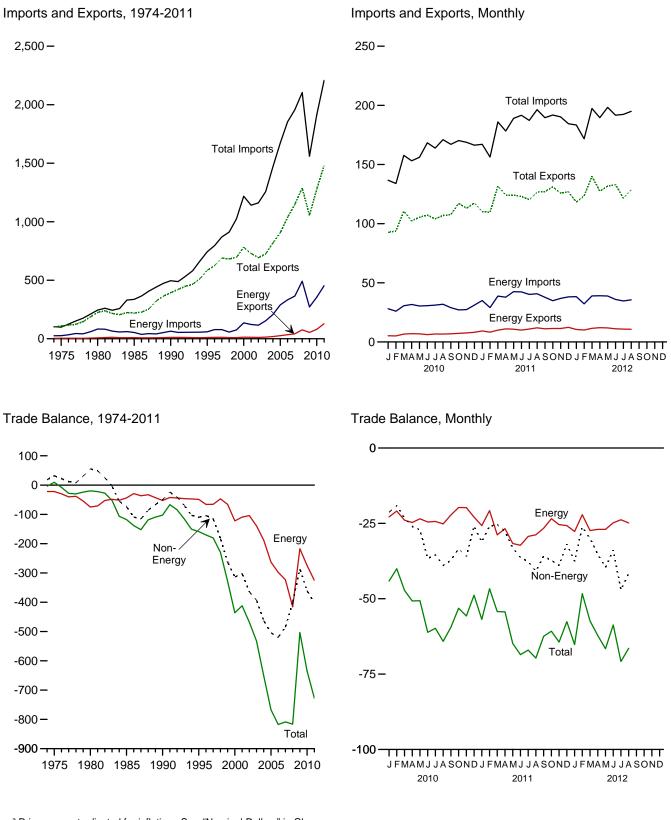
components. Does not include biofuels. ^d Through 2010, data are for biodiesel only. Beginning in 2011, data are for fuel ethanol (minus denaturant) and biodiesel.

R=Revision 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** 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)

974 Total	792 907 2,833 4,707 6,901 6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,505 5,346 5,346 5,484 4,798 5,505 5,346 5,484 4,798 5,505 5,346 5,484	Imports 24,668 25,197 78,637 50,475 61,583 54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 299,714 327,620 449,847 251,833 25,234 23,666 28,733 29,714 30,016 28,733 29,218 30,016 28,733 29,218 30,130	Balance -23,876 -24,289 -75,803 -45,768 -54,682 -48,047 -64,038 -62,560 -43,690 -60,055 -109,059 -93,879 -94,094 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713 -23,713	Exports 3,444 4,470 7,982 9,971 12,233 10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760 6,760 6,760 6,760	Imports 25,454 26,476 82,924 53,917 64,661 59,109 78,086 78,277 57,323 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698 31,113	Balance -22,010 -22,006 -74,942 -43,946 -52,428 -48,751 -65,905 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482 -24,528	Energy Balance 18,126 31,557 55,246 -73,765 -50,068 -110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -26,034 -27,165	Exports 99,437 108,856 225,566 218,815 393,592 584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443 105,477	Imports 103,321 99,305 245,262 336,526 496,088 743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163 156,124	Balanc -3,884 9,551 -19,696 -117,712 -102,496 -118,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721 -50,647
975 Total 980 Total 980 Total 9985 Total 990 Total 990 Total 997 Total 998 Total 999 Total 999 Total 999 Total 999 Total 999 Total 999 Total 990 Total 991 Total 992 Total 993 Total 993 Total 900 Total 901 Total 902 Total 903 Total 905 Total 905 Total 905 Total 905 Total 906 Total 907 Total 908 Total 909 Total 909 Total 909 Total 909 Total 909 Total 9009 Total 9010 January April May 9010 January September 902 October November 902 December 901 January 901 January	907 2,833 4,707 6,901 6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,346 5,482	25,197 78,637 50,475 61,583 54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-24,289 -75,803 -45,768 -54,682 -48,047 -64,038 -62,560 -60,055 -109,059 -93,879 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -22,713	4,470 7,982 9,971 12,233 10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	26,476 82,924 53,917 64,661 59,109 78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369	-22,006 -74,942 -43,946 -52,428 -48,751 -65,595 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	31,557 55,246 -73,765 -50,068 -110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	108,856 225,566 218,815 393,592 584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,243	99,305 245,262 336,526 496,088 743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	9,551 -19,696 -117,712 -102,496 -158,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -44,217 -50,721
975 Total 980 Total 980 Total 990 Total 990 Total 995 Total 996 Total 997 Total 998 Total 999 Total 999 Total 999 Total 999 Total 999 Total 999 Total 900 Total 901 Total 902 Total 903 Total 904 Total 905 Total 905 Total 905 Total 905 Total 906 Total 907 Total 908 Total 909 Total 909 Total 908 Total 909 Total 901 January	907 2,833 4,707 6,901 6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,346 5,482	25,197 78,637 50,475 61,583 54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-24,289 -75,803 -45,768 -54,682 -48,047 -64,038 -62,560 -60,055 -109,059 -93,879 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -22,713	4,470 7,982 9,971 12,233 10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	26,476 82,924 53,917 64,661 59,109 78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369	-22,006 -74,942 -43,946 -52,428 -48,751 -65,595 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	31,557 55,246 -73,765 -50,068 -110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	108,856 225,566 218,815 393,592 584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,243	99,305 245,262 336,526 496,088 743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	9,551 -19,696 -117,712 -102,496 -158,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -44,217 -50,721
880 Total 985 Total 985 Total 996 Total 997 Total 998 Total 998 Total 999 Total 990 Total 990 Total 990 Total 990 Total 990 Total 900 Total 901 Total 902 Total 903 Total 905 Total 906 Total 907 Total 908 Total 909 Total 900 Total 901 January November >	2,833 4,707 6,901 6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,5482	78,637 50,475 61,583 54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 132,433 132,433 132,433 132,433 132,433 132,433 132,666 250,068 299,714 327,620 449,847 251,833 25,234 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-75,803 -45,768 -54,682 -48,047 -64,038 -62,560 -60,055 -109,059 -93,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -24,213 -23,713	7,982 9,971 12,233 10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,115 6,667 6,970 6,887 6,170 6,760	82,924 53,917 64,661 59,109 78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 271,739 28,075 26,018 30,613 31,657 30,369	-74,942 -43,946 -52,428 -48,751 -65,905 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	55,246 -73,765 -50,068 -110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	225,566 218,815 393,592 584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	245,262 336,526 496,088 743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-19,696 -117,712 -102,496 -158,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -650,930 -650,930 -650,930 -650,930 -650,930 -650,930 -650,930 -650,930 -650,930 -650,930 -650,930 -64,124 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
185 Total 190 Total 199 Total 190 Total 190 Total 101 Total 102 Total 103 Total 103 Total 104 Total 105 Total 106 Total 107 Total 108 Total 108 Total 109 Total 100 January February March April November December Total 100 January February Nay November December </td <td>4,707 6,901 6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,5482</td> <td>50,475 61,583 54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130</td> <td>-45,768 -54,682 -48,047 -64,038 -62,560 -00,055 -109,059 -93,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,249 -24,336 -23,249 -24,213 -23,713</td> <td>9,971 12,233 10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760</td> <td>53,917 64,661 59,109 78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369</td> <td>-43,946 -52,428 -48,751 -65,905 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482</td> <td>-73,765 -50,068 -110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -26,034 -27,165</td> <td>218,815 393,592 584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443</td> <td>336,526 496,088 743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163</td> <td>-117,712 -102,496 -158,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -44,247 -50,721</td>	4,707 6,901 6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,5482	50,475 61,583 54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-45,768 -54,682 -48,047 -64,038 -62,560 -00,055 -109,059 -93,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,249 -24,336 -23,249 -24,213 -23,713	9,971 12,233 10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	53,917 64,661 59,109 78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369	-43,946 -52,428 -48,751 -65,905 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-73,765 -50,068 -110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -26,034 -27,165	218,815 393,592 584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	336,526 496,088 743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-117,712 -102,496 -158,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -44,247 -50,721
90 Total 95 Total 96 Total 97 Total 98 Total 99 Total 99 Total 90 Total 01 Total 02 Total 03 Total 03 Total 04 Total 05 Total 06 Total 07 Total 03 Total 04 Total 05 Total 06 Total 07 Total 08 Total 09 Total 09 Total 09 Total 09 Total 10 January February March August September October November December Total 11 January February March April May	6,901 6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,6484 4,798 5,505 5,346 5,5482	61,583 54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-54,682 -48,047 -64,038 -62,560 -43,690 -93,879 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,249 -24,213 -23,713	12,233 10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	64,661 59,109 78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 264,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369	-52,428 -48,751 -65,905 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-50,068 -110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -26,034 -27,165	393,592 584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	496,088 743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-102,496 -158,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -44,217 -50,721
95 Total 96 Total 97 Total 98 Total 98 Total 99 Total 99 Total 00 Total 01 Total 02 Total 03 Total 03 Total 05 Total 05 Total 06 Total 06 Total 07 Total 08 Total 09 Total 10 January March August September December December Total 06 Total 07 Total 08 Total 09 Total 09 Total 09 Total 09 Total 00 January March August September December Total 00 Total 00 Tot	6,321 7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,482	54,368 72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-48,047 -64,038 -62,560 -43,690 -90,055 -109,059 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -223,713	10,358 12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,115 6,667 6,970 6,887 6,170 6,760	59,109 78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369	-48,751 -65,905 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-110,050 -104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	584,742 625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	743,543 795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-158,801 -170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
96 Total 97 Total 98 Total 99 Total 99 Total 99 Total 99 Total 90 Total 91 Total 92 Total 93 Total 93 Total 93 Total 93 Total 93 Total 93 Total 94 Total 95 Total 96 Total 97 Total 98 Total 98 Total 99 Total 90 Total 90 Total 91 June July August September 7 Total 90 Total 91 January 92 February 93 March 94 Total 95 Total	7,984 8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,5482	72,022 71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,011 29,218 30,130	-64,038 -62,560 -43,690 -60,055 -109,059 -93,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -211,151 -19,663 -23,201 -24,336 -23,249 -24,213 -223,713	12,181 12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	78,086 78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 291,885 271,739 28,075 26,018 30,613 31,657 30,369	-65,905 -65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-104,309 -114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	625,075 689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	795,289 869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-170,214 -180,522 -229,758 -328,821 -436,104 -411,899 -468,263 -532,350 -650,930 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
97 Total 98 Total 99 Total 000 Total 01 Total 02 Total 03 Total 04 Total 05 Total 06 Total 101 Total 102 Total 103 Total 104 Total 105 Total 105 Total 106 Total 107 Total 108 Total 109 Total 109 Total 10 January February March August September October November December Total 11 January February March April March April March April	8,592 6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,5482	71,152 50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-62,560 -43,690 -60,055 -109,059 -93,079 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,249 -23,249 -24,213 -23,249 -24,213 -23,713	12,682 10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	78,277 57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-65,595 -47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-114,927 -182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	689,182 682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	869,704 911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-180,522 -229,756 -328,821 -436,6104 -411,899 -468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -44,247 -50,721
98 Total 99 Total 99 Total 91 Total 92 Total 93 Total 93 Total 93 Total 93 Total 93 Total 95 Total 96 Total 97 Total 98 Total 99 Total 90 April May June July August September October November December Total 11 January February March April May	6,574 7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,5482	50,264 67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-43,690 -60,055 -109,059 -93,879 -94,094 -122,224 -122,224 -23,013 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,201 -24,336 -23,249 -24,213 -22,713	10,251 9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	57,323 75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369	-47,072 -65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-182,686 -262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -26,034 -27,165	682,138 695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	911,896 1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-229,758 -328,821 -436,104 -411,899 -468,265 -532,350 -650,933 -767,477 -817,304 -808,765 -816,199 -503,582 -44,124 -40,044 -47,211 -50,721
99 Total 1 00 Total 1 01 Total 1 02 Total 1 03 Total 1 04 Total 1 05 Total 1 06 Total 1 07 Total 1 08 Total 2 09 Total 2 09 Total 2 10 January 1 February 1 March August June July July 3 August 5 December 1 Total 2 11 January 1 February 1 March 4 April May March 4 April May	7,118 10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,5482	67,173 119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-60,055 -109,059 -93,879 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -223,713	9,880 13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	75,803 135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-65,923 -122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-262,898 -313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	695,797 781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,024,618 1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-328,821 -436,104 -411,892 -468,263 -532,350 -650,933 -767,477 -817,304 -808,763 -816,199 -503,582 -44,122 -40,044 -47,217 -50,721
00 Total 1 01 Total 1 02 Total 1 03 Total 1 04 Total 1 05 Total 1 06 Total 1 07 Total 1 08 Total 1 09 Total 1 10 January 1 February 1 March 1 April 1 July 1 August 1 September 1 December 1 Total 1 March 4	10,192 8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,346	119,251 102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,011 29,218 30,130	-109,059 -93,879 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713	13,179 12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	135,367 121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-122,188 -109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-313,916 -302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	781,918 729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,218,022 1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-436,104 -411,899 -468,263 -532,350 -650,931 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
01 Total 02 Total 02 Total 03 Total 04 Total 05 Total 06 Total 07 Total 08 Total 09 Total 09 Total 09 Total 09 Total 10 January February March June July August September October November December Total 11 January February March April March April March April March April	8,868 8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,348 4,798 5,505 5,346 5,5482	102,747 102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-93,879 -94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -22,713	12,494 11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	121,923 115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-109,429 -104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-302,470 -364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	729,100 693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,140,999 1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-411,899 -468,263 -532,350 -650,933 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
02 Total 1 03 Total 1 03 Total 1 05 Total 1 05 Total 2 06 Total 2 07 Total 2 08 Total 2 09 Total 2 10 January 2 February 3 March 4 June 3 June 3 June 3 September 0 October 1 November 1 December 1 Total 4 11 January 4 April 4 May 4 March 4 April 4 May 4	8,569 10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,5482	102,663 132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-94,094 -122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -22,713	11,541 13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	115,748 153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369	-104,207 -139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-364,056 -392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	693,103 724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,161,366 1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-468,263 -532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
03 Total	10,209 13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,346 5,346	132,433 179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,733 29,011 29,218 30,130	-122,224 -166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713	13,768 18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	153,298 206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-139,530 -188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-392,820 -462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	724,771 818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,257,121 1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-532,350 -650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
04 Total 1 05 Total 1 06 Total 1 07 Total 1 08 Total 1 09 Total 1 10 January 1 March 1 March 1 June 1 July 1 August 1 September 0 October 1 December 1 Total 1 March 4 May 4 June 4 July 4 July 4 August 5 December 1 January 4 March 4 March 4 May 4	13,130 19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,346 5,346	179,266 250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-166,136 -230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,249 -24,213 -23,713	18,642 26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	206,660 289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-188,018 -263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-462,912 -504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	818,775 905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,469,704 1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-650,930 -767,477 -817,304 -808,763 -816,199 -503,582 -44,122 -40,044 -47,217 -50,721
05 Total 2 06 Total 2 08 Total 2 09 Total 2 09 Total 2 10 January 2 March 2 April 3 June 3 July 3 September 0 October 0 November 0 December 0 Total 6 11 January 4 April 4 March 4 May 4	19,155 28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,346 5,482	250,068 299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-230,913 -271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -24,213 -23,713	26,488 34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	289,723 332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-263,235 -297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-504,242 -519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	905,978 1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,673,455 1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-767,477 -817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
06 Total 2 07 Total 2 08 Total 6 09 Total 6 10 January 7 February 7 March 7 April 7 June 7 July 7 August 8 September 7 October 7 December 7 Total 6 11 January 7 February 7 March 7 May 7 March 7 March 7 March 7 March 7 March 7	28,171 33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,482	299,714 327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-271,543 -294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713	34,711 41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	332,500 364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-297,789 -323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-519,515 -485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	1,036,635 1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,853,938 1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-817,304 -808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,721
06 Total 2 07 Total 2 08 Total 6 09 Total 6 09 Total 6 10 January 7 February 7 March 7 April 7 June 7 July 7 August 8 September 7 October 7 December 7 Total 6 11 January 7 February 7 March 7 March 7 March 7 March 7 March 7 March 7	33,293 61,695 44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,346 5,482	327,620 449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-294,327 -388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713	41,725 76,075 54,536 5,236 5,115 6,667 6,970 6,887 6,170 6,760	364,987 491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-323,262 -415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-485,501 -400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	1,148,199 1,287,442 1,056,043 92,601 93,854 110,511 102,443	1,956,962 2,103,641 1,559,625 136,725 133,898 157,728 153,163	-808,763 -816,199 -503,582 -44,124 -40,044 -47,217 -50,72
07 Total 3 08 Total 6 09 Total 6 10 January 6 February 6 March A March 4 July 10 July 10 August 5 September 0 October 10 December 10 Total 6 11 January 6 11 January 6 March 4 April 6 11 January	61,695 44,509 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,346 5,482	449,847 251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-388,152 -207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713	76,075 54,536 5,115 6,667 6,970 6,887 6,170 6,760	491,885 271,739 28,075 26,018 30,613 31,657 30,369 30,698	-415,810 -217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-400,389 -286,379 -21,285 -19,141 -23,271 -26,034 -27,165	1,287,442 1,056,043 92,601 93,854 110,511 102,443	2,103,641 1,559,625 136,725 133,898 157,728 153,163	- 816,199 - 503,582 -44,124 -40,044 -47,217 -50,721
08 Total 6 09 Total 6 09 Total 6 10 January 7 March 7 March 7 May 7 June 7 July 7 August 8 September 0 October 7 December 7 Total 6 11 January 7 February 7 March 7 April 7	44,509 4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,346 5,482	251,833 25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-207,324 -21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713	76,075 54,536 5,115 6,667 6,970 6,887 6,170 6,760	271,739 28,075 26,018 30,613 31,657 30,369 30,698	-217,203 -22,839 -20,903 -23,946 -24,687 -23,482	-286,379 -21,285 -19,141 -23,271 -26,034 -27,165	1,056,043 92,601 93,854 110,511 102,443	1,559,625 136,725 133,898 157,728 153,163	- 503,582 -44,124 -40,044 -47,217 -50,721
10 January February March April June June July August September October November December December Total	4,083 4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,482	25,234 23,666 28,549 30,016 28,733 29,011 29,218 30,130	-21,151 -19,663 -23,201 -24,336 -23,249 -24,213 -23,713	5,236 5,115 6,667 6,970 6,887 6,170 6,760	28,075 26,018 30,613 31,657 30,369 30,698	-22,839 -20,903 -23,946 -24,687 -23,482	-21,285 -19,141 -23,271 -26,034 -27,165	92,601 93,854 110,511 102,443	136,725 133,898 157,728 153,163	-44,124 -40,044 -47,217 -50,721
February March April May June July July September October November December Total 11 January February March April May	4,003 5,348 5,680 5,484 4,798 5,505 5,346 5,482	23,666 28,549 30,016 28,733 29,011 29,218 30,130	-19,663 -23,201 -24,336 -23,249 -24,213 -23,713	5,115 6,667 6,970 6,887 6,170 6,760	26,018 30,613 31,657 30,369 30,698	-20,903 -23,946 -24,687 -23,482	-19,141 -23,271 -26,034 -27,165	93,854 110,511 102,443	133,898 157,728 153,163	-40,044 -47,217 -50,721
March	5,348 5,680 5,484 4,798 5,505 5,346 5,482	28,549 30,016 28,733 29,011 29,218 30,130	-23,201 -24,336 -23,249 -24,213 -23,713	6,667 6,970 6,887 6,170 6,760	30,613 31,657 30,369 30,698	-23,946 -24,687 -23,482	-23,271 -26,034 -27,165	110,511 102,443	157,728 153,163	-47,217 -50,721
April May June July August September October November December Total 11 January February March April May	5,680 5,484 4,798 5,505 5,346 5,482	30,016 28,733 29,011 29,218 30,130	-24,336 -23,249 -24,213 -23,713	6,970 6,887 6,170 6,760	31,657 30,369 30,698	-24,687 -23,482	-26,034 -27,165	102,443	153,163	-50,721
May June July August September October December December Total 11 January February March April May	5,484 4,798 5,505 5,346 5,482	28,733 29,011 29,218 30,130	-23,249 -24,213 -23,713	6,887 6,170 6,760	30,369 30,698	-23,482	-27,165			
May June July August September October November December Total 6 11 January February March April	4,798 5,505 5,346 5,482	29,011 29,218 30,130	-24,213 -23,713	6,170 6,760	30,698			105.477		-50 647
June July August September October November December Total I1 January February March April May	4,798 5,505 5,346 5,482	29,011 29,218 30,130	-24,213 -23,713	6,170 6,760	30,698					
July August September October December Total February March May	5,505 5,346 5,482	29,218 30,130	-23,713	6,760			-36,592	107,202	168,321	-61,120
August	5,346 5,482	30,130				-24,353	-35,451	104,057	163,861	-59,804
September October December Total February April May	5,482			n (44	31,907	-25,163	-38,957	106,846	170,966	-64,120
October November December Total february March May			-21,997	6,802	28,992	-22,190	-37,244	107,644	167,078	-59,434
November December Total		27,479 25,556	-19,472	7,318	27,056	-19,738	-33,397	117,104	170,239	-53,135
December O Total										
Total 6 11 January February March April May	6,272	25,982	-19,710	7,610	27,363	-19,753	-35,966	113,046	168,765	-55,719
11 January February March April May	6,694	29,892	-23,198	8,182	31,107	-22,925	-25,888	117,480	166,293	-48,813
February March April May	64,778	333,465	-268,687	80,460	354,968	-274,508	-360,389	1,278,263	1,913,160	-634,897
March April May	7,446	33,050	-25,604	9,275	35,010	-25,735	-31,134	110,179	167,048	-56,869
April May	6,604	27,551	-20,947	8,291	29,062	-20,771	-25,897	109,647	156,315	-46,668
April May	7,841	37,096	-29,255	9,958	38,763	-28,805	-25,442	131,728	185,975	-54,247
May	9,016	36,457	-27,441	11,059	37,803	-26,744	-27,589	123,959	178,293	-54,333
	8,767	41,002	-32,235	10,795	42,470	-31,675	-33,171	124,107	188,953	-64.846
	8,032	40,872	-32,840	10,039	42,305	-32,266	-36,274	123,039	191,579	-68,540
July	9,069	38,622	-29,553	10,902	40,224	-29,322	-37,702	120,239	187,263	-67,024
August	9,912	39,063	-29,151	11,940	40,732	-28,792	-40,896	126,633	196,321	-69,688
September	9,202	36,467	-27,265	11,141	37,741	-26,600	-35,855	120,000	189,562	-62,455
October	9,202	33,467	-23,894	11,141	34,857	-23,447	-37,306	131,058	191,811	-60,753
	9,573	35,665	-26,132	11,410	36,821	-25,447	-38,944	125,899	190,263	-60,753
November		35,665	-26,132			-25,420 -25,730				
	10,501 05,499	36,831 436,145	-26,330 -330,646	12,353 128,564	38,083 453,872	-25,730 -325,308	-31,876 -402,084	126,837 1,480,432	184,443 2,207,824	-57,606 -727,39 2
12 January	8,730	37,044	-28,314	10,606	38,290	-27,684	-37,519	118,209	183,411	-65,203
February	8,605	31,171	-22,566	10,124	32,250	-22,126	-26,181	123,428	171,735	-48,307
March	9,709	37,933	-28,224	11,552	32,250	-27,385	-29,974	139,965	197,324	-48,307
			-28,224 -27,977	11,552	38,937 39,043	-27,385 -26,986		127,411		-57,358
	10,152	38,129					-35,179		189,577	
	10,056	37,835	-27,779	11,858	38,829	-26,971	-39,590	131,735	198,296	-66,561
	9,228	35,043	-25,815	11,100	35,910	-24,810	-33,876	133,018	191,704	-58,686
July	9,154	33,604	-24,450	10,887	34,683	-23,796	^R -47,011	^R 121,558	^R 192,366	^R -70,807
August	9,090	34,640	-25,550	10,748	35,594	-24,846	-41,600	128,497	194,943	-66,446
8-Month Total	74,724	285,399	-210,675	88,932	293,536	-204,604	-290,930	1,023,821	1,519,355	-495,535
11 8-Month Total	66,687	293,713 224,557	-227,026 -184,310	82,259 50,549	306,369 240,450	-224,110 -189,901	-258,105 -227,896	969,531 822,990	1,451,746 1,240,786	-482,214 -417,796

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

^b Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels. ^c Petroleum, coal, natural gas, and electricity.

R=Revised.

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

components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into Puerto Rico, and the Virgin Islands.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all

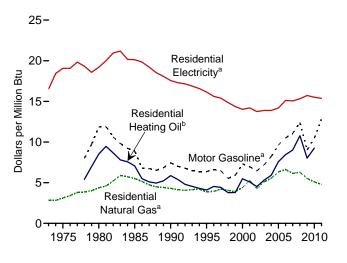
available data beginning in 1974.

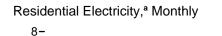
Sources: See end of section.

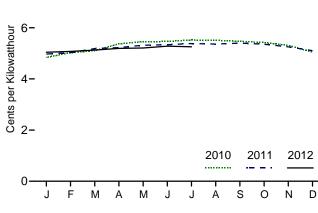


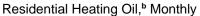
Costs, 1973-2011

Costs, July 2012

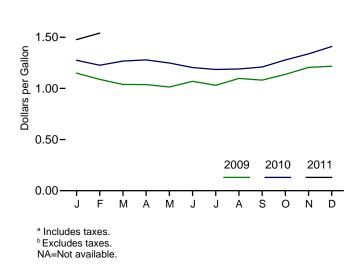


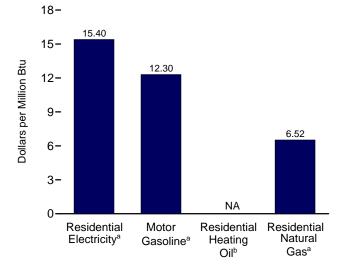


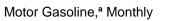


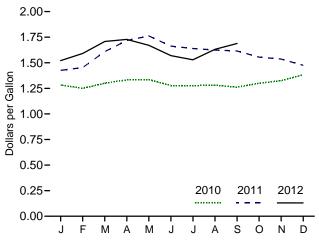


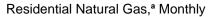
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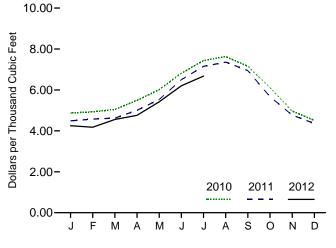












Note: See "Real Dollars" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.6.

	Consumer Price Index, All Urban Consumers ^a	Motor G	asoline ^b		dential ng Oil ^c	Resid Natura	ential I Gas ^b	Resid Electr	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 Btu
973 Average	44.4	NA	NA	NA	NA	2.90	2.85	5.6	16.50
975 Average	53.8	NA	NA	NA	NA	3.18	3.12	6.5	19.07
980 Average	82.4	1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21
985 Average	107.6	1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13
990 Average	130.7	0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56
995 Average	152.4	0.791	6.37	0.569	4.10	3.98	3.87	5.51	16.15
996 Average	156.9	0.821	6.61	0.630	4.54	4.04	3.94	5.33	15.62
997 Average	160.5	0.804	6.48	0.613	4.42	4.32	4.21	5.25	15.39
998 Average	163.0	0.684	5.51	0.523	3.77	4.18	4.05	5.07	14.85
999 Average	166.6	0.733	5.91	0.526	3.79	4.02	3.91	4.90	14.36
000 Average	172.2	0.908	7.32	0.761	5.49	4.51	4.39	4.79	14.02
001 Average	177.1	0.864	6.97	0.706	5.09	5.44	5.28	4.84	14.20
002 Average	179.9	0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
003 Average	184.0	0.890	7.18	0.736	5.31	5.23	5.09	4.74	13.89
004 Average	188.9	1.018	8.20	0.819	5.91	5.69	5.55	4.74	13.89
005 Average	195.3	1.197	9.64	1.051	7.58	6.50	6.33	4.84	14.18
006 Average	201.6	1.307	10.52	1.173	8.46	6.81	6.63	5.16	15.12
007 Average	207.342	1.374	11.06	1.250	9.01	6.31	6.14	5.14	15.05
008 Average	215.303	1.541	12.40	1.495	10.78	6.45	6.28	5.23	15.33
009 Average	214.537	1.119	9.01	1.112	8.02	5.66	5.52	5.37	15.72
10 January	216.687	1.282	10.32	1.275	9.19	4.87	4.76	4.84	14.19
February	216.741	1.250	10.06	1.226	8.84	4.93	4.82	5.02	14.73
March	217.631	1.300	10.46	1.267	9.13	5.04	4.93	5.10	14.96
April	218.009	1.333	10.73	1.278	9.22	5.49	5.37	5.37	15.74
May	218.178	1.336	10.75	1.248	9.00	6.01	5.88	5.46	16.00
June	217.965	1.277	10.28	1.203	8.68	6.82	6.66	5.46	16.01
July	218.011	1.277	10.27	1.185	8.55	7.44	7.27	5.52	16.19
August	218.312	1.280	10.31	1.190	8.58	7.63	7.46	5.51	16.15
September	218.439	1.261	10.15	1.209	8.72	7.16	7.00	5.47	16.03
October	218.711	1.300	10.46	1.278	9.21	6.11	5.98	5.42	15.89
November	218.803	1.325	10.66	1.337	9.64	4.97	4.86	5.31	15.56
December	219.179	1.383	11.13	1.409	10.16	4.51	4.41	5.05	14.79
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	4.49	4.39	4.97	14.57
February	221.309	1.453	11.69	1.540	11.11	4.58	4.47	5.02	14.73
March	223.467	1.608	12.95	NA	NA	4.62	4.52	5.19	15.20
April	224.906	1.718	13.83	NA	NA	5.01	4.89	5.22	15.31
May	225.964	1.762	14.18	NA	NA	5.53	5.41	5.32	15.58
June	225.722	1.663	13.38	NA	NA	6.50	6.35	5.34	15.65
July	225.922	1.639	13.19	NA	NA	7.15	6.99	5.38	15.77
August	226.545	1.624	13.07	NA	NA	7.36	7.19	5.36	15.72
September	226.889	1.615	13.00	NA	NA	6.95	6.79	5.40	15.82
October	226.421	1.555	12.52	NA	NA	5.67	5.54	5.36	15.70
November	226.230	1.536	12.36	NA	NA	4.77	4.66	5.25	15.39
December	225.672	1.475	11.87	NA	NA	4.36	4.26	5.10	14.96
Average	224.939	1.590	12.80	NA	NA	4.90	4.79	5.25	15.37
012 January	226.665	1.521	12.24	NA	NA	4.25	4.16	5.04	14.78
February	227.663	1.591	12.81	NA	NA	4.18	4.08	5.07	14.87
March	229.392	1.708	13.75	NA	NA	4.56	4.45	5.13	15.03
April	230.085	1.728	13.91	NA	NA	4.76	4.65	5.19	15.22
May	229.815	1.670	13.45	NA	NA	5.42	5.30	5.21	15.22
June	229.478	1.570	12.63	NA	NA	6.20	6.06	5.28	15.48
July	229.104	1.529	12.30	NA	NA	^R 6.67	^R 6.52	^R 5.26	^R 15.40
	230.379	1.632	13.13	NA	NA	NA	NA	NA	NA
August	230.379 231.407	1.632	13.13	NA NA	NA	NA	NA	NA	NA NA
September	231.407	1.009	13.39	INA	INA	INA	INA	NA NA	INA

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

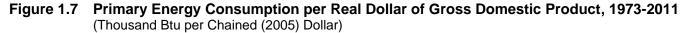
^a Data are U.S. city averages for all items, and are not seasonally adjusted.

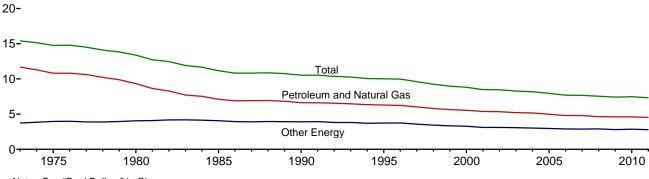
b Includes taxes.
 c Excludes taxes.

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 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	I	Gross	Energy Consum	ption per Real Do	llar of GDP
	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	4,912.8	11.67	3.73	15.41
974 Year	55.186	18.776	73.962	4,885.7	11.30	3.84	15.14
975 Year	52.680	19.284	71.965	4.875.4	10.81	3.96	14.76
976 Year	55.523	20.452	75.975	5,136.9	10.81	3.98	14.79
977 Year	57.054	20.907	77.961	5,373.1	10.62	3.89	14.51
978 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
980 Year	54.440	23.627	78.067	5,834.0	9.33	4.05	13.38
981 Year	51.680	24.426	76.106	5,982.1	8.64	4.08	12.72
982 Year	48.588	24.511	73.099	5,865.9	8.28	4.18	12.46
983 Year	47.273	25.698	72.971	6,130.9	7.71	4.19	11.90
984 Year	49.447	27.185	76.632		7.52	4.19	11.66
				6,571.5			
985 Year	48.628	27.764	76.392	6,843.4	7.11	4.06	11.16
986 Year	48.790	27.857	76.647	7,080.5	6.89	3.93	10.83
987 Year	50.504	28.551	79.054	7,307.0	6.91	3.91	10.82
988 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87
989 Year	53.811	30.975	84.786	7,879.2	6.83	3.93	10.76
990 Year	53.155	31.330	84.485	8,027.1	6.62	3.90	10.52
991 Year	52.879	31.559	84.438	8,008.3	6.60	3.94	10.54
992 Year	54.239	31.544	85.783	8,280.0	6.55	3.81	10.36
993 Year	54.973	32.450	87.424	8,516.2	6.46	3.81	10.27
994 Year	56.289	32.803	89.091	8,863.1	6.35	3.70	10.05
995 Year	57.110	33.920	91.029	9,086.0	6.29	3.73	10.02
996 Year	58.760	35.262	94.022	9,425.8	6.23	3.74	9.97
997 Year	59.382	35.221	94.602	9.845.9	6.03	3.58	9.61
998 Year	59.646	35.372	95.018	10,274.7	5.81	3.44	9.25
999 Year	60.747	35,905	96.652	10,770,7	5.64	3.33	8.97
000 Year	62.086	36.729	98.814	11,216.4	5.54	3.27	8.81
001 Year	60.958	35.210	96.168	11,337.5	5.38	3.11	8.48
002 Year	61.734	35.911	97.645	11,543.1	5.35	3.11	8.46
003 Year	61.642	36.336	97.978	11,836.4	5.21	3.07	8.28
004 Year	63.215	36.947	100.162	12.246.9	5.16	3.02	8.18
005 Year	62.953	37.328	100.182	12,240.9	4.99	2.96	7.94
	62.194	37.328	99.629	12,958.5	4.99	2.96	7.94
006 Year							
007 Year	63.437	37.859	101.296	13,206.4	4.80	2.87	7.67
008 Year	61.123	38.152	99.275	13,161.9	4.64	2.90	7.54
009 Year	58.819	35.740	94.559	12,757.9	4.61	2.80	7.41
010 Year	60.266	37.401	97.667	13,063.0	4.61	2.86	7.48
011 Year	^R 60.254	37.099	^R 97.353	13,299.1	4.53	2.79	7.32

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

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

Web Page: http://www.eia.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 (September 27, 2012), Table 1.1.6.

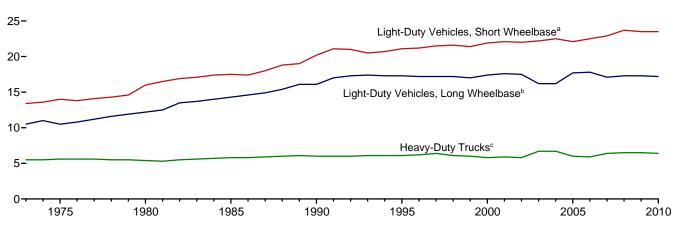


Figure 1.8 Motor Vehicle Fuel Economy, 1973-2010

(Miles per Gallon)

^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.

 $^\circ$ 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 pounds, and combination trucks.

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

Table 1.8	Motor Vehicle Mileage,	Fuel Consumption	and Fuel Economy

		ght-Duty Vehicle Short Wheelbase			ght-Duty Vehicle ong Wheelbase		He	eavy-Duty Truck	(s ^c	Α	II Motor Vehicle	s ^d
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)									
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	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	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005	12,510 12.485	567 554	22.1 22.5	10,920 10.920	617	17.7	26,235 25.231	4,385 4,304	6.0 5.9	12,082 12.017	706 698	17.1 17.2
2006	<u>12,485</u> a10,710	²⁵⁵⁴			612 b877	<u>17.8</u> ^b 17.1		4,304 ^c 4,398				
2007 2008		468	^a 22.9 23.7	^b 14,970 15,256	880		^c 28,290 28,573	4,398	6.4 6.5	11,915 11,631	693 667	17.2 17.4
2008	10,290 10,391	435 442	23.7	15,256	880	17.3 17.3	28,573 26,274	4,387 4,037	6.5 6.5	11,631	661	17.4
2009 2010 ^P	10,391	442	23.5	15,252	882	17.3	26,274 26,609	4,037 4,174	6.5	11,631	678	17.6
2010	10,049	400	23.5	10,403	030	17.4	20,009	4,174	0.4	11,055	010	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 pounds, and combination trucks. 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/totaleergy/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: • 1973-1994—Federal Highway Administration (FHWA), Highway Statistics Summary to 1995, Table VM-201A. • 1995 forward—FHWA, Highway Statistics, annual reports, Table VM-1.

			September					Cumulative rough Sept		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2011	2012	Normal to 2012	2011 to 2012	Normala	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	153	90	141	-8	57	190	106	154	-19	45
	155	90	141	-0	57	190	100	154	-19	45
Middle Atlantic New Jersey, New York,										
Pennsylvania	105	60	84	-20	40	127	67	89	-30	33
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	121	165	161	33	-2	156	182	185	19	2
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	139	188	153	10	-19	183	200	178	-3	-11
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	24	19	26	NM	NM	25	19	26	NM	NM
East South Central Alabama, Kentucky,										
Mississippi, Tennessee	32	44	40	NM	NM	33	44	41	NM	NM
West South Central Arkansas, Louisiana, Oklahoma, Texas	9	9	5	NM	NM	9	9	5	NM	NM
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	134	67	69	-49	3	183	69	74	-60	7
Pacific ^b California, Oregon, Washington	62	21	26	NM	NM	108	52	45	-58	-13
U.S. Average ^b	77	68	72	NM	NM	101	78	82	-19	5

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.

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. 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. $\bullet\,$ 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 5-1 (heating degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

			September				January	Cumulative through Se		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2011	2012	Normal to 2012	2011 to 2012	Normal ^a	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	22	80	43	NM	NM	417	606	610	46	1
	22	80	43	INIVI	INIVI	417	000	610	40	
Middle Atlantic New Jersey, New York, Pennsylvania	59	100	76	NM	NM	651	885	891	37	1
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	60	67	71	NM	NM	701	895	996	42	11
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	87	74	90	NM	NM	915	1,104	1,211	32	10
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	259	293	279	8	-5	1,757	2,152	2,017	15	-6
East South Central Alabama, Kentucky, Mississippi, Tennessee	209	192	222	6	16	1,486	1,797	1,762	19	-2
West South Central Arkansas, Louisiana, Oklahoma, Texas	345	379	371	8	-2	2,275	2,976	2,700	19	-9
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	167	209	198	19	-5	1,184	1,321	1,440	22	9
Pacific ^b California, Oregon, Washington	125	179	213	70	19	663	680	844	27	24
U.S. Average ^b	155	184	183	18	-1	1,142	1,409	1,409	23	o

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.

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

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

Petroleum Imports

1974–1987: "U.S. Merchandise Trade," 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.

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

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

Energy Exports and Imports

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

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

1989: Monthly FT-900, 1990 issues.

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

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

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

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

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

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

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

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

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

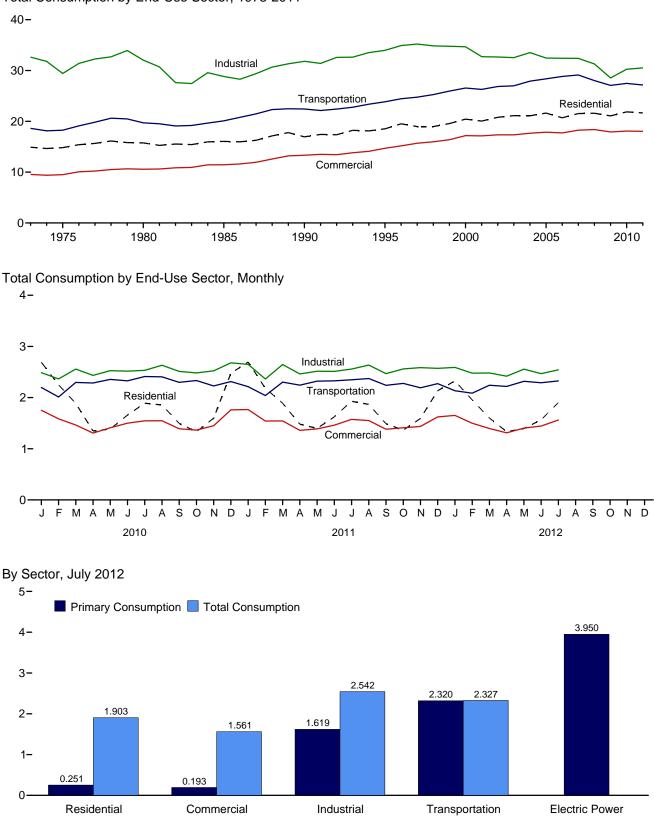
1992–2007: "U.S. International Trade in Goods and Services," Annual Revision.

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

2. Energy Consumption by Sector

Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2011



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	Sectors				Electric Power		
	Resid	ential	Comme	erciala	Indus	strial ^b	Transpo	rtation	Sector ^{c,d}	Deleveine	Duineau
	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
975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
980 Total	7,439	15,753	4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
985 Total	7,148	16,041	3,732	11,451	19,443	28,816	20,041	20,088	26,032	-4	76,392
990 Total	6,557	16,945	3,896	13,320	21,180	31,810	22,366	22,420	30,495	-9	84,485
995 Total	6,936	18,519	4,101	14,690	22,719	33,971	23,791	23,846	33,479	3	91,029
996 Total	7,467	19,504	4,273	15,172	23,410	34,904	24,383	24,437	34,485	4	94,022
997 Total	7,033	18,965	4,295	15,681	23,686	35,200	24,695	24,750	34,886	6	94,602
998 Total	6,413	18,955 19,557	4,005 4,053	15,968 16,376	23,177 22,950	34,843 34,764	25,201 25,891	25,256 25,949	36,225 36,976	-3 6	95,018 96,652
999 Total	6,775 7,159	20,425	4,055 4,278	17,175	22,950	34,764	25,691	25,949 26,548	38,062	2	96,652
000 Total	6.868	20,425	4,278	17,175	22,824	32,720	26,213	26,348	37,215	-6	96,014
002 Total	6,912	20,042	4,084	17,345	21,799	32,662	26,781	26,275	38,016	-0	97,645
002 Total	7,211	21,110	4,132	17,343	21,799	32,002	26,920	26,994	38,062	-1	97,045
2004 Total	6.993	21.093	4,232	17,659	22,412	33,520	27.817	27.895	38,713	-6	100.162
2005 Total	6,909	21,626	4,051	17,857	21,411	32,446	28,272	28,353	39,638	(s)	100,102
2006 Total	6,168	20,688	3,747	17,711	21,536	32,401	28,751	28,830	39,428	(s)	99,629
2007 Total	6,598	21,531	3,922	18,255	21,370	32,394	29,029	29,117	40,377	-1	101,296
2008 Total	6,817	21,596	4,073	18,381	20,480	31,290	27,925	28,008	39,978	(s)	99,275
2009 Total	6,619	21,064	4,061	17,899	18,813	28,525	26,989	27,071	38,077	(s)	94,559
010 January	1,142	2,691	617	1,752	1,695	2,487	2,190	2,198	3,484	4	9,132
February	985	2,250	548 419	1,585	1,601	2,365	2,004	2,012	3,073	1 -1	8,213
March	737 439	1,887 1,347	277	1,465 1,307	1,752 1,624	2,557 2,435	2,290 2,280	2,297 2.286	3,008 2,755	-1 -2	8,205 7,372
April	439 328	1,347	226	1,307	1,624	2,435 2,527	2,260	2,200	2,755		7,678
May June	268	1,659	198	1,501	1,608	2,527	2,349	2,330	3,611	(s) 2	8,008
July	240	1,889	182	1,546	1,618	2,532	2,404	2,320	3,934	4	8,383
August	232	1,855	186	1,547	1,707	2,633	2,399	2,406	3,917	4	8.445
September	237	1,494	189	1.390	1.671	2,512	2,201	2,298	3.306	(s)	7.694
October	343	1,331	256	1,364	1,644	2,482	2,327	2,333	2,942	-1	7,509
November	599	1,597	364	1,451	1,671	2,523	2,221	2,228	2,944	-1	7,797
December	1,054	2,476	579	1,761	1,802	2,679	2,307	2,314	3,488	1	9,231
Total	6,603	21,862	4,039	18,078	20,003	30,250	27,384	27,466	39,626	11	97,667
011 January	1,177	R 2,695	637	1,767	^R 1,822	^R 2,650	2,206	2,213	3,483	1	^R 9,326
February	956 777	2,182 1,889	532 449	1,541 1,545	1,599 1,791	2,363 ^R 2,647	2,033 2,296	2,039 2,303	3,006 3,070	-1 -3	8,125 ^R 8,381
March April	482	1,889	449 298	^R 1,360	1,791	2,462	2,296	2,303	2,905	-3 -2	7,543
April May	402 331	1,460	²⁹⁰ ^R 222	^R 1,388	^R 1,635	^R 2,516	2,230	2,243	2,905	-2	7,543
June	263	1,624	193	1,461	1,618	2,510	2,314	2,327	3,530	-1	^R 7,926
July	203	1,928	189	1,573	^R 1,622	R 2,557	2,320	2,348	4,012	5	8,411
August	253	1,866	205	1,550	R 1,716	R 2,635	2,366	2,373	3,885	3	8,427
September	264	1 489	211	1,382	1 638	^R 2,469	2,234	2,240	3,232	-1	7,579
October	382	^R 1,364	292	1,410	^R 1,701	^R 2,561	2,271	2,277	2,967	-2	7,610
November	^R 596	1,592	369	1,436	^R 1.736	^R 2,586	2,186	2,192	2,919	-3	7,803
December	888	2,135	505	1,622	^R 1,727	^R 2,572	2,267	2,274	3,215	-3	^R 8,600
Total	^R 6,612	^R 21,645	^R 4,102	18,032	^R 20,228	^R 30,529	^R 27,071	27,151	39,345	-5	^R 97,353
012 January	1,010	2,325	560 ^R 483	1,653 ^R 1,498	^R 1,773 ^R 1,682	2,591 ^R 2,478	2,127	2,134	3,232	-2 -3	8,701 ^R 8.015
February	849 575	1,955 1,598	∿ 483 347	1,498 1,396	[™] 1,682 ^R 1,649	[™] 2,478 ^R 2,481	2,080 2,235	2,087 2,241	2,924 2,911	-3 -5	^R 7,711
March April	575 424	1,598	⁸ 277	^R 1,396	R 1,649 R 1,593	^R 2,481	2,235 2,213	2,241 2,219	2,911 2,775	-5 -5	R 7,276
Арлі Мау	424 309	1,332	^R 218	1.403	^R 1,646	^R 2,557	2,213	2,219	2,775	-5 -3	R 7.670
June	^R 264	^R 1,566	^R 201	^R 1,403	^R 1,592	R 2,469	^R 2,284	2,319	3,100	-3 R 1	R 7,769
July	251	1.903	193	1.561	1,619	2,469	2,264	2,291	3,420 3,950	3	8.335
7-Month Total	3,682	12,073	2,279	10,266	11,553	17,536	15,571	15,617	22,407	-14	55,478
011 7-Month Total 010 7-Month Total	4,228 4,139	13,196 13,109	2,520 2,466	10,635 10,565	11,711 11,509	17,708 17,421	15,747 15,838	15,795 15,887	23,127 23,029	(s) 9	57,333 56,990

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

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

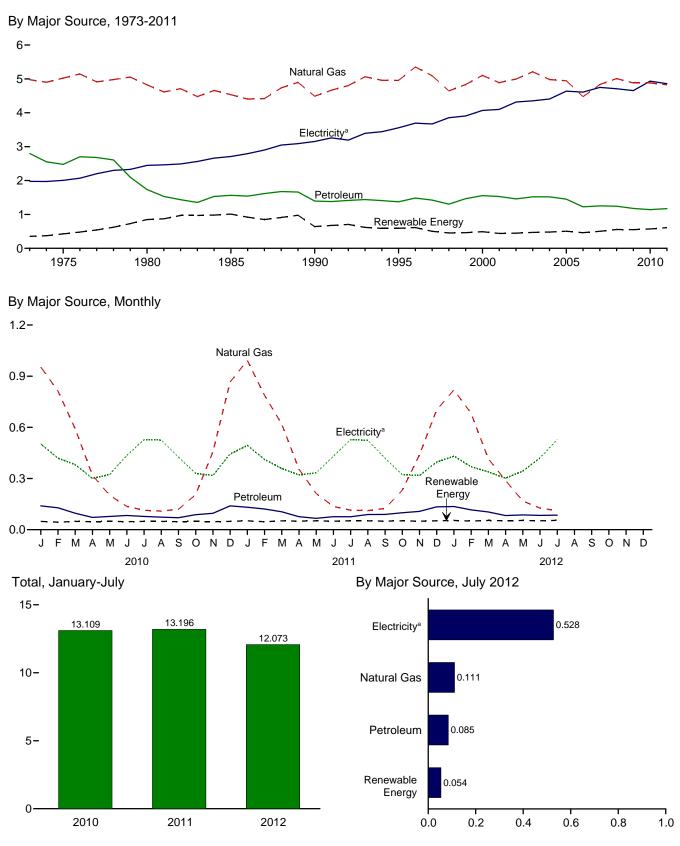
^d Through 1988, data are for electric utilities only. Beginning in 1989, data are ^d Through 1988, data are for electric utilities only.

^a Infolgin 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.

all available data beginning in 1973. 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)

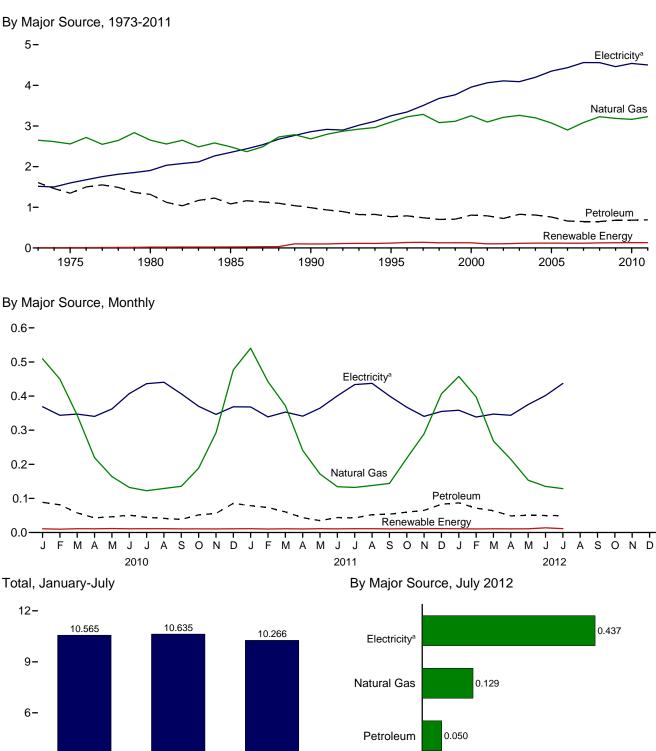
				Prima	ry Consum	otion ^a						
-		Fossil	Fuels	1		Renewat	ole Energy ^b	1		Electricity	Electrical System	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Retail Sales ^d	Energy Losses ^e	Total
973 Total	94	4,977	2,800	7,871	NA	NA	354	354	8,225	1,976	4,696	14,897
975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,817	14,813
980 Total 985 Total	31 39	4,825 4,534	1,734 1,565	6,589 6,138	NA NA	NA NA	850 1,010	850 1,010	7,439 7,148	2,448 2,709	5,866 6,184	15,753 16,041
990 Total	31	4,334	1,394	5,916	6	56	580	641	6,557	3,153	7,235	16,945
995 Total	17	4,954	1,374	6,345	7	64	520	591	6,936	3,557	8,026	18,519
996 Total	17	5,354	1,484	6,854	7	65	540	612	7,467	3,694	8,344	19,504
997 Total 998 Total	16 12	5,093 4,646	1,422 1,304	6,531 5,962	8 8	64 64	430 380	502 452	7,033 6,413	3,671 3,856	8,261 8,686	18,965 18,955
999 Total	14	4.835	1,465	6,314	9	63	390	461	6,775	3,906	8,875	19,557
000 Total	11	5,105	1,554	6,670	9	61	420	489	7,159	4,069	9,197	20,425
001 Total	12	4,889	1,529	6,430	9	59	370	438	6,868	4,100	9,074	20,042
002 Total 003 Total	12 12	4,995 5,209	1,457 1.519	6,464 6,741	10 13	57 57	380 400	448 470	6,912 7.211	4,317 4,353	9,562 9,546	20,791 21,110
004 Total	11	4,981	1,520	6,513	14	57	400	470	6,993	4,353	9,540	21,093
005 Total	8	4,946	1,451	6,406	16	58	430	504	6,909	4,638	10,079	21,626
006 Total	6	4,476	1,224	5,706	18	63	380	462	6,168	4,611	9,909	20,688
007 Total 008 Total	8 8	4,835 5,010	1,254 1,243	6,097 6,261	22 26	70 80	410 450	502 557	6,598 6,817	4,750 4,708	10,182 10,071	21,531 21,596
009 Total	8	4,883	1,176	6,067	33	89	430	552	6,619	4,656	9,789	21,064
010 January	1	953	140	1,094	3	10	36	48	1,142	503	1,045	2,691
February	1	812	128	941	3	9	32	44	985	419	846	2,250
March	1	592 320	96 72	689 392	3 3	10 9	36 35	48 47	737 439	381 300	768 608	1,887 1,347
April May	(s) (s)	201	72	280	3	9 10	35	47	439 328	300	734	1,347
June	1	137	83	221	3	.0	35	47	268	435	956	1,659
July	1	114	78	192	3	10	36	48	240	528	1,121	1,889
August	1	109	74 70	183 190	3 3	10 9	36 35	48 47	232	526 425	1,098	1,855
September October	(s) 1	120 206	88	294	3	9 10	35	47	237 343	425 330	832 658	1,494 1,331
November	1	456	96	552	3	9	35	47	599	318	680	1,597
December	1	865	140	1,006	3	10	36	48	1,054	444	978	2,476
Total	7	4,883	1,142	6,032	37	114	420	571	6,603	4,933	10,326	21,862
D11 January February	1 1	993 787	132 121	1,125 909	3 3	12 11	37 33	52 47	1,177 956	494 412	1,023 814	^R 2,695 2,182
March	1	620	105	725	3	12	37	52	777	358	754	1,889
April	(s)	355	76	432	3	12	35	50	482	321	677	1,480
May	(s) (s)	212 136	67 76	279 213	3 3	12 12	37 35	52 50	331 263	334 430	733 931	1,398 1,624
June July	(s) (s)	114	76	190	3	12	33	50 52	203	528	1.158	1.928
August	(s)	112	89	201	3	12	37	52	253	524	1,089	1,866
September	(s)	124	89	214	3	12	35	50	264	419	806	1,489
October November	(s) (s)	231 439	99 107	331 ^R 546	3 3	12 12	37 35	52 50	382 ^R 596	323 318	659 678	R 1,364 1,592
December	(5)	702	134	^R 836	3	12	35 37	50 52	888	396	851	2.135
Total	6	^R 4,824	1,171	^R 6,002	40	140	430	610	^R 6,612	4,858	10,176	R 21,645
012 January	1	820	136	956	3	14	36	54	1,010	432	884	2,325
February	1 (c)	682 416	116 104	798 520	3	13 14	34 36	51 54	849 575	369 339	737 685	1,955 1,598
March April	(s) (s)	289	83	520 372	3	14	36	54 52	575 424	339	606	1,598
May	(s)	168	87	255	3	14	36	54	309	343	741	1,394
June	(s)	127	^R 84	R 211	3	14	35	52	^R 264	421	881	^R 1,566
July 7-Month Total	(s) 3	111 2,613	85 695	197 3,310	3 23	14 99	36 250	54 372	251 3,682	528 2,733	1,124 5,658	1,903 12,073
011 7-Month Total	4	3,217	653	3,874	23	82	250	354	4,228	2,878	6,090	13,196
2010 7-Month Total	4	3,129	675	3,808	21	66	244	332	4,139	2,891	6,079	13,10

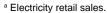
^a See "Primary Energy Consumption" in Glossary.
 ^b Data are estimates. See Table 10.2a for notes on series components.
 ^c Natural gas only: excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^d Electricity retail sales to ultimate 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. (s)=Less than 0.5 trillion Btu.
Notes: • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.
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 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)





2010

3-

0

Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.3.

2011

2012

Renewable

Energy

0.011

0.1

0.2

0.0

0.3

0.4

0.5

0.6

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

					Primary (Consump	tion ^a							
-		Fossi	l Fuels			R	enewabl	e Energy	y b			Elec-	Electrical	
	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	System Energy Losses ^g	Total
1973 Total 1975 Total 1980 Total 1980 Total 1995 Total 1997 Total 1998 Total 1998 Total 1999 Total 1999 Total	160 147 115 137 124 117 122 129 93 103	2,649 2,558 2,651 2,488 2,682 3,096 3,226 3,285 3,083 3,115 3,252	1,607 1,346 1,318 1,083 991 769 790 743 702 707 807	4,416 4,051 4,084 3,708 3,982 4,138 4,157 3,878 3,925 4,150	NA NA NA 1 1 1 1 1	NA NA NA 3 5 6 7 7 8	NA NA NA - - - -	NA NA NA - - - -	7 8 24 94 113 129 131 118 121 119	7 8 21 24 98 118 135 138 127 129 128	4,423 4,059 4,105 3,896 4,101 4,273 4,295 4,005 4,053 4,278	1,517 1,598 1,906 2,351 2,860 3,252 3,344 3,503 3,678 3,766	3,604 3,835 4,567 5,368 6,564 7,338 7,555 7,883 8,285 8,557 8,942	9,543 9,492 10,578 11,451 13,320 14,690 15,172 15,681 15,968 16,376
2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2005 Total 2007 Total 2007 Total 2008 Total 2008 Total 2009 Total	92 97 90 82 103 97 65 70 69 63	3,252 3,097 3,212 3,261 3,201 3,073 2,902 3,085 3,228 3,187	790 726 827 809 761 663 649 651 682	4,150 3,984 4,028 4,170 4,113 3,932 3,629 3,805 3,948 3,932	1 (s) 1 1 1 1 1 1	8 9 11 12 14 14 15 17	- - - - (s) (s)	- - - - - (s)	92 95 101 105 105 103 103 109 112	128 101 104 113 118 120 118 118 125 129	4,278 4,084 4,132 4,283 4,232 4,051 3,747 3,922 4,073 4,061	3,956 4,062 4,110 4,090 4,198 4,351 4,351 4,435 4,560 4,558 4,460	8,942 8,990 9,104 8,969 9,229 9,455 9,529 9,773 9,749 9,378	17,175 17,137 17,345 17,343 17,659 17,857 17,711 18,255 18,381 17,899
2010 January February April May July August September October December December Total	8 7 6 4 4 4 4 4 4 5 5 6 60	509 450 344 220 164 132 123 129 135 189 292 477 3,164	89 81 58 43 46 51 44 41 39 52 52 56 85 685	606 538 407 266 214 187 171 175 178 245 353 568 3,908	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 1 2 2 2 2 2 2 2 2 2 2 2 2 19	(s)	(s)	9 8 9 10 9 10 9 9 9 9 111	11 10 11 11 12 11 11 11 11 11 10 11 130	617 548 419 277 226 198 182 186 189 256 364 579 4,039	369 344 347 362 407 436 441 406 370 346 369 4,539	766 694 689 822 896 927 920 795 738 741 813 9,501	1,752 1,585 1,465 1,307 1,410 1,501 1,546 1,547 1,390 1,364 1,451 1,761 18,078
2011 January February March April June July August September October November December Total	7 6 4 4 3 3 3 3 4 4 5 2	540 442 372 241 134 132 138 144 218 289 406 3,228	79 73 60 43 35 44 42 52 54 60 65 83 691	626 522 438 288 210 182 178 194 201 281 358 494 R 3,971	(s)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s)	(s)	9 9 9 9 9 9 9 9 9 10 110	11 10 11 11 11 11 11 11 11 11 11 11 11 1	637 532 449 298 ^R 222 193 189 205 211 292 369 505 ^R 4,102	368 339 353 365 401 434 437 401 367 340 355 4,501	762 670 742 720 802 868 950 908 770 751 726 762 9,429	1,767 1,541 1,545 R 1,360 R 1,388 1,461 1,573 1,550 1,382 1,410 1,436 1,622 18,032
2012 January February March April May June July 7-Month Total	5 4 3 3 2 4 24	458 398 268 ^R 215 153 135 129 1,755	87 71 64 49 51 ^R 50 50 421	549 473 336 ^R 266 ^R 207 187 182 2,200	(s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 1	(s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s)	9 9 9 12 9 66	11 10 11 11 11 14 11 79	560 ^R 483 347 ^R 277 ^R 218 ^R 201 193 2,279	359 339 347 344 375 402 437 2,602	734 676 702 691 810 841 931 5,385	1,653 ^R 1,498 1,396 ^R 1,311 1,403 ^R 1,444 1,561 10,266
2011 7-Month Total 2010 7-Month Total	34 36	2,033 1,942	377 412	2,445 2,389	1 1	11 11	(s) (s)	(s) (s)	63 65	75 77	2,520 2,466	2,601 2,606	5,514 5,493	10,635 10,565

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

^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. Btu. 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.

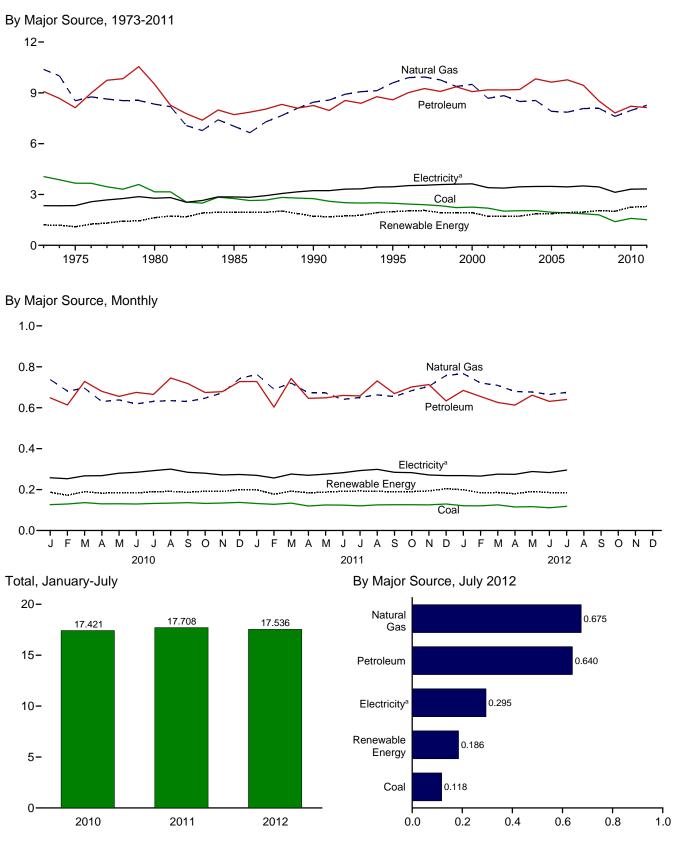


Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

^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	I 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
973 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
975 Total	3,667	8,532	8,127	20,339	32	NA	NA	NA	1,063	1,096	21,434	2,346	5,632	29,41
980 Total	3,155 2.760	8,333	9,509	20,962	33 33	NA	NA	NA	1,600	1,633 1.951	22,595	2,781	6,664	32,03
985 Total 990 Total	2,760	7,032 8.451	7,714 8,251	17,492 19.463	33	NA 2	NA	NA	1,918 1.684	1,951	19,443 21.180	2,855 3.226	6,518 7.404	28,81 31.81
995 Total	2,488	9,592	8,586	20,727	55	3	_	_	1,934	1,992	22,719	3,455	7,796	33,97
996 Total	2,434	9,901	9,019	21,377	61	3	-	-	1,969	2,033	23,410	3,527	7.968	34,90
997 Total	2,395	9,933	9,255	21,629	58	3	-	-	1,996	2,057	23,686	3,542	7,972	35,20
998 Total	2,335	9,763	9,082	21,248	55	3	-	-	1,872	1,929	23,177	3,587	8,079	34,84
999 Total	2,227	9,375	9,356	21,016	49	4	-	-	1,882	1,934	22,950	3,611	8,203	34,76
000 Total	2,256	9,500	9,075	20,896	42	4	-	-	1,881	1,928	22,824	3,631	8,208	34,66
001 Total	2,192 2,019	8,676	9,178	20,075 20,079	33 39	5 5	_	_	1,681	1,719 1,720	21,794 21,799	3,400 3,379	7,526 7,484	32,72
002 Total 003 Total	2,019	8,832 8,488	9,168 9.197	20,079	39 43	5 3	_	_	1,676 1.679	1,720	21,799	3,379	7,484	32,66 32,53
004 Total	2.047	8,550	9,825	20.559	33	4	_	_	1.817	1.853	22,412	3.473	7.635	33.52
005 Total	1,954	7,907	9,633	19,538	32	4	-	-	1,837	1,873	21,411	3,477	7,557	32,44
006 Total	1,914	7,861	9,770	19,606	29	4	-	-	1,897	1,930	21,536	3,451	7,415	32,40
007 Total	1,865	8,074	9,451	19,414	16	5	-	-	1,936	1,956	21,370	3,507	7,517	32,39
008 Total	1,796	8,083	8,511	18,431	17	5	-	-	2,028	2,049	20,480	3,444	7,365	31,29
009 Total	1,396	7,609	7,816	16,797	18	4	-	-	1,994	2,016	18,813	3,130	6,582	28,52
010 January	126	737	648	1,508	2	(s)	(s)	-	185	187	1,695	258	535	2,48
February	130	681	614	1,429	2 2	(s)	(s)	_	170	172	1,601	253	511	2,36
March April	136 130	695 630	728 680	1,562 1,441	2	(s) (s)	(s) (s)	_	188 181	190 183	1,752 1.624	267 268	538 543	2,55 2,43
May	130	638	655	1,427	2	(s)	(s)	_	183	185	1,612	280	635	2,43
June	130	619	675	1,424	1	(s)	(s)	_	182	183	1,608	284	625	2,51
July	132	631	665	1,429	1	(s)	(s)	-	188	190	1,618	292	621	2,53
August	134	635	745	1,515	1	(s)	(s)	-	190	191	1,707	300	626	2,63
September	136	630	718	1,484	1	(s)	(s)	-	185	187	1,671	284	557	2,51
October	132	647	675	1,452	1	(s)	(s)	-	190	192	1,644	280	559	2,48
November	134	672	679 728	1,479	1	(s)	(s)	_	190	191	1,671	272	581	2,52
December Total	138 1,590	742 7,959	8,210	1,602 17,753	1 16	(s) 4	(s) (s)	-	198 2,230	199 2,250	1,802 20,003	274 3,313	604 6,934	2,679 30,25 0
011 January	132	763	728	1,623	1	(s)	(s)	(s)	197	199	^R 1,822	270	558	^R 2,65
February	128	690	603	^R 1,422	2	(s)	(s)	(s)	176	178	1,599	257	508	2,363
March	134	720	743	^R 1,599	2	(s)	(s)	(s)	190	192	1,791	276	580	R 2,64
April	120	R 673	646 648	R 1,439	2	(s)	(s)	(s)	182	184 187	1,623	270	569	2,46
May June	125 124	672 ^R 641	648 660	1,447 1,426	2	(s) (s)	(s) (s)	(s) (s)	185 191	187	^R 1,635 1,618	275 282	606 611	R 2,51 2,51
July	124	650	658	1,420	1	(s) (s)	(s) (s)	(s) (s)	191	192	^R 1,622	202	642	R 2,55
August	125	^R 663	731	^R 1,524	1	(s)	(s)	(S)	191	192	^R 1,716	299	620	R 2.63
September	126	654	669	^R 1,450	1	(s)	(s)	(s)	187	188	1.638	284	546	^R 2,46
October	126	683	702	^R 1,511	1	(s)	(s)	(s)	188	190	^R 1,701	283	578	^R 2,56
November	125	^R 705	713	^R 1,542	1	(s)	(s)	(s)	192	194	^R 1,736	271	579	^R 2,58
December	130	757	633	^R 1,523	2	(s)	(s)	(s)	202	204	^R 1,727	268	576	R 2,57
Total	1,516	^R 8,272	8,135	R 17,934	18	4	(s)	(s)	2,272	2,294	^R 20,228	3,329	6,973	R 30,52
012 January	121 121	^R 766 ^R 721	685 655	1,574 ^R 1,497	2 2	(s)	(s)	(s)	197 183	199 185	^R 1,773 ^R 1,682	268 266	549 531	2,59 ^R 2,47
February March	121	R 709	626	^R 1,497	2	(s) (s)	(s) (s)	(s) (s)	183	185	^R 1,682	266 275	556	R 2,47
April	R 115	679	613	^R 1,403	2	(s) (s)	(s) (s)	(s) (s)	178	180	R 1,593	273	552	R 2,41
May	^R 117	677	661	^R 1,455	2	(s)	(s)	(s)	188	190	^R 1,646	288	622	R 2,55
June	^R 111	665	^R 631	^R 1,407	1	(s)	(s)	(0)	183	185	^R 1,592	283	593	R 2,46
July	118	675	640	1,433	1	(s)	(s)	(s)	184	186	1,619	295	628	2,54
7-Month Total	828	4,893	4,510	10,242	11	2	(s)	`1	1,297	1,311	11,553	1,951	4,032	17,53
011 7-Month Total 010 7-Month Total	883 916	4,810 4,632	4,686 4,666	10,385 10,219	11 11	2	(s) (s)	(s)	1,312 1,277	1,326 1,290	11,711 11,509	1,923 1,903	4,074 4,008	17,70 17,42

^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 on series components and estimation.
 ^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

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

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

R=Revised. NA=Not available. – =No data reported. (s)=Less than 0.5 trillion Btu.

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

States and the District of Columbia. Web Page: See http://www.eia.gov/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.

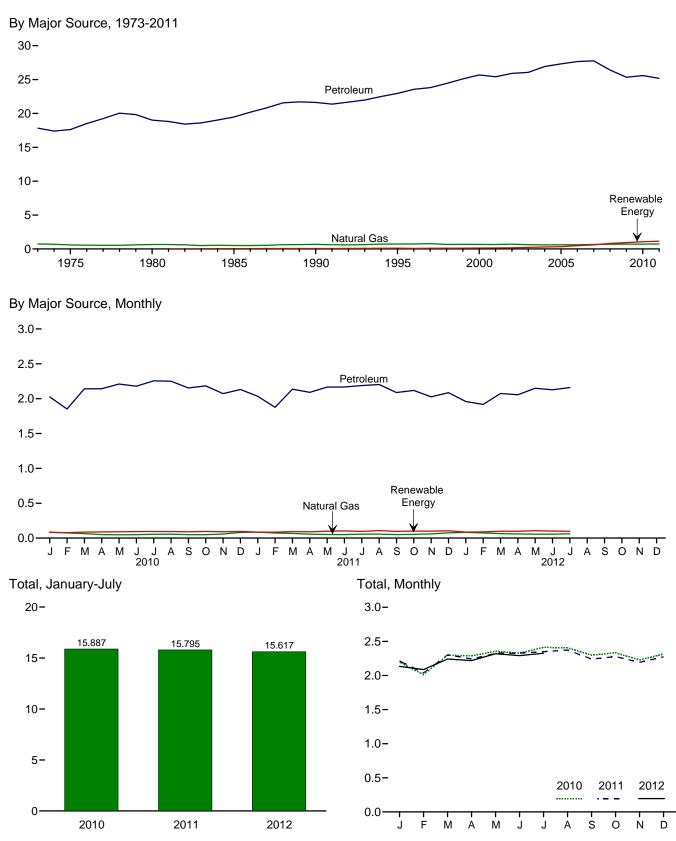


Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)

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

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Con	sumptiona			_		
		Fossi	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	(g)	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	(g)	724	22,955	23,679	112	23,791	17	38	23,846
996 Total	(°)	737	23,565	24,302	81	24,383	17	38	24,437
997 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	42	26,548
001 Total	(g)	658	25,412	26,070	142	26,213	20	43	26,275
002 Total	(°)	699	25,913	26,612	170	26,781	19	42	26,842
003 Total	(s)	627	26,063	26,690	230	26,920	23	51	26,994
004 Total	(s)	602	26,925	27.527	290	27.817	25	54	27.895
005 Total	(s)	624	27,309	27,933	339	28,272	26	56	28,353
006 Total	(a)	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	26,407	27,099	826	27,925	26	56	28,008
009 Total	(g)	715	25,339	26,054	935	26,989	27	56	27,071
010 January	(^g)	84	2,025	2,109	81	2,190	2	5	2,198
February	(g)	74	1,851	1,926	79	2,004	2	5	2,012
March	(g)	64	2,141	2,205	85	2,290	2	5	2,297
April	(9)	50	2,142	2,193	87	2,280	2	4	2,286
May	(9)	48	2,209	2,257	92	2,349	2	5	2,356
June	(g)	49	2,179	2,228	93	2,320	2	5	2,328
July	(g)	54	2,256	2,310	94	2,404	2	5	2,411
August	(9)	56	2,250	2,306	94	2,399	2	4	2,406
September	(9)	48	2,153	2,202	90	2,291	2	4	2,298
October	(g)	49	2,184	2,233	94	2,327	2	4	2,333
November	(g)	59	2,072	2,131	91	2,221	2	4	2,228
December	(g)	81	2,132	2,213	94	2,307	2	5	2,314
Total	(g)	716	25,595	26,310	1,074	27,384	26	55	27,466
011 January	(g)	86	2,035	2,120	86	2,206	2	5	2,213
February	(g)	73	1,876	1,949	84	2,033	2	4	2,039
March	(g)	67	2,136	2,203	93	2,296	2	5	2,303
April	(g) (g)	55	2,091	2,146	90	2,236	2	4	2,243
May	(9)	51	2,166	2,216	98	2,314	2	5	2,321
June		50	2,167	2,218	102	2,320	2	5	2,327
July	(g) (g)	57	2,188	2,245	96	2,341	2	5	2,348
August	(9)	57	2,203	2,260	107	2,366	2 2	4	2,373
September		50	2,088	2,138	96	2,234		4	2,240
October	(g)	53	2,118	2,171	100	2,271	2	4	2,277
November	(g)	61	2,026	2,087	99	2,186	2	4	2,192
December	(g)	75	2,086	2,161	105	2,267	2	5	2,274
Total	(g)	733	25,180	^R 25,914	1,157	^R 27,071	26	54	27,151
012 January February	(g)	82 74	1,960 1,917	2,042 1,991	86 89	2,127 2,080	2 2	5 4	2,134 2,087
March	(9)	^R 64	2.074	2.137	98	2,080	2	4	2,007
	(9)	59	2,074	2,137	98 98	2,235	2	4	2,241
April	(9)	59 56	2,056	2,115	98 107	2,213	2	4 5	2,219
May	(9)	56	^R 2,127	^R 2,205	107	R 2.284	2	5 4	2,319
June	(9)	56 62	2,160	2,183	98	2,320	2	4	2,291
July 7-Month Total	(g)	452	2,160 14,443	2,221 14,895	676	2,320 15,571	15	э 31	2,327 15,617
011 7-Month Total	(^g)	438	14,659	15,097	650	15,747	15	33	15,795
010 7-Month Total	(g)	423	14,804	15,227	611	15,838	16	33	15,887

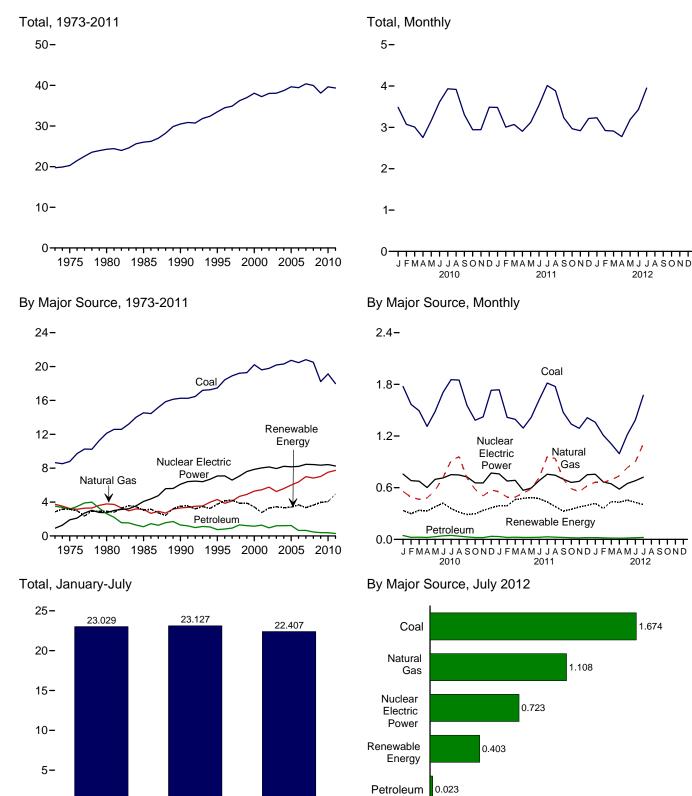
^a See "Primary Energy Consumption" in Glossary.
 ^b Data are estimates. See Table 10.2b for notes on series components.
 ^c Natural gas only; does not include supplemental gaseous fuels. See Note 3,
 "Supplemental Gaseous Fuels," at end of Section 4.
 ^d Does not include biofuels that have been blended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

 Does not include biotuels that have been blended with petroleum-blotuels are included in "Biomass."
 ^e Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 ¹ 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 calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are for the energy content of electricity retail sales. 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 Electric, 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.
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.

2011

0.0

0.5

1.0

1.5

2.0

2012

0-

2010

Table 2.6 **Electric Power Sector Energy Consumption** (Trillion Btu)

Primary Consumptiona Fossil Fuels Renewable Energy^b Elec-Hydro-electric tricity Net Nuclear Natural Petro Geo-Bio-Total Electric Solar/ Coal Gasc leum Total Power Powerd thermal ΡV Wind mass Total Imports Primary 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 1973 Total 910 19.731 3 2 49 1975 Total 20,270 1,900 21 1980 Total 12,123 3,778 2,634 18,534 2,739 2,867 NA NA 4 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 3,049 140 26,032 30,495 1990 Totale 4,302 3,862 22,523 23,109 3,149 3,528 33 33 3,747 4,153 134 33,479 34,485 1995 Total 17,466 755 7,075 138 5 5 422 1996 Total 18,429 817 148 438 137 7.087 34 31 46 1997 Total 18,905 4,126 927 23,957 6,597 3,581 150 5 446 4,216 34,886 116 1998 Total 19,216 19,279 4.675 1,306 25,197 7,068 7,610 3,241 3,218 151 5 5 444 3,872 3,874 88 36.225 453 152 99 1999 Total 4.902 25.393 36.976 2,768 57 70 3,427 2,763 5,293 5,458 26,658 7,862 2000 Total 20,220 1,144 144 453 115 38,062 2001 Total 26,348 26,511 75 72 19.614 1,277 8.029 142 6 337 37.215 19,783 8,145 105 380 3,288 38,016 2,650 147 2002 Total 6 5.767 961 2003 Total 3,445 3,340 3,406 20,185 5,246 1,205 26,636 7,959 2,781 148 5 115 397 22 38,062 39 85 2004 Total 20,305 20,737 5,595 1,212 1,235 27,112 27,986 8,222 8,161 2,656 148 6 6 142 178 388 38,713 39,638 2005 Total 6,015 2,670 147 406 8,215 8,455 8,427 2006 Total 6,375 7,005 20,462 648 27,485 2,839 145 5 264 412 3,665 63 39,428 2,430 2,494 2007 Total 20.808 657 28,470 27,810 145 6 9 341 423 3,345 107 40,377 6,829 20,513 468 546 435 3,630 112 39,978 2008 Total 146 2009 Total 18,225 7,022 390 25,638 8,356 2.650 146 9 721 441 3,967 116 38,077 45 2,377 758 217 3,484 2010 January 1,775 557 13 (s) 67 39 335 14 February 1 568 489 466 23 25 2,080 1,984 682 199 11 13 (s) 53 84 36 39 300 12 10 3,073 3,008 676 338 1,494 202 March 23 31 36 36 1,815 12 95 85 2,755 April 1,312 480 602 184 1 329 9 5 9 3,163 May .. 1,483 570 2.084 697 243 13 1 378 1,708 41 2,468 714 12 79 39 421 3,611 June 290 2 719 46 37 28 40 41 July 1.855 914 2,815 752 238 12 2 66 358 10 3,934 1,849 August 2.847 65 315 961 748 195 13 2 6 2 3.917 69 77 95 38 37 September 1,554 709 2,291 725 12 288 3,306 168 1 October 22 21 2,942 2,944 1.383 581 1,986 656 171 12 12 1 298 1 1,423 1,731 November 506 1,950 655 190 39 337 3 December 36 2.34 13 88 41 ĝ 3,488 575 367 (s) Total 19,133 7.527 378 27.039 8.434 2.521 148 12 923 459 4.064 89 39.626 1,737 552 33 2,323 760 254 14 84 38 391 9 3,483 2011 January (s) 1,417 23 26 1,931 1,912 35 38 3,006 3,070 February 491 677 239 13 14 103 390 8 8 686 103 March 491 308 463 1 23 22 33 35 April 1,293 1,851 13 2,905 535 570 307 2 2 121 476 May 14 113 12 11 589 2.027 596 321 486 3,121 25 2,364 13 2 38 3,530 June 1,621 718 682 313 473 106 July 1,816 959 940 31 25 2,805 2,741 756 13 2 2 72 72 40 39 434 16 4,012 307 August 1.776 13 383 16 746 256 3.885 September 1,475 699 22 2,196 699 209 13 2 67 37 327 10 3,232 October 1.339 589 19 17 1.946 662 194 14 2 104 36 349 10 8 2.967 36 377 1,289 553 1,860 207 120 2,919 November 674 13 1 1,413 624 20 2,057 751 239 14 102 39 396 12 December 3,215 Total 444 17,986 7,740 288 26,014 8,259 3,153 163 18 1,168 4,945 127 39,345 2012 January 663 21 2,045 757 232 14 1 135 38 420 11 3,232 1,360 35 37 February 1.210 661 17 1.888 667 201 13 14 1 108 359 9 2 9 2 4 March 1,108 692 2 10 2,911 15 1,816 645 255 132 440 April 995 737 834 14 16 1,746 2,067 584 259 13 14 3 123 33 36 432 13 15 2,775 3,188 1.217 649 281 4 457 May 121 2,304 14 34 3,428 June 1,385 899 19 681 263 5 114 429 14 July 7-Month Total 14 96 1.674 1,108 23 2.804 263 37 403 19 3,950 723 4 84 126 1,754 20 817 252 92 22,407 8.949 5,596 4,705 2,939 14,671 2011 7-Month Total 10.695 4.336 183 15.213 4.728 2.048 95 10 703 257 3.114 72 23.127 235 1,573 528 265 2,459 68 2010 7-Month Total 11,194 4,194 15,622 4,880 86 23,029

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.

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

NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • Data are for fuels consumed to produce electricity and useful thermal

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

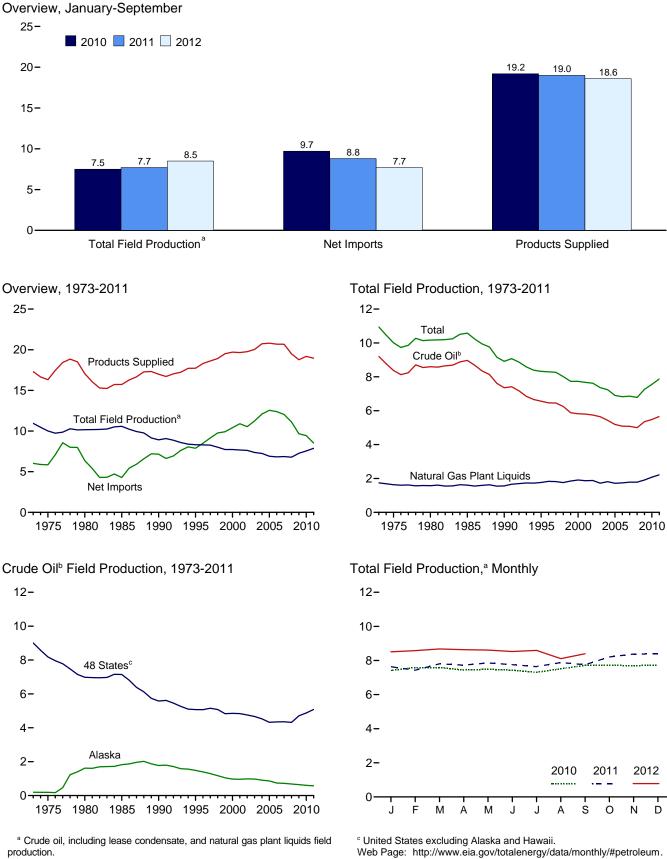
Users of EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be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



^b Includes lease condensate.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.1.

Table 3.1 **Petroleum Overview**

(Thousand Barrels per Day)

		Fie	eld Produc	tion ^a	_	Demons			Trade				
	C	Crude Oil ^b),C	-		Renew- able Fuels	Process-						Petroleum
	48 States ^d	Alaska	Total	NGPL ^{e,f}	Totalc	and Oxy- genates ^g	ing Gain ^h	lm- ports ⁱ	Ex- ports ^f	Net Imports ^j	Stock Change ^k	Adjust- ments ^{c,l}	Products Supplied
1973 Average	9,010	198	9,208	1,738	10,946	NA	453	6,256	231	6,025	135	18	17,308
1975 Average	8,183	191	8,375	1,633	10,007	NA	460	6,056	209	5,846	32	41	16,322
1980 Average	6,980	1,617	8,597	1,573	10,170	NA	597	6,909	544	6,365	140	64	17,056
1985 Average	7,146	1,825	8,971	1,609	10,581	NA	557	5,067	781	4,286	-103	200	15,726
1990 Average	5,582	1,773	7,355	1,559	8,914	NA	683	8,018	857	7,161	107	338	16,988
1995 Average	5,076	1,484	6,560	1,762	8,322	NA	774	8,835	949	7,886	-246	496	17,725
1996 Average	5,071	1,393	6,465	1,830	8,295	NA	837	9,478	981	8,498	-151	528	18,309
1997 Average	5,156	1,296	6,452	1.817	8,269		850	10,162	1,003	9,158	143	487	18,620
1998 Average	5,077	1,175	6,252	1,759	8,011	NA	886	10,708	945	9,764	239	495	18,917
1999 Average	4,832	1,050	5,881	1,850	7,731	NA	886	10,852	940	9,912	-422	567	19,519
2000 Average	4,851	970	5.822	1,911	7,733	NA	948	11,459	1,040	10.419	-69	532	19,701
2001 Average	4,839	963 985	5,801	1,868	7,670	NA	903 957	11,871	971 984	10,900 10,546	325 -105	501 529	19,649
2002 Average	4,759 4,670	974	5,744 5,644	1,880 1,719	7,624 7,363	NA	974	11,530 12,264	1,027	11,238	56	514	19,761 20,034
2004 Average	4,527	908	5,435	1,809	7,244	NA	1,051	13,145	1,048	12,097	209	548	20,731
2005 Average	4,322	864	5,186	1,717	6.903	NA	989	13,714	1,165	12,549	145	506	20,802
2006 Average	4,348	741 722	5,089 5.077	1,739 1,783	6,827 6,860	NA	994 996	13,707	1,317 1,433	12,390 12.036	60 -148	536 641	20,687 20.680
2007 Average 2008 Average	4,355 4,318	683	5,000	1,784	6,784	NA	993	13,468 12,915	1,802	11,114	195	802	19,498
2009 Average	4,708	645	5,353	1,910	7,263	746	979	11,691	2,024	9,667	109	226	18,771
2010 January	4,758	640	5,399	2,017	7,416	846	961	11,300	1,897	9,404	309	334	18,652
February	4.911	635	5,546	2,043	7,589	874	1,060	11,230	2,034	9,197	-46	85	18,850
March	4,867	646	5,513	2,076	7,589	895	1,064	11,621	2,149	9,472	77	156	19,099
April	4,738	640	5,377	2,061	7,438	878	1,028	12,526	2,432	10,093	762	368	19,044
May	4,827	571	5,398	2,091	7,489	893	1,069	12,141	2,399	9,742	661	334	18,866
June	4,849	534	5,384	2,046	7,430	905	1,085	12,444	2,304	10,140	373	350	19,537
July	4,769	545	5,313	1,994	7,307	906	1,109	12,675	2,516	10,159	440	279	19,319
August	4,906	538	5,445	2,071	7,515	911	1,123	12,356	2,410	9,946	214	380	19,662
September	4,994	614	5,608	2,104	7,712	915	1,062	11,823	2,345	9,478	-23	249	19,438
October	4,978	618	5,596	2,125	7,721	924	1,012	11,142	2,480	8,662	-451	203	18,974
November	4,952	606	5,558	2,136	7,694	967	1,051	11,096	2,598	8,498	-667	100	18,977
December	4,982	632	5.614	2,124	7,739	961	1,187	11,132	2.644	8,488	1.068-	279	19,722
Average	4,877	601	5,479	2,074	7,553	907	1,068	11,793	2,353	9,441	49	261	19,180
2011 January	^R 5,042	479	^R 5,521	2,114	^R 7,636	982	1,019	12,248	2,750	9,497	484	^R 343	18,993
	4,811	611	5,422	2,009	7,431	972	954	10,738	2,634	8,104	-1,033	380	18,873
February March	4,980	631	5,611	2,195	7,806	1,002	1,019	11,850	2,733	9,117	-139	246	19,329
April	4,936	606	5,542	2,186	7,728	996	1,013	11,808	3,071	8,736	105	282	18,650
May	5.022	601	5.623	2.234	7.857	992	1.085	11.866	2,735	9.131	884	298	18,479
June	5,017	553	5,570	2,188	7,758	1,015	1,106	11,877	2,716	9,161	59	272	19,253
	4,967	468	5,435	2,206	7.642	1,004	1,122	11,757	3.053	8,704	231	537	18,778
July August	5,108	544	5,651	2,227	7,879	1,027	1,133	11,227	3,002	8,224	-644	507	19,415
September	4,996	585	^R 5,580	2,171	7,751	1,011	1,123	11,270	3,174	8,095	^R -492	419	^R 18,892
October	5,310	585	^R 5,895	2,313	8,208	1,023	1,084	11,053	3,107	7,946	-371	^R 213	18,844
November	^R 5,408	593	^R 6,001	2,373	^R 8,374	1,076	1,113	11,217	3,159	8,059	23	^R 481	19,080
	^R 5,411	611	^R 6,023	2,358	^R 8,381	1,085	1,134	11,064	3,667	7,397	-646	^R 159	18,803
December Average	5,086	572	5,658	2,338 2,216	7,874	1,016	1,076	11,504	2,986	8,518	-040 -121	344	18,949
	RE 5,520	E 612	RE 6,132	2,376	RE 8,508	1,021	1,053	10,944	2,839	8,104	655	R 249	18,280
March	RE 5,609	^E 582	^{RE} 6,191	2,388	^{RE} 8,579	1,012	1,068	10,464	2,980	7,484	-228	^R 389	18,760
	RE 5,735	^E 567	^{RE} 6,302	2,375	^{RE} 8,677	994	1,023	10,610	3,064	7,547	409	^R 380	18,213
April	RE 5,699	E 553	^{RE} 6,252	2,382	^{RE} 8,634	1,001	1,047	10,634	3,263	7,370	-18	^R 259	18,330
	RE 5,691	E 546	^{RE} 6,237	2,376	^{RE} 8,613	1,018	1,089	11,132	3,194	7,939	524	^R 573	18,707
June	^{RE} 5.699	E 493	^{RE} 6.192	2.335	RE 8,527	1,004	1.099	11,393	3,209	8,184	493	^R 595	18,915
July	RE 5,852	RE 415	RE 6,267	R 2,323	^{RE} 8,590	^R 929	^R 1,060	^R 10,748	^R 3,211	^R 7,537	^R 33	^R 517	^R 18,601
August	E 5,634	E 403	E 6,037	E 2,072	^E 8,109	E 905	^E 1,116	^E 10,781	^E 2,865	^E 7,916	^E -403	^E 703	^E 19,152
September	E 5,770	E 500	E 6,270	E 2,123	^E 8,393	^E 887	^E 1,072	^E 10,544	E 2,904	^E 7,640	^E 215	E 614	E 18,391
9-Month Average	E 5,690	E 519	E 6,209	E 2,305	^E 8,514	^E 975	^E 1,070	^E 10,807	E 3,059	E 7,749	^E 189	E 476	E 18,594
2011 9-Month Average	4,988	564	5,552	2,172	7,724	1,000	1,065	11,636	2,876	8,760	-49	365	18,964
2010 9-Month Average	4,846	596	5,441	2,056	7,497	892	1,062	12,019	2,278	9,741	311	283	19,164

^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.

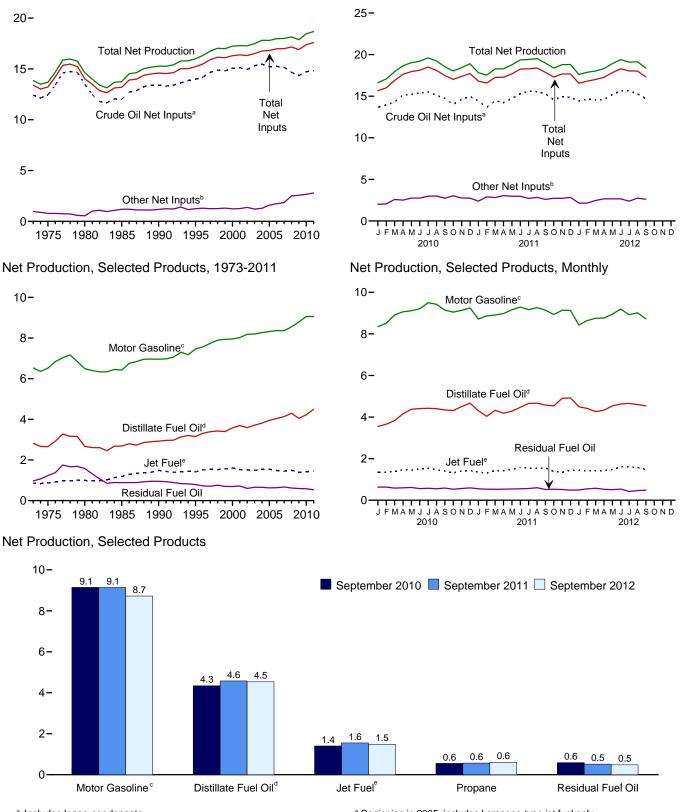
Includes Strategic Petroleum Reserve imports. See Table 3.3b.

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, 1973-2011

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)

	Refin	ery and Ble	ender Net l	nputs ^a			Refinery	and Blen	der Net Proc	duction ^b		
							LPG)c				
	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 15,128	380 429	849 825	16,295 16,382	3,580 3,695	1,606 1,530	583 556	705 667	7,951 8,022	696 721	2,705 2,651	17,243 17,285
2001 Average	14,947	429	941	16,302	3,595	1,530	572	671	8,183	601	2,051	17,205
2002 Average	15,304	419	791	16,513	3,707	1,488	570	658	8,194	660	2,780	17,487
2003 Average	15,475	413	866	16,762	3,814	1,400	584	645	8,265	655	2,887	17,814
2005 Average	15,220	441	1,149	16,811	3,954	1,546	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 January	13,666	503	1,501	15,670	3,551	1,338	531	480	8,348	633	2,281	16,631
February	13,950	402	1,654	16,005	3,658	1,340	562	540	8,510	632	2,385	17,065
March	14,314	413	2,166	16,893	3,835	1,379	575	726	8,913	581	2,523	17,957
April	15,131	374 399	2,135 2,348	17,640	4,156	1,470 1,449	585	850 857	9,062	598 615	2,531	18,668
May	15,215 15,382	399 397	2,340 2,349	17,963 18,127	4,375 4,408	1,449	571 572	870	9,113 9,211	559	2,622 2,670	19,031 19,212
June	15,562	384	2,349	18,498	4,408	1,495	572	860	9,211	576	2,070	19,212
July	15,110	304	2,595	18,107	4,425	1,342	552	778	9,300	554	2,704	19,007
August September	14,740	443	2,007	17,477	4,341	1,403	551	614	9,143	588	2,003	18,539
October	14.000	504	2,517	17,021	4,315	1,317	526	501	9.049	528	2,323	18,033
November	14,637	531	2,223	17,391	4,503	1,394	543	390	9,134	564	2,457	18,442
December	14.976	563	2,185	17,724	4,670	1,417	572	430	9.252	595	2,547	18,911
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 15,589	444 417	2,522 2,288	18,260 18,294	4,471 4.656	1,568 1,550	567 557	847 820	9,289 9,166	553 563	2,638 2,661	19,366 19,416
July August	15,556	417	2,200	18,388	4,668	1,543	553	791	9,100	604	2,652	19,410
September	15,275	494	2,390	17,870	4,576	1,543	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	14,842	566	2,270	17,678	4,919	1,449	566	368	9,128	486	2,462	18,812
Average	14,806	490	2,300	17,596	4,492	1,449	552	619	9,058	537	2,518	18,673
2012 January	14,415	513	1,633	16,561	4,498	1,437	518	414	8,427	495	2,343	17,613
February	14,659	531	1,618	16,809	4,416	1,401	532	492	8,645	547	2,375	17,876
March	14,545	445	2,022	17,012	4,262	1,412	545	685	8,753	577	2,347	18,035
April	14,614	443	2,215	17,272	4,330	1,433	558	833	8,763	525	2,436	18,319
May	15,177	429	2,228	17,833	4,537	1,468	569	856	8,952	509	2,601	18,922
June	15,632 ^R 15,656	442 ^R 435	2,222 ^R 1,944	18,297 ^R 18,036	4,632 ^R 4,659	1,609 ^R 1,611	585 ^R 565	841 ^R 841	9,193 ^R 8.921	538 ^R 420	2,582 ^R 2,644	19,396 ^R 19,096
July	E 15,656	^{RF} 454	^{RE} 2,297	^{RF} 18,036	E 4,604	E 1,566	RE 608	F 785	E 9.013	E 465	RE 2,708	RE 19,096
August September	E 14,696	F 503	E 2.109	F 17,308	E 4,604	^E 1,485	E 609	F 596	E 8,723	E 482	E 2,558	E 18,380
9-Month Average	E 14,965	E 466	E 2,033	E 17,464	E 4,498	E 1,403	E 565	E 706	E 8,821	E 506	E 2,511	E 18,534
2011 9-Month Average	14,812	466	2,334	17,612	4,393	1,469	551	690	9,055	547	2,524	18,677
2010 9-Month Average	14,787	412	2,188	17,387	4,131	1,432	564	732	9,030	592	2,531	18,449

See "Refinery and Blender Net Inputs," in Glossary. See "Refinery and Blender Net Production," in Glossary. Liquefied petroleum gases. b

c 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 exygenates (net), including fuel ethanol. Beginning in 2009, also includes renewable diesel fuel (including biodiesel).
 ^g Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

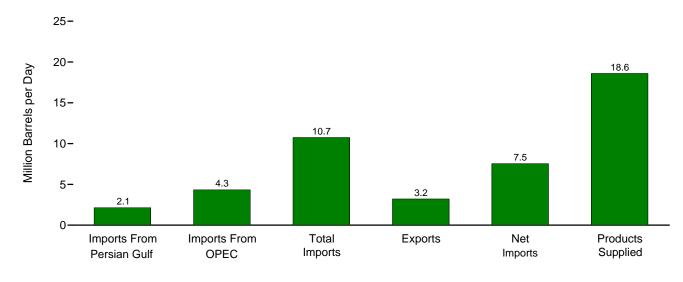
^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Products."

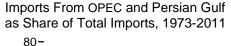
¹ Includes propylene. ^j Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

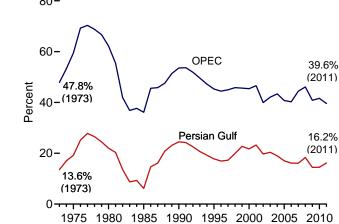
^k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel.
 R=Revised. E=Estimate. F=Forecast.
 Notes: - Totals may not equal 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 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. • 1976-1980: U.S. Energy Information, State, 9191: 121A, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

Figure 3.3a Petroleum Trade: Overview

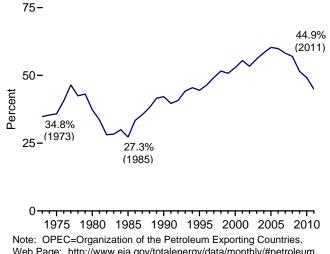
Overview, July 2012





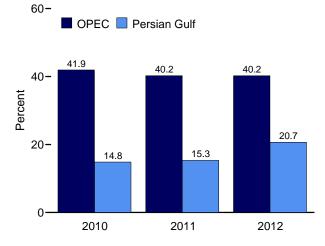


Net Imports as Share of Products Supplied, 1973-2011



Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.3a.

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



Net Imports as Share of Products Supplied, January-September

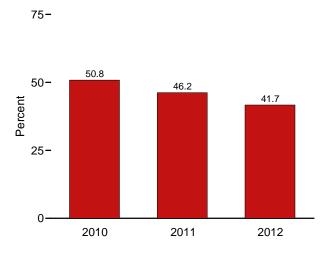


Table 3.3a Petroleum Trade: Overview

-	Imports From Persian											
	Gulfa	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	urrels per Da	y				Pei	rcent		
973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
975 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	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
995 Average	1,573	4,002	8,835	949	7,886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
996 Average	1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
997 Average	1,755	4,569	10,162	1,003	9,158	18,620	9.4	24.5	54.6	49.2	17.3	45.0
998 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	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	2,488 2.761	5,203 5,528	11,459 11.871	1,040 971	10,419 10.900	19,701 19.649	12.6 14.1	26.4 28.1	58.2 60.4	52.9 55.5	21.7 23.3	45.4 46.6
001 Average	2,761	5,528 4.605	11,871	971 984	10,900	19,649	14.1	28.1	60.4 58.3	53.5 53.4	23.3	46.6 39.9
002 Average	2,269	4,605	11,530	984 1.027	10,546	20,034	11.5	23.3	58.3 61.2	53.4 56.1	20.4	39.9 42.1
003 Average	2,501	5,162	12,204	1,027	12,097	20,034 20,731	12.5	25.6	63.4	58.4	20.4	42.1
005 Average	2,493	5,587	13,714	1,165	12,097	20,731	11.2	26.9	65.9	60.3	17.0	43.4
006 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	1,689	4,776	11,691	2,024	9,667	18,771	9.0	25.4	62.3	51.5	14.4	40.9
010 January	1,563	4,554	11,300	1,897	9,404	18,652	8.4	24.4	60.6	50.4	13.8	40.3
February	1,666	4,659	11,230	2,034	9,197	18,850	8.8	24.7	59.6	48.8	14.8	41.5
March	1,842	5,084	11,621	2,149	9,472	19,099	9.6	26.6	60.8	49.6	15.9	43.7
April	2,026	5,376	12,526	2,432	10,093	19,044	10.6	28.2	65.8	53.0	16.2	42.9
May	1,724	5,055	12,141	2,399	9,742	18,866	9.1	26.8	64.4	51.6	14.2	41.6
June	1,972 1,679	5,297	12,444 12,675	2,304 2,516	10,140 10,159	19,537	10.1 8.7	27.1 26.8	63.7	51.9 52.6	15.8 13.2	42.6 40.8
July	1,663	5,178 5,117	12,075	2,310	9,946	19,319 19,662	8.5	26.0	65.6 62.8	52.6	13.2	40.8
August September	1,698	5,111	11,823	2,410	9,478	19,438	8.7	26.3	60.8	48.8	14.4	43.2
October	1,490	4,305	11,142	2,480	8,662	18,974	7.9	20.5	58.7	45.7	13.4	38.6
November	1.662	4,525	11,096	2,598	8,498	18,977	8.8	23.8	58.5	44.8	15.0	40.8
December	1,564	4.614	11,132	2,644	8,488	19,722	7.9	23.4	56.4	43.0	14.0	41.4
Average	1,711	4,906	11,793	2,353	9,441	19,180	8.9	25.6	61.5	49.2	14.5	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 2,033	4,619 4,894	11,866 11,877	2,735 2,716	9,131 9,161	18,479 19,253	10.0 10.6	25.0 25.4	64.2 61.7	49.4 47.6	15.5 17.1	38.9 41.2
June	2,033	4,894 4,939	11,877	3,053	9,161 8,704	19,253	10.6	25.4 26.3	62.6	47.6	17.1	41.2
July August	2,167	4,939 4,656	11,227	3,053	8,704 8,224	19,415	9.8	26.3	62.6 57.8	40.4	16.4	42.0
September	2,039	4,000	11,270	3,002	8,095	^R 18,892	10.8	24.0	59.7	42.4	18.1	38.4
October	1,904	4,296	11,053	3,107	7,946	18,844	10.0	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 4,314	10,464 10,610	2,980 3,064	7,484 7,547	18,760 18,213	10.4 12.2	21.2 23.7	55.8	39.9 41.4	18.6 20.9	38.1 40.7
March	2,222 2,228	4,314 4,394	10,610	3,064	7,347	18,330	12.2	23.7	58.3 58.0	41.4	20.9	40.7
April	2,228 2,560	4,394 4,672	11,132	3,263 3,194	7,939	18,330	12.2	24.0 25.0	58.0 59.5	40.2	21.0	41.3
May June	2,300	4,618	11,393	3,194	8,184	18,915	12.6	25.0	60.2	42.4	20.9	42.0
July	^R 2,131	^R 4,331	^R 10,748	^R 3,211	^R 7,537	^R 18,601	R 11.5	R 23.3	^R 57.8	^R 40.5	R 19.8	R 40.3
August	NA	NA	E 10,781	E 2,865	E 7.916	E 19,152	NA	NA	E 56.3	E 41.3	NA	NA
September	NA	NA	E 10,544	E 2,904	E 7,640	E 18,391	NA	NA	E 57.3	E 41.5	NA	NA
9-Month Average	NA	NA	E 10,807	E 3,059	E 7,749	E 18,594	NA	NA	E 58.1	E 41.7	NA	NA
011 9-Month Average 010 9-Month Average	1,841 1,759	4,676 5,050	11,636 12,019	2,876 2,278	8,760 9,741	18,964 19,164	9.7 9.2	24.7 26.3	61.4 62.7	46.2 50.8	15.8 14.6	40.2 42.0

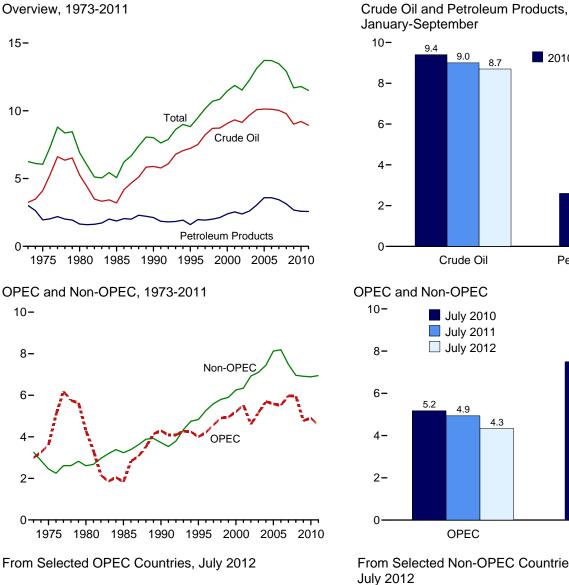
^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. See Table 3.3c for notes on which countries are included in the data. R=Revised. E=Estimate. NA=Not available.
 Notes: • Readers of this table may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 *Monthly Energy Review.* See http://www.eia.gov/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

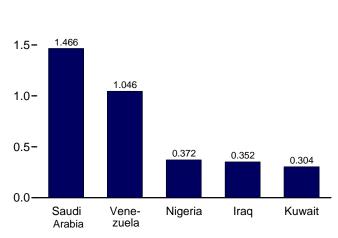
District of Columbia. U.S. exports include shipments to U.S. territories, and imports

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. • 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: EIA, *Petroleum Status Report,* for the current two months, *Weekly Petroleum Status Report,* data system and *Monthly Energy Review* data system calculations.

Figure 3.3b Petroleum Trade: Imports

(Million Barrels per Day)

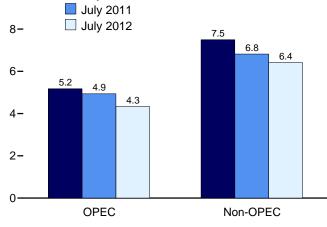




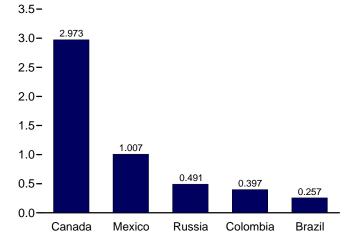
Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b-3.3d.

January-September 9.4 9.0 2010 2011 2012 8.7 2.6 2.6 2.1 Crude Oil Petroleum Products





From Selected Non-OPEC Countries,



U.S. Energy Information Administration / Monthly Energy Review October 2012

2.0-

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	Other ^h	Total	Crude Oil ^a	Petroleum Products	Total
1973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
975 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
980 Average	44	5,263	142	80	69	216	140	939	130	6,909	287	258	544
985 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	577	781
990 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
995 Average	-	7,230	193	106	102	146	265	187	708	8,835	95	855	949
996 Average	-	7,508	230	111	119	166	336	248	879	9,478	110	871	981
997 Average	-	8,225	228	91	113	169	309	194	945	10,162	108	896	1,003
998 Average		8,706	210 250	124	137 122	194 182	311	275 237	888 943	10,708	110	835 822	945 940
999 Average	8 8	8,731 9.071	250	128 162	122	215	382 427	352	943 938	10,852 11,459	118	822 990	940 1.040
000 Average	0 11	9,071	295	148	145	215	427	295	938 1,095	11,459	20	990 951	971
001 Average	16	9,328	267	140	145	183	498	295	1,095	11,530	20	975	984
003 Average	_10	9,665	333	109	168	225	518	327	1,087	12,264	12	1,014	1,027
004 Average	77	10.088	325	109	209	263	496	426	1.419	13,145	27	1.021	1.048
005 Average	52	10,126	329	190	233	328	603	530	1.609	13,714	32	1,133	1,165
006 Average	8	10,118	365	186	228	332	475	350	1,881	13,707	25	1,292	1,317
007 Average	7	10,031	304	217	182	247	413	372	1,885	13,468	27	1,405	1,433
2008 Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,802
009 Average	56	9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,024
010 January	-	8,492	462	131	192	225	179	376	1,435	11,300	33	1,864	1,897
February	-	8,761	293	75	217	242	196	382	1,282	11,230	58	1,976	2,034
March	-	9,341	179	79	137	155	120	376	1,370	11,621	45	2,104	2,149
April	-	9,726	220	88	79	102	178	480	1,732	12,526	37	2,396	2,432
May	-	9,655	189	81	82	108	107	404	1,599	12,141	36	2,363	2,399
June	-	9,927	237	114	73	113	163	283	1,607	12,444	31	2,273	2,304
July	-	9,932	170	113	56	104	114	400	1,841	12,675	69	2,447	2,516
August	-	9,543	246	103	62	107	129	330	1,899	12,356	36	2,374	2,410
September	_	9,229	189	122 94	85	124	130	367	1,662	11,823	61	2,283	2,345
October	_	8,540 8,699	163 178	94 101	131 132	165	86 117	337 345	1,758	11,142 11,096	23 32	2,457 2,567	2,480 2,598
November	_	8,695	219	73	214	165 231	99	345 315	1,491 1,501	11,132	40	2,507	2,596 2,644
December Average	_	9,213	219	98	121	153	134	366	1,600	11,793	40	2,004 2,311	2,044 2,353
011 January	_	9,183	337	65	235	290	102	411	1,860	12,248	72	2,678	2,750
February	_	8,184	206	68	220	266	119	364	1,532	10,738	30	2,604	2,634
March	_	9,183	190	65	205	260	135	378	1,639	11,850	36	2,696	2,733
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	148	66	123	167	106	231	1,573	11,227	34	2,969	3,002
September	-	8,914	179	58	141	176	99	277	1,567	11,270	35	3,139	3,174
October	-	8,907	128	61	129	166	66	286	1,440	11,053	51	3,057	3,107
November	-	8,724	138	72	152	191	74	341	1,677	11,217	64	3,094	3,159
December Average	-	8,711 8,935	175 179	21 69	210 158	258 202	60 1 05	330 328	1,509 1,686	11,064 11,504	53 47	3,614 2,939	3,667 2,986
-	_	8,572	156	6	145	168	99	305	1,637	10,944	56	2,783	2,839
012 January February	_	8,572	142	41	145	155	99 46	226	1.296	10,464	59	2,783	2,839
March	_	8,558	136	5	125	136	91	220	1,290	10,610	60	3.004	3.064
April	_	8,591	98	56	102	129	53	240	1,205	10,634	32	3,231	3,263
May	_	8.909	111	49	172	218	60	251	1,534	11,132	69	3,124	3,194
June	_	9,101	87	42	133	170	66	325	1,602	11,393	46	3,163	3,209
July	_	^R 8,606	R 113	R 48	^R 148	R 182	R 52	R 247	R 1,501	^R 10,748	R 77	^R 3,134	R 3,211
August	_	E 8,613	E 113	E 70	E 83	NA	E 31	E 248	NA	E 10,781	E 40	E 2,825	E 2,865
September	-	E 8,497	E 116	E 84	E 99	NA	E 52	E 248	NA	E 10,544	E 41	E 2,863	E 2,904
9-Month Average	-	^E 8,691	E 119	E 44	^E 124	NA	E 61	E 262	NA	E 10,807	E 54	^E 3,005	^E 3,059
011 9-Month Average	-	8,987	189	74	157	201	118	332	1,734	11,636	44	2,832	2,876
010 9-Month Average	_	9,405	242	101	108	141	146	378	1,606	12,019	45	2,233	2,278

^a Includes lease condensate.
 ^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 2005, includes kerosene-type if fuel only; naphtha-type jet fuel is included in "Other."

"Other." ^f Includes propylene. ^g Finished motor gasoline. Through 1980, also includes motor gasoline blending components. ^h Asphalt and road oil, finished aviation gasoline, gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Beginning in 2005, also includes

naphtha-type jet fuel.

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

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/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: EIA, *Petroleum Status Report* data system and *Monthly Energy Review* data system calculations. 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
1980 Average	488	2a	27	28	27	554	857	1,261	481	577	4,300
	187	a	67	46	21	4	293	168	605	439	1,830
1985 Average	280	(a)	49	518	86	ö	800	1,339	1,025	199	4,296
1990 Average			(^b)	0		0	627	1,339		98	4,290
1995 Average	234 256			1	218 236	Ö	617	1,344	1,480	62	4,002
1996 Average			(b)	89	250	0	698	1,303	1,676		4,211
1997 Average	285	(-) (a)	{ b }		301	Ö	696		1,773	64 73	
1998 Average	290		(^b)	336		-		1,491	1,719		4,905
1999 Average	259	(a)		725	248	0	657	1,478	1,493	93	4,953
2000 Average	225	(a) (a)		620	272	0	896	1,572	1,546	72	5,203
2001 Average	278			795	250	0	885	1,662	1,553	105	5,528
2002 Average	264	(a)	(b) (b)	459	228	0	621	1,552	1,398	83	4,605
2003 Average	382	(a)		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	(b)	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 January	498	280	215	523	77	40	1,048	963	911	-	4,554
February	498	360	152	540	228	40	932	898	1,010	-	4,659
March	455	502	183	475	218	79	962	1,149	1,061	-	5,084
April	464	509	225	490	278	142	1,060	1,257	951	-	5,376
May	518	448	182	394	225	39	1,026	1,097	1,117	10	5,055
June	550	425	245	630	217	98	1,108	1,125	899	-	5,297
July	518	374	239	430	189	110	1,174	1,053	1,084	7	5,178
August	565	484	276	281	251	123	985	1,132	1,022	-	5,117
September	543	417	229	422	172	43	1,174	1,093	1,008	10	5,111
October	451	324	203	143	215	36	872	1,131	930	_	4,305
November	572	276	194	340	170	23	856	1,152	942	_	4,525
December	484	319	192	336	125	66	1,070	1,093	917	9	4,614
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
7-Month Average	213 266	205 278	189	446	304 325	62	433	1,400	895	11	4,362
2011 7-Month Average	426	340	198	457	168	23	918	1,162	1,021	15	4,728
2010 7-Month Average	420 500	414	206	496	204	78	1,046	1,079	1,021	2	5,031

 ^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 0.2 Table 3.3d.

^c Imports from the Neutral Zone are reported as originating in either Saudi

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 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 htp://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: 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
1985 Average	61	770	23	816	58	32	8	310	247	913	3,237
1990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
1995 Average	8	1,332	219	1,068	15	273	25	383	278	1,233	4,833
1996 Average	9	1.424	234	1,244	19	313	25	308	313	1,377	5,267
1997 Average	5	1,563	271	1,385	25	309	13	226	300	1,495	5,593
1998 Average	26	1,505	354	1,353	31	236	24	250	293	1,433	5.803
1999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
2000 Average	51	1,807	342	1,373	30	343	72	366	200	1,581	6,257
2000 Average	82	1,828	296	1,373	43	343	90	300	268	1,631	6,343
		1,828	290	1,440	43 66	393	210	478	200	1,649	6,925
2002 Average	116 108	2,072	195	1,547	87	270	210	478	236	1,649	6,925 7,103
2003 Average											
2004 Average	104 156	2,138 2,181	176 196	1,665 1,662	101 151	244 233	298 410	380 396	330 328	2,008 2,413	7,444 8,127
2005 Average											
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8,190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
2010 January	353	2,596	322	1,133	116	126	463	282	298	1,057	6,747
February	226	2,491	386	1,137	126	99	423	413	196	1,074	6,571
March	306	2,505	251	1,306	136	59	494	267	235	977	6,538
April	318	2,472	423	1,282	89	166	587	304	331	1,178	7,149
May	319	2,528	315	1,428	108	119	719	176	195	1,180	7,087
June	308	2,717	407	1,211	87	52	760	269	246	1,090	7,146
July	332	2,549	404	1,289	207	119	719	351	239	1,287	7,497
August	251	2,489	372	1,282	137	57	786	266	301	1,298	7,239
September	181	2,479	363	1,254	45	62	648	178	302	1,200	6,712
October	169	2,347	422	1.347	108	111	655	152	270	1.255	6,837
November	198	2,513	492	1,363	57	79	561	187	234	886	6,571
December	295	2,736	231	1.365	71	26	514	236	191	855	6.518
Average	272	2,535	365	1,284	108	89	612	256	253	1,112	6,887
2011 January	262	2 004	255	1 266	101	05	550	155	076	4 476	7 000
2011 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
2012 January	321	3,008	431	1,114	101	46	572	168	96	884	6,740
February	286	3,048	472	1,081	92	163	288	127	28	894	6,478
March	356	2,931	482	1,004	143	87	326	187	1	779	6,296
April	237	2,931	472	1,002	84	51	388	204	12	858	6,239
May	215	3,018	430	996	121	95	550	143	2	891	6,460
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	(3)	976	6,417
7-Month Average	237 281	2,973 2,994	457	1,007	119	47 81	491	166	20	883	6,417 6,486
-											,
2011 7-Month Average 2010 7-Month Average	250 310	2,771 2,552	394 357	1,229 1,257	119 124	104 106	619 597	175 293	189 249	1,167 1,121	7,020 6,966

^a Through 1992, may include imports from republics other than Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary.
 Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in

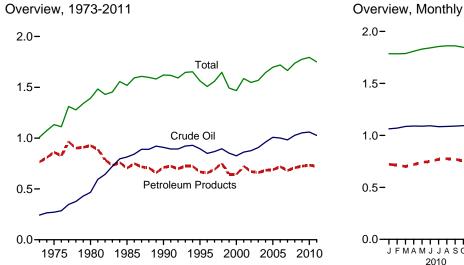
coverage is the 50 States and the District of Columbia.

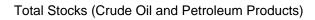
Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

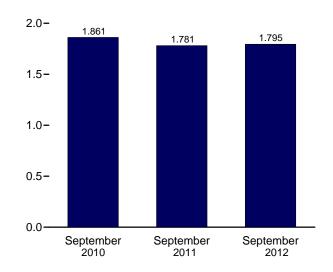
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Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1981-2011: EIA, *Petroleum Supply Annual,* annual reports. • 2012: EIA, *Petroleum Supply Monthly,* monthly reports.

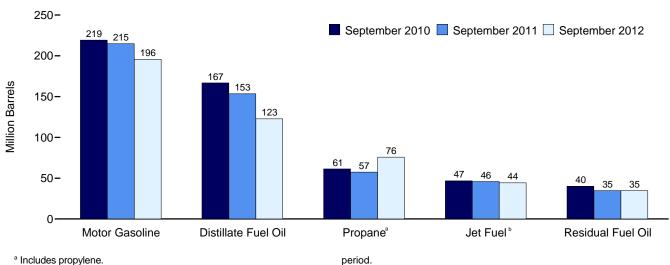
Petroleum Stocks Figure 3.4 (Billion Barrels, Except as Noted)



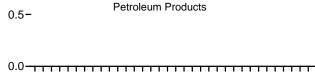








^b Includes kerosene-type jet fuel only. Notes: • SPR=Strategic Petroleum Reserve. • Stocks are at end of Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.4.



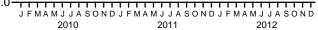
Total

Crude Oil

2.0-

1.5-

1.0-



SPR and Non-SPR Crude Oil Stocks, 1973-2011

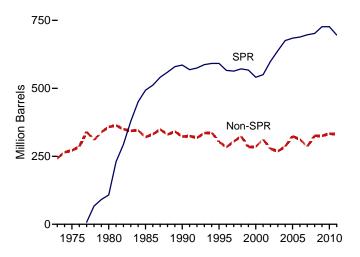


Table 3.4 Petroleum Stocks

(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	Other ^k	Total ^f
1973 Year		242	242	196	29	65	99	209	53	179	1,008
1975 Year		271	271	209	30	82	125	235	74	188	1,133
1980 Year	108	358	466	205	42	65	120	261	92	205	1.392
1985 Year	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	132	40	43	93	202	37	165	1,563
			850		40		86	195	46		1,503
1996 Year	566	284		127		43				164	
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	286	826	118	45	41	83	196	36	164	1,468
2001 Year	550	312	862	145	42	66	121	210	41	166	1,586
2002 Year	599	278	877	134	39	53	106	209	31	152	1.548
2003 Year	638	269	907	137	39	50	94	207	38	147	1,568
2004 Year	676	286	961	126	40	55	104	218	42	153	1.645
2005 Year	685	324	1,008	136	42	57	109	208	37	157	1,698
2006 Year	689	312	1,000	144	39	62	113	212	42	169	1,720
2007 Year	697	286	983	134	39	52	96	218	39	156	1,665
	702	326			39	55		218			
2008 Year 2009 Year	702	325	1,028 1,052	146 166	30 43	50 50	113 102	214	36 37	162 153	1,737 1,776
2010 January	727	337	1,063	164	44	35	80	232	40	162	1,786
					44	28					
February	727	343	1,070	155			70	235	41	170	1,785
March	727	359	1,086	147	42	28	73	225	41	174	1,787
April	727	363	1,090	145	44	35	89	220	44	178	1,810
May	727	362	1,089	150	45	42	105	218	46	178	1,830
June	727	365	1,092	158	45	49	120	216	43	169	1,842
July	727	358	1.084	167	47	55	130	220	41	166	1.855
August	727	359	1,086	170	47	59	139	221	39	159	1,862
September	727	363	1,089	167	47	61	141	219	40	158	1,861
October	727	368	1,000	162	44	61	138	210	41	158	1.847
November	727	352	1,034	162	44	61	131	213	41	158	1,827
December	727	333	1,079	162	44	49	108	213	41	158	1,027
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	340	1,005	154	44	52	132	210	39	173	1,796
	696	330	1,043		43	57	132		35	173	1,790
September				153				215			
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
June	696	386	1 082	120	38	62	147	208	37	176	1,808
July	696	R 370	^R 1,066	^R 127	40	^R 69	^R 159	^R 210	R 36	^R 172	^R 1,809
	E 696	E 357	E 1,053	E 127	E 43	E 73	^{RF} 169	E 199	E 33	^{RE} 164	^E 1,788
August September	E 695	E 365	E 1,053	E 123	= 43 E 44	= 73 E 76	F 171	E 199	= 33 E 35	E 165	^E 1,795
	090	300	1,000	123	44	10	17.1	190	30	100	1,190

а Includes lease condensate. b

 ^b Liquefied petroleum gases.
 ^c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
 Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements. ^d All crude oil stocks other than those in "SPR."

⁶ An crude oil stocks other trian truces in SFN.
 ⁶ Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section.
 ⁷ See Note 4, "Petroleum New Stock Basis," at end of section.

⁹ Excludes stocks in the Northeast Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in construction of the large included in the stock of the large the stock of the large included in the stock of the large 2005, includes kerosene-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 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

 oxygenates, renewable fuels, and other hydrocarbons. Beginning in 2005, also includes naphtha-type jet fuel.
 R=Revised. E=Estimate. F=Forecast. - - =Not applicable.
 Notes: • Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Pages: For all available data beginning in 1973, see http://www.eia.gov/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. • 1981-2011: EIA, *Petroleum Supply Annual,* annual reports, et al., *Petroleum Status Report* data system, Short-Term Integrated Forecasting System and Monthly Energy Environment. 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.

 $^{\rm c}$ Beginning in 2005, includes kerosene-type jet fuel only.

^d Includes propylene.

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	Autotion	Distillate	1-4	Kana	LPC	B a	Lubat	Madan	Petro-	Desident		
	and Road Oil	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Kero- sene	Propaned	Total	Lubri- cants	Motor Gasoline ^e	leum Coke	Residual Fuel Oil	Otherf	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	425 483	27 24	2,868 3,021	1,218 1,522	114 43	883 917	1,599 1,556	145 164	6,831 7,235	264 339	1,202 1,229	1,032 1,373	15,726 16,988
1990 Average 1995 Average	485	24	3,021	1,522	43 54	1,096	1,556	156	7,235	365	852	1,373	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	20	3,722	1,725	67	1,235	2,231	166	8,472	406 437	909	1,458	19,701
2001 Average	519 512	19 18	3,847 3,776	1,655 1.614	72 43	1,142 1.248	2,044 2.163	153 151	8,610 8.848	437	811 700	1,481 1.474	19,649 19.761
2002 Average 2003 Average	503	16	3,927	1,578	43 55	1,240	2,103	140	8,935	403	700	1,474	20,034
2004 Average	537	17	4,058	1,630	64	1,276	2,132	141	9,105	524	865	1,657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average	521	18	4,169	1,633	54	1,215	2,052	137	9,253	522	689	1,640	20,687
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 Average	417 360	15 14	3,945 3,631	1,539 1,393	14 18	1,154 1,160	1,954 2,051	131 118	8,989 8,997	464 427	622 511	1,408 1,251	19,498 18,771
-													
2010 January	203 249	10 10	3,701	1,344	15 34	1,638	2,644	116 137	8,520 8,579	268 334	615 515	1,218	18,652
February	249 264	10	3,854 3,835	1,343 1,443	34 11	1,526 1,193	2,531 2,225	137	8,579 8,793	334 425	531	1,263 1,421	18,850 19,099
March April	331	17	3,759	1,410	7	916	1.843	132	9,108	385	590	1,421	19,033
May	378	15	3,639	1,446	11	891	1,878	128	9,162	339	519	1,351	18,866
June	517	18	3,743	1,543	16	901	1,938	155	9,311	411	500	1,386	19,537
July	470	20	3,544	1,494	19	915	1,978	141	9,301	385	595	1,373	19,319
August	537	14	3,830	1,486	9	973	2,025	129	9,255	434	476	1,467	19,662
September October	463 434	20 15	3,886 3,773	1,457 1,430	8 15	1,040 1,135	2,084 2,126	136 127	9,112 9,016	433 335	513 489	1,326 1,215	19,438 18,974
November	295	11	3,873	1,396	46	1,168	2,120	125	8.816	389	552	1,333	18,977
December	204	12	4,176	1,383	50	1,634	2,677	113	8,911	371	525	1,301	19,722
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 May	311 357	10 18	3,755 3,699	1,457 1,424	8 (s)	996 989	2,043 2,077	136 122	8,796 8,817	355 414	477 468	1,301 1,082	18,650 18,479
June	454	17	3,947	1,540	(3)	958	2,077	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	13	3,936	1,416	8	1,021	2,050	125	8,744	349	491	1,299	^R 18,892
October	423 297	16 12	4,003	1,384	2 6	1,195	2,227 2,393	102 124	8,649	395 377	405 419	1,239	18,844 19,080
November December	297 187	12	4,109 3,853	1,416 1,353	12	1,292 1,458	2,393	124	8,537 8,683	229	519	1,391 1,228	18,803
Average	355	15	3,899	1,425	12	1,202	2,010	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	329 378	14 17	3,704	1,359	3 1	986	2,069	122	8,817	338	408 294	1,166 1,224	18,330
May June	378 454	17	3,745 3,729	1,409 1,545	1	1,095 1,064	2,152 2,072	116 107	8,996 9,035	376 372	294 372	1,224	18,707 18,915
July	^R 461	^R 20	^R 3.552	^R 1,468	R 2	^R 1.008	^R 2.120	^R 104	^R 8,819	^R 338	^R 418	^R 1.298	^R 18,601
August	F 531	F 18	E 3,492	^E 1,448	^{RF} 4	E 1,077	^{RF} 2,091	^{RF} 127	E 9,122	F 394	E 377	^{RE} 1,547	^E 19,152
September	F 471	F 14	E 3,715	^E 1,424	F 8	^E 1,135	F 2,083	F 110	E 8,673	F 365	E 321	E 1,207	E 18,391
9-Month Average	^E 367	^E 15	^E 3,714	E 1,411	⊑5	E 1,138	E 2,188	^E 118	^E 8,767	^E 353	^E 380	^E 1,276	^E 18,594
2011 9-Month Average 2010 9-Month Average	373 380	15 15	3,869 3,753	1,439 1,441	14 14	1,163 1,108	2,225 2,125	129 135	8,796 9,019	371 379	466 540	1,268 1,364	18,964 19,164

a Liquefied petroleum gases

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

2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other."
^d Includes propylene.
^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
^f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as includes for the planding crude oil blended in 1983, also includes resolute the planding crude oil blended in the planding crude oil the planding crude oil the planding crude oil blended in the planding crude oil the planding crude o asoline 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 500 barrels per day and

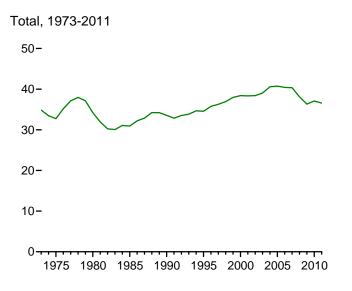
greater than -500 barrels per day.

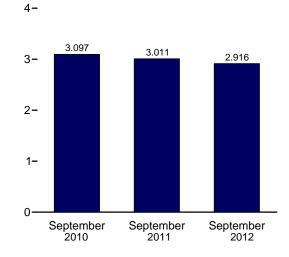
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

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: EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

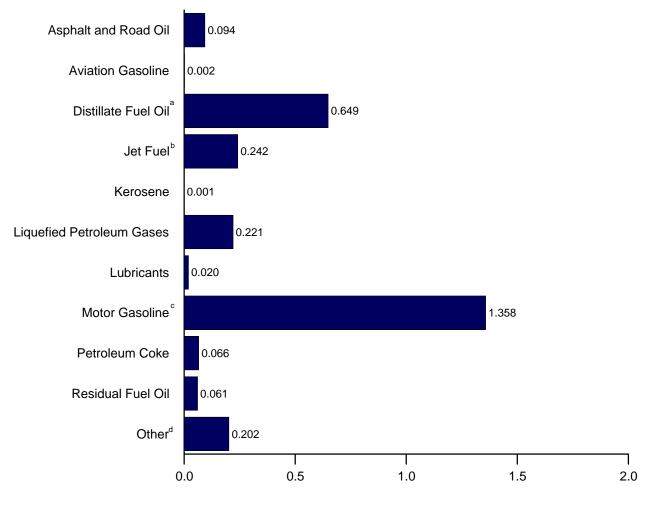
Figure 3.6 Heat Content of Petroleum Products Supplied by Type (Quadrillion Btu)

Total





By Product, September 2012



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

^b Includes kerosene-type jet fuel only.

^c 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					LPG	а			Petro-			
	and Road Oil	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Kero- sene	Propaned	Total	Lubri- cants	Motor Gasoline ^e	leum Coke	Residual Fuel Oil	Other ^f	Total
4070 T-4-1	4 004		0.575	0.407	447	4 004	4 004	250	40 707	570	6 477	0.444	04 007
1973 Total 1975 Total	1,264 1,014	83 71	6,575 6,061	2,167 2,047	447 329	1,221 1,097	1,981 1,807	359 304	12,797 12,798	573 542	6,477 5,649	2,114 2,109	34,837 32,732
1980 Total	962	64	6,110	2,047	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	40	7,304	3,308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,265
1998 Total	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,934
1999 Total	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,129	37,960
2000 Total	1,276	36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,979	38,402
2001 Total	1,257	35	8,179	3,426	150	1,598	2,697	338	16,373	961	1,861	3,056	38,333
2002 Total	1,240	34	8,028	3,340	90	1,747	2,852	334	16,819	1,018	1,605	3,040	38,400
2003 Total	1,220	30	8,349	3,265	113	1,701	2,748	309	16,981	1,000	1,772	3,264	39,051
2004 Total	1,304	31	8,652	3,383	133	1,791	2,824	313	17,379	1,156	1,990	3,428	40,593
2005 Total	1,323 1,261	35 33	8,755 8,864	3,475 3,379	144 111	1,721 1,701	2,682 2,700	312 303	17,444 17,622	1,133 1,148	2,111 1,581	3,318 3,416	40,732 40,420
2006 Total 2007 Total	1,201	33	8,921	3,379	67	1,729	2,700	303	17,622	1,140	1,561	3,416	40,420 40,358
2008 Total	1.012	28	8,411	3,193	30	1,620	2,733	291	17,168	1.022	1,033	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
	42	2	668	236	3	195	294	22	1 070	50	120	215	2 020
2010 January February	42 46	2	629	236	3 5	195	294 255	22	1,378 1,253	50 56	91	215	3,029 2,776
March	40 54	2	692	213	2	142	235	23	1,233	79	103	202	3,134
April	66	3	657	240	1	105	198	20	1,426	70	103	251	3,046
May	78	2	657	254	2	106	207	24	1.482	63	101	240	3.111
June	103	3	654	263	3	104	206	28	1,458	74	94	237	3,122
July	97	3	640	263	3	109	217	27	1,504	72	116	242	3,183
August	110	2	692	261	2	116	220	24	1,497	81	93	259	3,241
September	92	3	679	248	1	120	219	25	1,426	78	97	227	3,097
October	89	2	681	251	3	135	233	24	1,458	63	95	215	3,114
November	59	2	677	238	8	134	228	23	1,380	70	104	227	3,014
December	42	2	754	243	9	194	298	21	1,441	69	102	233	3,214
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	3	690	262	1	110	214	23	1,419	68	90	209	3,070
July	96 112	3 3	644 724	259 273	2	116 124	222 231	22 26	1,461 1,444	69 86	64 68	245 234	3,086 3,201
August September	92	2	688	273	1	124	231	20 23	1,444	63	93	234 224	3,201 3.011
October	92 87	2	723	241	(s)	142	216	23 19	1,369	63 74	93 79	224	3.092
November	59	2	718	243	(3)	142	243	23	1,336	68	79	239	3.032
December	38	2	696	238	2	173	289	21	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	2,975
February	42	2	672	222	(3)	149	250	24	1,305	52	72	219	2,863
March	49	2	669	243	(s)	135	245	21	1,396	60	81	209	2,976
April	65	2	647	231	1	113	219	22	1,380	61	77	201	2,907
May	78	3	676	248	(s)	130	237	22	1,455	70	57	217	3,063
June	90	2	652	263	(s)	122	_ 218	_ 19	1,414	67	_ 70	_ 211	3,007
July	_ ^R 95	_3	^R 641	^R 258	R (s)	^R 120	R 230	R 20	^R 1,427	^R 63	^R 81	R 232	^R 3,051
August	F 109	F3	E 631	E 255	F 1	^E 128	^{RF} 230	^{RF} 24	^E 1,476	F 74	E 73	^{RE} 264	^E 3,138
September	F 94	F 2	E 649	E 242	F 1	E 131	F 221	F 20	E 1,358	F 66	E 61	E 202	E 2,916
9-Month Total	^E 667	^E 21	^E 5,928	^E 2,192	E 8	E 1,196	^E 2,120	E 196	E 12,535	^E 582	^E 655	^E 1,994	^E 26,897
2011 9-Month Total	675	21	6,153	2,228	22	1,218	2,149	213	12,530	610	799	1,997	27,397
2010 9-Month Total	688	21	5,968	2,231	22	1,160	2,063	223	12,847	624	926	2,126	27,739

^a Liquefied petroleum gases.

^a Liquetted 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 blended

⁶ Printing motor gasoline. Degrimme Degrimme in 1995, also includes tudi etration bended 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

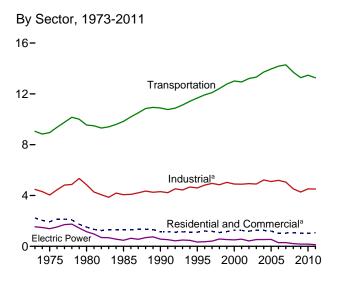
as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

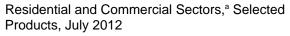
R=Revised. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

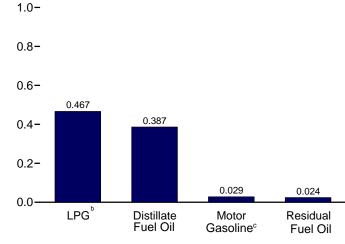
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

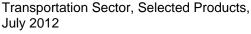
For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: See end of section.



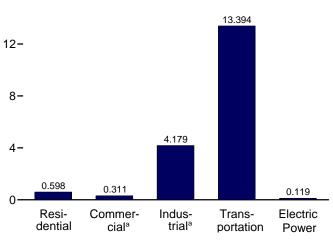




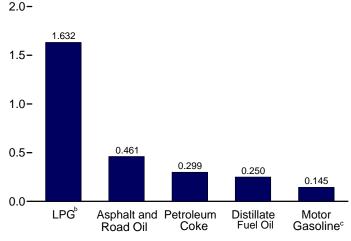




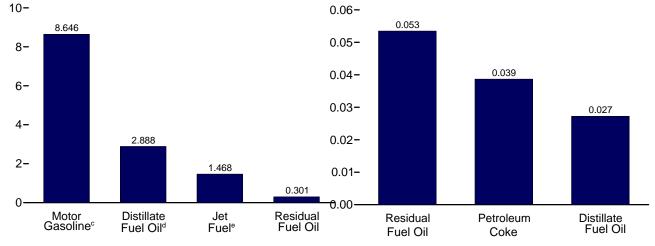
By Sector, July 2012



Industrial Sector,^a Selected Products, July 2012



Electric Power Sector, July 2012



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

^b Liquefied petroleum gases.

° 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.

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

(Thousand Barrels per Day)	
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Distilite Kerc- Fuel Dil Liquefied Gases Distilite Fuel Dil Kerc- Fuel Dil Liquefied Sess Motor Massime Petro- Fuel Dil 1973 Average 942 110 407 1,459 303 31 105 45 NA 280 77 1973 Average 907 78 355 1,253 273 24 98 45 NA 280 77 1,459 303 31 105 46 NA 246 833 835 1232 274 252 743 2227 16 68 68 NA 246 335 1985 Average 343 52 323 718 202 15 64 12 61 12 61 12 61 33 100 15 69 32 366 37 58 0 100 15 69 37 35 35 35 35 365 230 16 102 26 64 36 <t< th=""><th></th><th></th><th>Resident</th><th>tial Sector</th><th></th><th colspan="9">Commercial Sectora</th></t<>			Resident	tial Sector		Commercial Sectora								
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February 394 16 422 832 277 3 111 28 (s) 42 462 March 320 1 388 709 225 (s) 102 28 (s) 34 391 April 234 2 361 597 165 (s) 95 29 (s) 25 314 May 232 (s) 375 608 164 (s) 99 29 0 25 317 June R 211 1 361 R R 169 (s) 95 29 0 R 6 320 317 July 227 2 369 598 160 (s) 98 29 (s) 24 311 7-Month Average 302 3 386 692 213 1 102 28 (s) 32 376 2011 7-Month Average 257 12 395 664 181 2 104 28 (s) 28 344	Average	282	9	396	686	198	1	105	28	(s)	30	363		
February 394 16 422 832 277 3 111 28 (s) 42 462 March 320 1 388 709 225 (s) 102 28 (s) 34 391 April 234 2 361 597 165 (s) 95 29 (s) 25 314 May 232 (s) 375 608 164 (s) 99 29 0 25 317 June R241 1 361 R603 R169 (s) 95 29 (s) 24 311 July 227 2 369 598 160 (s) 98 29 (s) 24 312 7-Month Average 302 3 386 692 213 1 102 28 (s) 32 376 2011 7-Month Average 257 12 395 664 181 2 104 28 (s) 28 344	2012 January	469	1	429	800	330	(s)	113	26	(s)	50	521		
March 320 1 388 709 225 (s) 102 28 (s) 34 391 April 234 2 361 597 165 (s) 95 29 (s) 25 314 May 232 (s) 375 608 164 (s) 99 29 0 25 317 June R 211 1 361 R R 803 R 169 (s) 95 29 0 R R R 160 (s) 98 29 (s) 24 311 7-Month Average 302 3 386 692 213 1 102 28 (s) 32 376 2011 7-Month Average 257 12 395 664 181 2 104 28 (s) 28 344														
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7-Month Average 302 3 386 692 213 1 102 28 (s) 32 376 2011 7-Month Average 257 12 395 664 181 2 104 28 (s) 28 344										-				
2011 7-Month Average 257 12 395 664 181 2 104 28 (s) 28 344														
	-					-				(9)				
	2011 7-Month Average 2010 7-Month Average	257 289	12 11	395 374	664 674	181 204	2	104 99	28 29	(s) (s)	28 36	344 369		

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

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. Sources: See end of section.

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				
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				
	396	621	87	1.172	82	82	234	586	1,581	4,030				
1980 Average	425	526	21		75	114	261	326						
1985 Average				1,285					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				
2002 Average	512	566	7	1,668	78	163	383	83	1.474	4,934				
2003 Average	503	534	12	1,561	72	171	375	96	1,579	4,903				
	537	570	14	1,646	73	195	423	108	1,657	5,222				
2004 Average			14		73									
2005 Average	546	594		1,549	72	187 198	404	123	1,605	5,100				
2006 Average	521	594	14	1,627			425	104	1,640	5,193				
2007 Average	494	595	6	1,637	73	161	412	84	1,593	5,056				
2008 Average	417	599	2	1,419	67	131	394	86	1,408	4,523				
2009 Average	360	521	2	1,541	61	128	363	46	1,251	4,274				
2010 January	203	484	3	2,036	60	140	201	59	1,218	4,403				
February	249	531	6	1,949	70	141	264	55	1,263	4,528				
March	264	686	2	1,714	71	144	356	54	1,421	4,712				
April	331	623	1	1,419	68	149	323	61	1.463	4,438				
	378	472	2	1,415	66	149	274	51	1.351	4,430				
May	517	472	23	1,440	80	150	333	43	1.386	4,190				
June														
July	470	331	3	1,523	73	153	303	53	1,373	4,282				
August	537	544	2	1,559	66	152	370	42	1,467	4,738				
September	463	701	1	1,604	70	150	371	51	1,326	4,738				
October	434	548	3	1,637	66	148	279	51	1,215	4,380				
November	295	664	8	1,648	64	145	339	57	1,333	4,553				
December	204	700	9	2.061	58	146	307	51	1.301	4.838				
Average	362	559	4	1,673	68	148	310	52	1,343	4,519				
2011 January	221	717	3	2.123	64	137	280	60	1.244	4.849				
February	248	588	9	1.946	62	141	226	59	1,185	4,463				
March	282	765	5	1,856	77	144	275	48	1,405	4,857				
	311	765 564	2	1,650	70	144	307	48 50	1,405	4,857				
April														
May	357	557	(s)	1,600	63	145	365	49	1,082	4,217				
June	454	572	1	1,561	64	149	317	49	1,213	4,379				
July	465	306	2	1,570	61	148	293	32	1,363	4,241				
August	545	529	1	1,618	70	146	397	34	1,311	4,651				
September	462	556	1	1,579	64	143	286	50	1,299	4,440				
October	423	588	(s)	1,715	53	142	347	42	1,239	4,549				
November	297	706	1	1,842	64	140	336	42	1,391	4,819				
December	187	455	2	2,014	57	142	178	52	1,228	4,317				
Average	355	575	2	1,749	64	144	301	47	1,272	4,509				
2012 January	216	553	(s)	1,896	66	134	311	40	1.349	4,567				
February	210	724	(3)	1,864	71	134	250	38	1,306	4,616				
March	236	499	(s)	1,715	57	142	289	41	1,163	4,142				
April	329	491	1	1,594	63	145	311	41	1,166	4,139				
May	378	469	(s)	1,657	59	148	344	29	1,224	4,309				
June	454	^R 379	(s)	1,596	55	148	342	35	1,214	^R 4,224				
July	461	250	(s)	1,632	54	145	299	39	1,298	4,179				
7-Month Average	328	479	1	1,707	61	143	307	38	1,246	4,309				
2011 7-Month Average	335	581	3	1,746	66	144	295	49	1,257	4,477				
2010 7-Month Average	345	507	3 3	1,652	70	147	294	54	1,354	4,425				

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

^c Pinished motor gasoline. Beginning in 1993, also includes fuel ethanoi 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 Decisions in 2005, else includes apply products of the produc 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.

available data beginning in 1973.

Sources: See end of section.

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors (Thousand Barrels per Day)

				Transportat	ion Secto	r			Electric Power Sectora				
	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	1,218	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	21	1,973	1,514	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	2,263	1,622	13	81	8,128	294	12,420	64	56	456	576	
1999 Average	21	2,352	1,673	10	82	8,336	290	12,765	66	51	418	535	
2000 Average	20	2,422	1,725	8	81	8,370	386	13,012	82	45	378	505	
2001 Average	19	2,489	1,655	10	74	8,435	255	12,938	80	47	437	564	
2002 Average	18	2,536	1,614	10	73	8,662	295	13,208	60	80	287	427	
2003 Average	16	2,665	1,578	12	68	8,733	249	13,321	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	1,622	16	69	9,093	433	14,287	42	78	173	293	
2008 Average	15	2,824	1,539	29	64	8,834	400	13,704	34	70	104	209	
2009 Average	14	2,600	1,393	20	57	8,840	353	13,279	33	63	79	175	
2010 January	10	2,353	1,344	26	57	8,352	407	12,547	79	67	93	239	
February	10	2,490	1,343	24	66	8,411	364	12,709	30	69	38	138	
March	14	2,663	1,443	22	67	8,620	403	13,231	24	69	41	134	
April	17	2,779	1,410	18	64	8,929	465	13,682	23	62	40	125	
May	15	2,781	1,446	18	62	8,983	377	13,681	33	64	66	164	
June	18	2,858	1,543	19	75	9,128	322	13,963	41	78	105	224	
July	20	2,848	1,494	19	69	9,118	399	13,966	42	81	120	244	
August	14	2,963	1,486	20	63	9,074	315	13,934	34	63	98	196	
September	20	2,888	1,457	20	66	8,933	381	13,766	29	62	61	153	
October	15	2,803	1,430	21	62	8,839	371	13,540	25	56	37	118	
November	11	2,719	1,396	21	60	8,643	427	13,277	30	50	35	114	
December Average	12 15	2,679 2,737	1,383 1,432	26 21	55 64	8,736 8,816	355 382	13,245 13,466	60 38	63 65	67 67	189 170	
Average	15	2,151	1,452	21	04	0,010	502	13,400	50	05	07	170	
2011 January	11	2,521	1,346	27 24	60	8,206 8,435	423 426	12,594 12.891	40 31	81 67	57 36	177 134	
February	14 18	2,580 2,766	1,352 1,385	24	59 73	8,626	426 346	12,091	27	73	38	134	
March	10	2,766	1,305	23	66	8,623	346	13,230	31	73 49	30 46	126	
April May	18	2,824	1,437	20	59	8.644	364	^R 13,422	29	49	40	119	
June	17	3,000	1,540	20	61	8,889	365	13,422	32	62	41	138	
July	19	2,914	1,473	20	58	8,854	226	13,562	37	75	52	163	
August	18	3.034	1,554	20	67	8,750	242	13,686	26	65	45	135	
September	13	2,895	1,416	20	61	8,572	378	13,354	25	63	34	123	
October	16	2,894	1.384	22	50	8.479	299	13,143	22	48	32	102	
November	12	2,808	1,416	23	60	8,369	309	12,997	23	40	32	96	
December	10	2.634	1.353	25	54	8.513	389	12,978	26	51	31	109	
Average	15	2,815	1,425	22	61	8,581	343	13,261	29	60	41	130	
2012 January	12	2,446	1,313	24	62	8,026	296	12,179	24	55	34	114	
February	12	2,440	1,313	24	67	8,020	286	12,179	24	47	27	96	
March	14	2,505	1,382	23	54	8,463	312	12,755	18	34	29	81	
April	14	2,790	1,359	20	59	8,644	312	13,201	24	27	28	79	
May	17	2,853	1,409	20	56	8.819	212	13,386	27	32	29	88	
June	13	^R 2,912	1,545	20	52	8,857	266	^R 13,665	28	30	45	103	
July	20	2,888	1,468	20	51	8,646	301	13,394	27	39	53	119	
7-Month Average	15	2,728	1,404	20	57	8,558	284	13,066	24	38	35	97	
2011 7-Month Average	15	2,787	1,426	22	62	8,612	357	13,282	32	65	45	142	
2010 7-Month Average	15	2.683	1,433	21	66	8.795	391	13,403	39	70	72	182	

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS Electricity-only and combined-near-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Theorem 2004, includes renewable and application true in fuel. Registricity is and includes the producers.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in ^a Through 2004, includes kerosene-type jet fuel only; naphtha-type jet fuel beginning 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 empound of horescene and ist fuel.

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

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

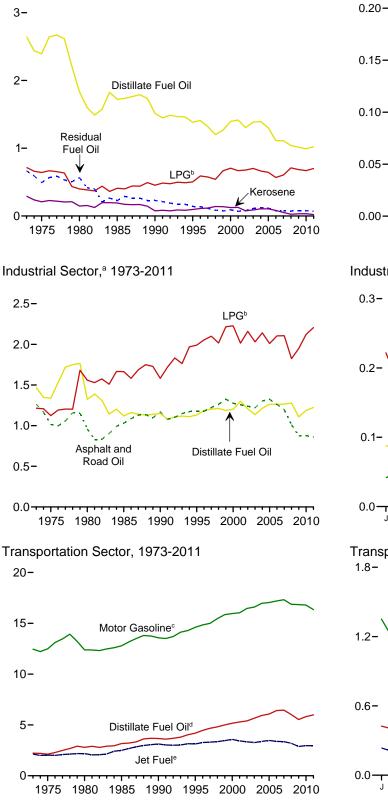
Sources: See end of section.

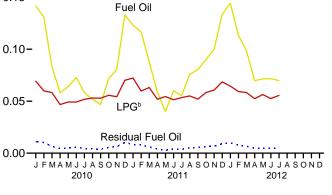
Figure 3.8 Heat Content of Petroleum Consumption by Sector, Selected Products (Quadrillion Btu)

Residential and Commercial Sectors,^a 1973-2011

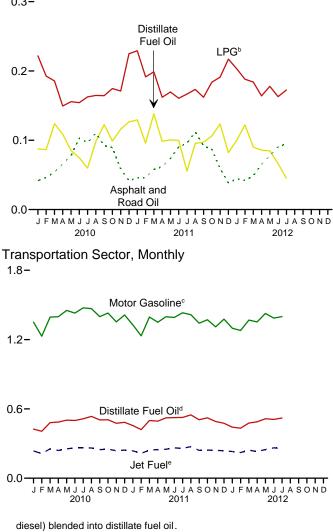
Residential and Commercial Sectors,^a Monthly 0.20-

Distillate





Industrial Sector,^a Monthly



e Beginning in 2005, includes kerosene-type jet fuel only.

Sources: Tables 3.8a-3.8c.

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

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

^b Liquefied petroleum gases.

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

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

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

		Residenti	al Sector	Commercial Sectora							
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total
1973 Total	2.003	227	570	2.800	644	65	147	87	NA	665	1.607
1975 Total	1.807	161	512	2,479	587	49	129	89	NA	492	1.346
1980 Total	1,316	107	311	1,734	518	41	88	107	NA	565	1,318
1985 Total	1,092	159	314	1,565	631	33	95	96	NA	228	1,083
1990 Total	978	64	352	1,394	536	12	102	111	0	230	991
995 Total	905	74	395	1,374	479	22	109	18	(s)	141	769
996 Total	926	89	469	1,484	483	21	122	27	(s)	137	790
1997 Total	874	93	455	1,422	444	25	120	43	(s)	111	743
1998 Total	772	108	424	1,304	429	31	118	39	(s)	85	702
1999 Total	828	111	526	1,465	438	27	140	28	(s)	73	707
2000 Total	905	95	555	1,554	491	30	150	45	(s)	92	807
2001 Total	908	95	526	1,529	508	31	143	37	(s)	70	790
2002 Total	860	60	537	1,457	444	16	141	45	(s)	80	726
2003 Total	905	70	544	1,519	481	19	157	60	(s)	111	828
2004 Total	924	85	512	1,520	470	20	152	45	(s)	122	810
2005 Total	854	84	513	1,451	447	22	131	46	(s)	116	762
2006 Total	712	66	446	1,224	401	15	123	49	(s)	75	664
2007 Total	726	44	484	1,254	384	9	121	61	(s)	75	651
2008 Total	669	21	553	1,243	372	4	158	46	(s)	73	653
2009 Total	602	28	547	1,176	413	4	139	53	(s)	76	685
010 January	83	2	55	140	58	(s)	14	4	(s)	11	89
February	77	4	47	128	54	1	13	4	(s)	10	82
March	49	1	46	96	34	(s)	12	5	(s)	6	58
April	34	1	37	72	24	(s)	10	5	(s)	5	43
May	37	1	39	78	26	(s)	10	5	0	5	47
June	43	2	39	83	30	(s)	10	5	0	6	51
July	34	2	41	78	24	(s)	11	5	0	5	45
August	31	1	42	74	21	(s)	11	5	(s)	4	42
September	27	1	42	70	19	(s)	11	5	(s)	4	39
October	42	2	44	88	30	(s)	12	5	(s)	6	52
November	47	6	43	96	33	1	11	4	(s)	6	56
December	78	6	55	140	55	1	15	5	(s)	10	86
Total	583	29	530	1,142	410	5	140	55	(s)	77	688
011 January	72	2	57	132	51	(s)	15	4	(s)	8	79
February	68	6	47	121	48	1	12	4	(s)	8	74
March	52	3	50	105	36	1	13	5	(s)	6	61
April	34	1	41	76	24	(s)	11	4	0	4	44
May	23	(s)	43	67	17	(s)	11	5	0	3	35
June	35	1	41	76	25	(s)	11	5	0	4	44
July	33	1	42	76	23	(s)	11	5	0	4	43
August	45	1	44	89	31	(s)	12	5	0	5	53
September	47	1	41	89	33	(s)	11	4	0	5	54
October	53	(s)	46	99	37	(s)	12	5	0	6	60
November	59	1	48	107	41	(s)	13	4	(s)	7	65
December	78	2	54	134	55	(s)	14	5	(s)	9	83
Total	599	18	554	1,171	422	3	146	54	(s)	69	695
012 January	85	(s)	51	136	60	(s)	13	4	(s)	10	87
February	67	3	47	116	47	(s)	12	4	(s)	8	72
March	58	(s)	46	104	41	(s)	12	5	(s)	7	64
April	41	(s)	41	83	29	(s)	11	4	(s)	5	49
May	42	(s)	45	87	30	(s)	12	5	Ó	5	51
June	R 42	(s)	42	^R 84	^R 30	(s)	11	5	0	5	^R 50
July	41	(s)	44	85	29	(s)	12	5	(s)	5	50
7-Month Total	375	4	316	695	264	ີ 1	83	31	(s)	43	423
011 7-Month Total	318	14	321	653	224	2	85	31	(s)	37	379
010 7-Month Total	357	13	304	675	251	2	80	32	(s)	47	414

^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 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 So. Perforem products supplied is an approximation of perforem products input of 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.

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

Asphalt and Road Oil 1973 Total 1,264 1975 Total 1,014 1980 Total 962 1985 Total 1,029 1990 Total 1,170 1995 Total 1,178 1996 Total 1,178 1997 Total 1,224 1998 Total 1,224 1998 Total 1,226 2001 Total 1,276 2001 Total 1,227 2001 Total 1,226 2003 Total 1,220 2004 Total 1,221 2005 Total 1,220 2004 Total 1,221 2005 Total 1,223 2006 Total 1,223 2007 Total 1,012 2009 Total 873 2010 January 42 February 46 March 54 April 66 May 78 July 97 August 110 September 92	Distillate Fuel Oil		Liquefied						
1975 Total 1,014 1980 Total 962 1985 Total 1,029 1990 Total 1,170 1995 Total 1,178 1996 Total 1,176 1997 Total 1,224 1998 Total 1,224 1999 Total 1,224 1999 Total 1,224 1999 Total 1,324 2000 Total 1,226 2001 Total 1,227 2002 Total 1,240 2003 Total 1,324 2000 Total 1,324 2001 Total 1,227 2002 Total 1,323 2006 Total 1,323 2006 Total 1,323 2007 Total 1,97 2008 Total 1,012 2009 Total 873 2010 January 42 February 46 March 54 April 66 May 78 June 90 November 59 December 42 Total 878<		Kerosene	Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
975 Total 1,014 980 Total 962 995 Total 1,029 996 Total 1,170 995 Total 1,178 996 Total 1,176 997 Total 1,224 998 Total 1,224 998 Total 1,324 000 Total 1,226 001 Total 1,227 001 Total 1,227 002 Total 1,240 003 Total 1,220 004 Total 1,323 005 Total 1,324 005 Total 1,323 006 Total 1,323 006 Total 1,323 007 Total 1,197 008 Total 1,261 007 Total 1,197 008 Total 1,012 009 Total 873 010 January 42 February 46 March 54 April 66 May 78 June 100 September 92 October 878	1,469	156	1,215	195	255	558	1,858	2,114	9,083
980 Total 962 985 Total 1,029 990 Total 1,170 995 Total 1,176 995 Total 1,176 997 Total 1,224 998 Total 1,224 900 Total 1,224 000 Total 1,227 000 Total 1,227 000 Total 1,220 004 Total 1,221 005 Total 1,223 006 Total 1,223 006 Total 1,221 007 Total 1,012 009 Total 873 010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 59 December 42 Total 878	1,339	119	1,123	149	223	540	1,509	2,109	8,127
985 Total 1,029 990 Total 1,170 995 Total 1,178 996 Total 1,178 997 Total 1,224 998 Total 1,223 999 Total 1,224 998 Total 1,224 998 Total 1,224 999 Total 1,224 999 Total 1,224 999 Total 1,226 0001 Total 1,227 0001 Total 1,220 0003 Total 1,220 0004 Total 1,324 0005 Total 1,324 0006 Total 1,323 0006 Total 1,012 008 Total 1,012 009 Total 873 010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 D	1,324	181	1,559	182	158	516	1,349	3,278	9,509
990 Total 1,170 995 Total 1,178 996 Total 1,176 997 Total 1,224 998 Total 1,263 999 Total 1,324 0000 Total 1,276 0001 Total 1,220 0002 Total 1,240 0003 Total 1,220 0004 Total 1,220 0005 Total 1,323 0006 Total 1,323 0006 Total 1,323 0006 Total 1,323 0006 Total 1,261 0007 Total 1,261 0007 Total 1,197 0008 Total 1,012 009 Total 873 0010 January 42 February 46 March 54 April 66 May 78 June 100 September 92 October 89 November 59 December 42 Total 878 0011 January 45	1,119	44	1,664	166	218	575	748	2,152	7,714
996 Total 1,176 997 Total 1,224 998 Total 1,263 999 Total 1,224 990 Total 1,276 0001 Total 1,276 0003 Total 1,220 0004 Total 1,323 0005 Total 1,323 0006 Total 1,321 0007 Total 1,197 008 Total 1,012 009 Total 873 0010 January 42 February 46 March 54 April 66 May 78 June 100 September 92 October 89 November 59 December 42 Total 878 April 62 May 73 June 90 July	1,150	12	1,582	186	185	714	411	2,839	8,251
997 Total 1,224 998 Total 1,324 999 Total 1,324 000 Total 1,276 001 Total 1,276 003 Total 1,220 004 Total 1,304 005 Total 1,323 006 Total 1,323 006 Total 1,261 007 Total 1,197 008 Total 1,012 009 Total 873 010 January 42 February 46 March 54 April 66 May 78 June 100 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April<	1,131	15	1,990	178	200	721	337	2,837	8,58
998 Total 1,263 999 Total 1,324 000 Total 1,276 000 Total 1,276 000 Total 1,276 000 Total 1,276 000 Total 1,227 000 Total 1,227 000 Total 1,227 000 Total 1,220 000 Total 1,220 000 Total 1,323 000 Total 1,221 000 Total 1,223 000 Total 1,223 000 Total 1,217 000 Total 1,217 000 Total 1,217 000 Total 1,217 000 Total 1,221 000 Total 1,217 000 Total 103 July 97 November </td <td>1,187</td> <td>18</td> <td>2,054</td> <td>173</td> <td>200</td> <td>757</td> <td>335</td> <td>3,121</td> <td>9,020</td>	1,187	18	2,054	173	200	757	335	3,121	9,020
999 Total 1,324 1,276 1,276 0001 Total 1,277 0002 Total 1,220 0004 Total 1,220 0005 Total 1,220 0006 Total 1,220 0005 Total 1,220 0006 Total 1,323 0006 Total 1,323 0007 Total 1,197 008 Total 1,012 009 Total 873 0010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 April 62 May 73 June 90 July 96 August 112 September 92 October 87	1,203	19	2,100	182	212	727	291	3,298	9,256
000 Total 1,276 001 Total 1,257 002 Total 1,240 003 Total 1,240 003 Total 1,240 004 Total 1,220 004 Total 1,304 005 Total 1,323 006 Total 1,261 007 Total 1,197 008 Total 1,012 009 Total 873 010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 April 62 May 73 June 90 July 96 August 112	1,211	22	2,016	191	199	858	230	3,093	9,083
0001 Total 1,257 0002 Total 1,240 0003 Total 1,220 0004 Total 1,223 0006 Total 1,221 0007 Total 1,197 0008 Total 1,261 0009 Total 873 010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 0011 January 45 February 46 March 58 April 62 May 73 June 90	1,187	13	2,217	193	152	936	207	3,129	9,357
2002 Total 1,240 2003 Total 1,220 2004 Total 1,304 2005 Total 1,323 2006 Total 1,261 2007 Total 1,012 2008 Total 1,012 2009 Total 1,012 2009 Total 1,012 2009 Total 873 2010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59	1,200	16	2,228	190	150	796	241	2,979	9,076
1,220 1,304 1,304 1,305 1,306 1,323 1,261 1,323 1,006 1,261 1,27 1,006 1,197 1,008 1,009 1,011 1,012 1,009 1,011 1,012 1,009 1,011 1,012 1,013 1,014 1,015 1,016 1,017 1,008 1,011 1,012 1,014 1,017 1,018 1,019 1,011 1,012 1,012 1,012 1,012 1,012 1,012 1,012 1,012 1,012 1,012 1,014 1,015 1,016 <td>1,300</td> <td>23</td> <td>2,014</td> <td>174</td> <td>295</td> <td>858</td> <td>203</td> <td>3,056</td> <td>9,181</td>	1,300	23	2,014	174	295	858	203	3,056	9,181
004 Total 1,304 005 Total 1,323 006 Total 1,261 1007 Total 1,012 009 Total 1,012 009 Total 873 0010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 2011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October	1,204	14	2,160	172	309	842	190	3,040	9,171
1,323 1,323 1,006 Total 1,261 1007 Total 1,197 1008 Total 1,197 1008 Total 1,197 1009 Total 1,197 1009 Total 1,012 1009 Total 873 1010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October </td <td>1,136</td> <td>24</td> <td>2,030</td> <td>159</td> <td>324</td> <td>825</td> <td>220</td> <td>3,264</td> <td>9,202</td>	1,136	24	2,030	159	324	825	220	3,264	9,202
006 Total 1,261 007 Total 1,197 008 Total 1,012 009 Total 873 010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 8011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 Deccember 38	1,214	28	2,141	161	372	934	249	3,428	9,831
2007 Total 1,197 2008 Total 1,012 2009 Total 873 2010 January 42 February 46 March 54 April 66 May 77 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 2011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 October 87 </td <td>1,264</td> <td>39</td> <td>2,009</td> <td>160</td> <td>356</td> <td>889</td> <td>281</td> <td>3,318</td> <td>9,640</td>	1,264	39	2,009	160	356	889	281	3,318	9,640
2008 Total 1,012 2009 Total 873 2010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 2011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 Total 859 2012 January 44 February 42 March 49 <td>1,263</td> <td>30</td> <td>2,104</td> <td>156</td> <td>376</td> <td>934</td> <td>239</td> <td>3,416</td> <td>9,780</td>	1,263	30	2,104	156	376	934	239	3,416	9,780
873 873 2010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 2011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 Total 859 2012 January 44 February 42	1,265	13	2,106	161	306	906	193	3,313	9,461
2010 January 42 February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 2011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 2012 January 44 February 42 March 49 April 65 May 78	1,277	4	1,823	150	250	868	198	2,941	8,523
February 46 March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	1,107	4	1,950	135	244	799	106	2,611	7,829
March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	87	(s)	222	11	23	38	11	215	650
March 54 April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 December 38 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78 <td>87</td> <td>1</td> <td>193</td> <td>12</td> <td>21</td> <td>45</td> <td>10</td> <td>202</td> <td>615</td>	87	1	193	12	21	45	10	202	615
April 66 May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 <td>124</td> <td>(s)</td> <td>186</td> <td>13</td> <td>23</td> <td>67</td> <td>11</td> <td>252</td> <td>730</td>	124	(s)	186	13	23	67	11	252	730
May 78 June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	109	(s)	149	12	23	58	11	251	681
June 103 July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	85	(s)	156	12	24	51	10	240	657
July 97 August 110 September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	75	(s)	154	14	24	60	8	237	676
September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	60	<u>í</u>	163	14	25	57	10	242	667
September 92 October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	98	(s)	165	12	25	69	8	259	747
October 89 November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	123	(s)	164	13	23	67	10	227	719
November 59 December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	99	(s)	175	12	24	52	10	215	676
December 42 Total 878 011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	116	1	171	12	23	61	11	227	680
Total 878 2011 January 45 February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 2012 January 44 February 42 March 49 April 65 May 78	126	2	225	11	24	57	10	233	729
February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 2012 January 44 February 42 March 49 April 65 May 78	1,188	7	2,121	149	281	682	120	2,800	8,227
February 46 March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 D12 January 44 February 42 March 49 April 65 May 78	129	1	229	12	22	52	12	227	730
March 58 April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	96	1	191	11	21	38	10	190	604
April 62 May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	138	1	199	14	23	51	9	250	744
May 73 June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	98	(s)	162	13	23	55	9	224	647
June 90 July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	101	(s)	170	12	23	68	9	194	650
July 96 August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	100	(s)	161	12	23	57	9	209	662
August 112 September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	55	(s)	167	11	24	55	ĕ	245	659
September 92 October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	96	(s)	173	13	24	74	7	234	733
October 87 November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	97	(s)	162	12	22	52	9	224	670
November 59 December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	106	(s)	184	10	23	65	8	220	703
December 38 Total 859 012 January 44 February 42 March 49 April 65 May 78	123	(s)	191	12	22	61	8	239	715
Total 859 012 January 44 February 42 March 49 April 65 May 78	82	(S)	217	11	23	33	10	220	63
February 42 March 49 April 65 May 78	1,222	4	2,205	142	274	662	108	2,676	8,152
February 42 March 49 April 65 May 78	100	(s)	203	12	22	58	8	238	686
March	100	(5)	188	12	22	50 44	o 7	230	650
April 65 May 78	90	(s)	184	13	23	44 54	8	209	627
May 78	90 86		164	11	23	54 56	8	209 201	624
	86 85	(s)	164	11	23	56 64	8	201 217	663
June	85 R 66	(s)		10	24 23		6		R 632
July	45	(s)	163 172	10	23	62 56	7 8	211 232	64
July	45 594	(s) 1	172 1,252	10 78	23 159	394	50 50	232 1, 527	4,52
7-MORTH TOTAL	354	I	1,232	10	159	334	50	1,321	4,520
011 7-Month Total 471 010 7-Month Total 485	718 626	3 3	1,278 1,222	85 89	159 163	377 375	66 72	1,539 1,640	4,696 4,676

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

⁶ Finished motor gasoline. Beginning in 1993, also includes rule emanoi 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 oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned or fuel Reginning in 2005 also includes another to the participation of the primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned or fuel Reginning in 5005 also includes apply in the primary and secondary supply). 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 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

Sources: See end of section.

				Transporta	tion Secto	r			E	Electric 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 1985 Total	64 50 45	2,795 3,170 3.661	2,179 2,497 3,129	18 30 23	172 156 176	12,383 12,784 13,575	1,398 786 1,016	19,009 19,472 21,626	169 85 97	5 7 30	2,459 998 1,163	2,634 1,090 1,289
1990 Total 1995 Total 1996 Total	40 37	4,195	3,129 3,132 3,274	23 18 16	168 163	14,607 14.837	911 851	23,070 23.648	108 109	81 80	566 628	755
1997 Total	40	4,672	3,308	14	172	14,999	712	23,918	111	102	715	927
1998 Total	35	4,812	3,357	18	180	15,463	674	24,538	136	124	1,047	1,306
1999 Total	39	5,001	3,462	14	182	15,855	665	25,219	140	112	959	1,211
2000 Total	36	5,165	3,580	12	179	15,960	888	25,820	175	99	871	1,144
2001 Total	35	5,292	3,426	14	164	16,041	586	25,557	171	103	1,003	1,277
2002 Total	34	5,392	3,340	14	162	16,465	677	26,085	127	175	659	961
2003 Total	30	5,666	3,265	17	150	16,597	571	26,297	161	175	869	1,205
2004 Total	31	5,932	3,383	19	152	16,962	740	27,219	111	222	879	1,212
2005 Total	35	6,076	3,475	28	151	17,043	837	27,645	115	243	876	1,235
2006 Total	33	6,414	3,379	27	147	17,197	906	28,105	74	214	361	648
2007 Total	32	6,457	3,358	22	152	17,321	994	28,335	89	171	397	657
2008 Total	28	6,020	3,193	40	141	16,872	920	27,214	73	154	240	468
2009 Total	27	5,528	2,883	28	127	16,837	810	26,240	70	139	181	390
2010 January	2	425	236	3	11	1,351	79	2,107	14	12	18	45
February March	1	406 481	213 254	3	11 13	1,229 1,394	64 79	1,928 2,225	5 4	12 13	7 8	23 25
April	3	486	240	2	12	1,398	88	2,227	4	11	8	23
May	2	502	254	2	12	1,453	73	2,299	6	12	13	31
June	3	499	263	2	14	1,429	61	2,270	7	14	20	41
July August	3	514 535	263 261	2 2	13 12	1,475 1,468	78 61	2,348 2,342	8	15 12	23 19	46 37
September	3	505	248	2	12	1,398	72	2,240	5	11	12	28
October	2	506	251	2	12	1,430	72	2,276	4	10	7	22
November	2	475	238	2	11	1,353	80	2,161	5	9	7	21
December	2	484	243	3	10	1,413	69	2,224	11	12	13	36
Total	27	5,818	2,963	29	141	16,791	877	26,646	80	144	154	378
2011 January	2	455	237	3	11	1,327	82	2,118	7	15	11	33
February	2	421	215	3	10	1,232	75	1,958	5	11	6	23
March April	3 2 3	499 493 522	243 248 250	3 2 2	14 12 11	1,395 1,350 1,398	67 68 71	2,225 2,175 2.258	5 5 5	14 9 9	7 9 8	26 23 22
May June July	3 3	522 524 526	250 262 259	2 2	11 11 11	1,390 1,391 1,432	69 44	2,258 2,262 2,277	6 7	9 11 14	8 10	22 25 31
August September	3 2 2	548 506 523	273 241 243	2 2 3	13 11 9	1,415 1,342	47 71 58	2,301 2,175	5 4 4	12 11 9	9 6 6	25 22 19
October November December	2 2	523 491 476	241 238	3 3	9 11 10	1,371 1,310 1,377	58 76	2,210 2,115 2,181	4 5	9 7 10	6 6	17 20
Total	27	5,984	2,950	31	134	16,343	787	26,256	62	132	94	288
	2	442	231	3	12	1,298	58	2,045	4	10	7	21
2012 January February March	2 2 2 2	442 433 477 488	231 222 243 231	3 3 3 2	12 12 10 11	1,298 1,279 1,369 1,353	58 52 61 59	2,045 2,002 2,165 2,146	4 4 3 4	10 8 6 5	7 5 6 5	21 17 15 14
April May June	3 2	515 509	248 263	2 2	11 9	1,427 1,387	41 50	2,246 ^R 2,222	5 5	6 5	6 9	16 19
July	3	521	258	2	10	1,399	59	2,252	5	7	10	23
7-Month Total	16	3,385	1,695	18	74	9,511	380	15,078	30	49	47	126
2011 7-Month Total	16	3,442	1,714	18	80	9,527	476	15,273	40	83	60	183
2010 7-Month Total	16	3,314	1,722	17	84	9,729	521	15,403	48	90	97	235

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

the public. Through 1986, data are for electric duillities only; beginning in 1969, data are for electric utilities and independent power producers. ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in ^{cont}

2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector Other" on Table 3.8b.

^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 indonedate revuelting. • Concernentia evenance in the 50 States and the District 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.

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: 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.

4. Natural Gas

Figure 4.1 Natural Gas (Trillion Cubic Feet)

Overview, 1973-2011 Overview, Monthly 30-3.5-25-3.0-Consumption Consumption 2.5 -20-**Dry Production** 2.0-15-Dry 1.5-Production 10-1.0-5-Net Imports 0.5-Net Imports 0-----0.0----..... 1975 1980 1985 1990 1995 2000 2005 2010 J FMAMJ JASOND J FMAMJ JASOND J FMAMJ JASOND 2010 2011 2012 Consumption by Sector, 1973-2011 Consumption by Sector, Monthly 12-1.2-Electric Industrial Residential 10-Power 0.9-8-Industria 6-0.6-Residential Transportation 4 lectric Pow 0.3- \sim 2-Commercial Commercia Transportation 0-0.0---------...... 1975 1980 1985 1990 1995 2000 2005 2010 J FMAM J J A SOND J FMAM J J A SOND J FMAM J J A SOND 2010 2011 2012 Underground Storage, End of Year, 1973-2011 Underground Storage, End of Month 9-8-Total Total 6-6 Working Gas Base Gas 4-Working Gas 3-**Base Gas** 2

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

1975 1980 1985 1990 1995 2000 2005 2010

0-1-----

2010

J FMAMJ J A SOND J FMAMJ J A SOND J FMAMJ J A SOND

2011

2012

0

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	Gross With-	Marketed Production	Extraction	Dry Gas	Supple- mental Gaseous		Trade	Net	Net Storage With-	Balancing	Consump
	drawalsa	(Wet) ^b	Loss ^c	Productiond	Fuelse	Imports	Exports	Imports	drawals ^f	Item ^g	tion ^h
1973 Total	24,067	22,648	917	21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	21,104	20,109	872	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 21,523	17,270 18,594	816 784	16,454 17,810	126 123	950 1,532	55 86	894 1,447	235 -513	-428 307	17,281 ^j 19,174
1990 Total 1995 Total	21,525	19,506	908	18,599	123	2.841	154	2,687	-515	396	22,207
1995 Total	23,744 24,114	19,808	908	18,854	109	2,041	154	2,007	415	396 860	22,207
1997 Total	24,213	19,866	964	18,902	103	2,994	157	2,837	24	871	22,003
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 2009 Total	25,636 26,057	21,112 21,648	953 1,024	20,159 20,624	61 65	3,984 3,751	963 1,072	3,021 2,679	34 -355	2 -103	23,277 22,910
	,	,									
2010 January	2,224	1,838	88	1,750	5	385	94	291	822	-86	2,783
February	2,057	1,692	81	1,611	5	324	88	236	628	-24	2,456
March	2,296	1,884	90	1,794	5	319	100	219	34	65	2,117
April	2,187	1,810	86 90	1,723	5	298	76	223	-364	80	1,667
May	2,231 2,134	1,881 1,797	90 86	1,791 1,712	5 5	298 282	86 90	212 192	-416 -326	-2 41	1,591 1.624
June July	2,134	1,908	91	1,817	6	329	86	243	-231	-35	1,800
August	2,221	1,900	92	1.832	6	305	84	243	-190	-15	1,853
September	2,251	1,874	89	1,785	5	282	79	202	-363	-16	1,612
October	2,343	1,942	93	1,849	6	295	96	199	-360	-54	1,639
November	2.266	1.882	90	1,792	5	273	124	150	77	-78	1,947
December	2,388	1,971	94	1,877	6	352	135	217	675	-89	2,685
Total	26,836	22,402	1,070	21,332	65	3,741	1,137	2,604	-13	-213	23,775
2011 January	2,309	E 1,972	92	E 1,880	6	371	136	235	799	-45	2,875
February	2,109	^E 1,752	79	E 1,674	5	308	125	183	584	^R -12	R 2,434
March	2,423	E 2,020	99	E 1,921	6	314	145	170	145	-16	R 2,226
April	2,363	E 1,979 E 2,046	95	^E 1,884 ^E 1,945	5 3	278	127	152	-212	-5	1,823
May	2,420 2,330	E 1,977	101 95	E 1,945		271 265	132 120	139 146	-398 -340	-28 ^R -44	1,661 ^R 1,647
June July	2,330	E 2.044	99	E 1,881	5 5	265 293	120	146	-340 -244	-8	1.876
August	2,344 2,371	E 2.051	99	E 1,944	ວ 5	293	113	168	-244 -244	-0 -7	^R 1,873
September	2,371	E 2,005	95	E 1,910	5	253	127	127	-398	R -3	1,639
October	2,496	E 2,112	104	E 2,008	5	233	110	171	-385	^R -59	^R 1,740
November	2,483	E 2,074	104	E 1,971	5	247	128	120	-37	-52	R 2,007
December	2,557	E 2,138	107	E 2,031	6	295	134	161	384	^R -67	2,514
Total	28,576	^E 24,170	1,169	E 23,000	61	3,456	1,507	1,949	-348	^R -345	^R 24,316
2012 January	2,575	E 2,150	109	E 2,042	6	281	130	150	545	^R -10	^R 2,733
February	2,380	E 1,991	102	E 1,889	5	269	130	139	459	R -7	^R 2,485
March	2,539	E 2,125	109	E 2,016	6	265	141	124 R 112	-39	^R 1	R 2,108
April	2,447	E 2,066	105	E 1,961	5	243	R 123	R 119	-137	-8	^R 1,940
May	2,532 ^R 2,422	^E 2,140 ^{RE} 2,062	108	^E 2,033 ^{RE} 1,959	4 5	257 ^R 259	134	123	-283	-25 ^R -21	1,852
June	2,422	E 2,062	103 109	E 2,024	5 5	×259 281	125 118	134 162	-230 -134	^-21 -12	1,847 2.045
July 7-Month Total	17,350	E 14,668	744	^E 13,924	36	1,854	902	952	-134 181	-12 -82	2,045 1 5,011
2011 7-Month Total	16,299	^E 13,790	661	^E 13,130	35	2,100	897	1,202	333	-157	14,543
2010 7-Month Total	15.348	12.809	612	12,198	37	2.235	619	1.616	148	39	14,038

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

^b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section. ^c See Note 2, "Natural Gas Extraction Loss," at end of section.

d

⁶ See Note 2, "Natural Gas Extraction Loss," at end of section.
 ^d Marketed production (wet) minus extraction loss.
 ^e See Note 3, "Supplemental Gaseous Fuels," at end of section.
 ^f Net withdrawals from underground storage. For 1980-2010, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section.
 ^g See Note 5, "Natural Gas Balancing Item," at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

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: • 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, September 2012, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports							Exports		
							Trinidad and							_
	Algeriaa	Canadab	Egypt ^a	Mexicob	Nigeriaa	Qatar ^a	Tobago ^a	Other ^{a,c}	Total	Canadab	Japan ^a	Mexicob	Other ^{a,d}	Tota
973 Total	3	1.028	0	2	0	0	0	0	1,033	15	48	14	0	77
975 Total	5	948	ŏ	ō	ŏ	ŏ	ŏ	ŏ	953	10	53	9	ŏ	73
980 Total	86	797	ŏ	102	ŏ	ŏ	ŏ	ŏ	985	ŏ	45	4	ŏ	49
985 Total	24	926	ŏ	0	ŏ	ŏ	ŏ	ŏ	950	ŏ	53	2	ŏ	55
990 Total	84	1,448	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	1,532	17	53	16	ŏ	80
995 Total	18	2.816	Ō	7	ŏ	ō	ō	ŏ	2,841	28	65	61	ō	154
996 Total	35	2,883	Ō	14	Ō	ō	Ō	5	2,937	52	68	34	ō	15
997 Total	66	2,899	ō	17	Ō	ō	Ō	12	2,994	56	62	38	ō	157
998 Total	69	3,052	Ó	15	Ó	Ó	Ó	17	3,152	40	66	53	Ō	159
999 Total	76	3,368	0	55	0	20	51	17	3,586	39	64	61	0	163
2000 Total	47	3,544	0	12	13	46	99	21	3,782	73	66	106	0	244
001 Total	65	3,729	0	10	38	23	98	14	3,977	167	66	141	0	373
002 Total	27	3,785	Ō	2	8	35	151	8	4,015	189	63	263	Ó	516
003 Total	53	3,437	Ó	0	50	14	378	11	3,944	271	66	343	Ó	680
004 Total	120	3,607	0	0	12	12	462	46	4,259	395	62	397	0	854
005 Total	97	3,700	73	9	8	3	439	11	4,341	358	65	305	0	729
2006 Total	17	3,590	120	13	57	0	389	0	4,186	341	61	322	0	724
2007 Total	77	3,783	115	54	95	18	448	18	4,608	482	47	292	2	822
2008 Total	0	3,589	55	43	12	3	267	15	3,984	559	39	365	0	963
009 Total	0	3,271	160	28	13	13	236	29	3,751	701	31	338	3	1,072
010 January	0	327	17	1	0	12	22	6	385	68	2	23	0	94
February	0	277	12	1	0	6	16	12	324	60	2	22	3	88
March	0	276	9	5	3	1	16	9	319	77	2	21	0	100
April	0	252	6	5	9	9	15	3	298	50	4	22	0	76
May	0	257	9	4	9	0	16	3	298	55	2	29	0	86
June	0	248	6	2	11	0	11	5	282	51	2	34	3	90
July	0	291	6	1	5	0	17	8	329	50	4	32	0	86
August	0	282	0	1	0	0	17	5	305	49	2	33	0	84
September	0	250	6	3	3	0	16	3	282	50	7	23	0	79
October	0	257	3	4	2	5	15	9	295	63	2	25	6	96
November	0	242	0	(s)	0	9	14	9	273	84	2	30	8	124
December	0	322	0	1	0	4	15	9	352	82	3	38	12	135
Total	0	3,280	73	30	42	46	190	81	3,741	739	33	333	32	1,137
011 January	0	331	3	(s)	0	13	16	9	371	85	2	37	13	136
February	0	276	6	(s)	0	0	11	15	308	84	2	37	3	125
March	0	275	6	(s)	0	14	10	9	314	98	2	41	3	145
April	0	245	6	(s)	0	4	11 8	13	278	76 80	2 3	43	6	127
May	0	235 238	3 6	(s)	0	24 5	8 11	0 6	271 265	80	3	44 47	6 0	132 120
June	0	238 272	6 0	(s)	0	5 5		6 3	265 293	64	2	47 47	0	
July	0	272 249	0	(s)	2	5	13 11	3	293 279	64 67	0	47 42	3	113 117
August	0	249	0	(s)	2	8	8	9	279	77	2	42 39	8	127
September October	0	233	3	(s) 1	0	4	8	9 12	253 281	64	2	39 43	8	12
November	0	249	0	(s)	0	° 3	0 12	0	201	84	2	43 39	3	128
December	0	269	3	(S) (S)	0	3	12	9	247	87	2	39 42	5 5	120
Total	0	3,104	35	3	2	91	129	92	3,456	937	18	500	52	1,507
012 January	0	265	0	(s)	0	4	9	3	281	84	3	40	3	13
February	0	249	3	(s)	ő	0	11	6	269	87	2	42	0	130
March	0	246	0	(s)	ŏ	4	13	3	265	93	0	46	3	14
April	Ő	235	Ő	(s)	ŏ	4	1	3	243	R 78	Ő	45	ŏ	R 123
May	ŏ	^R 241	ŏ	(s)	ŏ	6	11	Ő	257	79	3	52	ŏ	134
June	Õ	^R 251	Õ	(s)	Õ	õ	8	õ	R 259	64	2	58	Õ	12
July	Õ	265	Õ	(s)	Õ	3	12	õ	281	62	ō	57	Õ	11
7-Month Total	Ō	1,752	3	(s)	Ō	19	66	14	1,854	546	10	340	6	902
011 7-Month Total	0	1,872	29	1	0	64	80	54	2,100	557	12	295	33	897
010 7-Month Total	Ó	1,928	64	21	37	28	113	45	2,235	411	17	184	6	619

^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 and exported to Mexico beginning in 1998.
 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; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002-2005; Norway in 2008

forward; 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 forward; China in 2011; Chile in 2011; India in 2010 forward;

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.

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, September 2012, 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	e Sectors						
					Industrial			Tr	ansportatio	n		
	Resi-	Com-	Lease and		Other Industr	al	-	Pipelines ^d and Dis-	Vehicle		Electric Power	
	dential	merciala	Plant Fuel	CHPb	Non-CHP ^c	Total	Total	tribution ^e	Fuel	Total	Sector ^{f,g}	Total
1973 Total 1975 Total 1980 Total 1980 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2009 Total	4,924 4,752 4,433 4,391 4,850 5,241 4,984 4,520 4,726 4,996 4,726 4,996 4,779 4,889 4,827 4,889 4,827 4,889 4,827 4,822 4,892 4,779	2,597 2,508 2,611 2,432 2,623 3,158 3,215 2,999 3,045 3,182 3,023 3,129 2,832 3,013 3,179 3,129 2,832 3,013 3,153 3,119	1,496 1,396 1,026 966 1,230 1,220 1,220 1,220 1,220 1,203 1,173 1,079 1,151 1,119 1,113 1,122 1,098 1,112 1,142 1,226 1,220 1,275	(h) (h) (h) 1,055 1,258 1,289 1,355 1,401 1,386 1,310 1,240 1,141 1,084 1,115 1,050 990	8,689 6,968 7,172 5,901 5,903 6,906 7,146 7,229 6,965 6,678 6,035 6,678 6,035 6,007 6,066 5,518 5,412 5,604 5,715 5,178	8,689 6,968 7,172 5,901 ¹ 7,018 8,164 8,435 8,320 8,079 8,142 7,344 7,344 7,344 7,256 7,256 7,256 6,527 6,670 6,167	10,185 8,365 8,198 6,867 8,255 9,384 9,493 9,493 9,493 9,493 9,493 9,493 8,463 8,463 8,273 8,354 7,713 7,669 7,881 7,890 7,443	728 583 504 660 700 711 635 645 642 625 667 591 566 584 584 648 648 670	NA NA NA (\$) 5 6 8 9 12 13 15 15 18 23 24 26 27	728 583 504 660 705 718 760 645 655 640 645 655 640 682 610 587 608 608 646 674 697	3,660 3,158 3,044 3,245 4,237 3,807 4,065 4,588 4,820 5,342 5,5342 5,545 5,464 5,869 6,222 6,841 6,668 6,873	22,049 19,538 19,877 17,281 19,174 22,207 22,609 22,737 22,246 22,405 23,333 22,239 23,027 22,2403 22,277 22,403 22,014 21,699 23,104 23,277 22,910
2010 January February March July July September October November December Total	934 796 580 313 198 134 111 107 117 202 447 848 4,787	499 441 337 215 161 130 120 127 133 185 287 467 3,102	106 98 109 104 107 102 107 108 107 112 108 114 1,282	90 80 84 79 82 84 91 95 87 84 82 92 1,029	526 490 488 435 427 420 420 419 424 438 469 521 5,488	616 570 574 514 504 512 514 511 522 551 613 6,517	722 667 681 618 626 607 619 622 618 634 659 727 7,800	80 70 46 44 45 50 52 45 45 55 76 669	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 1	82 72 62 49 47 48 53 55 47 48 57 79 700	546 480 457 560 706 897 943 697 570 497 564 7,387	2,783 2,456 2,117 1,667 1,591 1,624 1,800 1,853 1,612 1,639 1,947 2,685 23,775
2011 January February April May June July August September October December December Total	^R 973 771 607 348 208 134 112 109 122 227 430 688 R 4,729	529 433 365 236 168 132 130 135 141 R 213 284 398 3,164	E 113 E 100 E 116 E 113 E 117 E 117 E 117 E 117 E 117 E 121 E 122 E 1,383	89 79 81 82 87 83 88 89 84 81 86 94 1,024	545 R 497 R 509 R 464 454 R 432 R 443 432 R 443 442 R 468 R 526 R 5,698	R 635 R 576 590 R 546 R 541 R 541 S20 R 532 S26 R 532 R 526 R 572 R 620 R 6,721	R 748 676 R 706 659 658 R 628 649 641 R 670 R 691 R 742 R 8,105	E 81 E 68 E 63 E 51 E 47 E 46 E 53 E 46 E 53 E 46 E 53 E 46 E 56 E 71 E 684	E 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E 84 E 71 E 65 E 50 E 49 E 55 E 49 E 55 E 49 E 55 E 74 E 717	542 482 483 526 578 705 942 923 686 578 578 578 578 578 578 578 578 578	2,875 ^R 2,434 ^R 2,226 1,823 1,661 ^R 1,647 1,876 ^R 1,873 1,639 ^R 1,740 ^R 1,740 ^R 2,007 2,514 ^R 2 4,316
2012 January February April June July 7-Month Total	803 668 408 283 165 125 109 2,560	448 ^R 389 263 ^R 210 150 133 126 1,720	E 123 E 114 E 122 E 118 E 123 E 118 E 122 E 840	94 87 89 84 90 92 98 635	R 533 R 505 R 485 463 450 441 441 3,319	^R 627 ^R 592 ^R 574 547 541 ^R 534 539 3,954	751 ^R 706 ^R 695 665 663 ^R 652 661 4,794	E 77 E 70 E 59 E 55 E 52 E 52 E 58 E 422	E3 E3 E3 E3 E3 E3 E3 E 19	E 80 E 73 E 62 E 57 E 55 E 60 E 441	651 649 680 724 819 884 1,088 5,495	R 2,733 R 2,485 R 2,108 R 1,940 1,852 1,847 2,045 15,011
2011 7-Month Total 2010 7-Month Total	3,153 3,066	1,993 1,903	^E 789 733	590 589	3,333 3,217	3,922 3,806	4,712 4,539	^E 409 396	^E 19 18	^E 428 413	4,258 4,116	14,543 14,038

^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 of combined of the sector of the se

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

feet

Notes: • Data are for natural gas, plus a small amount of supplemental

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 (NGM), September 2012, 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 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). 1999-2006—EIA, NGA, annual reports. 2007 forward—EIA, NGM, September 2012, Table 7.4b.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in Inderground Storage End of Period	9,	From Sa	Norking Gas me Period us Year		Storage Activity	
	Base Gas	Working Gas	Totala	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	-344
900 TOtal				-270	-3.6 -9.4			231
985 Total	3,842	2,607	6,448			2,359	2,128	
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
000 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814
001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
002 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
003 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193
004 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113
005 Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55
006 Total	4,211	3,070	7,281	435	16.5	2,493	2,924	-431
007 Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192
008 Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34
009 Total	4,277	3,130	7,407	290	10.2	2,966	3,315	-349
010 January	4,276	2,304	6,580	171	8.0	873	63	811
February	4,278	1,683	5,961	-75	-4.2	657	38	619
March	4,278	1,652	5,930	-7	4	238	207	31
April	4.278	2.011	6,289	101	5.3	68	427	-360
May	4,279	2,420	6,699	45	1.9	53	463	-410
	4,287	2,740	7,027	-20	7	64	385	-321
June								
July	4,287	2,966	7,253	-125	-4.0	112	339	-227
August	4,290	3,153	7,443	-206	-6.1	137	323	-186
September	4,294	3,508	7,801	-138	-3.8	52	411	-359
October	4,305	3,851	8,156	41	1.1	52	407	-355
November	4,309	3,769	8.078	-69	-1.8	237	163	74
December	4,301	3,111	7,412	-19	6	731	66	665
Total	4,301	3,111	7,412	-19	6	3,274	3,291	-17
011 January	4,306	2,308	6,614	4	.2	852	53	799
February	4,306	1,724	6,029	40	2.4	668	84	584
March	4,300	1,581	5,884	-72	-4.3	317	172	145
	4,304	1,789	5,004 6,096	-222	-4.3 -11.0	108	320	-212
April								
May	4,308	2,188	6,495	-232	-9.6	66	464	-398
June	4,305	2,530	6,835	-210	-7.7	90	430	-340
July	4,304	2,774	7,079	-192	-6.5	124	368	-244
August	4,304	3,020	7,323	-133	-4.2	138	382	-244
September	4,305	3,416	7,721	-92	-2.6	64	462	-398
October	4,305	3,804	8,109	-46	-1.2	62	448	-385
November	4,302	3,843	8,145	74	2.0	198	235	-37
December	4,305	3,462	7,767	351	11.3	488	105	384
Total	4,305	3,462	7,767	351	11.3	3,175	3,523	-348
012 January	4,307	2,916	7,223	608	26.4	633	88	545
February	4,307	2,455	6,762	731	42.4	526	67	459
March	4,325	2,477	6,802	896	56.7	217	256	-39
April	4,329	2,613	6,942	824	46.1	144	282	-137
May	4,334	2,890	7,225	703	32.1	92	375	-283
June	4,337	3,118	7,456	589	23.3	109	339	-230
July	4,339	3,246	7,585	472	17.0	129	263	-134
7-Month Total						1,850	1,669	181
011 7-Month Total						2,225	1,891	333
010 7-Month Total						2,065	1,921	143

^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 1980-2010, data differ from those shown on Table 4.1, which includes

^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, September 2012, 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 FEC-8, "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, Form FERC-8, "Underground Gas Storage Report." 1996-2006—EIA, NGM, monthly issues. 2007 forward—EIA, NGM, September 2012, 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:

1001, 11 ab.		
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 ^p 8,776
1986 8,145	1999 8,229	
1987 8,124	2000 8,241	
	1	1

P=Preliminary

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 1980–2010 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).

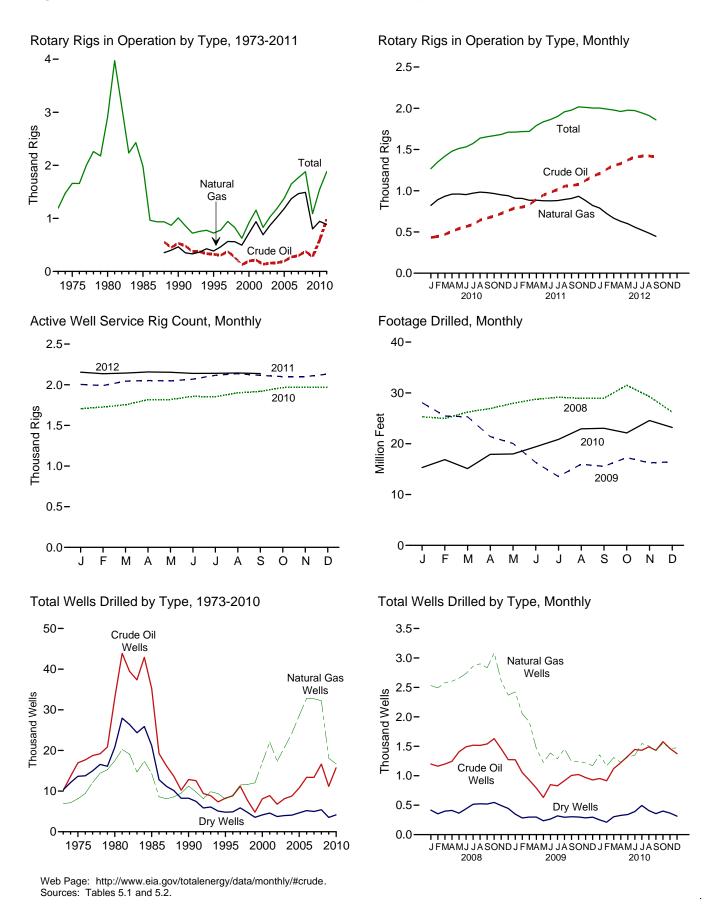
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago, 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.

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

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



Rotary Rigs in Operation^a Bv Site Active By Type Well Service Rig Count^c Onshore Offshore Crude Oil Natural Gas Totalb 1973 Average 84 106 231 2.008 1.110 1.194 NA NA NA NA NA 532 1975 Average 1,554 2,678 NΔ 1,660 2,909 2,486 4,089 4,716 3,658 3,041 3,445 3,499 3,014 2,232 2,692 1980 Average NA NA 464 385 1,774 902 206 1,980 1985 Average 1990 Average 1995 Average 108 101 1,010 723 779 943 622 323 108 122 123 306 376 264 464 564 560 1996 Average 1997 Average 671 821 1998 Average 703 827 1999 Average 2000 Average 106 140 496 720 519 128 625 197 778 918 1,003 717 924 2001 Average 2002 Average 153 113 108 97 94 90 72 65 44 217 137 939 691 1,156 830 2,267 1,830 2003 Average 2004 Average 157 165 872 1,025 1,032 1,192 1,967 2,064 1,095 2,222 2,364 2,388 2005 Average 2006 Average 2007 Average 1.287 194 1.184 1.381 1,559 274 297 1,372 1,649 2008 Average 2009 Average 1.814 379 278 491 1,879 1,089 2,515 1,722 1,046 801 42 45 2010 January 1,225 433 822 1,267 1,706 1,350 1,419 1,479 February March 1.305 446 892 1.726 ^R 1,369 1,426 R 50 53 49 20 15 20 19 21 22 24 471 508 933 959 1,754 1,816 April May June 541 566 960 953 1,513 1,531 1,818 1,857 1,464 1,511 July August 971 1.558 591 1.573 1.852 644 668 983 977 1,638 1,655 1,900 1,918 1,619 September 1,635 693 723 759 October November 1,668 1,683 1,965 1,971 1.647 966 950 940 R 1,661 December 1 687 1 711 1 968 31 Average 1,514 591 943 1,546 1,854 1,686 1,692 26 26 28 32 34 35 35 32 35 37 42 **32** 793 801 909 907 2,004 1,990 2011 January 1,711 1.718 February 2,044 2,052 2,047 2,069 2,116 830 896 1,720 1,790 1,836 March 1,694 884 April May 1,762 885 1,804 948 878 1,829 1,865 979 1,014 877 880 1,863 1,900 June July 2,136 2,115 2,100 August September 1 923 1 055 894 1 957 1,946 1,978 1,063 907 October November 933 2,100 2,100 2,131 1,974 880 2,011 1,125 R 821 R 2,003 December 1.961 1.177 Average 1,846 984 887 1,879 2,075 R 43 42 43 44 46 49 2,154 2,135 2,143 2,157 2,153 2012 January R 1.960 2,003 1.208 790 February March 1,949 1,261 723 667 1,935 1,979 April May 1,917 1,931 1,329 1,373 629 600 1,961 1,977 June 2,139 2,140 ^R2,144 1.923 1 409 558 1 972 July August September 51 R 50 522 487 1,894 1,419 1,944 1 423 1 913 1 863 1,808 1,909 51 47 1,409 1,351 447 1,859 1,955 2,137 2,137 9-Month Average 600 2011 9-Month Average 2010 9-Month Average 1,835 1,493 2,064 1,816 1,805 30 936 891 1.459 35 541 940

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

^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

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.

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/bhi/rig_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-See fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells I	Drilled						j
-		Explo	atory			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	562	2,113	3,166	10,715	10,936	3,761	25,412	11,206	11,498	5,874	28,578	161,249
1998 Total	327	566	1,590	2,483	7,355	11,073	3,171	21,599	7,682	11,639	4,761	24,082	137,202
1999 Total	197 288	570 657	1,157	1,924	4,608	11,457	2,393	18,458	4,805	12,027	3,550	20,382	102,861
2000 Total	200	1,052	1,341 1,733	2,286 3,142	7,802 8,531	16,394 21,020	2,805 2,865	27,001 32,416	8,090 8,888	17,051 22,072	4,146 4,598	29,287 35,558	144,425 180,141
2001 Total 2002 Total	258	844	1,282	2,384	6,517	16,498	2,805	25,487	6,775	17,342	3,754	27,871	145,159
2002 Total	350	997	1,202	2,504	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,239
2003 Total	383	1,671	1,257	3,404	8,406	22,515	2,005	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	68	189	130	387	1,177	2,415	281	3,873	1,245	2,604	411	4,260	26,920
May	88	206	124	418	1,317	2,449	240	4,006	1,405	2,655	364	4,424	27,947
June	63 79	195	139	397 413	1,428	2,540	299 344	4,267	1,491 1,518	2,735 2,858	438	4,664 4,891	28,739
July	79 67	163 165	171 144	376	1,439 1,448	2,695 2,735	344 379	4,478 4,562	1,516	2,000	515 523	4,891	29,140 28,942
August September	52	166	164	382	1,448	2,735	379	4,502	1,515	2,900	523	4,938	28,942
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	1,100	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	171	99	350	1,192	2,253	250	3,695	1,272	2,424	349	4,045	28,077
February	62	125	88 88	275 293	991	1,925	195	3,111	1,053	2,050	283	3,386	25,440
March	59 36	146 68	88 93	293 197	867 755	1,771	210 205	2,848 2.356	926 791	1,917 1,464	298 298	3,141	25,304
April	30 47	90	93 80	217	755 584	1,396 1,136	205 156	2,356	631	1,404	290	2,553 2,093	21,406 20,055
May June	44	91	75	217	804	1,130	189	2,290	848	1,388	264	2,033	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	2,134	916	1,200	295	2,667	15,970
September	61	71	96	228	945	1,170	207	2,322	1,006	1,430	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	34	98	84	216	894	1,074	213	2,181	928	1,172	297	2,397	16,424
Total	605	1,206	1,055	2,866	10,585	16,882	2,470	29,937	11,190	18,088	3,525	32,803	231,562
2010 January	55 44	91 71	81 67	227	898 871	1,264 1.096	169	2,331	953	1,355	250	2,558	15,304
February	44 59	71 85	67 88	182 232	871 1,062	1,096	144 216	2,111 2,502	915 1,121	1,167 1,309	211 304	2,293 2,734	16,862 15,102
March April	59 49	85 78	88 77	232 204	1,062	1,224	216	2,502	1,121	1,309	304 326	2,734 2,778	15,102
May	49 48	107	86	204 241	1,173	1,152	249 255	2,574 2,745	1,222	1,230	320 341	2,778	17,904
June	40 61	107	90	251	1,285	1,250	302	2,937	1,330	1,313	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	100	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
Total	669	1,105	1,066	2,840	15,084	15,591	3,096	33,771	15,753	16,696	4,162	36,611	

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.

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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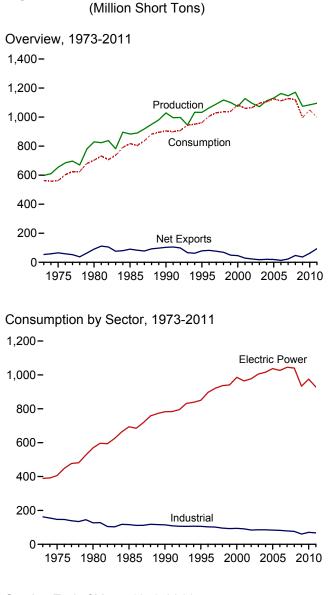
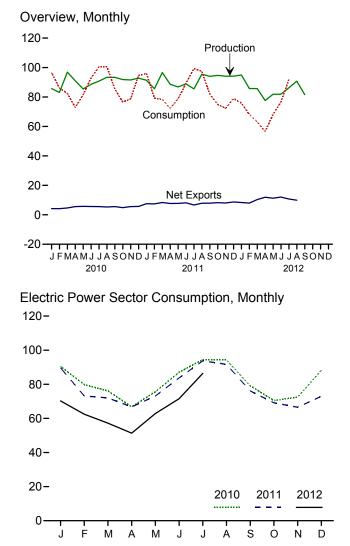
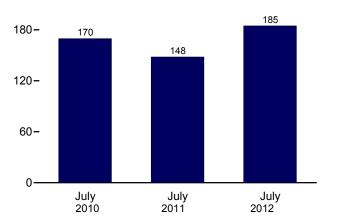


Figure 6.1

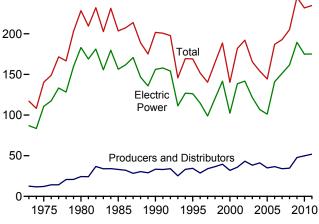
Coal



Electric Power Sector Stocks, End of Month 240-



Stocks, End of Year, 1973-2011 250-



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

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
975 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
985 Total	883,638	NA	1,952	92,680	-90,727	-27,934	2,796	818,049
990 Total	1,029,076	3,339	2,699	105,804	-103,104	26,542	-1,730	904,498
995 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
998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4.430	1,037,103
	1,100,431	8,683	9,089	58,476	-49,387	23,988	-2,906	1,038,647
999 Total								
000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48,309	938	1,084,095
001 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
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 January	85,711	1,187	1,665	5,866	-4,202	-10,695	-3,103	96,494
February	83,087	908	1,239	5,386	-4,146	-7,306	1,154	86,001
March	96,904	1,192	1,899	6,554	-4,655	8,127	2,870	82,444
April	90,960	1,071	1,812	7,358	-5,545	11,519	2,176	72,790
May	85,401	1,138	1,475	7,220	-5,745	2,723	-3,500	81,570
June	88,621	1,219	1,771	7,387	-5,616	-9,407	647	92,983
July	90,795	1,273	1,390	6,928	-5,539	-15,499	1,446	100,582
August	93,350	1,261	1,702	7,001	-5,299	-8,766	-2,316	100,393
September	93,360	1,102	1,588	7,145	-5,556	5,111	-1,591	85,386
October	91,831	982	1,775	6.623	-4.849	11,463	-90	76,591
November	91,558	1,121	1,473	7,015	-5,542	8,878	-437	78,697
December	92,791	1,197	1,563	7,232	-5,669	-9,187	2,925	94,582
Total	1,084,368	13,651	19,353	81,716	-62,363	-13,039	182	1,048,514
011 January	91,355	1,187	1,014	8,509	-7,496	-11,414	499	95,961
February	85,575	1,030	843	8,275	-7,432	-3,196	3,109	79,259
March	96,548	1,068	1,524	9,832	-8.308	4.097	6.890	78,320
April	88,563	910	1,136	8,843	-7,706	9,055	402	72,310
May	86,850	852	1,313	9,042	-7,730	2,348	-1,243	78,868
June	88.878	1.109	970	9,102	-8,132	-9.771	2.193	89.434
July	85,498	1,173	1,208	7,865	-6,657	-15,675	-3,622	99,311
August	95,495	1,142	1,545	9,387	-7,843	-10,712	2,088	97,418
	94.013	1.087	835	8,723	-7,888	5.044	2,088	81,909
September	94,013	999	835 917				-1.052	
October				9,159	-8,242	13,535		74,916
November	94,109	1,039	807	8,808	-8,001	11,801	2,997	72,349
December	94,101	934	976	9,713	-8,737	7,812	-481	78,968
Total	1,095,628	12,529	13,088	107,259	-94,171	2,924	12,039	999,022
12 January	94,944	1,068	789	9,126	-8,337	2,713	^R 9,083	^R 75,879
February	85,763	891	534	8,460	-7,927	6,532	^R 4,128	^R 68,068
March	85,698	837	699	11,055	-10,356	10,601	^R 2,598	^R 62,979
April	77,624	725	623	12,529	-11,905	^R 7,382	^R 2,473	^R 56,589
May	81,825	892	986	12,257	-11,271	^R -898	^R 4,226	^R 68,119
June	81,911	854	719	12,749	-12,030	^R -4,508	^R -1,350	^R 76,594
July	86,244	^{RF} 1,069	^R 894	^R 11.623	^R -10,729	^R -14,792	^R -471	^R 91,847
August	90,768	NA	^R 667	^R 10,597	^R -9,930	ŇĂ	NA	NA
September	81,605	NA	NA	NA	NA	NA	NA	NA
9-Month Total	766,382	NA	NA	NA	NA	NA	NA	NA
011 9-Month Total	812,775	9,557	10,388	79,579	-69,192	-30,224	10,575	772,789
010 9-Month Total	808,188	10,352	14,541	60,846	-46,304	-24,193	-2,216	798,644

^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)

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

Waste coal (including intercoal, coal obtained from a reuse 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."
^c Net imports equal imports minus exports. A minus sign indicates exports are revent them imports.

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

sectors. ^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 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.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-U	Jse Sectors	5					
			Commerci	al			Industrial					
	Resi-				Coke		ther Industria	al		Trans-	Electric Power	
	dential	CHPa	Other ^b	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
973 Total	4,113	(g)	7,004	7,004	94,101	(^h) (^h)	68,038	68,038	162,139	116	389,212	562,58
975 Total 980 Total	2,823 1,355	(g) (g)	6,587 5,097	6,587 5,097	83,598 66,657	(h)	63,646 60,347	63,646 60,347	147,244 127,004	(^h)	405,962 569,274	562,64 702,73
985 Total	1,555	(9)	6,068	6,068	41,056	(h)	75,372	75,372	116,429	}h	693,841	818,04
990 Total	1.345	1.191	4.189	5.379	38.877	27.781	48.549	76.330	115.207	2hj	782.567	904.49
995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	(h)	850,230	962,10
996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	('n)	896,921	1,006,32
997 Total	711	1,738	4,015	5,752	30,203	29,853	41,661	71,515	101,718	(h)	921,364	1,029,54
998 Total 999 Total	534 585	1,443 1,490	2,879 2,803	4,322 4,293	28,189 28,108	28,553 27,763	38,887 36,975	67,439 64,738	95,628 92,846	(") (h)	936,619 940,922	1,037,10 1,038,64
000 Total	454	1,547	2,803	3,673	28,939	28,031	37,177	65,208	92,040	}n{	985,821	1,038,04
001 Total	481	1,448	2,441	3,888	26,075	25,755	39,514	65,268	91,344	(h)	964,433	1,060,14
002 Total	533	1,405	2,506	3,912	23,656	26,232	34,515	60,747	84,403	(<u>h</u>)	977,507	1,066,35
003 Total	551	1,816	1,869	3,685	24,248	24,846	36,415	61,261	85,509	('n)	1,005,116	1,094,86
004 Total	512	1,917	2,693	4,610	23,670	26,613	35,582	62,195	85,865	(h)	1,016,268	1,107,25
005 Total 006 Total	378 290	1,922 1,886	2,420 1,050	4,342 2,936	23,434 22,957	25,875 25,262	34,465 34,210	60,340 59,472	83,774 82,429	(h) (h)	1,037,485	1,125,97
006 Total	290	1,000	1,050	2,930	22,957	25,262	34,210	59,472 56,615	62,429 79,331	(n)	1,026,636 1,045,141	1,112,29
007 Total	353	2,021	1,247	3,175	22,713	22,557	32,491	54.393	76,463	(h)	1,040,580	1,120,54
009 Total	353	1,798	1,059	2,857	15,326	19,766	25,549	45,314	60,641	('n)	933,627	997,47
010 January	43	193	156	349	1,472	2,094	2,084	4,178	5,650	(^h)	90,452	96,49
February	37	167	136	303	1,584	1,978	2,215	4,193	5,777	(h) (h)	79,884	86,00
March	33	149	121	271	1,801	2,124	2,106	4,230	6,030	(") (h)	76,110	82,44
April	21 21	117 118	54 55	171 173	1,786 1,794	2,220 2,010	1,749 1,975	3,969 3,985	5,755 5,779	(") (h)	66,842 75,597	72,79 81,57
May June	21	135	62	197	1,794	1,898	2,061	3,965	5,732	}h {	87,030	92,98
July	24	142	48	190	1,783	2,122	1,944	4,066	5,849	(h)	94,519	100,58
August	25	152	52	203	1,814	2,194	1,909	4,103	5,917	(h)	94,247	100,39
September	22	133	45	178	1,894	1,941	2,174	4,115	6,010	(h)	79,176	85,38
October	26	121	86	207	1,731	1,958	2,178	4,136	5,866	(<u>h</u>)	70,492	76,59
November	27	128	90	218	1,787	1,854	2,297	4,151	5,938	(h) (h)	72,514	78,69
December Total	35 339	165 1,720	116 1,022	281 2,742	1,874 21,092	2,246 24,638	1,957 24,650	4,203 49,289	6,077 70,381	(^h)	88,189 975,052	94,58 1,048,51
011 January	40	178	144	322	1,746	2,320	1,852	4,172	5,917	(^h)	89,682	95,96
February	37	165	133	298	1,623	2,044	2,101	4,145	5,769	(h) (h)	73,156	79,25
March	35	158	127	285	1,819	2,088	2,085	4,173	5,991	(") (h)	72,009	78,32
April May	23 24	124 128	65 67	189 194	1,668 1,878	1,767 2,126	1,922 1,546	3,689 3,672	5,357 5,550	('') (h)	66,741 73,100	72,31 78.86
June	24	120	65	194	1,846	2,126	1,620	3,672	5,550 5,522	(h)	83,700	78,80 89,43
July	21	134	32	166	1,670	2,208	1,510	3,718	5,388	(h)	93,736	99,31
August	19	124	30	154	1,863	2,182	1,533	3,715	5,578	('n)	91,667	97,41
September	19	121	29	150	1,874	2,100	1,635	3,735	5,609	(h)	76,131	81,90
October	21	116	50	166	1,784	2,080	1,756	3,836	5,621	(h) (h)	69,109	74,91
November December	22 24	123 138	52 59	176 197	1,772 1,891	1,835 1,927	1,987 1,958	3,822 3,885	5,594 5,776	(") (h)	66,557 72,971	72,34 78,96
Total	307	1,633	852	2,485	21,434	24,733	21,504	46,238	67,671	(h)	928,558	999,02
012 January	28	154	69	224	1,701	2,102	^R 1,594	^R 3,696	^R 5,397	(^h)	70,231	^R 75,87
February	25	137	62	199	1,687	1,890	^R 1,817	^R 3,708	^R 5,395	('n)	62,450	^R 68,06
March	23	131	59	190	1,895	1,921	R 1,738	^R 3,659	^R 5,554	(h) (h)	57,211	R 62,97
April	15 16	111 117	10 11	121	^R 1,765 ^R 1,839	1,589	^R 1,741 ^R 1,630	^R 3,331 ^R 3,310	^R 5,096 ^R 5,149	(") (h)	51,357	^R 56,58 ^R 68,11
May	16 15	117 110	11 10	127 120	[►] 1,839 ^R 1,641	1,680 1,643	^R 1,630 ^R 1,662	^R 3,310 ^R 3,305	[►] 5,149 ^R 4,946	(") (h)	62,827 71,514	^R 68,11 ^R 76,59
June July	F 22	115	F 64	F 180	F 1,793	1,643	F 1,709	F 3,449	F 5,242	(h)	86,404	91,84
7-Month Total	^E 143	875	^E 285	E 1,160	E 12,320	12,567	E 11,891	E 24,457	E 36,778	(h)	461,994	500,07
011 7-Month Total 010 7-Month Total	203 204	1,010 1,021	633 633	1,643 1,654	12,250 11,992	14,609 14,446	12,635 14,134	27,244 28,580	39,493 40,573	(^h) (^h)	552,123 570,434	593,46 612,86

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

1989, data also include consumption at independent power producers.

⁹ Included in "Commercial Other." ^h Included in "Industrial Non-CHP." R=Revised. E=Estimate. F=Forecast. Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Coal Consumption," at end of section. • Data 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

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Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors				
	Producers and	Residential and		Industrial			Electric Power	
	Distributors	Commercial	Coke Plants	Othera	Total	Total	Sector ^{b,C}	Total
973 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	154,000
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 January	48,854	510	1,832	4,798	6,630	7,140	178,091	234,085
February	49,069	490	1,708	4,486	6,194	6,684	171,026	226,779
March	50,936	471	1,583	4,175	5,758	6,229	177,742	234,906
April	50,761	482	1,715	4,207	5,922	6,404	189,260	246,425
May	50,900	494	1,846	4,239	6,086	6,579	191,669	249,148
June	51,497	505	1,978	4,272	6,250	6,755	181,490	239,741
July	47,935	509	1,948	4,345	6,294	6,803	169,504	224,242
August	48,638	513	1,918	4,419	6,337	6,851	159,987	215,476
September	49,913 49,430	517 529	1,889 1.901	4,492 4,503	6,381 6.404	6,899 6,933	163,776 175.686	220,587 232.050
	-,	529 541	1,901	4,503	6,404	- ,	- /	- ,
November December	50,571 49,820	541 552	1,913 1,925	4,514 4,525	6,420 6,451	6,968 7,003	183,389 174,917	240,928 231,740
011 January	48.709	536	1.937	4,305	6,241	6,777	164,840	220,327
February	49,140	520	1,948	4,084	6,032	6,552	161,439	217,13
March	48,165	503	1,959	3,864	5,823	6,326	166,737	221,228
April	49.852	505	1,958	3,969	5,927	6,433	173.999	230.283
May	51.473	508	1,957	4,075	6,032	6,539	174,619	232,631
June	50,507	510	1,956	4,073	6,136	6,646	165,707	232,860
July	52.420	513	2.082	4.203	6.285	6,798	147.967	207.185
August	50,287	515	2,221	4,225	6,446	6,961	139,225	196,473
September	49,909	518	2,405	4,247	6,652	7,170	144,438	201,517
October	50,810	546	2,473	4,316	6,790	7,336	156,906	215,052
November	50,997	575	2,541	4,386	6,927	7,502	168,354	226,853
December	51,897	603	2,610	4,455	7,065	7,668	175,100	234,664
012 January	F 48,424	587	2,507	4,238	6,745	7,332	181,621	237,377
February	F 49,954	572	2,403	4,021	^R 6,425	^R 6,997	186,958	^R 243,909
March	^F 51,458	557	2,300	3,804	^R 6,105	6,661	196,391	254,510
April	^F 51,705	566	^R 2,316	^R 3,911	^R 6,227	^R 6,793	203,394	^R 261,892
	^F 51,253	575	^R 2,331	^R 4,018	^R 6,349	^R 6,925	202,816	R 260,994
June	^F 51,007	585	^R 2,347	^R 4,125	^R 6,472	^R 7,057	198,422	^R 256,486
July	F 49,859	F 586	F 2,308	F 4,356	F 6,664	F 7,250	184,586	241,694

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

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

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

R=Revised. NA=Not available. F=Forecast. Notes: • Stocks are at end of period. • Electric power sector monthly values

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 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.

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

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

Industrial Other—Prior to 1978, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. For 1978 and 1979, monthly estimates were derived from data reported on Forms EIA-3 and EIA-6. For 1980–1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Beginning in January 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the Federal Reserve System. Indices for six major industry groups are used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 311; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; non-metallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights. Prior to 2008, quarterly consumption data for the other industrial sector were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, and construction consumption data were included where appropriate. Beginning in 2008, quarterly consumption totals for other industrial coal include data for manufacturing and mining only. Over time, surveyed coal consumption data for agriculture, forestry, fishing, and construction dwindled to about 20,000 to 30,000 tons annually. Therefore, in 2008, EIA consolidated its programs by eliminating agriculture, forestry, fishing, and construction as surveyed sectors.

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

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

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

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

Industrial Coke Plants—Prior to 1980, monthly stocks at coke plants were taken directly from reported data.

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

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

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

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

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

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

Table 6.1 Sources

Production

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

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

Waste Coal Supplied

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and

Quality Report-Manufacturing Plants."

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

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

Imports and Exports

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

Stock Change

Calculated from data in Table 6.3. (The 1973 stock change value is calculated using the 1972 total stocks value of 116,753 thousand short tons from EIA, *Annual Energy Review*, 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

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(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.

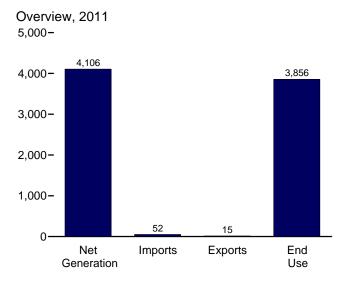
Electric Power

Table 7.5.

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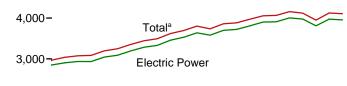


Figure 7.1 Electricity Overview (Billion Kilowatthours)



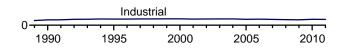
Net Generation by Sector, 1989-2011

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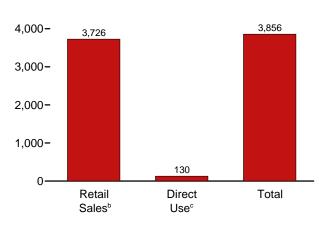
2,000-

1,000-



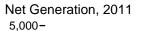


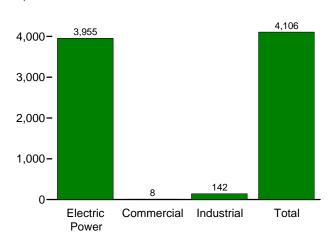




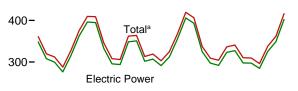


^b Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.



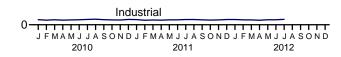


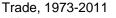
Net Generation by Sector, Monthly 500-

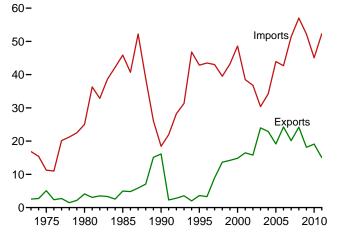


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° See "Direct Use" in Glossary.

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

Table 7.1 Electricity Overview

(Billion Kilowatthours)

Electric Power Sector ^a 1973 Total 1,861 1975 Total 1,918 1980 Total 2,286 1985 Total 2,901 1995 Total 3,194 1995 Total 3,291 1995 Total 3,229 1998 Total 3,229 1998 Total 3,530 2000 Total 3,638 2001 Total 3,638 2001 Total 3,638 2003 Total 3,698 2004 Total 3,808 2005 Total 3,902 2006 Total 3,903 2007 Total 4,005 2008 Total 3,974 2009 Total 3,810 2010 January 348 February 300 April 276 May 316 July 396 August 3995 September 323 October 296 November 2921 March 307	ectric Com-									
975 Total 1,918 980 Total 2,286 985 Total 2,470 990 Total 2,901 995 Total 3,194 995 Total 3,284 997 Total 3,229 998 Total 3,457 999 Total 3,530 000 Total 3,638 001 Total 3,638 001 Total 3,638 000 Total 3,902 000 Total 3,902 000 Total 3,901 000 Total 3,902 000 Total 3,902 000 Total 3,903 000 Total 3,904 000 Total 3,902 000 Total 3,903 000 Total 3,904 000 Total 3,902 000 Total 3,903		Indus- trial Sector ^c	Total	Imports ^d	Exportsd	Net Imports ^d	T&D Losses ^e and Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
975 Total 1,918 980 Total 2,286 985 Total 2,470 990 Total 2,901 995 Total 3,194 996 Total 3,284 997 Total 3,229 998 Total 3,457 999 Total 3,530 000 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,638 003 Total 3,721 004 Total 3,608 005 Total 3,902 006 Total 3,902 007 Total 4,005 008 Total 3,902 007 Total 3,001 008 Total 3,974 009 Total 3,810 001 January 348 February 308 March 300 April 276 May 316 June 363 July 396 August 3972 2011 January 351	964 NA	•	4 964	47	•		465	4 740	N A	4 74 2
980 Total 2,286 985 Total 2,470 995 Total 2,901 995 Total 3,194 996 Total 3,284 996 Total 3,284 997 Total 3,229 998 Total 3,457 999 Total 3,530 000 Total 3,638 001 Total 3,658 002 Total 3,698 003 Total 3,721 004 Total 3,698 003 Total 3,902 006 Total 3,902 007 Total 4,005 008 Total 3,974 009 Total 3,808 March 300 August 395 September 294 December 349 Total 3,972		3 3	1,864	17	3 5	14 6	165	1,713	NA	1,713
985 Total 2,470 990 Total 2,901 995 Total 3,194 996 Total 3,291 995 Total 3,224 997 Total 3,229 998 Total 3,457 999 Total 3,638 000 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,638 005 Total 3,902 006 Total 3,902 006 Total 3,902 007 Total 4,005 008 Total 3,902 007 Total 3,810 010 January 348 February 308 March 300 April 276 May 316 July 396 September 233 October 294 December 349 Total 3,972 011 January 351			1,921	11			180	1,747	NA	1,747
990 Total 2,901 995 Total 3,194 995 Total 3,284 997 Total 3,229 998 Total 3,457 999 Total 3,530 000 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,688 003 Total 3,721 004 Total 3,608 005 Total 3,902 006 Total 3,908 007 Total 4,005 008 Total 3,974 009 Total 3,810 001 January 348 February 308 March 300 April 276 May 316 June 363 July 396 August 3972 0011 January 351 February 302 March 307 December 349 Total 3,972 0011 Janu		3	2,290	25	4	21	216	2,094	NA	2,094
995 Total 3,194 996 Total 3,284 997 Total 3,229 998 Total 3,457 999 Total 3,530 000 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,698 002 Total 3,698 003 Total 3,902 006 Total 3,902 006 Total 3,902 006 Total 3,908 007 Total 4,005 008 Total 3,974 009 Total 3,810 010 January 348 February 308 March 300 August 395 September 233 October 296 November 294 December 349 Total 3,972 011 January 351 February 302 March 307		3	2,473	46	5	41	190	2,324	NA	2,324
996 Total 3,284 997 Total 3,329 998 Total 3,457 999 Total 3,638 000 Total 3,638 001 Total 3,638 002 Total 3,638 003 Total 3,638 001 Total 3,638 001 Total 3,638 002 Total 3,698 003 Total 3,721 004 Total 3,808 005 Total 3,902 006 Total 3,902 007 Total 4,005 008 Total 3,902 007 Total 3,810 010 January 348 February 308 March 300 April 276 May 316 July 395 September 233 October 294 December 349 Total 3,972 011 January 351 February 307 <td< td=""><td></td><td>131</td><td>3,038</td><td>18</td><td>16</td><td>2</td><td>203</td><td>2,713</td><td>125</td><td>2,837</td></td<>		131	3,038	18	16	2	203	2,713	125	2,837
997 Total 3,329 998 Total 3,457 998 Total 3,530 000 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,638 001 Total 3,688 002 Total 3,698 003 Total 3,721 004 Total 3,908 005 Total 3,902 006 Total 3,902 006 Total 3,902 006 Total 3,903 007 Total 4,005 008 Total 3,974 009 Total 3,810 010 January 348 February 300 April 276 May 316 June 363 July 396 August 395 September 233 October 296 November 291 March 307 May 312 June		151	3,353	43	4	39	229	3,013	151	3,164
998 Total 3,457 999 Total 3,530 000 Total 3,638 001 Total 3,638 001 Total 3,698 002 Total 3,698 003 Total 3,721 004 Total 3,698 003 Total 3,721 004 Total 3,698 005 Total 3,902 006 Total 3,902 006 Total 3,902 006 Total 3,903 007 Total 4,005 008 Total 3,974 009 Total 3,810 010 January 348 February 308 March 300 August 395 September 233 October 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 March 307 A		151	3,444	43	3	40	231	3,101	153	3,254
998 Total 3,457 999 Total 3,530 000 Total 3,638 001 Total 3,638 002 Total 3,698 003 Total 3,721 004 Total 3,698 003 Total 3,721 004 Total 3,698 005 Total 3,902 006 Total 3,974 009 Total 3,810 010 January 348 February 308 March 300 August 395 September 233 October 296 November 294 December 349 Total 3,972 011 January 351 February 302 March 307 May 312 June 351 February 325	329 9	154	3,492	43	9	34	224	3,146	156	3,302
999 Total 3,530 000 Total 3,638 000 Total 3,638 001 Total 3,638 001 Total 3,698 003 Total 3,721 004 Total 3,608 005 Total 3,902 006 Total 3,902 006 Total 3,902 007 Total 4,005 008 Total 3,974 009 Total 3,810 001 January 348 February 308 March 300 April 276 May 316 July 395 September 333 October 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 Mach 312 June 356 July 406 August 393 <td></td> <td>154</td> <td>3,620</td> <td>40</td> <td>14</td> <td>26</td> <td>221</td> <td>3,264</td> <td>161</td> <td>3,425</td>		154	3,620	40	14	26	221	3,264	161	3,425
2000 Total 3,638 2001 Total 3,580 2002 Total 3,580 2002 Total 3,698 2003 Total 3,721 2004 Total 3,608 2005 Total 3,902 2005 Total 3,902 2005 Total 3,902 2006 Total 3,902 2007 Total 4,005 2008 Total 3,974 2009 Total 3,810 2010 January 348 February 308 March 300 April 276 May 316 June 363 July 396 August 395 September 233 October 296 November 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May		156	3,695	43	14	29	240	3,312	172	3,484
001 Total 3,580 002 Total 3,698 003 Total 3,721 004 Total 3,698 005 Total 3,902 006 Total 3,902 008 Total 3,974 009 Total 3,810 010 January 348 February 308 March 300 August 395 September 333 October 294 December 349 Total 3,972 0011 January 351 February 302 March 307 011 January 351 February 302 March 307 November 291 May 312 June <td></td> <td>157</td> <td>3,802</td> <td>49</td> <td>15</td> <td>34</td> <td>244</td> <td>3,421</td> <td>171</td> <td>3,592</td>		157	3,802	49	15	34	244	3,421	171	3,592
002 Total 3,698 003 Total 3,721 004 Total 3,808 005 Total 3,902 006 Total 3,902 006 Total 3,902 006 Total 3,902 007 Total 4,005 008 Total 3,974 009 Total 3,810 010 January 348 February 308 March 300 April 276 May 316 July 395 September 233 October 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 March 307 April 291 May 312 June 356 July 406 August 393 September 325		149	3,737	39	16	22	202	3,394	163	3,557
003 Total 3,721 004 Total 3,808 005 Total 3,902 006 Total 3,908 0007 Total 4,005 008 Total 3,908 0007 Total 4,005 008 Total 3,908 0007 Total 3,908 0007 Total 3,908 0008 Total 3,974 009 Total 3,810 0010 January 348 February 300 April 276 May 316 June 363 July 396 August 395 September 233 October 296 November 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 <td></td> <td></td> <td></td> <td>37</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				37						
004 Total 3,808 005 Total 3,902 006 Total 3,908 007 Total 4,005 008 Total 3,974 009 Total 3,810 001 January 348 February 308 March 300 April 276 May 316 June 363 July 395 September 333 October 294 December 349 Total 3,972 2011 January 351 February 302 November 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325		153	3,858		16	21	248	3,465	166	3,632
005 Total 3,902 006 Total 3,908 007 Total 4,005 008 Total 3,974 009 Total 3,810 001 January 348 February 308 March 300 April 276 May 316 July 395 September 333 October 294 December 349 Total 3,972 0011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325		155	3,883	30	24	6	228	3,494	168	3,662
2006 Total 3,908 2007 Total 4,005 2008 Total 3,974 2008 Total 3,974 2009 Total 3,810 2010 January 348 February 308 March 300 April 276 May 316 June 363 July 396 August 395 September 333 October 296 November 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 Cotober 297 November 292 December 323 September 325		154	3,971	34	23	11	266	3,547	168	3,716
007 Total 4,005 008 Total 3,974 009 Total 3,810 0010 January 348 February 308 March 300 April 276 May 316 June 363 July 396 August 395 September 233 October 294 December 349 Total 3,972 2011 January 351 February 302 March 307 August 393 September 323 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 3225 Cotober 297 Nov		145	4,055	44	19	25	269	3,661	150	3,811
2008 Total 3,974 2009 Total 3,810 2010 January 348 February 308 March 300 April 276 March 300 April 276 June 363 July 396 September 333 October 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 Cotober 297 November 292 December 323 September 325 2012 January 327 February 298 March 297 November 298 M		148	4,065	43	24	18	266	3,670	147	3,817
2008 Total 3,974 2009 Total 3,810 2010 January 348 February 308 March 300 April 276 May 316 June 363 July 396 August 395 September 233 October 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 Cotober 297 November 292 December 323 Total 3,955 2012 January 327 February 298 March 297 March 297 March </td <td></td> <td>143</td> <td>4,157</td> <td>51</td> <td>20</td> <td>31</td> <td>298</td> <td>3,765</td> <td>126</td> <td>3,890</td>		143	4,157	51	20	31	298	3,765	126	3,890
2009 Total 3,810 2010 January 348 February 308 March 300 April 276 May 316 June 363 July 396 August 395 September 233 October 294 December 349 Total 3,972 2011 January 351 February 302 March 307 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 323 Scheber 297 November 292 December 323 September 325 2012 January 327 February 298 Ma		137	4,119	57	24	33	287	3,733	132	3,865
February 308 March 300 April 276 May 316 June 363 July 396 August 395 September 333 October 296 November 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 322 December 292 December 292 December 292 December 323 September 323 September 325 2012 January 327 February 298 March 297 April 285 <td>,810 8</td> <td>132</td> <td>3,950</td> <td>52</td> <td>18</td> <td>34</td> <td>261</td> <td>3,597</td> <td>127</td> <td>3,724</td>	,810 8	132	3,950	52	18	34	261	3,597	127	3,724
February 308 March 300 April 276 May 316 June 363 July 396 August 395 September 233 October 296 November 294 December 349 Total 3972 011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 September 323 September 323 November 292 December 395 012 January 327 February 298 March 297 March	348 1	12	361	5	1	4	22	332	E 11	343
March 300 April 276 May 316 June 363 July 395 September 333 October 294 December 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 225 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 327	308 1	11	320	4	1	3	15	298	^E 10	309
April 276 May 316 June 363 July 396 August 395 September 333 October 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 327		12	312	4	1	3	12	293	E 11	303
May 316 June 363 July 396 August 395 September 333 October 296 November 294 December 349 Total 3,972 D11 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 O12 January 327 February 298 March 297 April 285 May 325		11	288	4	1	3	13	267	E 10	277
June 363 July 396 August 395 September 333 October 294 December 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 327		12	328	3	2	1	35	284	⊑ 11	294
July 396 August 395 September 333 October 296 November 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 2922 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		12	376	4	2	2	36	331	E 11	342
August 395 September 333 October 296 November 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		12		4	1	3			E 12	342
September 333 October 294 November 294 December 349 Total 3,972 011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 3225 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325			410				32	369	E 12	
October 296 November 294 December 349 Total 3,972 2011 January 351 February 302 March 307 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 2012 January 327 February 298 March 297 April 285 May 325		13	409	4	2	2	27	372		384
November 294 December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 C012 January 327 February 298 March 297 April 285 May 325		12	346	3	2	1	8	328	E 11	339
December 349 Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 2012 January 327 February 298 March 297 April 285 May 325		12	308	3	2	(s)	10	288	E 11	298
Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 2012 January 327 February 298 March 297 April 325	294 1	11	306	3	2	1	21	275	E 11	285
Total 3,972 2011 January 351 February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 2012 January 327 February 298 March 297 April 325	349 1	13	362	4	1	3	34	319	^E 12	331
February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 1012 January 298 March 297 April 285 May 325	,972 9	144	4,125	45	19	26	265	3,754	132	3,886
February 302 March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		12	364	4	2	3	23	333	E 11	344
March 307 April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 2012 January 327 February 298 March 297 April 285 May 325	302 1	11	313	4	2	2	10	296	E 10	306
April 291 May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325	307 1	11	319	4	2	2	21	290	E 11	301
May 312 June 356 July 406 August 393 September 325 October 297 November 292 December 395 012 January 327 February 298 March 297 April 285 May 325		11	303	4	2	2	21	274	E 10	284
June 356 July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		12	325	5	1	4	32	286	E 11	297
July 406 August 393 September 325 October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		12	368	4	1	3	34	327	⊑ 11	338
August 393 September 325 October 297 November 292 December 395 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		13	419	6	1	5	44	369	E 12	380
September 325 October 297 November 292 December 323 Total 3,955 012 January 298 March 297 April 285 May 325		13	419	6	1	5	29	369	E 12	382
October 297 November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325					•				E 12	
November 292 December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		12	338	4	1	3	6	324	= 11 E 40	335
December 323 Total 3,955 012 January 327 February 298 March 297 April 285 May 325		11	309	4	1	3	16	286	E 10	296
Total 3,955 012 January 327 February 298 March 297 April 285 May 325		12	304	3	1	2	23	273	E 11	284
012 January 327 February 298 March 297 April 285 May 325		13	336	4	1	3	29	299	_ ^E 12	311
February 298 March 297 April 285 May 325	,955 8	142	4,106	52	15	37	287	3,726	^E 130	3,856
March		13	341	4	1	3	22	311	E 12	322
March		12	310	4	1	3	16	286	E 11	297
April 285 May 325	297 1	12	310	4	1	3	20	282	E 11	293
May 325		11	296	5	1	4	20	270	^E 10	280
		12	338	5	1	4	35	296	E 11	307
June 349	349 1	12	362	5	1	4	30	325	E 11	336
July 402		13	416	7	1	6	40	370	^E 12	382
7-Month Total 2,283		84	2,373	35	8	27	183	2,140	E 77	2,217
011 7-Month Total 2.325	.325 5	82	2.412	31	10	21	184	2.174	^E 75	2.249
010 7-Month Total 2,323		83	2,394	29	10	20	165	2,174	⊑76	2,249

^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

^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.

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

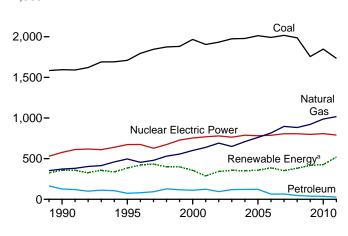
^g Electricity retail sales to ultimate customers by electric utilities and, beginning

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. (s)=Less than 0.5 billion kilowatthours. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at and effective to the test of test of the test of the test of the test of the test of test of the test of test of the test of tes

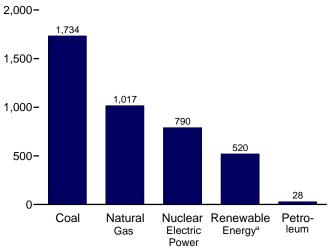
Notes. • See Note, Classification of Power Plants into Energy-Use Sectors, at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

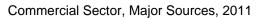
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

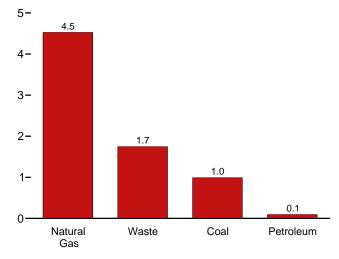
Total (All Sectors), Major Sources, 1989-2011 2,500-



Total (All Sectors), Major Sources, 2011



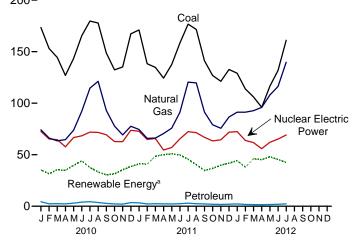




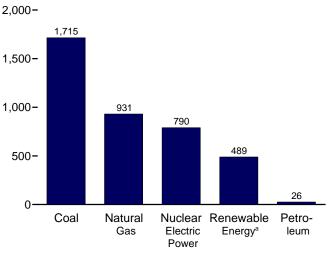
^a Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

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

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

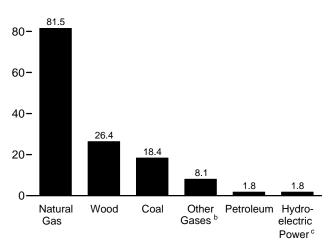


Electric Power Sector, Major Sources, 2011



Industrial Sector, Major Sources, 2011

100-



^c 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 I	uels						Renewabl	e Energy			
					Nuclear	Hydro- electric	Conven- tional Hydro-	Bior	nass				
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Electric Power	Pumped Storage ^e	electric Power ^f	Wood ^g	Wasteh	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total	847,651 852,786	314,343 289,095	340,858 299,778	NA NA	83,479 172,505	(f)	275,431 303,153	130 18	198 174	1,966 3,246	NA NA	NA NA	1,864,057 1,920,755
1980 Total	1,161,562	245,994	346,240	NA	251,116	(ť)	279,182	275	158	5,073	NA	NA	2,289,600
1985 Total	1,402,128	<u>100,202</u> 126,460	291,946	<u>NA</u>	383,691 576,862	([†])	284,311	743	640	<u>9,325</u> 15,434	<u>11</u> 367	6	2,473,002 3,037,827
1990 Total ^k 1995 Total	1,709,426	74,554	372,765 496,058	10,383 13,870	673,402	-3,508 -2,725	292,866 310,833	32,522 36,521	13,260 20,405	13,378	497	2,789 3,164	3,353,487
996 Total	1,795,196	81,411	455,056	14,356	674,729	-3,088	347,162	36,800	20,911	14,329	521	3,234	3,444,188
997 Total		92,555	479,399 531,257	13,351	628,644	-4,040	356,453 323,336	36,948 36,338	21,709 22,448	14,726 14,774	511 502	3,288	3,492,172
998 Total 999 Total		128,800 118,061	556,396	13,492 14,126	673,702 728,254	-4,467 -6,097	319,536	30,330	22,440	14,774	495	3,026 4,488	3,620,295
2000 Total	1,966,265	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	1,903,956	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	1,933,130 1,973,737	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	15,000	788,528	-8,488	268,417	38,117	15,612	14,424	534	14,144	3,970,555
2005 Total	2,012,873	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	1,990,511	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 2008 Total		65,739 46,243	896,590 882,981	13,453 11,707	806,425 806,208	-6,896 -6,288	247,510 254,831	39,014 37,300	16,525 17,734	14,637 14,840	612 864	34,450 55,363	4,156,745 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 January	173,320	4,348	74,173	909	72,569	-565	22,383	3,126	1,503	1,312	10	6,854	360,957
February	153,044 144,406	2,373 2,470	66,198 63.431	825 1.010	65,245 64,635	-351 -325	20,590 20,886	2,895 3.090	1,382 1,592	1,159 1,307	33 76	5,432 8,589	319,735 312,168
March	126,952	2,470	64,644	943	57,611	-325	19,097	2,932	1,558	1,307	112	9,764	287,800
May	143,272	2,994	73,665	1,017	66,658	-441	25,079	2,893	1,577	1,311	153	8,698	327,936
June	165,491	3,989	92,268	964	68,301	-472	29,854	3,094	1,627	1,264	176	8,049	375,759
July	179,600 177,745	4,411 3,575	114,624 121,151	963 1,061	71,913 71,574	-557 -600	24,517 20,119	3,308 3,319	1,640 1,642	1,274 1,297	161 156	6,724 6,686	409,725 408,884
August September	148,746	2,783	93.004	954	69,371	-421	17,265	3,157	1,042	1,297	138	7,106	346.045
October	132,270	2,228	77,738	808	62,751	-438	17,683	3,003	1,547	1,222	75	7,944	307,921
November	135,185	2,079	69,227	907	62,655	-467	19,562	3,080	1,625	1,252	77	9,748	306,010
December Total	167,258 1,847,290	3,523 37,061	77,573 987,697	952 11,313	73,683 806,968	-530 -5,501	23,169 260,203	3,275 37,172	1,650 18,917	1,330 15,219	44 1,212	9,059 94,652	362,119 4,125,060
2011 January	170,983 138,295	3,268 2,201	74,458 65.852	910 770	72,743 64,789	-426 -247	26,148 24,687	3,258 2,896	1,503 1,393	1,478 1,326	31 80	8,659 10,528	363,855
February March	138,295	2,201	66,169	955	65,662	-247 -350	24,687	2,896	1,393	1,326	113	10,528	313,351 319,092
April	124,293	2,279	70,529	913	54,547	-467	31,629	2,788	1,619	1,337	161	12,447	302,994
May	137,493	2,198	75,769	848	57,017	-419	33,105	2,802	1,702	1,438	201	11,635	324,757
June July	158,308 176,709	2,439 3,011	91,096 120,377	980 1,059	65,270 72,345	-568 -709	32,253 31,570	3,243 3,348	1,685 1,767	1,363 1,372	257 226	10,887 7,382	368,184 419,480
August	171,472	2,407	119,646	999	71,339	-663	26,320	3,290	1,717	1,380	236	7,342	406,450
September	141,220	2,247	91,377	958	66,849	-554	21,500	3,113	1,621	1,334	183	6,883	337,606
October November	126,872 121,197	1,934 1,723	79,078 75,637	949 923	63,354 64,474	-572 -441	20,036 21,374	2,876 2,980	1,669 1,689	1,393 1,377	169 78	10,623 12,354	309,279 304,268
December	132,706	2.000	86.606	1.005	71.837	-441	21,374	2,960	1,009	1,377	70	12,354	304,260
Total	1,734,265		1,016,595	11,269	790,225	-5,912	325,074	36,946	19,786	16,700	1,814	119,747	4,105,734
2012 January	129,064	2,232	91,213	1,096	72,382	-330	23,933	3,293	1,621	1,438	70	13,823	340,743
February March	113,831 106.032	1,718 1,576	91,260 92,739	1,146 1.023	63,850 61,730	-226 -268	20,813 26,287	3,029 2,832	1,523 1,637	1,361 1.438	119 218	11,047 13,553	310,298 309,709
April	95,982	1,576	92,739	1,023	55,871	-200	26,267	2,032	1,643	1,430	307	12,611	296,101
May	116,476	1,677	107,928	1,034	62,081	-343	28,991	2,932	1,695	1,439	450	12,442	337,770
	131,737	1,877	116,184	1,079	65,140	-487	27,074	2,984	1,657	1,394	500	11,740	361,790
July 7-Month Total	161,023 854,145	2,254 12,868	139,767 734,973	1,036 7,431	69,129 450,184	-587 -2,484	27,082 180,928	3,221 20,806	1,622 11,397	1,435 9,859	474 2,137	8,652 83,868	416,152 2,372,562
2011 7-Month Total 2010 7-Month Total	1,040,798 1.086.086	17,850 22,873	564,249 549,004	6,434 6,631	452,373 466,934	-3,186 -3,045	211,129 162,405	21,376 21,338	11,325 10,878	9,777 8,866	1,069 722	72,076 54,110	2,411,712 2,394,081

^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 Mood 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). 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

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 F	uels						Renewabl	e 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	nass Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total ^k 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1997 Total 1997 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	$\begin{array}{r} \underline{1.402.128} \\ 1.572.109 \\ 1.686,056 \\ 1.771,973 \\ 1.820,762 \\ 1.850,193 \\ 1.858,618 \\ 1.943,111 \\ 1.882,826 \\ 1.910,613 \\ 1.952,714 \\ 1.952,714 \\ 1.952,714 \\ 1.952,714 \\ 1.969,737 \\ 1.998,330 \\ 1.968,838 \\ 1.741,123 \end{array}$	314,343 289,095 245,994 100,202 118,864 68,146 74,783 86,479 105,192 119,1539 105,192 119,192 119,192 113,697 114,678 116,482 59,708 61,306 42,881 35,811	340,858 299,778 346,240 291,946 309,486 419,179 378,757 399,596 449,293 472,996 517,978 554,940 607,683 567,303 667,683 567,303 667,683 867,303 867,417 844,752 841,006	NA NA NA 1,927 1,341 1,533 2,315 1,607 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042 3,200 3,058	83,479 172,505 251,116 383,691 576,862 673,702 728,254 778,264 763,702 778,254 778,264 778,064 780,064 788,528 806,208 798,855	([†]) ([†]) ([†]) ([†]) -3,508 -3,088 -3,088 -4,040 -4,467 -6,097 -5,539 -8,823 -8,823 -8,743 -8,535 -8,8488 -6,558 -6,558 -6,558 -6,288 -6,288 -6,27	272,083 300,047 276,021 281,149 289,753 305,410 350,648 317,867 314,663 271,338 213,7867 314,663 271,338 213,7867 3260,491 271,512 260,491 276,504 266,254 267,040 286,254 253,096 271,506	130 18 2755 7433 7,032 7,597 8,386 8,680 8,608 8,961 8,916 8,916 8,916 8,916 8,916 8,916 8,916 8,916 8,916 10,570 10,341 10,711 10,638 10,738	198 174 158 640 11,500 17,816 18,485 19,493 20,307 12,944 13,145 13,808 13,062 13,031 13,927 14,294 15,379 15,954	1,966 3,246 5,073 9,325 15,434 14,378 14,729 14,726 14,774 14,827 14,093 13,741 14,491 14,491 14,492 14,568 14,637 14,840 15,009	NA NA NA 11 367 497 521 511 502 495 549 549 575 550 550 508 612 864 891	NA NA 2,789 3,164 3,234 4,488 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450 55,363 73,886	1,860,710 1,917,649 2,268,439 2,469,841 2,901,322 3,134,230 3,284,141 3,329,375 3,457,416 3,529,982 3,638,458 3,721,159 3,808,360 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349 3,809,837
2010 January February March June July September October December December Total	171,660 151,461 142,665 125,615 141,669 163,912 177,778 175,848 147,157 130,663 143,815 165,494 1,827,738	4,111 2,166 2,299 2,109 2,801 3,792 4,199 3,375 2,608 2,037 1,879 3,302 34,679	66,847 59,556 56,492 58,124 66,862 85,033 106,961 112,961 85,498 70,876 62,305 69,875 901,389	275 247 275 273 279 265 267 249 240 170 219 208 2,967	72,569 65,245 64,635 57,611 66,658 68,301 71,913 71,574 69,371 62,655 73,683 806,968	-565 -351 -325 -341 -472 -557 -600 -421 -438 -467 -530 -5,501	22,207 20,421 20,691 18,898 24,903 29,711 24,405 20,019 17,188 17,561 19,426 23,024 258,455	1,011 926 939 837 830 955 1,061 1,074 974 887 934 1,018 11,446	1,294 1,207 1,391 1,359 1,409 1,419 1,413 1,360 1,412 1,443 16,376	1,312 1,159 1,307 1,240 1,311 1,264 1,274 1,274 1,277 1,253 1,222 1,252 1,230 15,219	10 33 76 112 153 175 161 156 137 75 76 43 1,206	6,853 5,431 8,588 9,763 8,696 8,048 6,723 6,685 7,104 7,942 9,746 9,058 94,636	348,128 307,994 299,571 315,656 362,985 396,195 394,651 333,057 295,646 293,833 348,549 3,972,386
2011 January February April May June July August September October November December Total	169,157 136,752 133,163 123,067 135,794 156,677 174,850 169,572 139,458 125,200 129,267 131,311 1,714,870	3,056 2,042 2,282 2,112 2,053 2,276 2,840 2,243 2,075 1,757 1,597 1,857 26,223	67,038 59,187 59,350 63,709 68,567 112,765 111,991 84,392 72,407 68,418 78,714 930,568	247 206 250 250 282 296 293 287 279 242 266 3,148	72,743 64,789 65,662 54,547 57,017 65,270 72,345 71,339 66,849 63,354 64,474 71,837 790,225	-426 -247 -350 -467 -568 -568 -568 -563 -564 -572 -441 -496 -5,912	26,001 24,517 31,537 31,422 32,888 32,097 31,442 26,217 21,375 19,905 21,222 24,520 323,141	986 873 883 674 753 921 1,042 1,020 896 752 753 951 10,504	1,293 1,204 1,457 1,439 1,467 1,470 1,537 1,481 1,395 1,444 1,457 1,538 17,182	1,478 1,326 1,465 1,337 1,438 1,363 1,372 1,380 1,372 1,393 1,377 1,439 16,700	31 79 112 160 199 254 223 233 181 167 77 79 1,795	8,657 10,525 10,534 12,444 11,632 10,884 7,380 7,339 6,880 10,618 12,348 10,464 119,704	350,775 301,735 306,932 291,282 312,220 355,569 406,019 393,059 325,121 297,294 291,954 323,103 3,955,065
2012 January February April May June July 7-Month Total 2011 7-Month Total		1,940 1,524 1,375 1,322 1,496 2,037 11,363 16,660 21,477	83,532 83,904 85,611 89,010 100,315 108,443 131,392 682,207 514,648 499,874	422 422 275 242 271 387 273 2,293 1,780 1,881	72,382 63,850 61,730 55,871 62,081 65,140 69,129 450,184 452,373 466,934	-330 -226 -268 -242 -343 -487 -587 -2,484 -3,186 -3,045	23,749 20,649 26,090 26,580 28,797 26,933 26,961 179,759 209,903 161,237	949 875 829 628 780 852 987 5,900 6,133 6,559	1,388 1,295 1,422 1,418 1,447 1,269 1,351 9,590 9,867 9,414	1,438 1,361 1,438 1,354 1,394 1,394 1,435 9,859 9,777 8,866	69 117 211 297 435 484 458 2,071 1,058 719	13,814 11,040 13,543 12,602 12,434 11,679 8,646 83,758 72,055 54,101	327,388 297,729 297,419 284,567 325,131 348,812 402,400 2,283,446 2,324,533 2,306,650

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

^a Anthracite, bituminous coal, subbituminous coal, ingrine, 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, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

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	Totalg	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- electric Power ⁱ	Biomass		
											Wood	Wastef	Total ^k
1973 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,347	NA	NA	3,347
1975 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106
1980 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161
1985 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161
1990 Total	796	589	3,272	812	5,837	21,107	7,008	60,007	9,641	2,975	25,379	949	130,830
1995 Total 1996 Total	998 1.051	379 369	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	900 919	151,025 151.017
1997 Total	1,031	427	4,725	2,170	9,030 8,701	23,214	5,649	75,078	11,814	5,685	28,225	882	154,097
1998 Total	985	383	4,879	2,335	8.748	22,337	6.206	77,085	11,170	5,349	27,693	880	154,132
1999 Total	995	434	4.607	2,393	8,563	21,474	6,088	78,793	12,519	4,758	28,060	686	156,264
2000 Total	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673
2001 Total	995	438	4,434	1,007	7,416	20,135	5,293	79,755	8,454	3,145	26,888	596	149,175
2002 Total	992	431	4,310	1,053	7,415	21,525	4,403	79,013	9,493	3,825	29,643	846	152,580
2003 Total	1,206	423	3,899	1,289	7,496	19,817	5,285	78,705	12,953	4,222	27,988	715	154,530
2004 Total	1,340	499	3,969	1,562	8,270	19,773	5,967	78,959	11,684	3,248	28,367	797	153,925
2005 Total 2006 Total	1,353 1,310	375 235	4,249 4,355	1,657 1,599	8,492 8,371	19,466 19,464	5,368 4,223	72,882 77,669	9,687 9,923	3,195 2.899	28,271 28,400	733 572	144,739 148,254
2007 Total	1,371	189	4,355	1,599	8,273	16,694	4,223	77,580	9,923	1,590	28,287	631	140,254
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 January	116	13	367	137	709	1,544	225	6,959	634	169	2,114	72	12,120
February	102	11	339	111	623	1,481	197	6,303	578	162	1,967	64	11,118
March	91 80	8 9	351 326	134 144	661 645	1,649 1,258	163 169	6,588 6,194	735 669	188 187	2,149 2,094	67 80	11,936 11,034
April May	84	12	326	144	666	1,258	181	6,477	738	164	2,094	69	11,614
June	97	10	350	150	699	1,482	187	6,885	700	132	2,001	68	12,075
July	110	18	459	146	812	1,713	194	7,205	696	107	2,246	75	12,718
August	105	11	490	152	838	1,792	189	7,701	812	99	2,243	78	13,395
September	89	9	421	148	750	1,499	165	7,085	713	76	2,182	62	12,238
October	80	7	419	133	712	1,527	184	6,443	637	117	2,114	84	11,562
November	69	4	401	134	683	1,301	196	6,520	688	130	2,145	79	11,493
December Total	88 1,111	12 124	476 4,725	136 1,672	793 8,592	1,677 18,441	209 2,258	7,223 81,583	744 8,343	134 1,668	2,255 25,706	71 869	12,777 144,082
2011 January	103	13	402	139	739	1,723	198	7,017	663	137	2,271	71	12,341
February	95	8	350	125	656	1,447	151	6,314	564	160	2,021	64	10,961
March	97	7	341	134	666	1,457	165	6,478	705	188	2,156	65	11,494
April	71	5 6	347	118	622	1,155	162	6,473	662	196	2,112	62	11,089
May	77 82	ю 8	373 368	160 144	714 693	1,622 1,549	140 155	6,829 6,696	597 698	208 147	2,047 2,321	74 71	11,822 11,921
June July	96	13	431	155	791	1,549	155	7,181	762	147	2,321	76	12.669
August	86	7	408	160	752	1,814	157	7,248	702	100	2,268	76	12,639
September	76	6	356	150	674	1,686	166	6,629	670	123	2,215	76	11,811
October	63	8	359	153	668	1,609	135	6,312	669	126	2,123	72	11,317
November	64	6	378	155	691	1,266	121	6,841	680	147	2,226	77	11,623
December	78	6	413	154	739	1,317	138	7,480	738	188	2,359	73	12,577
Total	989	93	4,526	1,746	8,403	18,406	1,846	81,500	8,115	1,838	26,422	858	142,266
2012 January February	83 82	6 4	387 357	163 163	698 665	1,552 1,388	286 190	7,295 6,999	673 723	182 163	2,343 2,152	70 65	12,657 11,904
March	68	4	363	155	658	1,412	197	6,765	747	195	2,001	60	11,633
April	49	6	359	159	639	1,041	206	6,513	775	166	1,885	65	10,895
May	67	6	364	174	686	1,048	176	7,249	762	192	2,151	74	11,952
June	64	10	453	316	1,034	1,114	198	7,287	691	138	2,131	71	11,944
July 7-Month Total	71 483	12 48	467 2,748	196 1,327	861 5,240	1,295 8,848	205 1,457	7,908 50,018	762 5,133	118 1,153	2,232 14,894	74 481	12,891 83,876
2011 7-Month Total	623	40 59	2,740	974	4.881	10.715	1,437	46.989	4.652	1,155	15,232	484	82.298
2010 7-Month Total	681	80	2,519	969	4,815	10,645	1,315	46,611	4,749	1,111	14,767	495	82,617

(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

 Antifiability, bitchininous coal, substantinous coal, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

⁹ Includes a small amount of conventional hydroelectric power, other gases, photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed.

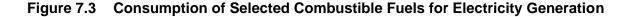
^h Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
ⁱ Conventional hydroelectric power. Wood and wood-derived fuels.

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 tire-derived fuels).

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.



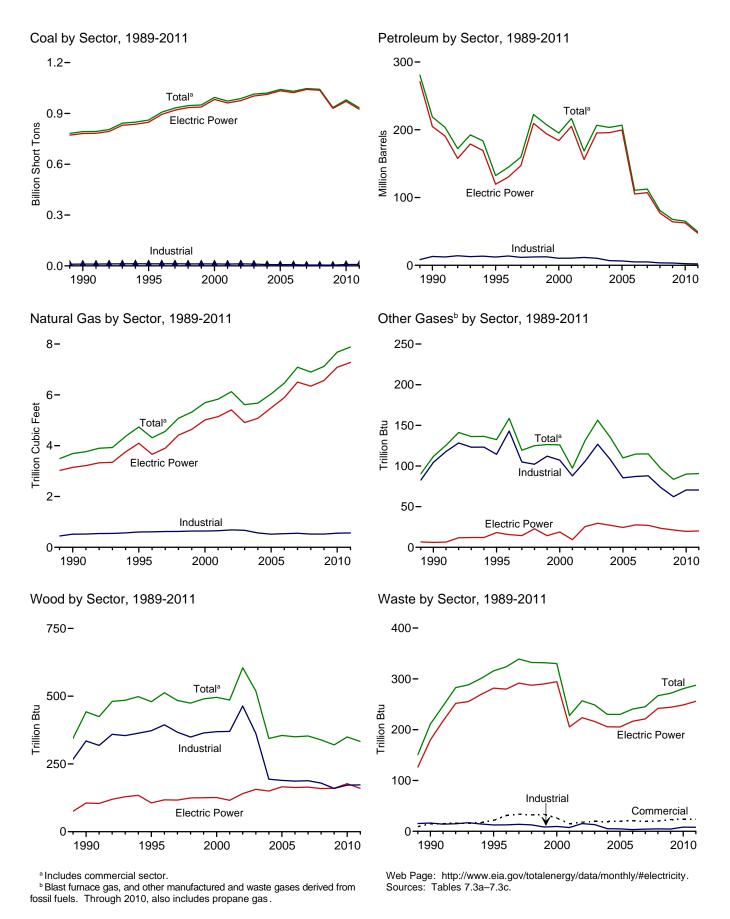


Table 7.3a Consumption of Combustible Fuels for Electricity Generation:

1973 Total 1975 Total 1980 Total 1980 Total 1990 Total k 1995 Total	Coal ^a Thousand Short Tons 389,212 405,962 569,274 693,841 792,457	Distillate Fuel Oil ^b Th 47,058 38,907 29,051	513,190		Petroleum Coke ^e Thousand Short Tons	Total e Thousand	Natural Gas ^f Billion	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
1975 Total 1980 Total 1985 Total 1990 Total k	Short Tons 389,212 405,962 569,274 693,841 792,457	47,058 38,907	513,190				Billion				
1975 Total 1980 Total 1985 Total 1990 Total ^k	405,962 569,274 <u>693,841</u> 792,457	38,907	Thousand Barrels 5 47,058 513,190 NA			Barrels	Cubic Feet	Trillion Btu			
1975 Total 1980 Total 1985 Total 1990 Total ^k	405,962 569,274 <u>693,841</u> 792,457	38,907		NA	507	562,781	3,660	NA	1	2	NA
1985 Total 1990 Total ^k	<u>693,841</u> 792,457	29,051	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1990 Total ^k	792,457	14.635	391,163 158.779	NA NA	179 231	421,110 174.571	3,682 3.044	NA NA	3 8	2	NA NA
1995 Total		18,143	190,652	437	1.914	218,800	3,692	112	442	211	36
	860,594	19,615	95,507	680	3,355	132,578	4,738	133	480	316	42
1996 Total	907,209	20,252	106,055	1,712	3,322	144,626	4,312	159	513	324	37
1997 Total 1998 Total	931,949 946,295	20,309 25,062	118,741 172,728	237 549	4,086 4,860	159,715 222,640	4,565 5,081	119 125	484 475	339 332	36 36
1999 Total	949.802	25,951	158.187	974	4,552	207.871	5.322	125	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	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	257 249	191 193
2003 Total	1,020,523	20,163	142,088	2,856	7,677	203,494	5,675	135	344	230	183
2005 Total	1,041,448	20,651	141,518	2,968	8,330	206,785	6,036	110	355	230	173
2006 Total	1,030,556	13,174	58,473	2,174	7,363	110,634	6,462	115	350	241	172
2007 Total 2008 Total	1,046,795 1,042,335	15,683 12,832	63,833 38,191	2,917 2,822	6,036 5,417	112,615 80,932	7,089 6,896	115 97	353 339	245 267	168 172
2009 Total	934,683	12,658	28,576	2,328	4,821	67,668	7,121	84	320	272	170
2010 January	90,767	2,485	2,860	241	433	7,751	570	7	30	22	15
February	80,209	869	1,075	212	404	4,174	502	6	28	20	13
March	76,544	785	1,245	147	438	4,370	479	8	29 27	24 23	15 15
April May	67,037 76.061	726 1.050	1,160 1,997	126 121	382 415	3,923 5,244	494 582	8 8	27	23 24	15
June	87,395	1,244	3,087	154	493	6,950	731	8	29	24	16
July	94,993	1,347	3,681	200	524	7,849	923	8	31	24	16
August	94,786	1,093	2,987	164	423	6,358	972	8	32	24 23	16
September October	79,573 70.918	905 787	1,789 1.113	151 129	394 362	4,813 3.840	723 594	8 6	30 28	23	16 15
November	72,756	876	982	143	317	3,588	519	7	29	23	15
December	88,645	1,883	2,021	266	408	6,210	591	8	31	24	16
Total	979,684	14,050	23,997	2,056	4,994	65,071	7,680	90	350	281	184
2011 January	90,106 73,505	1,238 854	1,700 1.007	231 124	526 387	5,802 3,919	564 503	7 6	30 27	22 21	12 11
February March	73,505	839	1,122	124	465	4,421	503	6 7	27	21	14
April	66,870	957	1,328	121	304	3,924	548	7	24	23	13
May	73,511	909	1,222	110	316	3,820	603	7	25	24	14
June	84,072 94,214	969 1.161	1,261 1,542	145 167	388 479	4,316 5,265	729 966	8 8	29 30	25 26	14 15
July August	94,214 92,177	1,161	1,542	167	479	5,265 4,341	966	8	30 30	26 25	15
September	76,612	778	958	162	392	3,861	710	8	28	24	13
October	69,524	711	940	124	307	3,311	600	8	26	24	13
November	66,789	715	904	135	250	3,002	568	8	26	24	13
December Total	73,190 932,911	835 10,775	927 14,246	134 1,707	331 4,561	3,551 49,533	639 7,880	8 91	30 333	25 287	14 162
2012 January	70,595	772	988	135	414	3,964	676	9	30	23	14
February	62,802	649	753	108	314	3,079	672	9	28	22	12
March	57,564	579	869	120	251	2,825	704	9	26	24	13
April	51,574	734 854	797 838	126 141	204 234	2,675	744 843	8 8	25	24 25	13 14
May June	62,958 71,698	854 854	1,295	141	234 225	3,006 3,410	843 910	8	28 29	25 24	14
July	86,575	866	1,605	169	285	4,063	1,118	8	32	23	16
7-Month Total	463,766	5,309	7,146	932	1,927	23,022	5,668	60	199	165	96
2011 7-Month Total 2010 7-Month Total	554,619 573,006	6,927 8,507	9,184 15,105	1,031 1,202	2,865 3,090	31,468 40,262	4,416 4,281	52 53	193 200	165 162	94 106

Total (All Sectors) (Sum of Tables 7.3b and 7.3c)

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

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

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

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

^e Petroleum coke is converted from short tons to barries 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.
 ^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).

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, independent power producers, commercial plants, and industrial

 NA=Not available. (s)=Less than 0.5 trillion Btu.
 NA=Not available. (s)=Less than 0.5 trillion Btu.
 Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. and the District of Columbia.

Web Page: See http://www.eia.gov/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	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total 1980 Total	405,962 569,274	38,907 29,051	467,221 391,163	NA NA	70 179	506,479 421,110	3,158 3.682	NA NA	(s) 3	2	NA NA
1985 Total	693.841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^K	781,301	16,394	183,285	25	1,008	204,745	3,147	6	106	180	(s)
1995 Total	847,854	18,066	88,895	441	2,452	119,663	4,094	18	106	282	2
1996 Total 1997 Total	894,400 919.009	18,472 18.646	98,795 112,423	567 130	2,467 3,201	130,168 147,202	3,660 3,903	16 14	117 117	280 292	2
1998 Total	934,126	23,166	165,875	411	3,999	209,447	4,416	23	125	287	2
1999 Total	937,888	23,875	151,921	514	3,607	194,345	4,644	14	125	290	1
2000 Total	982,713	29,722	138,047	403	3,155	183,946	5,014	19 9	126	294	1
2001 Total 2002 Total	961,523 975,251	29,056 21,810	159,150 104,577	374 1,243	3,308 5,705	205,119 156,154	5,142 5.408	9 25	116 141	205 224	109 137
2003 Total	1,003,036	27,441	137,361	1,937	5,719	195,336	4,909	30	156	216	136
2004 Total	1,012,459	18,793	138,831	2,511	7,135	195,809	5,075	27	150	206	131
2005 Total	1,033,567 1.022.802	19,450 12.578	138,337 56,347	2,591 1.783	7,877 6.905	199,760 105,235	5,485 5.891	24 28	166 163	205 216	116 117
2006 Total 2007 Total		15,135	62,072	2,496	5,523	105,235	6,502	20	165	210	117
2008 Total	1,036,891	12,318	37,222	2,608	5,000	77,149	6,342	23	159	242	122
2009 Total	929,692	11,848	27,768	2,110	4,485	64,151	6,567	21	160	244	115
2010 January	90,080	2,441	2,804	219	404	7,482	519	2	16	20	9
February March	79,537 75,772	833 756	1,023 1,214	196 130	379 415	3,946 4,176	456 432	2 2	15 15	18 21	8 9
April	66,559	695	1,132	112	360	3.741	449	2	14	20	9
May	75,311	1,021	1,964	104	390	5,040	536	2	13	21	10
June	86,725	1,220	3,059	137	463	6,733	681	2	15	21	10
July August	94,194 93,922	1,306 1,066	3,643 2,962	185 149	495 392	7,610 6,136	869 915	2	16 16	22 22	10 10
September		880	1.760	136	371	4.628	671	2	15	21	10
October	70,205	762	1,076	112	337	3,634	547	1	13	20	10
November	72,206	849	949	125	290	3,373	473	1	15	21	10
December Total	87,854 971,245	1,847 13,677	1,973 23,560	244 1,848	383 4,679	5,978 62,477	538 7,085	1 20	16 177	22 249	10 116
2011 January	89,305	1,215	1,653	223	495	5,564	512	1	15	20	9
February	72,814 71,671	832 822	973 1,093	117 121	365 440	3,750 4,234	457 457	1	14 13	18 22	8 10
March April	66,411	936	1,093	104	282	4,234 3,747	457 500	2	13	22	10
May		891	1,199	103	295	3,670	551	2	12	22	10
June	83,360	946	1,236	129	364	4,134	679	2	14	22	10
July	93,388 91,340	1,135 788	1,518 1,311	158 107	452 389	5,069	912 894	2	15 15	23 22	11 10
August September	91,340 75,820	788 756	940	107	369	4,152 3,670	894 661	2	13	22	10
October	68,779	686	911	119	288	3,155	553	2	12	21	10
November	66,260	693	883	129	233	2,871	518	2	12	21	10
December Total	72,633 924,523	811 10,513	899 13,914	128 1,564	309 4,281	3,382 47,398	584 7,279	2 20	15 160	22 256	10 117
2012 January	69.864	754	961	124	331	3.497	623	3	15	21	10
February	62,146	635	728	97	263	2,775	623	3	15	19	9
March	56,908	563	849	111	201	2,528	655	2	13	21	10
April	51,168	713	776	102	154	2,360	697	2	10	21	10
May June	62,595 71,305	837 827	811 1,278	134 117	187 176	2,717 3,102	790 856	23	12 13	22 19	11 8
July	86,108	840	1,581	162	230	3,734	1,059	2	15	20	12
7-Month Total	460,094	5,170	6,984	848	1,543	20,715	5,302	15	90	143	70
2011 7-Month Total 2010 7-Month Total	549,690 568,178	6,778 8,272	8,969 14,841	955 1,083	2,693 2,907	30,168 38,728	4,068 3,941	11 13	93 102	147 143	67 66

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

^b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.
 ^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no 4.

d Jet fuel, kerosene, other petroleum liquids, 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). ^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.

1989 Total 1990 Total 1995 Total 1995 Total 1997 Total	Coal ^c Thousand Short Tons 414 417 569 656	Petroleum ^d Thousand Barrels 1,165 953	Natural Gas ^e Billion Cubic Feet	Biomass Waste ^f Trillion Btu	Coal c Thousand	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Bion		:
1990 Total 1995 Total 1996 Total 1997 Total 1998 Total	Thousand Short Tons 414 417 569	Thousand Barrels 1,165	Gas ^e Billion Cubic Feet	Trillion	Thousand	Petroleum ^d			Marah	Martif	
1990 Total 1995 Total 1996 Total 1997 Total 1998 Total	Short Tons 414 417 569	Barrels	Cubic Feet		n Thousand	sand Thousand	•	Jases	Wood ^h	Wastef	Other
1990 Total 1995 Total 1996 Total 1997 Total 1998 Total	417 569		40		Short Tons	Thousand Barrels	Billion Cubic Feet		Trillior	n Btu	
1990 Total 1995 Total 1996 Total 1997 Total 1998 Total	569	953	10	9	9,707	8,482	444	83	267	15	37
1995 Total 1996 Total 1997 Total 1998 Total			28	15	10,740	13,103	517	104	335	16	36
1997 Total 1998 Total	656	649	43	21	12,171	12,265	601	114	373	13	40
1998 Total		645	42	31	12,153	13,813	610	143	394	13	35
1990 10(a)	630 440	790 802	39 41	34 32	12,311 11,728	11,723 12,392	623 625	105 102	367 349	14 13	36 35
1999 Total	440	931	39	32	11,432	12,595	639	112	364	8	39
2000 Total	514	823	37	26	11,706	10,459	640	107	369	10	45
2001 Total	532	1,023	36	15	10,636	10,530	654	88	370	7	44
2002 Total	477	834	33	18	11.855	11,608	685	106	464	15	43
2003 Total	582	894	38	19	10,440	10,424	668	127	362	13	46
2004 Total	377	766	33	19	7,687	6,919	566	108	194	5	41
2005 Total	377	585	34	20	7,504	6,440	518	85	189	5	46
2006 Total	347	333	35	21	7,408	5,066	536	87	187	3	45
2007 Total	361	258	34	19	5,089	5,041	554	88	188	4	41
2008 Total	369	166	33 34	20 23	5,075	3,617	520 520	73	179	5	39 42
2009 Total	317	190	34	23	4,674	3,328	520	62	160	4	42
2010 January	32	18	3	2	654	252	48	5	14	1	4
February	28	16	3	2	643	212	43	5	13	1	4
March	26	12	3	2	746	182	44	6	14	1	4
April	23	11	3	2	456	171	42	6	14	1	4
May	23	14	3	2	727	190	44	6	14	1	4
June	27	13	3	2	643	204	47	6	14	1	5
July	30	26	4	2	769	213	50	6	15	1	5
August	29	15	4	2	835	207	53	7	15	1	5
September	26 23	13 11	3	2	666 690	171 195	48 44	6 5	15 14	1	5 5
October November	23	7	3	2	529	208	44 43	5 6	14	1	э 4
December	26	15	4	2	765	208	43	6	14	1	4 5
Total	314	172	39	24	8,125	2,422	555	70	172	8	55
2011 January	30	14	3	2	771	223	49	6	15	1	2
February	28	9	3	2	663	160	44	5	13	1	2
March	28	8	3	2	641	179	44	6	14 14	1	3
April	22 23	6 7	3 3	2 2	437 746	171 143	45 48	6 5	14 13	1	3
May June	23	9	3	2	688	143	40 47	5 6	15	1	3
July	28	15	4	2	798	181	50	7	15	1	3
August	26	.0	3	2	811	180	50	6	15	1	3
September	23	8	3	2	769	183	46	6	14	1	2
October	20	11	3	2	725	145	44	6	14	1	3
November	20	8	3	2	509	124	47	6	15	1	3
December	24	8	3	2	533	161	_51	_6	16	1	3
Total	297	112	38	24	8,091	2,023	564	71	173	8	31
2012 January	25	7	3	2	706	460	50	6	15	1	2
February	25	5	3	2	631	299	47	ő	15	1	2
March	22	6	3	2	634	291	46	7	14	1	2
April	19	8	3	2	387	306	44	7	15	1	2
May	20	8	3	2	342	281	51	7	16	1	3
June	22	16	4	5	371	292	51	6	16	1	2
July	24	16	4	2	442	312	55	7	17	1	3
7-Month Total	159	66	22	17	3,514	2,241	345	45	108	5	17
2011 7-Month Total 2010 7-Month Total	184 189	69 110	22 21	13 14	4,745 4,638	1,231 1,424	326 319	41 40	100 98	4 5	19 31

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

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

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

synfuel. ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane. ^e Natural gas, plus a small amount of supplemental gaseous fuels.

^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).

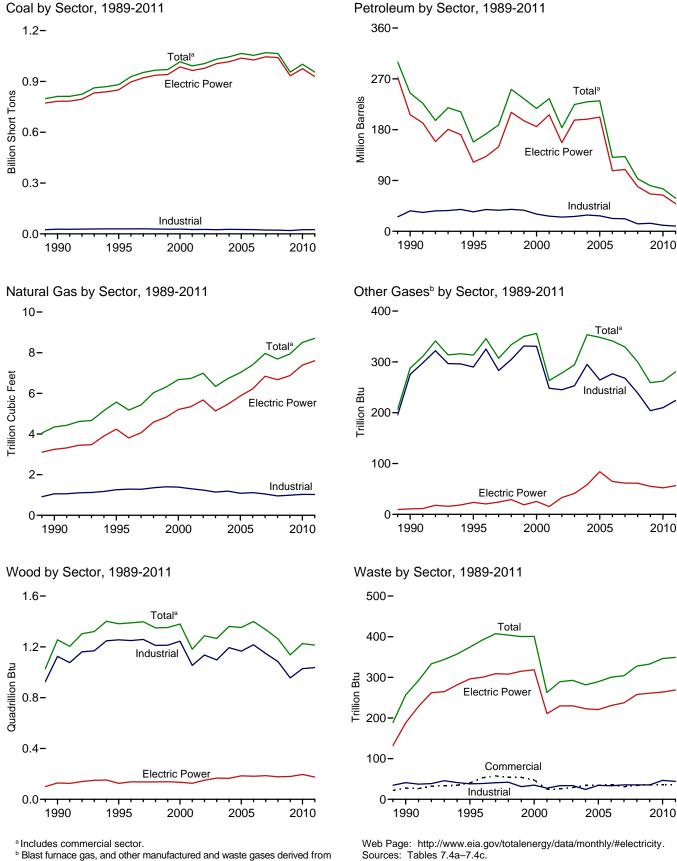
9 Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.

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

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-867, "Annual Nonutility Power Producer Report." • **1998-2000**: EIA, Form EIA-860B, "Annual Electric Generator Report.- • **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."





^b Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

				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	т	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	0	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total 1990 Total ^k	<u>693,841</u> 811,538	<u>14,635</u> 20,194	<u>158,779</u> 209,081	<u>NA</u> 1,332	231 2,832	<u>174,571</u> 244,765	3,044 4,346	<u>NA</u> 288	1,256	257	<u>NA</u> 86
1995 Total	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	97
1996 Total	928,015	22,444	124,607	2,468	4,596	172,499	5,178	346	1,389	392	91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	103
1998 Total	966,615 970,175	30,006 30,616	189,267 172,319	1,230 1,812	6,196 5,989	251,486 234,694	6,030 6,305	334 350	1,349 1,352	404 400	95 101
1999 Total 2000 Total	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,352	400	101
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	1,031,778	31,825	152,859	4,576	7,067	224,593	6,337	294	1,266	293	262
2004 Total	1,044,798 1,065,281	23,520	157,478	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 2006 Total	1.053.783	24,446 14.655	156,915 69.846	4,270	8.622	131.005	7,021	340	1,353	209	237
2007 Total	1.069.606	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 January	92,738	2,643	3,212	338	525	8,819	643	21	103	29	18
February	82,029	978	1,397	286	497	5,143	566	19	96	26	17
March April	78,383 69,179	866 837	1,439 1,355	207 176	522 458	5,124 4,656	547 556	23 22	103 98	30 29	19 19
May	77,725	1,111	2,221	176	438 500	6,005	647	22	98	29	20
June	89,063	1,295	3,291	204	586	7,721	796	23	101	29	21
July	96,783	1,455	3,921	244	613	8,684	997	22	105	29	21
August	96,593	1,185	3,190	206	510	7,132	1,047	23	106	29	21
September	81,250	961	2,006	191	475	5,534	791	22	103	27	20
October November	72,571 74.496	871 1.017	1,370 1,212	186 204	453 414	4,693 4,503	662 586	20 21	101 102	29 30	20 20
December	90,600	2,029	2,332	361	499	7,218	665	21	102	30	20
Total	1,001,411	15,247	26,944	2,777	6,053	75,231	8,502	262	1,226	346	237
2011 January	92,180	1,302	2,014	286	602	6,611	639	22	108	29	15
February	75,364	934	1,197	161	490	4,742	568	20	96	26	14
March	74,254	890	1,327	175	573	5,256	570	24	100	29 27	16
April May	68,631 75,353	1,020 962	1,541 1,405	170 147	409 434	4,774 4,683	615 671	23 23	95 94	27	15 16
June	85,880	1,013	1,405	188	434	5,030	794	23	104	29	17
July	96,079	1,208	1,739	206	566	5,982	1,037	24	105	30	17
August	93,974	851	1,523	165	498	5,029	1,020	24	103	30	16
September	78,352	816	1,129	225	465	4,497	777	23	101	29	15
October	71,305	762 748	1,162	152	388 358	4,018 3,784	666 636	25	97 100	29 30	15
November December	68,515 75,036	748 868	1,082 1,109	164 162	358 408	3,784 4,181	636 713	23 25	100	30 31	15 17
Total	954,925	11,374	16,678	2,203	5,666	58,586	8,707	281	1,214	349	189
2012 January	72,487	817	1,177	171	487	4,598	753	26	107	29	16
February	64,477	674	882	140	388	3,637	743	26	99	27	15
March	59,263	609	985	185	372	3,642	775	26	95	29	16
April	53,057	764	908	177	305	3,376	814	25	90	29	15
May	64,624	888 905	977	174	338 309	3,730	914 983	25 26	98 98	30 29	16
June July	73,266 88,259	905 919	1,434 1,741	171 193	309 390	4,058 4,802	983 1.194	26 26	98 103	29 28	16 18
7-Month Total	475,435	5,577	8,104	1,212	2,590	27,843	6,177	181	692	201	112
2011 7-Month Total	567,742	7,330	10,673	1,335	3,548	37,078	4,895	161	703	200	110
2010 7-Month Total	585,901	9,184	16,835	1,630	3,701	46,152	4,752	153	703	200	135

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

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amount of fuel oil no. 4. d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011,

propane.

propane.
 ^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).

^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.

plants.

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 groups for Tables 7.4b and 7.4c

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

				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	т	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion 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	569,274 693,841	29,051 14,635	391,163 158,779	NA NA	179 231	421,110 174,571	3,682 3,044	NA NA) 3 8	2	NA NA
1985 Total 1990 Total ^k	782,567	16,567	184.915	26	1.008	206,550	3,245	11	129	188	(s)
1995 I otal	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	
1996 Total	896,921 921,364	18,780 18,989	99,951 113,669	653 152	2,642 3,372	132,593 149.668	3,807 4.065	20 24	138 137	300 309	2
1997 Total 1998 Total	936,619	23,300	166,528	431	4,102	210,769	4,065	24	137	309	2
1999 Total	940,922	24,058	152,493	544	3,735	195,769	4,820	19	138	315	1
2000 Total	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	1
2001 Total	964,433 977.507	29,274 21.876	159,504 104.773	377 1,267	3,427 5.816	206,291 156.996	5,342 5,672	15 33	126 150	211 230	113 143
2002 Total 2003 Total	1,005,116	21,876 27,632	104,773	2,026	5,816	196,996	5,672 5,135	33 41	150	230	143
2004 Total	1,016,268	19,107	139,816	2,713	7,372	198,498	5,464	58	165	223	138
2005 Total	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	221	123
2006 Total 2007 Total	1,026,636 1.045.141	12,646 15,327	57,345 63.086	1,870 2,594	7,101 5.685	107,365 109.431	6,222 6.841	65 61	182 186	231 237	125 124
2007 Total	1.040.580	12,547	38.241	2,594	5,005	79.056	6.668	61	177	258	131
2009 Total	933,627	12,035	28,782	2,210	4,611	66,081	6,873	55	180	261	124
2010 January	90,452	2,459	2,887	222	413	7,636	546	5	17	21	10
February	79,884	851	1,061	219	389	4,076	480	4	16	20	9
March April	76,110 66,842	759 699	1,256 1,214	131 112	427 369	4,281 3,871	457 471	5 5	16 15	22 21	10 10
May	75,597	1,023	2,055	104	400	5,181	560	5	14	22	10
June	87,030	1,222	3,147	137	471	6,860	706	5	16	23	11
July	94,519	1,309	3,730	185	503	7,742	897	5	17	23 23	11
August September	94,247 79,176	1,068 883	3,051 1.845	149 136	394 372	6,236 4,726	943 697	4	18 16	23	11 10
October	70,492	772	1,161	112	346	3,773	570	3	15	22	10
November	72,514	890	1,035	126	301	3,557	497	4	16	23	10
December Total	88,189 975,052	1,854 13,790	2,062 24,503	245 1,877	391 4,777	6,118 64,055	564 7,387	4 52	17 196	23 264	11 124
	89,682	1,225	1,759	224	, 500	5.707	542	4	16	21	10
2011 January February	73,156	858	1,020	117	374	3,866	482	4	15	20	9
March	72,009	827	1,164	121	451	4,364	483	5	15	23	11
April	66,741	940	1,378	104	291	3,879	526	4	12	22	10
May June	73,100 83,700	894 950	1,279 1,316	103 129	306 374	3,807 4,265	578 705	4 5	13 15	22 23	11 11
July	93,736	1,139	1,603	158	462	5,211	942	5	16	24	11
August	91,667	793	1,400	107	400	4,299	923	5	16	23	11
September	76,131	760	1,027	127	380	3,812	686	5	15	22	10
October November	69,109 66,557	690 697	995 962	119 131	295 242	3,280 2,999	578 543	5 5	13 13	23 23	10 10
December	72,971	814	973	128	319	3,512	612	5	16	23	11
Total	928,558	10,586	14,876	1,568	4,394	49,003	7,602	56	175	269	126
2012 January	70,231	758	1,054	125	342	3,649	651	6	16	22	11
February	62,450	638	790 898	97	274 212	2,895	649 680	6	15	21	10
March April	57,211 51,357	567 717	898 838	111 102	212 163	2,636 2,472	680 724	5 4	14 11	23 22	11 11
May	62,827	842	892	134	198	2,860	819	5	13	23	11
June	71,514	830	1,364	117	182	3,220	884	5	15	20	9
July 7-Month Total	86,404 461,994	845 5,198	1,658 7,493	163 848	240 1,611	3,864 21,595	1,088 5,495	5 36	16 100	21 152	12 76
2011 7-Month Total	552,123	6,832	9,519	957	2,758	31,100	4,258	31	102	155	73
2010 7-Month Total	570,434	8,323	15,349	1,111	2,973	39,645	4,116	33	113	152	71

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

⁶ Antifiacite, bitaninoso coal, construction of the second secon

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

		Commercial Sector ^a				Industrial Sector ^b							
				Biomass				-	Biom	ass			
	Coalc	Petroleumd	Natural Gas ^e	Waste ^f	Coal ^c	Petroleumd	Natural Gas ^e	Other Gases ^g	Wood ^h	Waste ^f	Other ⁱ		
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu			
989 Total	1.125	1.967	30	22	24,867	25,444	914	195	926	35	85		
990 Total	1,123	2,056	46	28	27,781	36,159	1,055	275	1,125	41	86		
995 Total	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95		
996 Total	1,660	1,246	82	53	29,434	38,661	1,289	325	1,249	39	89		
997 Total 998 Total	1,738 1,443	1,584 1.807	87 87	58 54	29,853 28,553	37,265 38.910	1,282 1.355	283 305	1,259 1,211	41 42	10: 9:		
999 Total	1,443	1,613	84	54	27,763	37,312	1,401	305	1,213	31	99		
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	10		
2001 Total	1,448	1,832	79	25	25,755	26,817	1,310	248	1,054	27	10		
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	1,917 1.922	2,009 1.630	72 68	34 34	26,613	28,857 27,380	1,191	295 264	1,193	24 34	94 94		
2005 Total 2006 Total	1,922	1,630	68 68	34 36	25,875 25,262	27,380 22,706	1,084 1,115	264 277	1,166 1,216	34 33	94 102		
2006 Total	1,000	752	68 70	30	25,262	22,706	1.050	268	1,216	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 January	193	55	7	3	2,094	1,128	90	17	86	4			
February	167	47	7	3	1,978	1,021	80	15	79	4			
March	149	26	7	3	2,124	817	84	18	86	4			
April	117 118	24 28	6 6	3 4	2,220 2.010	761 796	79 82	18 18	83 83	5 3	7		
May June	135	26	6	4	1,898	835	84	18	85	3	8		
July	142	59	8	3	2,122	883	91	17	88	3	6		
August	152	46	9	3	2,194	849	95	19	88	3	8		
September	133	27	7	3	1,941	780	87	18	87	3	8		
October	121	21	7	3	1,958	899	84	17	86	5	8		
November	128	22	7	3	1,854	924	82	17	86	5	8		
December Total	165 1,720	55 437	8 86	3 36	2,246 24,638	1,045 10,740	92 1, 029	19 210	91 1,029	4 47	ع 91		
2011 January	178	45	8	3	2.320	858	89	18	91	4	3		
February	165	24	7	3	2,044	852	79	16	81	4	3		
March	158	29	6	3	2,088	862	81	20	86	3	3		
April	124	15	6	3	1,767	880	82	19	83	3	3		
May	128	17 22	7 6	3	2,126 2.056	859 743	87 83	18 19	81	4	2		
June July	124 134	22 35	67	3	2,056	743	83	19	89 89	4	2		
August	124	20	7	3	2,182	710	89	19	86	4	3		
September	121	15	6	3	2,100	670	84	18	87	4			
October	116	19	6	3	2,080	719	81	20	84	4	3		
November	123	18	7	3	1,835	767	86	19	87	4	3		
December	138	23	8	3	1,927	646	94	20	93	4	4		
Total	1,633	282	81	36	24,733	9,302	1,024	224	1,037	44	40		
2012 January	154	30	7 7	3	2,102	919	94	21	91	4			
February	137 131	16 17	6	3	1,890 1,921	726 989	87 89	20 21	84 81	4	3		
March April	131	14	6	3	1,921	989 891	89 84	21	79	3			
May	117	15	6	3	1,505	855	90	20	85	4	4		
June	110	27	8	6	1,643	811	92	21	84	4	3		
July	115	34	8	3	1,740	905	98	21	87	3	4		
7-Month Total	875	152	47	23	12,567	6,096	635	145	591	25	22		
2011 7-Month Total 2010 7-Month Total	1,010 1.021	187 265	47 46	20 22	14,609 14,446	5,791 6,242	590 589	129 120	600 589	25 27	24 51		

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

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

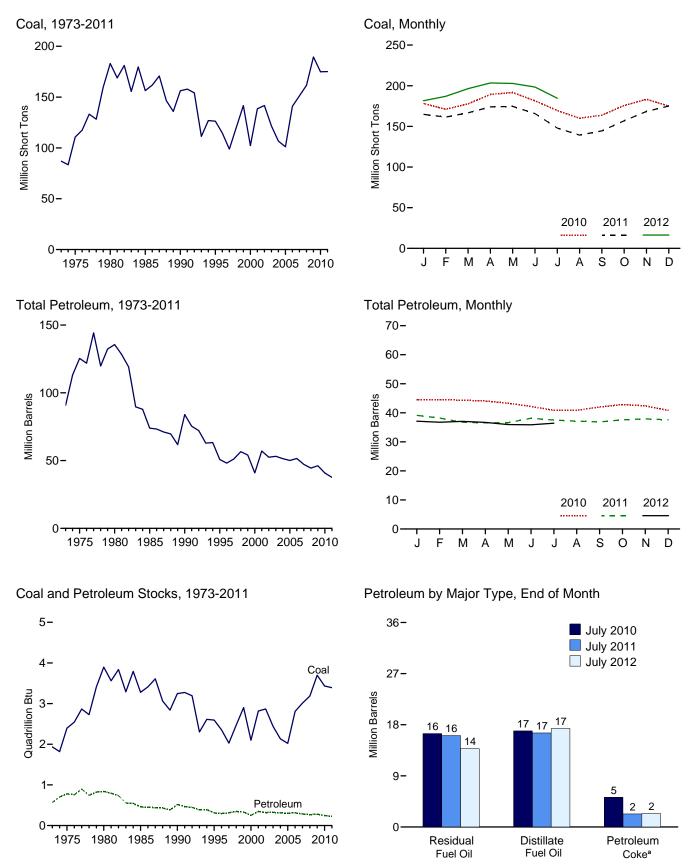
^G Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
^G Natural gas, plus a small amount of supplemental gaseous fuels.
^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, 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.

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 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: • 1984.1997: ULS Energy Information Administration (FIA) Form

available data beginning in 1989.
Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report."
• 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector



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

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oilc	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
975 Year		16,432	108.825	NA	31	125.413
980 Year	183,010	30.023	105,351	NA	52	135.635
985 Year		16.386	57.304	NA	49	73.933
990 Year		16,471	67.030	NA	94	83.970
995 Year		15,392	35,102	NA	65	50.821
996 Year		15.216	32,473	NA	91	48,146
997 Year	98.826	15,456	33.336	NA	469	51.138
1998 Year		16,343	37,451	NA	559	56,591
1999 Year ^f		17.995	34.256	NA	372	54.109
2000 Year	102.296	15.127	24,748	NA	211	40.932
	138,496		34,594	NA	390	
2001 Year		20,486		800		57,031
2002 Year		17,413	25,723		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
2007 Year		18,395	24,136	1,902	554	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
010 January		17,193	18,035	2,198	1,406	44,454
February		17,409	18,532	2,222	1,280	44,562
March		17,353	18,679	2,105	1,240	44,337
April	189,260	17,295	18,353	2,228	1,243	44,090
May	191,669	17,185	17,935	2,235	1,188	43,294
June	181,490	17,040	17,411	2,172	1,117	42,209
July	169,504	16,917	16,441	2,268	1,046	40,856
August		16.737	16.288	2,292	1,112	40.878
September		16,608	17,269	2,330	1,158	41,996
October		16.698	17,781	2.377	1,197	42.840
November	183.389	17.024	17,492	2,410	1.098	42.414
December		16,758	16,629	2,319	1,019	40,800
2011 January	164.840	16,673	16.061	2.383	801	39,123
February		16.654	15.575	2,435	707	38,200
March		16,498	15,393	2.437	489	36.776
April		16,301	15,180	2,460	522	36,551
May		16,195	15.235	2,447	548	36.617
June		16,779	16.356	2.564	491	38.152
July		16,550	16,090	2,561	462	37,510
August		16,583	15.804	2,581	435	37,144
September	144,438	16,691	15.654	2,593	389	36.884
October	156,906	16,955	15,942	2,640	413	37,601
November	168.354	17,148	15.832	2,677	453	37,923
December	175,100	17,101	15,469	2,690	433	37,608
012 January	181.621	17.179	15.248	2.718	394	37.116
February	186,958	17,024	15,174	2,718	357	36,749
		16,929	15,174	2,700	405	37,073
March					368	
April	203,394	16,876	15,144	2,834		36,697
May		16,801	14,809	2,862	301	35,975
June		16,699	14,553	2,903	346	35,886
July	184,586	17,344	13,783	2,949	474	36,446

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

^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

^d Jet fuel and kerosene. Through 2003, data also include a small amount of

waste oil.

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

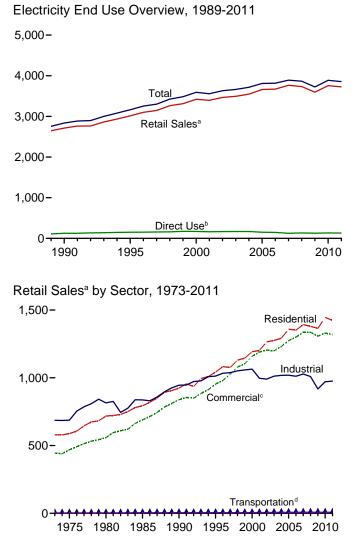
NA=Not available. Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Stocks

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.

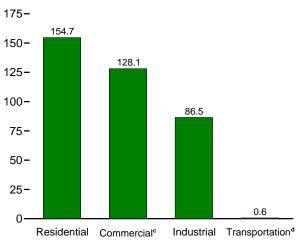
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all

 Web Page. See http://www.ela.gov/utalenergy/utalenerg Report. • 1993-1997: EIA, Form EIA-759, Wohrthy 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-923, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

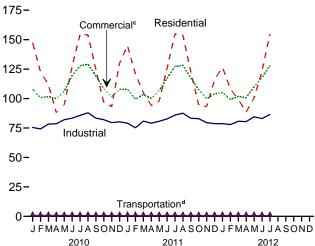
Figure 7.6 Electricity End Use (Billion Kilowatthours)



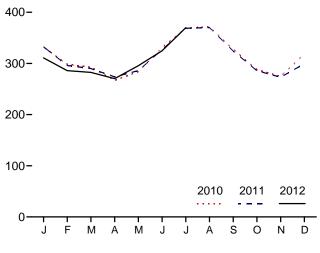
Retail Sales^a by Sector, July 2012



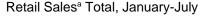
Retail Sales^a by Sector, Monthly

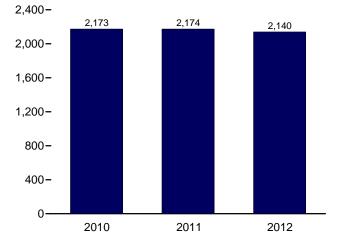


Retail Sales^a Total, Monthly



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.





 ^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

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discontinued Retail Sales Series		
	Residential	Commercialb	Industrialc	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	Commercial (Old) ^h	Other (Old) ⁱ	
973 Total	579.231	^E 444.505	686,085	^E 3.087	1,712,909	NA	1,712,909	388,266	59,326	
975 Total	588,140	E 468.296	687.680	^E 2,974	1.747.091	NA	1.747.091	403.049	68.222	
980 Total	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	488,155	73,73	
985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,27	
990 Total	924.019	838.263	945.522	4,751	2,712.555	124.529	2.837.084	751.027	91.98	
95 Total	1.042.501	953.117	1.012.693	4,75	3,013,287	150.677	3,163,963	862,685	95.40	
96 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,53	
997 Total	1,075,880	1,026,626	1,038,197	4,923	3,145,610	156,239	3,301,849	928,633	102,90	
998 Total	1.130.109	1.077.957	1.051.203	4,962	3.264.231	160.866	3.425.097	979.401	102,50	
999 Total	1,144,923	1,103,821	1,058,217	5,126	3,312,087	171,629	3,483,716	1,001,996	106,95	
	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	100,95	
000 Total										
001 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,17	
02 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552	
03 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029			
004 Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949			
005 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984			
006 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845			
007 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231			
008 Total	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159			
009 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803			
10 January	147,500	108,120	75,506	715	331,841	E 11,084	342,925			
February	122,840	100,747	74,164	689	298,440	E 10,144	308,585			
March	111,790	101,756	78,303	656	292,505	E 10,884	303,389			
April	88,046	99,791	78,597	600	267,034	E 10,091	277,125			
May	94,843	106,176	82,088	606	283,712	E 10,611	294,323			
June	127,496	119,388	83,347	658	330,889	E 11,037	341,927			
July	154,688	127,925	85,725	667	369,006	E 11,690	380,696			
August	154,053	129,143	87,904	628	371,728	E 12,298	384,026			
September	124,582	119,137	83,353	639	327,711	E 11,221	338,932			
October	96,688	108,461	82,046	615	287,811	E 10,605	298,416			
November	93,166	101,524	79,575	607	274,871	E 10,520	285,392			
December	130,015	108,031	80,264	633	318,943	^E 11,725	330,668			
Total	1,445,708	1,330,199	970,873	7,712	3,754,493	131,910	3,886,403			
011 January	144,911	107,884	79,055	710	332,561	^E 11,301	343,862			
February	120,685	99,368	75,223	633	295,909	^E 10,037	305,945			
March	105,065	103,507	80,817	655	290,044	E 10,506	300,550			
April	94,069	100,019	79,099	618	273,805	E 10,119	283,924			
May	97,755	106,841	80,741	615	285,951	E 10,831	296,783			
June	126,008	117,460	82,775	637	326,881	E 10,899	337,780			
July	154,888	127,139	85,907	645	368,580	E 11,630	380,209			
August	153,688	128,200	87,565	620	370,073	E 11,570	381,643			
September	122,842	117,403	83,311	630	324,186	E 10,787	334,973			
October	94,576	107,655	82,860	608	285,699	E 10,356	296,055			
November	93,126	99,782	79,561	584	273,053	E 10,639	283,692			
December	116,087	104,030	78,655	649	299,421	E 11,505	310,926			
Total	1,423,700	1,319,288	975,569	7,606	3,726,163	^E 130,179	3,856,342			
12 January	126,475	105,076	78,640	669	310,859	^E 11,539	322,398			
February	108,145	99,266	77,918	646	285,975	^E 10,860	296,835			
March	99,342	101,806	80,694	612	282,453	E_10,619	293,072			
April	88,444	100,733	80,444	596	270,217	_ ^E 9,966	280,183			
May	100,629	109,955	84,482	617	295,682	E 10,920	306,601			
June	123,317	117,708	83,015	609	324,650	E 11,213	335,862			
July	154,698	128,111	86,506	642	369,957	^E 11,881	381,838			
7-Month Total	801,049	762,656	571,698	4,391	2,139,794	^E 76,996	2,216,790			
011 7-Month Total	843,381	762,218	563,617	4,514	2,173,730	^E 75,323	2,249,053			
10 7-Month Total	847,204	763,903	557,731	4,591	2,173,429	E 75.541	2,248,970			

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

^b 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 railways.

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." 1984–1997: EIA, Form EIA-861, "Annual Electric Utility Report."

1998 forward: EIA, *Electric Power Monthly*, September 2012, 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/states/sep_use/notes/use_elec.pdf.

2003 forward: EIA, *Electric Power Monthly*, September 2012, 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/states/sep_use/notes/use_elec.pdf.

2003 forward: EIA, *Electric Power Monthly*, September 2012, Table 5.1.

Direct Use, Annual

1989–1996: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1997–2010: EIA, *Electric Power Annual 2010*, November 2011, Table 7.2.

2011: Sum of monthly estimates.

Direct Use, Monthly

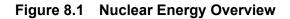
Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2011 and 2012, the 2010 annual share is used.

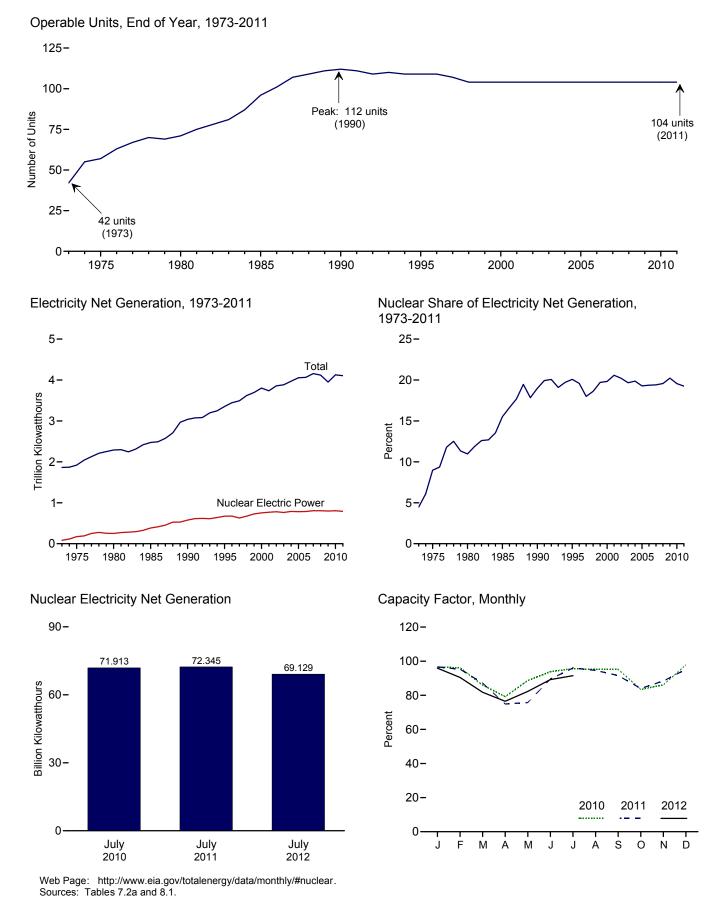
Discontinued Retail Sales Series Commercial (Old) and Other (Old)

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

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8. Nuclear Energy





1973 Total 1975 Total 1980 Total 1980 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2010 January February March April May July August September October November December Total 2011 January February March April May Ju	Number 42 57 71 96 112 109 109 109	Million Kilowatts 22.683 37.267 51.810 79.397 99.624	Million Kilowatthours 83,479 172,505 251,116	4.5	Capacity Factor ^d		
975 Total 980 Total 995 Total 995 Total 996 Total 997 Total 998 Total 999 Total 999 Total 999 Total 000 Total 000 Total 001 Total 002 Total 003 Total 004 Total 005 Total 006 Total 007 Total 008 Total 009 Total 007 Total 008 Total 009 Total 001 January February March April May July August September October November July August September October November	57 71 96 112 109 109 107	37.267 51.810 79.397 99.624	172,505				
1975 Total 1980 Total 1990 Total 1990 Total 1990 Total 1990 Total 1990 Total 1997 Total 1997 Total 1998 Total 1999 Total 1999 Total 1999 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2010 January February March April May June July August September October November December Total	57 71 96 112 109 109 107	37.267 51.810 79.397 99.624	172,505		53.5		
1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1999 Total 1999 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 January February March April May July August September December Total 2011 January February March April May June July August <td>71 96 112 109 109 107</td> <td>51.810 79.397 99.624</td> <td></td> <td></td> <td>55.9</td>	71 96 112 109 109 107	51.810 79.397 99.624			55.9		
985 Total 990 Total 990 Total 995 Total 996 Total 997 Total 998 Total 998 Total 999 Total 000 Total 001 January February May June July August	96 112 109 109 107	79.397 99.624	251,116	9.0			
990 Total 995 Total 995 Total 997 Total 998 Total 999 Total 999 Total 000 Total	112 109 109 107	99.624		11.0	56.3		
995 Total 996 Total 997 Total 998 Total 999 Total 900 Total 000 Total 001 January February March April <t< td=""><td>109 109 107</td><td></td><td>383,691</td><td>15.5</td><td>58.0</td></t<>	109 109 107		383,691	15.5	58.0		
996 Total 997 Total 998 Total 999 Total 999 Total 000 Total 001 Total 002 Total 003 Total 004 Total 005 Total 006 Total 007 Total 006 Total 007 Total 008 Total 009 Total 009 Total 009 Total 009 Total 009 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December October <td>109 107</td> <td></td> <td>576,862</td> <td>19.0</td> <td>66.0</td>	109 107		576,862	19.0	66.0		
997 Total 998 Total 998 Total 999 Total 000 Total 000 Total 001 Total 002 Total 003 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 009 Total 009 Total 001 January February March April June July August September October November December Total 011 January February March April May June July April May June July August September October November December October November December	107	99.515	673,402	20.1	77.4		
998 Total 999 Total 999 Total 000 Total 000 Total 001 Total 003 Total 005 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 000 Total March August September October November December Total May June July August September October		100.784	674,729	19.6	76.2		
998 Total 999 Total 999 Total 000 Total 000 Total 001 Total 003 Total 005 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 000 Total March August September October November December Total May June July August September October		99.716	628,644	18.0	71.1		
999 Total 000 Total 0001 Total 002 Total 003 Total 004 Total 005 Total 005 Total 006 Total 007 Total 008 Total 009 Total 001 January February March April May June July August September October November December Total 0011 January February March April May June July August September October November December	104	97.070	673,702	18.6	78.2		
000 Total 001 Total 002 Total 003 Total 003 Total 004 Total 005 Total 006 Total 006 Total 007 Total 008 Total 009 Total 001 January February May June December Total 0011 January February March April May June June June June June June June June June June <	104	97.411	728,254	19.7	85.3		
2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2007 Total 2009 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June June <t< td=""><td>104</td><td></td><td></td><td></td><td></td></t<>	104						
2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2010 January February March April May June July July August September October November December Total 2011 January February March April May June		97.860	753,893	19.8	88.1		
2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 January February March April June July August September October November December Total 2011 January February March April May June July August September October November December Notember December November December November December November	104	98.159	768,826	20.6	89.4		
004 Total 0005 Total 0006 Total 0007 Total 0008 Total 0009 Total 0009 Total 0009 Total 0009 Total 0009 Total 0009 Total 0010 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December October November December October November December October November December December Dotober November			780,064	20.2	90.3		
004 Total 0005 Total 0006 Total 0007 Total 0008 Total 0009 Total 0009 Total 0009 Total 0009 Total 0009 Total 0009 Total 0010 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December October November December October November December October November December December Dotober November	104	99.209	763,733	19.7	87.9		
2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2010 January February March May July April May July August September October November December Total 2011 January February March April May June July August September October November December Total	104	99.628	788,528	19.9	90.1		
2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total Warch April May June July August September October November December Total 2011 January February March April May June July August September October November Dure July August September October November December November December November December November December November December November December	104	99.988	781.986	19.3	89.3		
2007 Total 2008 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June Vorenber December Total 2011 January February March April May June July August September October November December	104	100.334	787,219	19.4	89.6		
2008 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June Ducember December Total 2011 January February March April May June July August September October November December December December Total	104			19.4	91.8		
2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November June December October November December Total		100.266	806,425				
2010 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December Total	104	100.755	806,208	19.6	91.1		
February March April May June July July August September October November December Total 2011 January February March April May June July August September October November December	104	101.004	798,855	20.2	90.3		
March	104	^{e E} 101.002	72,569	20.1	^E 96.6		
April May June July August September October November December Total Pebruary March April June July August September Cotober November December October November December October November December October November December October November December Total	104	E 101.000	65,245	20.4	E 96.1		
May June July August September October December Total 1011 January February March April July August September October November December Total	104	E 100.998	64,635	20.7	E 86.0		
June	104	E 100.996	57,611	20.0	E 79.2		
June	104	E 101.063	66,658	20.3	E 88.7		
July	104	E 101.094	68,301	18.2	E 93.8		
August September October November December Total Pebruary March April June July August September Cotober November December Total	104	E 101.092	71.913	17.6	E 95.6		
September		E 101.092	,		^E 95.2		
October	104		71,574	17.5	- 95.2		
November December Total February March April May June July August September October November December December	104	^E 101.088	69,371	20.0	^E 95.3		
December	104	^E 101.104	62,751	20.4	^E 83.4		
Total	104	^E 101.129	62,655	20.5	^E 86.0		
Total	104	101.167	73,683	20.3	97.9		
February March April May June July August September October November December Total	104	101.167	806,968	19.6	91.1		
February March April June July August September October November December Total	104	^E 101.167	72,743	20.0	^E 96.6		
March	104	E 101.167	64.789	20.7	E 95.3		
April	104	E 101.167	65,662	20.6	E 87.2		
May June July August September October November December Total	104	E 101.167	54,547	18.0	E 74.9		
June July September October November December Total		^E 101.167			^E 75.8		
July	104		57,017	17.6			
August September October November December Total	104	E 101.281	65,270	17.7	^E 89.5		
September October November December Total	104	E 101.281	72,345	17.2	E 96.0		
October November December Total	104	^E 101.351	71,339	17.6	^E 94.6		
October November December Total	104	^E 101.351	66,849	19.8	^E 91.6		
November December Total	104	E 101.351	63,354	20.5	E 84.0		
December Total	104	E 101.351	64,474	21.2	E 88.4		
Total	104	P 101.423	71.837	21.2	P 95.2		
	104 104	P 101.423	790.225	21.4 19.2	P 89.1		
012 January	104		190,220	13.2			
012 January	104	E 101.423	72,382	21.2	E 95.9		
February	104	^E 101.423	63,850	20.6	^E 90.5		
March	104	^E 101.423	61,730	19.9	E 81.8		
April	104	E 101.423	55,871	18.9	E 76.5		
May	104	E 101.446	62,081	18.4	E 82.3		
	104	^E 101.446	65.140	18.0	E 00 0		
June					E 89.2		
July 7-Month Total	104 104	^E 101.545 ^E 101.545	69,129 450,184	16.6 19.0	^E 91.5 ^E 86.8		
011 7-Month Total 010 7-Month Total	104 104	^E 101.281 ^E 101.092	452,373 466,934	18.8 19.5	^E 87.9 ^E 90.8		

^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.

 ⁶ At end of period.
 ⁶ For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," ^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. P=Preliminary. 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. Coorgraphic generation is the S between and the District of Columbia 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.

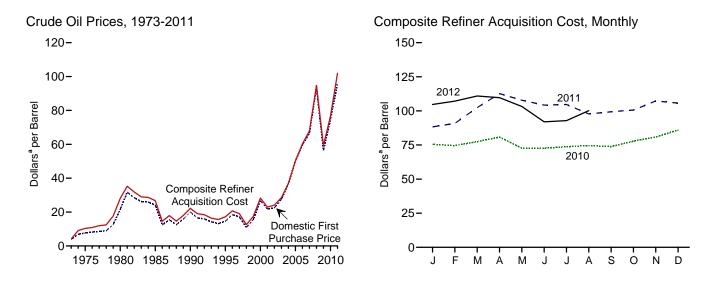
Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

See Table 7.2a.

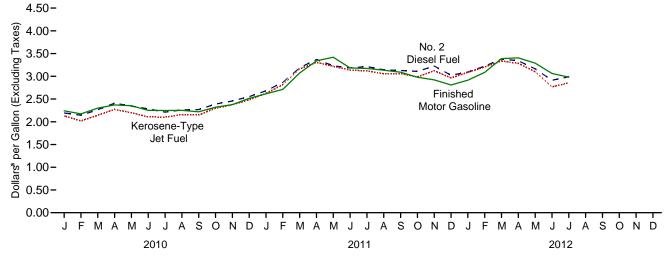
Capacity Factor

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

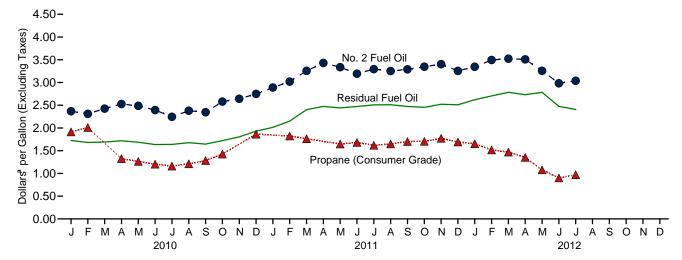
9. Energy Prices



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)

				R	efiner Acquisition Co	st ^b
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
1973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	[⊑] 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
	10.87	10.76	11.84	13.18	12.04	12.52
998 Average	15.56	16.47	17.23	17.90	17.26	12.52
999 Average						
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
001 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
003 Average	27.56	25.86	27.69	29.82	27.71	28.53
004 Average	36.77	33.75	36.07	38.97	35.90	36.98
2005 Average	50.28	47.60	49.29	52.94	48.86	50.24
2006 Average	59.69	57.03	59.11	62.62	59.02	60.24
2007 Average	66.52	66.36	67.97	69.65	67.04	67.94
008 Average	94.04	90.32	93.33	98.47	92.77	94.74
009 Average	56.35	57.78	60.23	59.49	59.17	59.29
010 January	72.89	72.96	74.78	76.04	75.07	75.48
February	72.74	71.50	75.01	75.91	73.73	74.58
March	75.77	75.41	77.65	78.52	76.77	77.43
April	78.80	78.27	79.34	82.12	80.03	80.83
May	70.90	69.21	72.00	75.23	71.15	72.66
June	70.77	70.17	72.62	73.93	71.91	72.66
July	71.37	71.01	73.43	74.54	73.25	73.73
August	72.07	71.27	73.63	76.21	73.50	74.58
September	71.23	71.72	74.25	74.87	73.20	73.85
October	76.02	75.52	77.26	78.88	77.02	75.05
November	79.20	79.56	81.56	82.05	80.07	80.85
December	83.98	83.95	86.64	86.48	85.59	85.95
	74.71	74.20	76.49	77.96	75.88	76.69
Average	74.71	74.20	70.49	11.90	75.00	70.09
011 January	85.66	86.80	89.61	88.73	87.99	88.28
February	86.69	92.07	94.25	89.50	91.72	90.85
March	99.19	104.19	104.80	102.34	102.48	102.43
April	108.80	111.52	112.54	111.96	113.08	112.65
May	102.46	105.92	108.28	107.55	107.99	107.82
June	97.30	104.35	105.19	102.53	105.36	104.23
July	97.82	105.60	106.19	102.67	105.94	104.68
August	89.00	97.72	99.27	95.89	99.01	97.70
September	90.22	100.84	101.03	96.89	101.05	99.39
October	92.28	101.92	102.55	98.34	102.00	100.57
November	100.18	105.79	105.98	106.69	107.67	107.28
December	98.71	103.09	105.62	104.51	106.52	105.69
Average	95.73	101.68	102.99	100.74	102.70	101.93
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
Артт Мау	95.57	^R 100.79	^R 101.56	103.17	103.26	109.70
	95.57 83.59	^R 88.00	^R 91.08	91.66	^R 92.18	^R 91.96
June	^R 86.15	^R 92.80	^R 91.49	^R 92.64	^R 92.98	^R 92.83
July	NA	NA		E 98.69	^E 101.22	E 100.20
August	NA	INA	NA	- 90.69	- 101.22	- 100.20

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
^b See Note 1, "Crude Oil Refinery Acquisition Costs," at end of section.
^c See Note 2, "Crude Oil Domestic First Purchase Prices," at end of section.
^d See Note 3, "Crude Oil F.O.B. Costs," at end of section.
^e See Note 4, "Crude Oil Landed Costs," at end of section.
^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 the current two months and for F.O.B. and Landed Costs of Imports for the 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)

			Se	elected Count	ries			Dereien		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^o
1973 Average ^d	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
975 Average	10.97	-	11.44	11.82	10.87	-	11.04	10.88	11.34	10.62
980 Average	33.45	w	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
985 Average	26.30	-	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
995 Average	16.58	16.73	15.64	17.40	w	16.94	13.86	w	15.36	16.02
996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
002 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
004 Average	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
005 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
006 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
007 Average	67.80	67.93	61.35	76.64	w	69.96	64.10	69.93	69.58	62.69
008 Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
009 Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
010 January	74.62	70.08	72.96	75.91	W	-	70.86	W	73.42	72.49
February	W	68.70	69.16	76.07	W	-	68.83	71.89	71.77	71.14
March	78.11	73.90	72.76	81.27	W	-	70.88	76.10	75.83	74.91
April	84.40	74.85	75.57	85.94	W	W	72.59	80.01	78.88	77.73
May	71.86	64.32	68.30	74.28	W	-	66.37	73.60	70.45	68.24
June	72.90	67.19	67.64	75.61	W	-	66.19	72.49	71.39	69.20
July	74.77	70.00	68.53	79.63	W	_	67.25	71.76	72.16	69.87
August	77.11	69.88	69.53	75.70	W	W	68.27	72.79	72.38	70.35
September	W	69.71	69.90	80.93	74.06	-	67.59	73.34	73.24	70.24
October	W	76.06	73.93	84.59	W	-	72.10	78.28	77.55	73.80
November	85.99	78.92	77.14	86.61	W	_	75.03	80.99	80.95	78.49
December	W	81.62	81.75	93.68	W	w	77.78	W	85.72	82.40
Average	78.18	72.56	72.46	80.83	76.44	vv	70.30	75.65	75.23	73.24
011 January	95.97	83.36	84.36	99.86	W	-	81.25	W	89.74	83.92
February	W	87.23	88.77	109.07	W	-	85.11	97.25	96.01	88.67
March		101.29	102.55	117.98	W	-	97.56	107.36	106.19	102.44
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	110.29	108.50	103.81
June		102.78	103.43	119.13	W	_	100.59	106.39	108.22	100.42
July	114.80	100.30	104.84	119.68	W		100.62	109.06	110.09	100.90
August	W	95.01	98.21	115.61		-	97.17	106.98	104.19	93.57
September		97.45	100.28	115.43	109.99	-	95.72	108.41	105.82	97.08
October	109.74 112.49	102.37	101.48	114.46	W	_	96.93	105.62	105.20	98.65
November		106.97	107.94	115.35	W		105.44	106.51	108.16	104.17
December		103.10	105.96	W		_	105.75	104.48	106.42	100.80
Average	111.82	100.19	100.92	115.35	107.08	-	97.23	106.49	105.34	98.51
012 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	W	-	110.37	111.12	113.85	103.42
March	W	118.46	114.81	128.10	W	-	112.76	118.06	117.06	104.75
April	118.84	114.06	110.54	W	W	-	109.33	115.02	113.85	101.42
May	110.79	101.27	103.12	110.79	W	-	^R 101.45	105.16	105.28	^R 96.74
June	^R 95.65	^R 91.81	^R 90.60	^R 98.96	^R 92.04	-	^R 87.64	^R 90.55	^R 90.63	^R 85.50
July	W	96.83	94.85	W	W	-	93.62	95.47	95.88	89.46

 ^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 2008, also includes functional monoPEC" for 2007); for 1974–1995, also includes Gabon (although Bcuador rejoined OPEC for only 1975–1994); includes Cabon (athough 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.

 $^{\rm d}$ Based on October, November, and December data only. 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 S, Clude OI P.O.B. Costs, at ento disection. • Values for the current work of the content of the current of 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				Dereien		
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC
1973 Average ^d	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
2005 Average	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2006 Average	64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2007 Average	71.27	60.38	70.91	62.31	78.01	70.78	72.47	66.13	69.83	71.14	63.96
2008 Average	98.18	90.00	93.43	85.97	104.83	94.75	96.95	90.76	93.59	95.49	90.59
2009 Average	61.32	57.60	58.50	57.35	68.01	62.14	63.87	57.78	62.15	61.90	58.58
2010 January	77.32	72.59	74.26	73.23	78.58	76.63	77.97	72.63	76.34	75.91	73.59
February	79.06	73.37	73.11	69.48	79.25	77.29	77.84	70.91	77.27	76.24	73.33
March	80.93	76.82	76.08	73.07	83.68	77.57	79.07	72.92	77.55	78.40	76.84
April	82.26	78.36	76.33	75.03	86.80	79.53	80.25	75.21	79.15	80.07	78.61
May	74.80	69.16	66.52	68.71	76.90	77.52	W	68.53	76.20	73.95	70.20
June	76.54	69.14	69.64	68.02	78.14	76.01	77.67	68.30	75.14	74.55	70.92
July	77.20	70.25	71.61	69.31	81.07	75.46	76.60	69.59	74.75	74.81	72.03
August	78.40	70.10	71.49	69.95	79.15	76.06	79.52	70.14	75.81	75.42	71.81
September	80.49	68.66	70.85	70.47	81.58	77.15	W	68.88	76.64	76.39	71.89
October	85.33	69.23	76.72	74.73	86.01	81.81	Ŵ	74.29	81.24	80.52	74.15
November	86.98	75.40	80.24	77.55	89.15	84.62	87.10	77.53	84.09	84.38	78.96
December	91.77	80.76	82.76	82.37	95.44	90.45	92.50	80.79	89.99	89.25	83.97
Average	80.63	72.80	74.25	72.86	83.15	79.25	80.12	72.43	78.58	78.27	74.67
2011 January	99.58	81.43	85.88	85.00	101.24	96.59	W	84.70	96.57	94.03	85.02
February	110.07	80.65	90.14	89.08	108.94	103.20	Ŵ	89.88	101.81	99.96	89.03
March	114.40	89.32	105.74	103.03	117.17	110.12	118.42	101.22	109.56	109.23	101.20
April	124.01	99.26	112.47	110.55	126.47	116.13	124.67	107.95	115.18	116.64	108.91
May	116.76	98.29	109.70	105.62	119.95	112.19	W	104.04	111.48	111.90	105.06
June	116.73	92.36	104.31	103.71	120.81	110.00	Ŵ	102.32	108.97	109.87	100.83
July	117.98	91.76	101.35	105.38	121.80	111.06	Ŵ	103.04	110.19	111.58	100.38
August	113.36	84.05	95.08	98.78	115.83	109.38	Ŵ	99.54	108.26	106.24	93.81
September	112.63	85.19	99.17	99.90	117.19	109.91	Ŵ	99.10	108.82	107.67	95.59
October	114.82	88.21	104.14	101.97	116.09	108.90	Ŵ	99.89	108.07	107.98	97.91
November	115.14	93.80	108.52	108.46	117.05	108.61	Ŵ	106.90	108.35	110.09	102.90
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	90.03	102.53	101.22	116.40	108.81	118.35	100.14	108.06	107.85	98.75
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	^R 82.78	105.04	103.79	^R 113.89	^R 108.39	Ŵ	^R 103.02	^R 108.52	^R 108.26	^R 95.20
June	^R 103.10	^R 78.10	^R 93.85	^R 90.89	^R 103.24	^R 98.11	-	^R 89.41	R 98.33	^R 96.52	86.91
July	106.99	74.56	98.01	95.09	103.93	97.37	_	94.73	96.65	97.62	86.79
				00.00		00.		00	00.00	00-	000

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

the Neutral Zone (between Kuwait and Saudi Arabia). ^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginze in 2007, alon piedude Angela. Date for all countries net included in 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.

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. • 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 to the published. The public of the public of the public of the public of the prices. into the United States, are not included in the published 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://

See http://www.eia.gov/totalenergy/data/monthly/#prices for all

Vieto Page. See Third, Www.ea.gov/totalenergy/data/monthly/#prices for an 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, October 2012, 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
973 Average	0.388	NA	NA	NA
975 Average	0.567	NA	NA	NA
980 Average	1.191	1.245	NA	1.221
	1.115	1.245	1.340	1.196
985 Average	1.149	1.164	1.340	1.190
990 Average				
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	2.491	2.338
006 Average	NA	2.589	2.805	2.635
007 Average	NA	2.801	3.033	2.849
008 Average	NA	3.266	3.519	3.317
009 Average	NA	2.350	2.607	2.401
010 January	NA	2.731	2.987	2.779
February	NA	2.659	2.922	2.709
March	NA	2.780	3.035	2.829
April	NA	2.858	3.113	2,906
May	NA	2.869	3.124	2.915
June	NA	2.736	3.000	2.783
July	NA	2.736	2.997	2.783
August	NA	2.745	3.015	2.795
September	NA	2.704	2.968	2.754
	NA	2.704	3.055	2.734
October				
November	NA	2.852	3.109	2.899
December	NA	2.985	3.234	3.031
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	3.912	3.703
August	NA	3.630	3.893	3.680
	NA	3.612	3.887	
September				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
12 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
May	NA	3.792	4.062	3.839
June	NA	3.552	3.825	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
	11/7	0.000	4.140	0.000

^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

Sources: • Monthly Data: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Prices: Energy. • Annual Data: 1973—Platt's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the U.S. Energy Information Administration as the simple averages of monthly data.

Table 9.5 Refiner Prices of Residual Fuel Oil

(Dollars^a per Gallon, Excluding Taxes)

	Sulfur Co	II Fuel Oil ntent Less al to 1 Percent	Sulfur	Il Fuel Oil Content an 1 Percent	Ανε	erage
	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	0.512	0.566	0.566	0.602
001 Average	0.523	0.642	0.428	0.492	0.476	0.531
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
2005 Average	1.115	1.168	0.842	0.974	0.971	1.048
2006 Average	1.202	1.342	1.085	1.173	1.136	1.218
2007 Average	1.406	1.436	1.314	1.350	1.350	1.374
2008 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 January	1.767	1.852	1.705	1.660	1.721	1.725
February	1.725	1.862	1.650	1.574	1.666	1.681
March	1.739	1.862	1.700	1.609	1.711	1.692
April	1.827	1.887	1.725	1.655	1.748	1.718
May	1.675	1.898	1.675	1.601	1.675	1.686
June	1.629	1.874	1.604	1.555	1.612	1.636
July	1.686	1.858	1.604	1.536	1.629	1.639
August	1.705	1.895	1.625	1.571	1.642	1.676
September	1.716	1.883	1.612	1.558	1.632	1.645
October	1.793	1.913	1.688	1.637	1.712	1.721
November	1.865	2.025	1.741	1.701	1.768	1.804
December	2.036	2.215	1.814	1.784	1.865	1.931
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	^R 2.186	2.179	^R 2.211	2.476
July	2.271	2.926	2.224	2.221	2.234	2.406

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

6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the

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

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, October 2012, 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
996 Average	0.713	1.055	0.646	0.714	0.639	0.659	0.461
997 Average	0.700	1.065	0.613	0.653	0.590	0.606	0.416
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
	1.288	1.627	1.208	1.271	1.125	1.187	0.751
004 Average	1.200	2.076	1.723	1.757	1.623	1.737	0.933
005 Average 006 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
	2.182	2.490	2.171	2.249	2.072	2.203	1.194
007 Average	2.586	3.342	3.020	2.249	2.745	2.203	1.194
008 Average							
009 Average	1.767	2.480	1.719	1.844	1.657	1.713	0.921
)10 January	2.097	2.759	2.121	2.282	2.075	2.078	1.332
February	2.033	2.662	1.999	2.216	1.986	2.025	1.324
March	2.197	2.906	2.129	2.219	2.100	2.163	1.179
April	2.265	2.999	2.247	2.281	2.214	2.312	1.144
May	2.152	2.945	2.186	2.110	2.129	2.177	1.098
June	2.113	2.835	2.094	2.103	2.037	2.120	1.049
July	2.113	2.891	2.100	2.046	2.001	2.098	1.012
August	2.095	2.842	2.138	2.125	2.041	2.161	1.084
September	2.088	2.805	2.131	2.163	2.093	2.190	1.151
October	2.198	2.890	2.263	2.384	2.221	2.325	1.253
November	2.243	2.868	2.342	NA	2.308	2.392	1.277
December	2.383	3.024	2.459	2.744	2.435	2.486	1.322
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
August	2.949	3.899	3.040	3.089	2.927	3.032	1.522
September	2.896	3.878	3.025	3.073	2.927	3.035	1.557
October	2.890	3.616	2.962	3.096	2.927	3.035	1.511
November	2.805	3.494	3.089	3.258	3.050	3.157	1.498
December	2.614	3.494	2.951	3.006	2.928	2.927	1.490
Average	2.814 2.867	3.739	3.014	3.065	2.928	3.034	1.467
Average							
12 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	^R 3.883	^R 2.747	2.697	^R 2.635	2.741	0.762
July	2.806	3.877	2.850	2.936	2.776	2.906	0.810

^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 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. $\bullet\,$ 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 4.

• 2010 forward: EIA, Petroleum Marketing Monthly, October 2012, 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)
78 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
	0.765	1.005	0.540	0.589	0.562	0.560	0.492
95 Average							
96 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
997 Average	0.839	1.128	0.613	0.745	0.636	0.642	0.552
98 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
02 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
04 Average	1.435	1.819	1.207	1.160	1.173	1.243	0.839
05 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
10 January	2.240	2.914	2.129	2.986	2.369	2.192	1.913
February	2.173	2.855	2.018	2.974	2.310	2.144	2.009
March	2.301	3.103	2.144	2.978	2.425	2.265	NA
April	2.370	3.201	2.272	3.040	2.527	2.410	1.326
	2.353	3.129	2.199	2.938	2.487	2.343	1.264
June	2.251	2.981	2.105	2.965	2.393	2.284	1.204
July	2.247	3.028	2.103	NA	2.246	2.212	1.162
August	2.250	2.967	2.158	2.772	2.379	2.260	1.211
							1.283
September	2.219	2.893	2.148	2.898	2.346	2.269	
October	2.319	3.000	2.298	3.058	2.580	2.389	1.425
November	2.378	3.095	2.374	3.130	2.641	2.457	NA
December	2.514	3.218	2.484	3.276	2.749	2.554	1.863
Average	2.301	3.028	2.201	3.063	2.462	2.314	1.481
11 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
	3.172	4.027			3.294	3.214	1.620
July			3.118	3.812			
August	3.134	3.920	3.057	3.851	3.251	3.143	1.650
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
12 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
Арт Мау	3.289	4.313 W	3.100	3.741	3.258	3.163	1.080
June	^R 3.061	W	^R 2.768	3.753	^R 2.982	2.912	0.902
July	2.981	W	2.856	3.612	3.037	2.989	0.972

 ^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

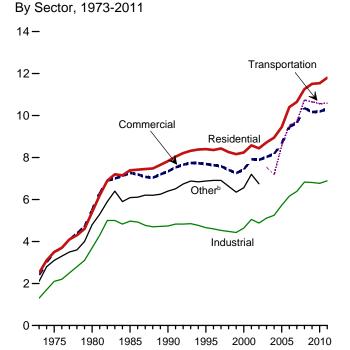
the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

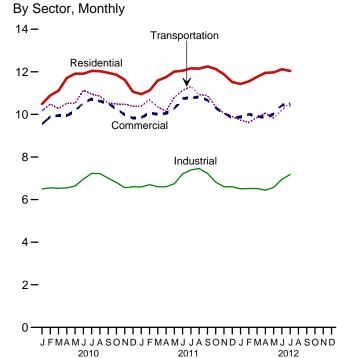
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978. Sources: • **1978-2009:** EIA, *Petroleum Marketing Annual 2009*, Table 2.

• 2010 forward: EIA, Petroleum Marketing Monthly, October 2012, Table 2.

Figure 9.2 Average Retail Prices of Electricity

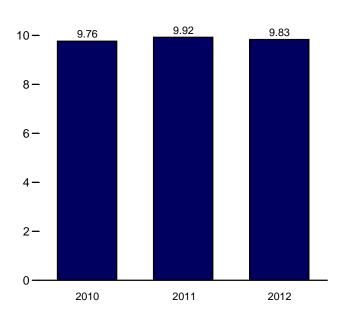
(Cents^a per Kilowatthour)





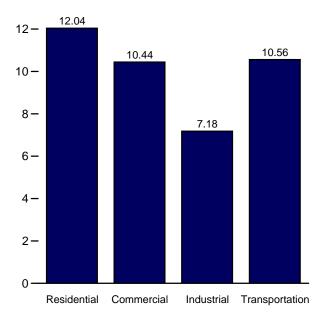
Total, January-July

12-



By Sector, July 2012

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	Commercialb	Industrialc	Transportation ^d	Other ^e	Total
73 Average	2.50	2.40	1.30	NA	2.10	2.00
075 Average	3.50	3.50	2.10	NA	3.10	2.90
	5.40	5.50	3.70	NA	4.80	4.70
80 Average	7.39	7.27	4.97	NA	6.09	6.44
85 Average						
90 Average	7.83	7.34	4.74	NA	6.40	6.57
95 Average	8.40	7.69	4.66	NA	6.88	6.89
96 Average	8.36	7.64	4.60	NA	6.91	6.86
97 Average	8.43	7.59	4.53	NA	6.91	6.85
98 Average	8.26	7.41	4.48	NA	6.63	6.74
99 Average	8.16	7.26	4.43	NA	6.35	6.64
00 Average	8.24	7.43	4.64	NA	6.56	6.81
01 Average	8.58	7.92	5.05	NA	7.20	7.29
02 Average	8.44	7.89	4.88	NA	6.75	7.20
03 Average	8.72	8.03	5.11	7.54		7.44
04 Average	8.95	8.17	5.25	7.18		7.61
05 Average	9.45	8.67	5.73	8.57		8.14
06 Average	10.40	9.46	6.16	9.54		8.90
07 Average	10.65	9.65	6.39	9.70		9.13
08 Average	11.26	10.36	6.83	10.74		9.74
09 Average	11.51	10.30	6.81	10.65		9.82
10 January	10.49	9.55	6.50	10.17		9.28
	10.45	9.89	6.55	10.48		9.47
February						
March	11.11	9.95	6.53	10.28		9.48
April	11.71	9.95	6.55	10.52		9.53
May	11.91	10.15	6.64	10.52		9.72
June	11.91	10.56	6.96	11.14		10.18
July	12.04	10.72	7.23	10.95		10.46
August	12.03	10.62	7.22	10.86		10.40
September	11.95	10.52	7.00	10.53		10.17
October	11.86	10.25	6.80	10.33		9.81
November	11.62	9.99	6.56	10.47		9.55
December	11.06	9.82	6.60	10.39		9.52
Average	11.54	10.19	6.77	10.57		9.83
11 January	10.95	9.85	6.59	10.39		9.55
February	11.12	10.07	6.70	10.69		9.64
March	11.59	10.01	6.60	10.35		9.64
April	11.75	10.05	6.60	10.14		9.64
May	12.01	10.03	6.75	10.80		9.87
		10.27		11.12		10.35
June	12.05		7.21			
July	12.16	10.77	7.39	11.32		10.57
August	12.15	10.82	7.46	10.93		10.58
September	12.25	10.67	7.23	10.88		10.39
October	12.13	10.30	6.82	10.37		9.90
November	11.88	10.06	6.60	10.04		9.67
December	11.52	9.85	6.60	9.90		9.64
Average	11.80	10.32	6.89	10.58		9.99
12 January	11.43	9.88	6.50	9.73		9.65
February	11.55	10.01	6.52	9.62		9.64
March	11.76	9.91	6.52	9.86		9.59
	11.95	9.86	6.44			9.52
April				10.05		
May	11.97	10.02	6.57	9.83		9.70
June	12.12	10.44	6.95	10.20		10.18
July	12.04	10.44	7.18	10.56		10.35
7-Month Average	11.84	10.10	6.67	9.98		9.83
11 7-Month Average	11.65	10.28	6.84	10.69		9.92
10 7-Month Average	11.41	10.14	6.72	10.58		9.76

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.
 ^a Division to the public street and highway libring interdepartmental sales, other sales to the public street and highway.

 Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways. NA=Not available. --=Not applicable.

Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods. See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values. • Geographic coverage is the 50

States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

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." • 1984-1997: EIA, Form EIA-861, "Annual Electric Utility Report." • 1998 forward: EIA, *Electric Power Monthly*, September 2012 Table 5 3.

2012, Table 5.3.

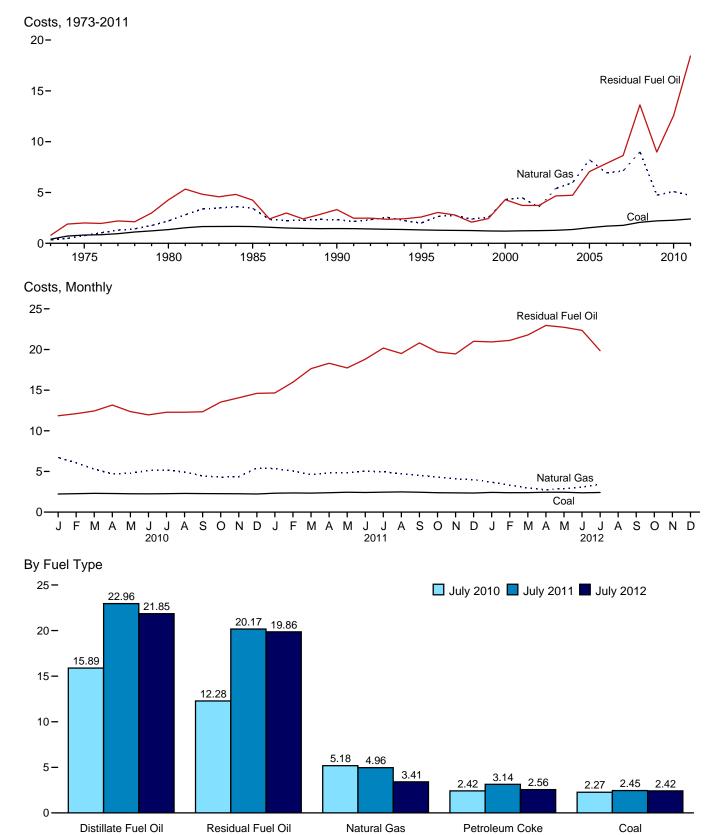


Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(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)

			Petroleum							
	Coal	Residual Fuel Oil ^b	Distillate Fuel Oilc	Petroleum Coke	Totald	Natural Gas ^e	All Fossil Fuels			
1072 Average	0.41	0.79	NA	NA	0.80	0.34	0.48			
1973 Average		2.01	NA	NA	2.02	.75	1.04			
1975 Average	.81									
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			
				.71						
1998 Average	1.25	2.08	3.30		2.02	2.38	1.44			
1999 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44			
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74			
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73			
2002 Average ^g	1.25	3.73	5.34	.78	3.34	3.56	1.86			
2003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28			
						5.96				
2004 Average	1.36	4.73	8.02	.83	4.29		2.48			
2005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25			
2006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02			
2007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23			
2008 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 January	2.23	11.85	15.73	1.72	9.72	6.71	3.74			
February	2.27	12.11	15.69	1.80	9.51	6.07	3.45			
March	2.31	12.44	16.42	2.09	8.95	5.29	3.16			
April	2.29	13.17	17.10	2.18	7.95	4.71	3.01			
May	2.26	12.36	16.54	2.22	9.47	4.79	3.12			
June	2.25	11.96	16.12	2.15	9.26	5.12	3.34			
July	2.27	12.28	15.89	2.42	9.63	5.18	3.51			
August	2.30	12.28	16.24	2.65	9.18	4.92	3.39			
September	2.28	12.34	16.53	2.67	9.35	4.45	3.10			
				2.43	9.13		2.94			
October	2.27	13.53	17.14			4.30				
November	2.26	14.06	17.43	2.22	10.86	4.35	2.94			
December	2.23	14.61	18.56	2.57	11.29	5.43	3.32			
Average	2.27	12.57	16.61	2.28	9.54	5.09	3.26			
2011 January	2.33	14.65	19.48	2.92	11.71	5.35	3.36			
February	2.36	15.98	20.93	2.67	12.08	5.06	3.26			
March	2.34	17.65	22.60	2.94	13.71	4.61	3.12			
April	2.39	18.30	24.06	2.99	13.73	4.85	3.29			
							3.38			
May	2.44	17.73	23.17	3.22	13.70	4.85				
June	2.42	18.81	22.89	2.57	13.82	5.03	3.49			
July	2.45	20.17	22.96	3.14	12.22	4.96	3.61			
August	2.48	19.51	22.48	2.95	11.68	4.72	3.44			
September	2.44	20.81	22.67	2.79	12.17	4.54	3.26			
October	2.39	19.69	23.04	2.80	13.68	4.32	3.12			
	2.35	19.46	23.33	2.18	13.27	4.08	3.03			
November										
December Average	2.35 2.40	21.01 18.43	22.31 22.41	2.29 2.80	12.76 12.88	4.00 4.71	3.00 3.29			
2012 January	2.43	20.93	22.96	2.26	13.28	3.67	2.97			
February	2.39	21.12	23.82	2.01	13.32	3.32	2.83			
March	2.40	21.79	24.91	1.86	12.83	2.96	2.72			
April	2.44	22.96	24.72	2.09	13.43	2.74	2.66			
May	2.44	22.73	23.20	2.15	14.40	2.90	2.74			
	2.38	22.35	23.20	2.15		3.08	2.74			
June					14.55					
July	2.42	19.86	21.85	2.56	14.11	3.41	2.98			
7-Month Average	2.41	21.53	23.15	2.15	13.70	3.16	2.82			
2011 7-Month Average	2.39	17.55	22.17	2.94	12.98	4.97	3.37			
2010 7-Month Average	2.27	12.21	16.11	2.10	9.30	5.39	3.34			

Gas.

^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 Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973–1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973–1989, data do not include

^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

^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. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.

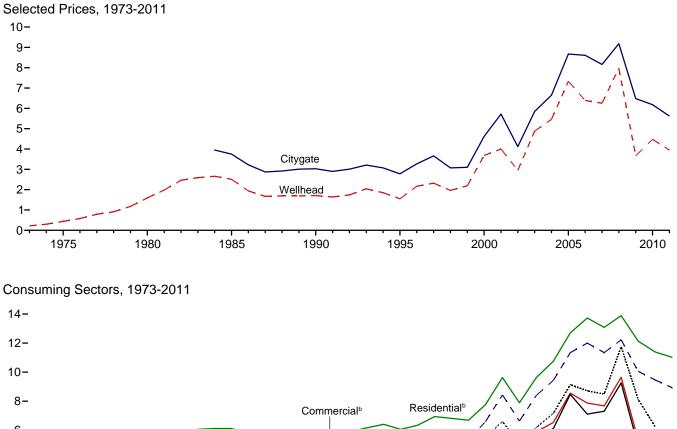
NA=Not available.
 Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • Geographic coverage is the 50

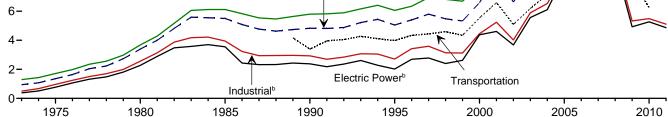
States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

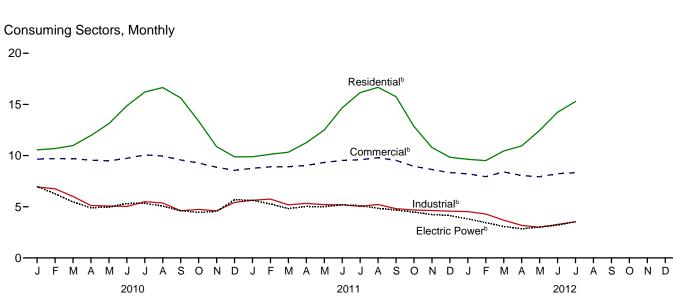
Sources: See end of section.

Figure 9.4 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)







^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	mercialc	Ind	ustriald	Transportation	Electi	ric 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 ^{g,i}
1973 Average 1975 Average 1985 Average 1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1990 Average 1997 Average 2000 Average 2001 Average 2002 Average 2003 Average 2005 Average 2006 Average 2007 Average 2008 Average 2008 Average 2009 Average	.44 1.59 2.51 1.71 1.55 2.17 2.32 1.96 2.19 3.68 4.00 2.95 4.88 5.46 7.33 6.39 6.25 7.97	NA NA 3.03 2.78 3.66 3.07 4.62 5.72 5.85 6.65 8.67 8.61 8.16 9.18 6.48	1.29 1.71 3.68 6.12 5.80 6.34 6.94 6.82 6.69 7.76 9.63 10.75 12.70 13.73 13.08 13.89 12.14	NA NA NA 99.2 99.0 98.8 97.7 95.2 92.6 92.4 97.9 97.5 97.7 98.1 98.1 98.1 98.0 97.5 97.5 97.4	0.94 1.35 3.39 5.50 5.40 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	NA NA NA 86.6 76.7 77.6 70.8 66.1 63.9 66.1 63.9 66.0 77.4 78.2 78.0 82.1 80.8 80.4 79.9 77.8	0.50 .96 3.95 2.93 2.71 3.59 3.14 4.45 5.24 4.02 5.89 6.53 8.56 7.87 7.68 9.65 5.33	NA NA 68.8 35.2 24.5 19.4 18.1 16.1 18.8 19.8 20.8 22.7 22.1 23.6 24.0 23.4 23.4 22.2 20.5 18.8	NA NA NA 3.39 3.98 4.34 4.44 4.59 4.34 5.54 6.60 5.10 6.19 7.16 9.14 8.72 8.50 11.75 8.13	0.38 .77 2.27 3.55 2.38 2.02 2.78 2.40 2.62 4.38 4.61 63.68 5.57 6.11 7.31 8.47 7.11 7.31 9.26 4.93	92.1 96.9 94.0 76.8 71.4 68.4 68.0 63.7 58.3 50.5 40.2 83.9 91.2 89.8 91.3 93.4 92.2 101.1 101.1
2010 January February April May June July August September October November December Average	5.30 4.70 4.24 4.27 4.44 4.38 3.83 4.05 4.12 4.68	6.84 6.64 6.50 5.88 5.81 6.22 5.72 5.70 5.48 5.74 6.18	10.56 10.69 10.98 11.97 13.12 14.86 16.21 16.65 15.64 13.37 10.88 9.88 11.39	97.4 97.8 96.2 97.1 96.9 96.8 96.4 96.4 96.7 96.8 97.4 97.4 97.4	9.65 9.71 9.70 9.55 9.49 9.73 10.07 9.96 9.57 9.28 8.86 8.56 9.47	81.2 81.8 79.7 75.7 73.0 71.9 70.6 69.8 68.5 71.8 77.7 80.2 77.5	6.93 6.76 6.01 5.12 5.07 5.03 5.49 5.37 4.61 4.74 4.60 5.42 5.49	19.0 18.6 18.4 17.7 17.9 18.0 18.3 17.8 17.5 16.8 17.6 17.8 18.0	NA NA NA NA NA NA NA NA NA NA 6.25	6.98 6.27 5.47 4.96 5.31 5.34 5.06 4.61 4.45 5.68 5.68 5.27	101.0 100.5 101.0 100.9 100.6 100.6 100.5 100.7 101.3 101.0 101.3 100.8
2011 January February April June July August September October November December Average	E 4.34 E 3.95 E 4.05 E 4.12 E 4.20 E 4.20 E 4.27 E 4.20 E 3.82 E 3.62 E 3.35 E 3.14	5.68 5.75 5.68 5.62 5.79 6.09 6.15 6.19 5.93 5.28 5.28 5.03 5.62	9.89 10.13 10.33 11.26 12.50 14.67 16.16 16.67 15.76 12.84 10.79 9.84 11.02	96.5 96.6 96.2 96.0 96.3 96.3 95.7 95.6 ^R 95.7 95.2 96.4 96.4	8.76 8.90 9.04 9.53 9.59 9.79 9.53 8.95 8.64 8.33 8.93	72.9 72.1 69.7 R 66.5 R 64.0 R 63.1 59.4 58.2 57.9 R 58.4 66.2 69.2 67.2	5.63 5.75 5.19 5.33 5.20 5.05 5.22 4.81 4.68 4.63 4.57 5.11	17.7 17.5 R 17.4 16.8 17.2 16.7 16.9 16.6 16.6 16.7 17.0 17.5 R 17.1	NA NA NA NA NA NA NA NA NA NA NA NA NA N	5.63 5.28 4.82 5.03 5.19 5.11 4.84 4.69 4.47 4.24 4.15 4.87	101.5 102.1 101.2 101.8 101.1 101.2 100.2 100.9 101.5 101.6 101.2 101.4 101.2
2012 January February March April June July 7-Month Average 2010 7-Month Average	E 2.46 E 2.25 E 1.89 E 1.94 E 2.54 E 2.59 E 2.37 E 4.19	4.86 4.74 4.84 4.20 4.31 4.65 4.86 4.70 5.76 6.47	9.64 9.51 10.45 10.95 12.46 14.23 15.29 10.54 10.81 11.37	96.2 96.2 95.6 95.7 95.6 95.6 95.6 96.1 96.4 97.3	8.22 7.94 8.05 7.93 8.23 8.32 8.15 8.99 9.68	70.4 R 69.2 66.9 R 63.5 R 60.7 60.4 59.0 66.2 69.0 78.5	4.52 4.30 3.69 3.18 2.99 3.27 3.53 3.67 5.35 5.84	16.9 16.9 16.2 16.6 16.5 16.9 16.7 17.3 18.3	NA NA NA NA NA NA NA NA	3.81 3.45 3.07 2.85 3.02 3.20 3.53 3.28 5.15 5.57	100.6 100.5 100.2 100.9 100.7 100.9 100.7 100.9 100.7 101.2 100.7

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 9, "Natural Gas Prices," at end of section.
 ^c Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^d Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity and heat, to the public. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.
 ^f 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 generating activities

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

R=Revised. NA=Not available. E=Estimate. Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 9, "Natural Gas Prices," at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973. Sources: See end of section.

Energy Prices

Note 1. 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 2. 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 3. 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 4. 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 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. Costs of Fossil-Fuel Receipts at Electric Generating Plants. Data for 1973–1982 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974–1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983–1990 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991–2001 cover all regulated electric generating plants at which the generator nameplate capacity of all steamelectric units and combined-cycle units together totaled 50 megawatts or greater. Data for 2002 forward cover the aforementioned regulated generating plants plus unregulated generating plants (independent power producers, as well as combined-heat-and-power generating plants and electricity-only plants in the commercial and industrial sector) whose total facility fossil-fueled nameplate generating capacity is 50 or more megawatts, regardless of unit type.

Note 9. Natural Gas Prices. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Deliveredto-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, vehicle fuel, and electric power consumers. They do not include the price of natural gas delivered on behalf of third parties to residential, commercial, industrial, and vehicle fuel customers except for certain States in the residential and commercial sectors for 2002 forward. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.3. Additional information is available in the EIA Natural Gas Monthly, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: Federal Energy Administration, based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report." 1978–2009: U.S. Energy Information Administration (EIA), *Petroleum Marketing Annual 2009*, Table 1.

2010 forward: EIA, *Petroleum Marketing Monthly*, October 2012, 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*, October 2012, 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*, October 2012, 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*, October 2012, 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*, September 2012, 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)*, September 2012, 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

1989–2009: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." 2010 forward: Estimated by EIA as the average of the three previous annual values.

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, September 2012, 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, September 2012, Table 3.

Percentage of Electric Power Sector

1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973-1988, see *Monthly Energy Review*, Table 7.3b; for 1989-2001, see *Monthly Energy Review*, Table 7.4b).

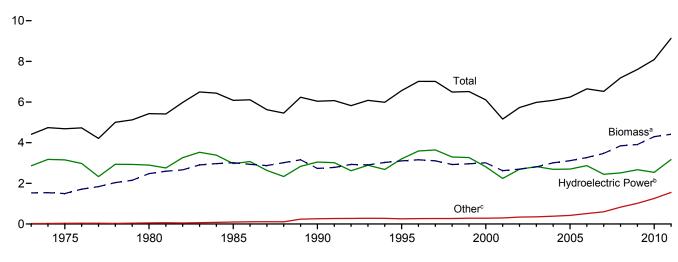
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"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

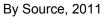
2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see *Monthly Energy Review*, Table 7.4b).

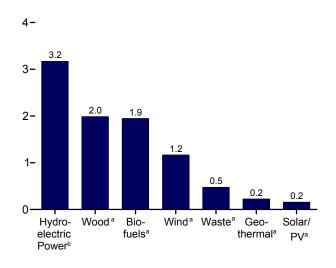
10. Renewable Energy

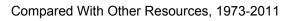
Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

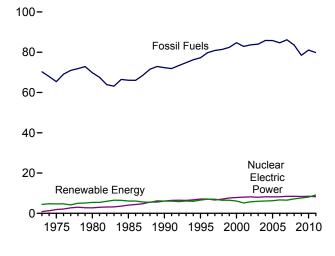
Total and Major Sources, 1973-2011



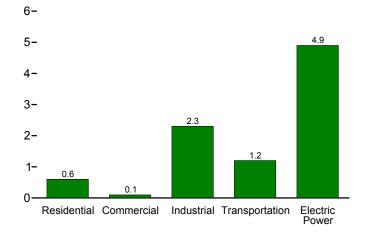




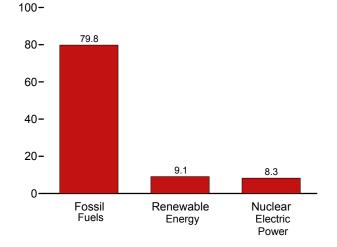




By Sector, 2011



Compared With Other Resources, 2011



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.

^c Geothermal, solar/PV, and wind.

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

		Production	a					Consumpti	on			
	Bior	nass	Total Renew-	Hydro-					Bior	nass		Total Renew-
	Bio- fuels ^b	Totalc	able Energy ^d	electric Power ^e	Geo- thermal ^f	Solar/ PV ^g	Wind ^h	Wood ⁱ	Waste ^j	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	198	3,099	6,558	3,205	152	69	33	2,370	531	200	3,101	6,560
1996 Total	141	3,155	7,012	3,590	163	70 70	33 34	2,437	577	143 184	3,157	7,014
1997 Total	186	3,108 2,929	7,018	3,640 3,297	167		34 31	2,371	551 542	201	3,105 2,927	7,016
1998 Total 1999 Total	202 211	2,929	6,494 6,517	3,297	168 171	69 68	46	2,184 2,214	542 540	201	2,927	6,493 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	2,202	364	253	2,622	5,163
2002 Total	308	2,024	5,734	2,242	171	63	105	1,995	402	303	2,022	5,729
2002 Total	402	2,805	5,982	2,825	175	62	115	2,002	401	404	2,807	5,983
2004 Total	487	2,998	6.070	2.690	178	63	142	2.121	389	499	3.010	6.082
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	2,099	397	771	3,267	6,649
2007 Total	978	3,461	6,509	2,446	186	76	341	2,070	413	991	3,474	6,523
2008 Total	1,387	3,864	7,202	2,511	192	89	546	2,040	436	1,372	3,849	7,186
2009 Total	1,584	3,928	7,616	2,669	200	98	721	1,891	453	1,568	3,912	7,600
2010 January	152	359	672	218	18	10	67	168	39	142	349	662
February	142	332	610	201	16	9	53	154	35	136	326	605
March	158	366	682	204	18	10	84	168	40	149	357	673
April	152	351	661	186	17	10	95	160	39	149	348	657
May	157	358	717	245	18	11	85	162	39	155	356	715
June	152	355	753	291	17	11	79	164	39	155	357	755
July	158	367	701	239	17	11	66	170	40	158	368	701
August	160	371	662	196	18	11	65	171	40	159	370	660 622
September	156 163	360 369	626 646	168 173	17 17	11 10	69 77	166 166	38 39	153 160	357 366	643
October November	163	369	682	173	17	10	95	165	39 40	157	363	676
December	168	383	726	226	18	10	88	174	40	163	303	720
Total	1,884	4,341	8,136	2,539	208	126	923	1,988	469	1,837	4,294	8,090
2011 January	169	382	754	255	20	12	84	174	40	153	367	738
February	151	343	716	241	18	12	103	156	36	145	336	709
March	171	377	822	310	20	13	103	166	40	160	366	811
April	163	359	820	309	18	13	121	158	38	154	350	811
May	170	370	840	323	19	14	114	160	40	164	364	834
June	168	376	829	315	19	14	106	168	40	168	375	828
July	171	383	796	308	19	14	72	171	41	162	374	787
August	174	383	745	257	19	14	72	169	41	174	383	744
September	166	371	679	210	18	13	67	165	40	160	364	672
October	176	379	710	195	19	14	104	163	40	167	370	701
November	178 186	382 403	742 778	209 241	19 19	12 13	121 102	164 175	41 42	167 176	372 393	732 768
December Total	2,044	403 4,509	9,233	3,171	226	158	1,168	1,987	477	1,948	4,413	9,137
2012 January	177	389	792	233	19	15	135	173	40	154	367	769
February	164	362	705	203	18	15	108	161	37	152	350	694
March	172	372	797	256	19	16	132	161	40	163	364	788
April	164	357	776	261	18	17	123	153	40	160	353	773
May	173	377	819	283	19	19	121	164	40	172	376	819
June	165	367	783	264	19	19	115	162	40	164	365	782
July	157	364	751	264	19	19	84	169	39	158	366	753
7-Month Total	1,171	2,588	5,424	1,765	133	120	818	1,142	275	1,125	2,541	5,377
2011 7-Month Total	1,164	2,591	5,578	2,060	132	92	703	1,152	274	1,105	2,532	5,519
2010 7-Month Total	1.071	2,489	4,795	1,584	121	73	528	1,146	271	1,045	2,462	4,768

^a Production equals consumption for all renewable energy sources except

^b Production equals consumption for all constant to a constant of the production of the production of fuel ethanol and biodiesel.
 ^c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.
 ^d Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and biomass

biomass.

biomass. ^e Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). ^f Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and direct use energy. ^g Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and solar thermal direct use energy. ^h Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). ⁱ Wood and wood-derived fuels.

^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.

INVIEWOR available. (5)=Less than 0.5 thillion Btu.
 Notes: Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," at end of section.
 Totals may not equal sum of components due to independent rounding.
 Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1973.

available data beginning in 1973. Sources: Tables 10.2a–10.4.

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

		Reside	ntial Sector					Co	mmercial	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	NA	21	21
1985 Total	NA	NA	1,010	1,010	NA	NA	NA	NA	24	NA	(s)	24 94	24
1990 Total 1995 Total	6 7	56 64	580 520	641 591		3 5	-	Ξ	66 72	28 40	(s) (s)	94 113	98 118
1996 Total	7	65	540	612	1	5	_	_	76	53	(s)	129	135
1997 Total	8	64	430	502	1	6	_	-	73	58	(s)	131	138
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 13	57 57	380 400	448 470	(s)	9 11	-	-	69 71	26 29	(s)	95 101	104 113
2003 Total 2004 Total	13	57 57	400	470		12	_	-	70	29 34	1	101	113
2004 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	89	430	552	1	17	(s)	(s)	72	36	3	112	129
2010 January	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
February	3	9	32	44	(s)	1	(s)	(s)	5	3	(s)	8	10
March	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
April	3 3	9 10	35 36	47 48	(s)	2 2	(s)	(s)	6 6	3 4	(s)	9 10	11 12
May	3	9	35	40 47	(s) (s)	2	(s) (s)	(s) (s)	6	4	(s) (s)	9	12
June July	3	10	36	47	(S)	2	(S) (S)	(s) (s)	6	3	(S) (S)	9	11
August	3	10	36	48	(S)	2	(s)	(S)	6	3	(s)	10	11
September	3	9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	11
October	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
November	3	9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	10
December	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
Total	37	114	420	571	1	19	(s)	(s)	72	36	3	111	130
2011 January	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9 9	11
February March	3 3	11 12	33 37	47 52	(s) (s)	2	(s) (s)	(s) (s)	5 6	3 3	(s) (s)	9	10 11
April	3	12	37	50	(S)	2	(s) (s)	(s) (s)	6	3	(S) (S)	9	10
May	3	12	37	52	(S)	2	(S)	(S)	6	3	(s)	9	11
June	3	12	35	50	(s)	2	(s)	(s)	õ	3	(s)	9	11
July	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
August	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
September	3	12	35	50	(s)	2	(s)	(s)	6	3	(s)	9	11
October	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
November December	3 3	12 12	35 37	50 52	(s) (s)	2 2	(s) (s)	(s) (s)	6 6	3 3	(s) (s)	9 10	11 11
Total	40	140	430	610	1	20	(s) (s)	(s) (s)	71	36	3	110	131
	3	14	36	54		2			6	3	(c)	9	11
2012 January February	3	14	36 34	54 51	(s) (s)	2	(s) (s)	(s) (s)	6	3	(s) (s)	9	10
March	3	14	36	54	(s)	2	(s)	(s)	6	3	(s)	9	11
April	3	14	35	52	(s)	2	(s)	(s)	6	3	(s)	9	11
May	3	14	36	54	(s)	2	(s)	(s)	6	3	(s)	9	11
June	3	14	35	52	(s)	2	(s)	(s)	6	6	(s)	12	14
July	3	14	36	54	(s)	2	(s)	(s)	6	3	(s) 2	9	11
7-Month Total	23	99	250	372	(s)	11	1	(s)	41	23	2	66	79
2011 7-Month Total 2010 7-Month Total	23 21	82 66	250 244	354 332	1	11 11	(s) (s)	(s) (s)	41 42	20 22	2 2	63 65	75 77

 ^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, and photovoltaic (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 electing power sectors. and electric power sectors.

and electric power sectors. ^d Wood and wood-derived fuels. ^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—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 tire-derived fuels).

The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

 Interfuel entation (timus dentating potent of model table, 1210, 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 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors (Trillion Btu)

Industrial Sector^a Transportation Sector Biomass Biomass Hydro-Losses Geo-Solar/ PV^d Fuel and Co-Fuel Bioelectric Power^b Wood^f Wasteg Ethanol^h thermalc Winde products Total Total Ethanol diesel Total 1973 Total ... 1.165 1.165 NΑ 35 NA NA NA NΑ NA NΑ 1.200 NΑ NΑ 1975 Total NA 1,063 NA 1,096 32 NA NA NA NA 1,063 NA NA NA NA 42 49 NA NA NA NA NA 1 1,633 1980 Total 33 33 NΔ 1.600 NA 1,600 NA NΔ NA NA 1,645 230 1,918 1,951 50 60 NA 50 1985 Total 1990 Total 31 1.717 23 192 1 1.684 NA 60 1995 Total 55 61 1,652 86 61 1,934 1,992 112 NA 112 195 2 1996 Total 3 _ _ 1.683 224 1.969 2.033 81 NA 81 1997 Total 1,731 1,603 184 180 2,057 1,929 102 113 NA 102 113 58 55 33 _ 80 86 1,996 _ 1998 Total 1.872 1 1,620 1,636 1,443 1,934 1,928 1,719 118 135 141 118 135 142 170 1999 Total 2000 Total 171 145 1,882 1,881 49 42 4 _ 90 99 NA 1 2 2 3 12 1 1 2001 Total 33 5 _ 129 3 108 1.681 39 2002 Total 5 1,396 146 3 4 6 7 130 1,676 1.720 168 1,363 1,476 1,452 1,726 1,853 1,873 2003 Total 43 33 32 _ 142 132 1,679 1,817 228 286 230 290 34 169 2004 Total _ 203 230 2005 Total _ 339 4 148 1.837 327 1,472 1,405 1,930 1,956 29 16 10 1,897 442 475 2006 Total _ 130 285 33 46 2007 Total 10 5 144 377 1.936 557 602 2008 Total 17 5 _ 1.340 144 12 532 2,028 2,049 786 40 42 826 2009 Total 4 155 13 617 2,016 894 935 18 1.208 1,994 60 56 2 (s) (s) (s) 109 15 13 15 185 170 81 76 81 2010 January 187 1 (s) 3 2 100 110 February 172 79 62 188 83 2 March 190 85 1 April May 87 92 (s) (s) 105 15 14 60 62 181 183 84 4 3 106 183 185 89 June (s) (s) (s) 2 2 2 60 62 63 1 107 182 183 90 93 13 14 14 13 2 3 3 4 188 190 190 191 94 94 111 91 91 July August 111 61 64 65 67 **742** September (s) 110 185 187 86 90 1 2 1 October November (s) (s) (s) (s) 15 15 110 190 192 91 3 3 3 94 1 ____ 190 198 108 191 88 91 199 114 December 15 2 17 92 Total 1.040 34 16 1,301 169 2,230 2,250 1,074 2011 January 1 115 15 14 1 66 59 197 199 82 3 4 86 (s) February 102 176 178 80 84 March 2 109 14 14 14 14 14 14 65 62 64 63 64 65 62 190 192 87 93 (s) (s) (s) (s) (s) (s) (s) (s) 1 6 8 8 182 90 April 105 184 82 90 Mav 2 2 105 185 187 98 June 112 191 192 92 10 102 (s) (s) (s) 112 110 July (s) (s) (s) (s) (s) (s) 4 1 192 193 86 10 12 13 11 13 96 (s) (s) (s) (s) (s) 191 187 95 83 107 96 August 2 192 188 September 109 October November 107 110 188 192 190 194 100 99 (s) (s) 15 15 65 66 89 1 86 December (s) (s) (s) (s) 116 15 69 771 202 204 91 14 105 2 Total 172 17 2,272 2,294 1,044 113 1,157 18 1,311 2 2012 January (s) (s) (s) (s) 114 15 1 67 197 199 81 86 (s) (s) (s) (s) (s) (s) 14 14 61 8 February 2 (s) 106 183 185 82 89 March 2 (s) 104 64 184 186 87 10 98 (s) (s) (s) 101 14 14 14 61 178 11 14 11 April 2 (s) (s) 180 86 98 1 108 106 188 183 190 185 107 101 May 2 2 64 61 93 90 June 110 751 (s) 2 (s) (s) 14 58 184 88 10 98 (s) 1 186 7-Month Total 436 676 11 100 10 1,297 1,311 607 69 2011 7-Month Total 11 2 (s) (s) (s) 759 99 10 444 1,312 1,326 600 50 650 2010 7-Month Total 11 2 748 98 10 422 1.277 1.290 593 18 611

^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 oreater

Megawatt or greater. ^e Wind electricity net generation (converted to Btu using the fossil-fuels heat

–see Table A6). rate-

Wood and wood-derived fuels.

9 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).

^h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

^{III} The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the industrial sector.
 ^{III} 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.
 ^{III} The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector.
 NA=Not available.

 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)

Power ³ thermal ^b Solar/PVC Wind ⁴ Wood ^a Waste/ Total Total 1973 Total 2,827 20 NA NA 1 2 3 2,857 1973 Total 2,267 53 NA NA NA 1 2 2 3,149 1980 Total 2,467 53 NA NA NA 1 2 2 3,149 1995 Total 3,149 138 5 33 138 300 438 4,15 1995 Total 3,581 150 5 3,4 137 309 4,46 4,21 1997 Total 3,581 150 5 3,4 137 309 4,46 3,37 1997 Total 2,260 147 6 106 150 230 380 3,28 1000 Total 2,600 147 6 176 128 211 3,36 1000 Total 2,630 145 5		Hydro- electric	Geo-				Biomass		
975 Total 3,122 34 NA NA NA (a) 2 2 2 3,15 980 Total 2,837 97 (s) (s) (s) 13 2 4 2,22 3,15 980 Total 3,144 163 4 33 12 3,24 3,24 980 Total 3,528 148 5 33 138 300 4,38 4,45 996 Total 3,241 151 5 34 137 309 4,46 4,21 998 Total 3,241 151 5 34 137 309 4,44 3,87 998 Total 3,241 151 5 31 137 309 4,44 3,87 3,87 3,44 001 Total 2,2650 147 6 105 150 230 387 3,44 002 Total 2,676 147 6 174 165 223 388 3,44 003 Total 2,676 147 6 176 130 3,63 3,63				Solar/PV ^c	Wind ^d	Wood ^e	Waste ^f	Total	Total
75 Total 2,122 34 NA NA NA 3 2 4 2,28 86 Total 2,437 97 (s) (s) 8 7 14 3,424 86 Total 2,437 97 (s) (s) 8 7 14 3,424 86 Total 3,153 130 5 33 132 300 443 3,153 96 Total 3,241 151 5 34 137 308 444 3,471 98 Total 3,241 151 5 34 137 308 444 3,877 99 Total 3,241 151 5 5 7 134 318 453 3,472 00 Total 2,469 142 6 105 167 231 339 3,48 00 Total 2,459 144 6 165 223 388 3,442 02 Total 2,656 146 6 142 165 223 388 3,442 06 Total 2,650 146 <td>73 Total</td> <td>2.827</td> <td>20</td> <td>NA</td> <td>NA</td> <td>1</td> <td>2</td> <td>3</td> <td>2.851</td>	73 Total	2.827	20	NA	NA	1	2	3	2.851
B80 Total 2 2667 53 NA NA NA S 2 4 2292 980 Total 2.337 97 (5) (5) 8 7 14 3.44 980 Total 3.444 161 4 29 129 168 317 3.52 980 Total 3.361 160 5 34 137 309 446 4.21 987 Total 3.361 152 5 46 133 137 308 444 3.47 999 Total 3.216 152 5 46 138 315 453 3.47 000 Total 2.766 144 5 71 134 318 453 3.24 000 Total 2.666 148 6 142 165 221 306 3.44 004 Total 2.666 148 6 142 165 221 406 3.44 004 Total 2.665 148	975 Total								3,158
2937 97 (a) (b) 8 7 14 34 985 Total 3,149 138 5 33 129 188 317 352 985 Total 3,149 138 5 33 125 296 422 374 985 Total 3,241 150 5 33 1137 300 444 437 998 Total 3,241 151 5 34 1137 300 444 437 998 Total 3,241 151 5 5 46 138 315 453 347 900 Total 2,768 144 5 57 134 316 453 3,44 007 Total 2,650 147 6 105 150 230 380 3,44 037 Total 2,670 147 6 176 186 231 412 3,66 007 Total 2,430 145 6 341 186 231 412 3,66 007 Total 2,430 146 9 <td>80 Total</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	80 Total								
990 Total 3,014 161 4 29 128 138 317 326 980 Total 3,228 148 5 33 125 296 422 3,747 960 Total 3,528 148 5 33 138 300 448 4,171 960 Total 3,241 150 5 34 1377 309 446 4,271 960 Total 2,768 144 5 577 134 318 443 3,472 000 Total 2,269 142 6 700 126 211 337 2,763 000 Total 2,650 147 6 105 150 230 380 3,288 020 Total 2,656 148 6 142 165 223 388 3,44 03 Total 2,650 146 9 721 180 261 441 3,66 10 January 217 13 (s) 67 17 21 39 33 10 January 217 13 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
995 Total 3,149 138 5 33 125 296 442 37 996 Total 3,581 150 5 34 137 309 446 421 997 Total 3,241 151 5 31 137 309 446 421 997 Total 2,276 142 5 46 138 315 453 3,77 100 Total 2,769 142 6 105 156 230 397 3,44 100 Total 2,761 146 5 115 167 230 397 3,44 104 Total 2,656 148 6 142 165 223 388 3,44 04 Total 2,430 145 5 344 186 237 423 3,44 04 Total 2,430 145 6 341 186 237 423 3,44 06 Total 2,430 13 1 6									
996 Total 3,528 148 5 33 138 300 438 416 98 Total 3,241 150 5 34 137 309 446 4,21 98 Total 3,241 151 5 31 137 309 446 4,21 98 Total 2,768 144 5 57 134 318 457 3,24 00 Total 2,768 144 5 57 134 318 457 3,28 03 Total 2,761 146 6 142 165 230 397 3,44 04 Total 2,656 147 6 176 185 221 446 3,44 05 Total 2,670 147 6 176 185 221 446 3,44 06 Total 2,480 146 9 721 180 231 412 3,64 06 Total 2,480 146 9 721 19 333 34 394 34 394 34 344 344				7					
97 Total 3,581 150 5 34 137 309 446 4,217 99 Total 3,241 151 5 31 137 308 444 347 99 Total 2,218 152 5 46 138 315 453 3,47 00 Total 2,768 144 5 57 134 318 453 3,42 01 Total 2,2781 148 6 115 167 220 337 3,44 04 Total 2,656 148 6 142 165 223 388 3,44 06 Total 2,650 146 6 142 185 221 440 3,64 06 Total 2,430 145 6 341 186 237 423 3,34 06 Total 2,494 146 9 546 177 258 435 3,53 10 January 217 13 (6) 67 17 21 39 33 140 120 16 20									
989 Total 3,241 151 5 31 17 308 444 3,377 900 Total 2,768 144 5 57 134 318 453 3,477 000 Total 2,768 144 5 57 134 318 453 3,44 000 Total 2,650 147 6 105 160 230 380 3,244 002 Total 2,650 147 6 105 160 230 380 3,244 003 Total 2,670 147 6 115 166 231 366 3,44 006 Total 2,639 145 5 264 182 231 442 3,64 006 Total 2,430 146 6 344 186 237 423 3,44 006 Total 2,494 146 9 721 180 261 441 3,66 007 Total 2,650 146 9 721 180 261 441 3,66 104 anuary 217				2					
999 Total 3,218 152 5 46 138 315 453 3,372 00 Total 2,768 144 5 57 134 318 453 3,322 00 Total 2,650 147 6 105 150 230 380 3,288 00 Total 2,650 147 6 105 115 167 230 397 3,44 00 Total 2,650 147 6 178 185 221 406 3,00 00 Total 2,650 147 6 178 185 221 406 3,00 00 Total 2,650 146 9 546 177 213 393 33 00 Total 2,650 146 9 721 180 261 441 396 100 January 217 13 (s) 53 16 20 36 300 March 202 13 1 85 15 21 36 32 39 32 May <	97 Total								
D00 Total 2.768 144 5 57 134 318 453 3.42 D00 Total 2.209 142 6 70 126 211 337 2.76 D00 Total 2.781 148 6 105 150 230 380 3.28 D00 Total 2.656 148 6 142 165 223 388 3.34 D06 Total 2.670 147 6 178 185 221 406 3.04 D06 Total 2.439 145 5 2.64 182 231 412 3.63 D06 Total 2.430 145 6 3.44 3.63 3.63 D07 Total 2.433 145 6 3.41 166 237 423 3.34 D08 Total 2.650 146 22 39 333 3.63 D0 Total 2.650 146 22 39 332 333 3.63									
bit Total 2.209 142 6 70 126 211 337 2.76 02 Total 2.650 147 6 105 150 230 380 3.84 03 Total 2.670 147 6 178 185 221 406 3.44 06 Total 2.670 147 6 178 185 221 406 3.44 06 Total 2.439 145 5 364 185 221 406 3.44 06 Total 2.430 145 6 341 186 237 423 3.34 06 Total 2.430 146 9 721 100 261 441 3.66 06 Total 2.494 146 9 721 100 261 441 3.66 10 January 217 13 (e) 67 17 21 39 33 Aginal 148 12 1 95 15 21 36 37 June 290 12 2 <									
Dig Total 2.650 147 6 105 150 230 380 3.288 D03 Total 2.781 148 6 142 165 230 397 344 D04 Total 2.656 148 6 142 165 223 388 3.34 D05 Total 2.670 147 6 176 185 221 406 3.04 D06 Total 2.430 145 5 2.64 182 231 412 3.66 D07 Total 2.443 146 9 5.46 177 2.58 433 3.63 D08 Total 2.494 146 9 5.46 177 2.58 435 3.63 D08 Total 2.650 147 2.43 3.31 1.85 14 2.2 36 3.33 Mol 2.02 2.79 1.6 2.3 39 42 Jule 2.38 1.2 2.65 18 2									
100 Total 2,781 148 5 115 167 230 397 3,44 005 Total 2,670 147 6 178 185 221 406 3,40 005 Total 2,670 147 6 178 185 221 406 3,40 005 Total 2,430 145 6 341 186 237 423 3,34 005 Total 2,494 146 9 546 177 258 435 3,63 005 Total 2,650 146 9 721 180 261 441 3,66 10 January 217 13 (s) 67 17 21 39 33 March 202 13 1 84 16 22 39 30 June 280 12 2 78 16 23 44 36 June 290 12 2 78 16 23 39 33 33 33 33 33 33 33 33<	001 Total	2,209	142			126	211	337	2,763
103 Total 2,781 148 5 115 167 230 397 3,44 005 Total 2,670 147 6 178 185 221 406 3,40 005 Total 2,839 145 5 264 182 231 412 3,66 007 Total 2,430 145 6 341 186 237 423 3,44 006 Total 2,494 146 9 546 177 218 423 3,63 009 Total 2,650 146 9 721 180 261 441 3,66 10 January 217 13 (s) 53 16 20 35 300 March 202 13 1 84 16 22 39 33 40 435 June 288 12 2 66 17 23 40 435 June 288 12 1 69 16 23 39 333 October 171 12	02 Total	2,650	147	6	105	150	230	380	3,288
040 Total 2,656 148 6 142 165 223 388 3,34 066 Total 2,839 145 5 264 182 231 412 3,66 070 Total 2,430 145 6 341 186 237 423 3,44 080 Total 2,460 146 9 546 177 258 435 3,53 090 Total 2,650 146 9 546 177 21 39 33 090 Total 2,650 146 9 546 177 21 39 33 090 Total 2,650 148 16 22 39 33 April 184 12 1 95 15 21 36 32 Mav 243 13 1 85 14 22 36 37 July 238 12 2 66 17 23 40 35 August 195 13 2 66 17 23 40 <td></td> <td>2.781</td> <td>148</td> <td>5</td> <td>115</td> <td>167</td> <td>230</td> <td>397</td> <td>3,445</td>		2.781	148	5	115	167	230	397	3,445
05 Total 2,670 147 6 178 185 221 406 5,366 06 Total 2,839 145 5 264 182 231 412 3,666 07 Total 2,430 145 6 341 186 237 423 3,34 09 Total 2,650 146 9 721 180 261 441 3,96 10 January 217 13 (5) 67 17 21 39 33 16 Arch 202 13 1 84 16 22 39 33 April 184 12 2 79 16 23 39 42 June 280 12 2 65 16 22 49 31 September 168 13 2 65 16 22 39 33 Docember 225 13 (9) 84 16 21		2.656	148	6	142	165	223	388	3,340
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111 7-Month Total 2,048 95 10 703 102 155 257 3,114									
	/-Month Total	1,754	96	20	817	100	152	252	2,939
010 7-Month Total 1,573 86 7 528 113 152 265 2,459									3,114 2,459

^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

Geothermal electricity her generation (converted to Btu using the rossil-ituels 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).
 ^e Wood and wood-derived fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, arrival using hyperbolic terms of the source biogenic sources.

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

tire-derived fuels). ^g 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/#renewable for all available data bacinging in 1073

available data beginning in 1973. Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

	Feed-	Losses and Co-	Dena- turant ^c		roductiond		Trade ^d	Stocks ^{d,f}	Stock Change ^{d,g}	64		Ч	Consump- tion Minus
	stock ^a TBtu	products ^b TBtu	Mbbl	Mbbl	MMgal	TBtu	Imports ^e Mbbl	Mbbl	Mbbl	Mbbl	nsumption	TBtu	Denaturant ^h TBtu
	I DIU	I Blu	IUDUI	Iddivi	wwgai	тыц		Iddivi	IDDI	Iddivi	MMgal	I Blu	I DIU
1981 Total	13	6	40	1,978	83	7	NA	NA	NA	1,978	83	7	7
1985 Total 1990 Total	93 111	42 49	294 356	14,693 17,802	617 748	52 63	NA NA	NA NA	NA NA	14,693 17,802	617 748	52 63	51 62
1995 Total	198	86	647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
1996 Total	141	61	464	23,178	973	83	313	2,065	-121	23,612	992	84	82
1997 Total	186	80	613	30,674	1,288	109	85	2,925	860	29,899	1,256	107	104
1998 Total 1999 Total	202 211	86 90	669 698	33,453 34,881	1,405 1,465	119 124	66 87	3,406 4,024	481 618	33,038 34,350	1,388 1,443	118 122	115 119
2000 Total	233	99	773	38,627	1.622	138	116	3.400	-624	39.367	1,445	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 2004 Total	400 484	169 203	1,335 1,621	66,772 81,058	2,804 3,404	238 289	292 3,542	5,978 6,002	-222 24	67,286 84,576	2,826 3,552	240 301	233 293
2005 Total	552	230	1,859	92,961	3,904	331	3,234	5,563	-439	96,634	4,059	344	335
2006 Total	688	285	2,326	116,294	4,884	414	17,408	8,760	3,197	130,505	5,481	465	453
2007 Total	914	376	3,105	155,263	6,521	553	10,457	10,535	1,775	163,945	6,886	584	569
2008 Total 2009 Total	1,300 1,517	531 616	4,433 5,688	221,637 260,424	9,309 10,938	790 928	12,610 4,720	14,226 16,594	3,691 2,368	230,556 262,776	9,683 11,037	821 936	800 910
2010 January	149	60	541	25,625	1,076	91	-234	18,251	1,657	23,734	997	85	82
February	138	56	496	23,802	1,000	85	-482	19,297	1,046	22,274	936	79	77
March	154	62	537	26,486	1,112	94	-1,104	20,222	925	24,457	1,027	87	85
April	147	59 61	522 534	25,384 26,244	1,066 1,102	90 93	-927 -368	20,042 19,851	-180 -191	24,637 26,067	1,035 1,095	88 93	85 90
May June	152 149	60	522	25,632	1,102	93	-300	18,565	-1,286	26,007	1,095	93	90
July	154	62	543	26,584	1,117	95	-578	17,809	-756	26,762	1,124	95	93
August	157	63	538	26,964	1,132	96	-695	17,380	-429	26,698	1,121	95	93
September	152 160	61 64	533 563	26,221 27,471	1,101 1,154	93 98	-924 -830	17,437	57 -159	25,240 26,800	1,060 1,126	90 95	88 93
November	160	65	585	27,471	1,154	98	-923	18,150	872	25,952	1,120	93	90
December	165	67	592	28,457	1,195	101	-1,711	17,941	-209	26,955	1,132	96	93
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	165 146	66 59	581 535	28,467 25,300	1,196 1.063	101 90	-1,359 -1,425	20,826 21,016	2,885 190	24,223 23.685	1,017 995	86 84	84 82
February March	140	59 65	535 548	25,300	1,063	100	-1,425	21,018	577	25,598	1,075	04 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	158 159	63 64	540 555	27,224 27,541	1,143 1,157	97 98	-1,533 -2,731	19,217 18,788	-1,392 -429	27,083 25,239	1,137 1,060	96 90	94 88
July August	162	64 65	555 575	27,541	1,157	98 100	-2,731	18,788	-429 -665	25,239 27,976	1,060	100	97
September	154	62	525	26,588	1,117	95	-1,745	18,465	342	24,501	1,029	87	85
October	162	65	557	28,013	1,177	100	-2,388	18,038	-427	26,052	1,094	93	90
November December	164 172	66 69	573 602	28,383 29,718	1,192 1,248	101 106	-2,911 -2,997	18,308 18,238	270 -70	25,202 26,791	1,058 1,125	90 95	87 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	160 152	64 61	522 494	27,706 26,368	1,164 1,107	99 94	-1,626 -1,549	22,952 22,370	380 -582	25,700 25,401	1,079 1,067	91 90	89 88
April May	160	64	494 520	20,300	1,107	94 99	-1,549	22,370	-502 -519	25,401 27,224	1,143	90 97	95
June	154	61	503	26,611	1,118	95	-613	21,456	-395	26,393	1,109	94	92
July 7-Month Total	146 1,092	58 435	504 3,654	25,329 189,448	1,064 7,957	90 674	-502 -8,877	20,373 20,373	-1,083 2,112	25,910 178,459	1,088 7,495	92 635	90 619
2011 7-Month Total	1,092	435	3,817	190,968	8,021	680	-13,659	18,788	847	176,462	7,495	628	612
2010 7-Month Total	1,105	443	3,695	179,757	7,550	640	-13,659	17,809	1,215	176,462	7,411	620	605

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 an increase.

^h Consumption of fuel ethanol minus denaturant. Data for fuel ethanol minus denaturant are used to develop data for "Renewable Energy/Biomass" in Tables 10.1–10.2b, as well as in Sections 1 and 2.

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.

							Trade				Del			
	Feed- stock ^a	Losses and Co- products ^b	P	roduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	nsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total	1	(s)	204	9	1	78	39	39	NA	NA	NA	243	10	
2002 Total	1	(s)	250	10	1	191	56	135	NA	NA	NA	385	16	2
2003 Total	2	(s)	338	14	2	94	110	-16	NA	NA	NA	322	14	-
2004 Total	4	(s)	666	28	4	97	124	-26	NA	NA	NA	640	27	3
2005 Total	12	(s)	2.162	91	12	207	206	1	NA	NA	NA	2.163	91	12
2006 Total	32	(s)	5,963	250	32	1,069	828	242	NA	NA	NA	6,204	261	33
2007 Total	63	<u>`1</u>	11,662	490	62	3,342	6,477	-3,135	NA	NA	NA	8,528	358	46
2008 Total	88	1	16,145	678	87	7,502	16,128	-8,626	NA	NA	NA	7,519	316	40
2009 Total	67	1	12,281	516	66	1,844	6,332	-4,489	711	711	669	7,750	326	42
2010 January	3	(s)	633	27	3	41	296	-256	1,049	338	0	40	2	(s)
February	4	(s)	696	29	4	31	139	-108	1,039	-10	0	599	25	3
March	4	(s)	804	34	4	60	433	-374	1,057	18	0	412	17	2
April	4	(s)	814	34	4	45	227	-182	1,009	-48	0	680	29	4
May	4	(s)	760	32	4	80	251	-171	1,016	7	0	582	24	3
June	4	(s)	644	27	3	54 32	304	-249	968	-48	0	443	19	2
July	4	(s)	657 653	28 27	4 3	52 52	199 225	-167 -173	830	-138 -59	0	628 539	26 23	3
August	4	(s)	723	30	3 4	52 69	131	-173	771 682	-59 -89	0	749	23 31	3
September	4	(s)	676	28	4	18	131	-62 -114	650	-69 -32	0	594	25	4
October November	4	(s) (s)	528	20 22	4	30	57	-114	676	-32	0	475	25 20	3
December	3	(s) (s)	588	22	3	34	109	-27	672	-4	0	517	20	3
Total	44	(3)	8,177	343	44	546	2,503	-1,958	672	-39	Ŏ	6,258	263	34
2011 January	5	(s)	842	35	5	49	217	-169	1,016	^g 39	0	634	27	3
February	5	(s)	961	40	5	37	88	-51	1,217	201	0	709	30	4
March	8	(s)	1,419	60	8	53	197	-144	1,381	164	0	1,111	47	e
April	9	(s)	1,692	71	9	52	222	-169	1,408	27	0	1,495	63	8
May	10	(s)	1,838	77	10	48	192	-144	1,576	168	0	1,526	64	8
June	11	(s)	1,938	81	10	48	117	-69	1,524	-53	0	1,922	81	10
July	12	(s)	2,183	92	12	62	142	-80	1,748	224	0	1,879	79	10
August	12	(s)	2,273	95	12	65	71	-7	1,834	86 R 010	0	2,181	92 ^R 100	12
September	12	(s)	2,284	96	12	65 82	193	-127 -49	1,617	^R -216	0	R 2,373		13
October	14 14	(s)	2,508 2,494	105 105	13 13	82 66	132 131	-49 -65	1,965 1,877	347 ^R -88		2,111 ^R 2,517	89 106	11 13
November December	14	(s) (s)	2,494	105	13	234	39	-65 195	2.012	135	0	2.664	106	14
Total	125	(S) 2	2 ,004 23,035	967	123	861	1,740	-879		^{g,R} 1,035	Ő	R 21,122	887	113
2012 January	9	(s)	1,700	71	9	44	248	-204	2,527	^h 625	0	872	37	5
February	10	(s)	1,837	77	10	58	119	-62	2,869	342	0	1,433	60	ε
March	12	(s)	2,193	92	12	55	149	-93	3,053	184	0	1,915	80	10
April	12	(s)	2,180	92	12	49	221	-171	2,932	-121	0	2,130	89	11
May	13	(s)	2,373	100	13	94	306	-212	2,514	-418	0	2,579	108	14
June	12	(s)	2,162	91	12	102	375	-273	2,363	-151	0	2,039	86	11
July	11	(s)	2,065	87	11	160	408	-248	2,253	-110	0	1,927	81	10
7-Month Total	79	1	14,510	609	78	563	1,826	-1,263	2,253	351	0	12,896	542	69
2011 7-Month Total 2010 7-Month Total	59 27	1 (s)	10,872 5,009	457 210	58 27	349 343	1,174 1,849	-825 -1,507	1,748 830	771 119	0	9,276 3,384	390 142	50 18

Table 10.4 **Biodiesel Overview**

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

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 <u>increase</u> is used to belance biodiesel supply and disposition. sources, "Balancing Item" is used to balance biodiesel supply and disposition. ^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." ⁿ 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."

R=Revised. 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 But. • Biolose data in indusand barrels are converted to finlinon galors by multiplying by 0.042, and are converted to Bt by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A3). • Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the S0 Store and the Diricit of Columbia. 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 estimate for the current year is set equal to that of the previous year.)

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 month. (The annual estimate for 2012 is derived using the average annual growth rate for 2009–2011.)

Residential Sector, Wood

1973–1979: EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*, Table A2.

1980 forward: EIA, Form EIA-457, "Residential Energy Consumption Survey"; and EIA estimates based on Form EIA-457 and regional heating degree-day data. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Hydroelectric Power

1989 forward: Commercial sector conventional hydroelectricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, are converted to Btu by multiplying by the fossil-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 estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Solar/PV

2008 forward: Commercial sector solar thermal and photovoltaic (PV) electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-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 estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant) EIA, MER, Tables 3.5, 3.7a, and 10.3. Calculated as commercial sector motor gasoline consumption (Table 3.7a) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

Industrial sector conventional hydroelectricity net generation data from Table 7.2c are converted to Btu by multiplying by the fossil-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 estimate for the current year is set equal to that of the previous year.)

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 estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Biomass Waste

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1982 and 1983: EIA estimates for total waste consumption based on *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1988: Value interpolated.

1989 forward: EIA, MER, Table 7.4c; and EIA estimates based on information presented in Government Advisory Associates, *Resource Recovery Yearbook* and *Methane Recovery Yearbook*, and information provided by the U.S. Environmental Protection Agency, Landfill Methane Outreach Program. Data for waste consumption at industrial CHP plants are from MER, Table 7.4c. Annual estimates for waste consumption at other industrial plants are based on the non-EIA sources listed above (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7b, and 10.3. Calculated as industrial sector motor gasoline consumption (Table 3.7b) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Industrial Sector, Losses and Co-products

Calculated as fuel ethanol losses and co-products (Table 10.3) plus biodiesel losses and co-products (Table 10.4).

Transportation Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7c, and 10.3. Calculated as transportation sector motor gasoline consumption (Table 3.7c) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Transportation Sector, Biodiesel

EIA, MER, Table 10.4. Transportation sector biodiesel consumption is assumed to equal total biodiesel consumption.

Table 10.3 Sources

Feedstock

Calculated as fuel ethanol production (in thousand barrels) minus denaturant, and then multiplied by the fuel ethanol feedstock factor—see Table A3.

Losses and Co-products

Calculated as fuel ethanol feedstock plus denaturant minus fuel ethanol production.

Denaturant

1981–2008: Data in thousand barrels for petroleum denaturant in fuel ethanol produced are estimated as 2 percent of fuel ethanol production; these data are converted to Btu by multiplying by 4.645 million Btu per barrel (the estimated quantity-weighted factor of pentanes plus and conventional motor gasoline used as denaturant).

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

Trade, Stocks, and Stock Change

1992–2010: EIA, PSA, annual reports, Table 1.

2011 and 2012: 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: 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

For imports, U.S. Department of Agriculture, data for the Harmonized Tariff following Schedule codes: 3824.90.40.20, "Fatty Esters Animal/Vegetable Mixture" (data through June 2010); 3824.90.40.30, "Biodiesel/Mixes" (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.

Stocks and Stock Change

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

2012: EIA, *Petroleum Supply Monthly*, 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.

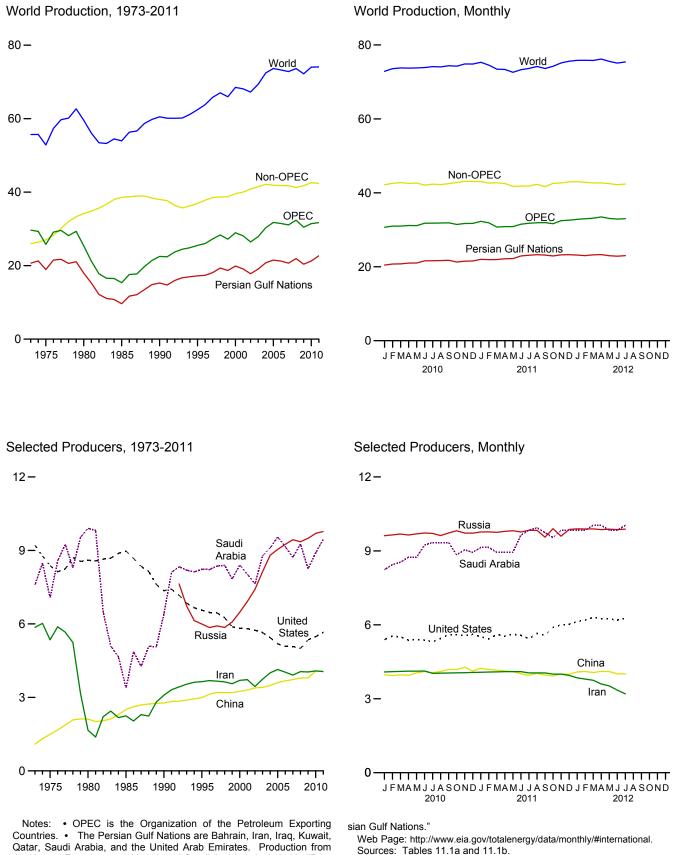
January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

March 2009 forward: Calculated as biodiesel production plus biodiesel net imports minus biodiesel stock change.

11. International Petroleum

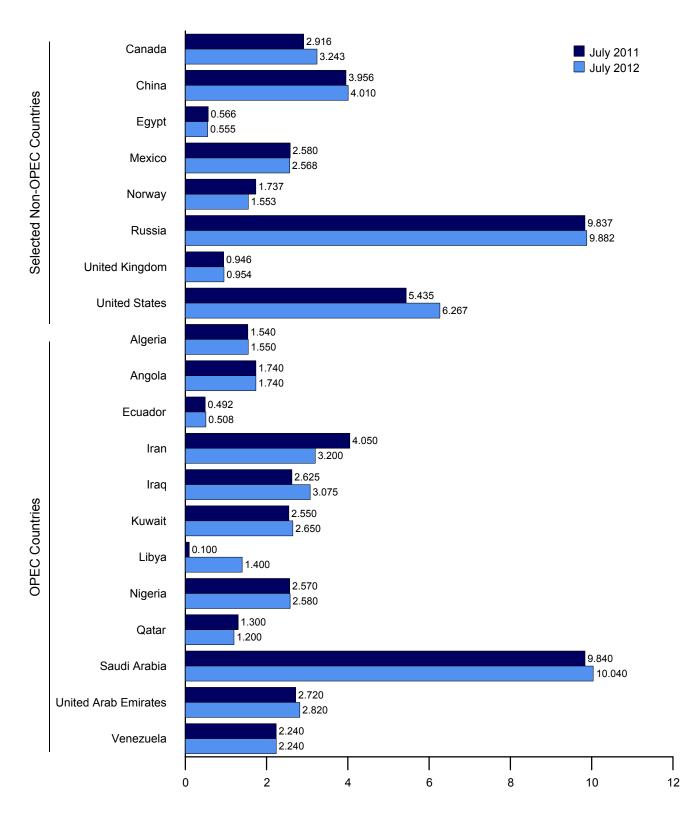
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



the Neutral Zone between Kuwait and Saudi Arabia is included in "Per-

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)

									_	Saudi	United Arab	Vene-	Total
	Algeria	Angola	Ecuador	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Arabia ^a	Emirates	zuela	OPECb
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 1,180	231 475	281 285	2,250 3,088	1,433 2,040	1,023 1,175	1,059 1,375	1,495 1,810	301 406	3,388 6,410	1,193 2,117	1,677 2,137	15,367 22,498
1990 Average 1995 Average	1,160	646	392	3,643	2,040	2,057	1,375	1,993	400	8,231	2,117	2,137	25,500
1996 Average	1,227	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,233	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	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,940
2001 Average	1,265	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,114
2002 Average	1,349	896	393	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,435
2003 Average	1,516	903	411	3,743	1,308	2,136	1,421	2,275	715 783	8,775	2,348	2,335	27,885
2004 Average	1,582 1,692	1,052 1,250	528 532	4,001 4,139	2,011 1,878	2,376 2,529	1,515 1,633	2,329 2,627	783 835	9,101 9,550	2,478 2,535	2,557 2,565	30,313 31,766
2005 Average	1,692	1,250	536	4,139	1,878	2,529	1,633	2,627	850	9,550	2,535 2,636	2,565	31,476
2007 Average	1,708	1,744	511	3,912	2,086	2,464	1,702	2,350	851	8,722	2,603	2,433	31,085
2008 Average	1,705	1,981	505	4,050	2,375	2,586	1,736	2,165	924	9,261	2,681	2,394	32,363
2009 Average	1,585	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	2,239	30,442
2010 January	1,540	2,040	464	4,088	2,475	2,250	1,650	2,480	969	8,240	2,414	2,090	30,699
February	1,540	2,060	470	4,100	2,475	2,250	1,650	2,420	1,036	8,440	2,414	2,140	30,995
March	1,540	2,070	478	4,112	2,375	2,250	1,650	2,430	1,055	8,540	2,414	2,090	31,004
April	1,540 1,540	2,070 2,030	480 478	4,120 4,120	2,375 2,375	2,250 2,250	1,650 1,650	2,360 2,310	1,072 1,091	8,740 8,740	2,414 2,415	2,110 2,140	31,181 31,138
May June	1,540	1,980	491	4,120	2,375	2,250	1,650	2,310	1,113	9,240	2,415	2,140	31,780
July	1,540	1,970	492	4,033	2,325	2,350	1,650	2,410	1,136	9,340	2.415	2,140	31,801
August	1,540	1,890	485	4,040	2,325	2,350	1,650	2,510	1,164	9,340	2,415	2,140	31,849
September	1,540	1,790	490	4,047	2,375	2,350	1,650	2,550	1,193	9,340	2,415	2,140	31,880
October	1,540	1,790	497	4,053	2,375	2,350	1,650	2,580	1,216	8,840	2,415	2,140	31,446
November	1,540	1,790	508	4,060	2,375	2,350	1,650	2,510	1,235	9,040	2,415	2,240	31,713
December	1,540	1,790	499	4,068	2,525	2,350	1,650	2,490	1,235	8,940	2,415	2,240	31,742
Average	1,540	1,939	486	4,080	2,399	2,300	1,650	2,455	1,127	8,900	2,415	2,146	31,437
2011 January	1,540 1,540	1,790	500 509	4,076 4,084	2,625 2,525	2,350	1,650	2,580 2,570	1,280 1,280	9,140 9,140	2,520 2,520	2,240 2,240	32,291 31,888
February March	1,540	1,790 1,790	509 501	4,084	2,525	2,350 2,450	1,340 300	2,570	1,280	9,140 8,940	2,520	2,240 2,240	30,738
April	1,540	1,740	504	4,032	2,525	2,450	200	2,430	1,200	8,940	2,020	2,240	30,859
May	1,540	1,640	497	4,100	2,575	2,550	200	2,570	1,300	8,940	2,720	2,240	30,872
June	1,540	1,690	495	4,100	2,575	2,550	100	2,570	1,300	9,640	2,720	2,240	31,520
July	1,540	1,740	492	4,050	2,625	2,550	100	2,570	1,300	9,840	2,720	2,240	31,767
August	1,540	1,790	495	4,050	2,625	2,600	0	2,600	1,300	9,940	2,720	2,240	31,900
September	1,540	1,840	496	4,050	2,725	2,600	100	2,600	1,300	9,740	2,720	2,240	31,951
October	1,540	1,790	502	4,000	2,725	2,600	300	2,400	1,300	9,540	2,720	2,240	31,657
November December	1,540 1,540	1,940 1,890	504 501	4,000 3,950	2,725 2,725	2,600 2,600	550 800	2,500 2,400	1,300 1,300	9,840 9,840	2,720 2,820	2,240 2,240	32,459 32,606
Average	1,540	1,786	500	4,054	2,626	2,000 2,530	465	2,400 2,525	1,300 1,296	9,458	2,688	2,240 2,240	31,708
2012 January	1,550	1,890	504	3,850	2,675	2,650	1,000	2,520	1,300	9,840	^R 2,820	2,240	^R 32,839
February	1,550	1,940	503	3,800	2,575	2,650	1,200	2,580	1,300	9,840	^R 2,820	2,240	^R 32,998
March	1,550	1,790	499	3,750	2,725	2,650	1,350	2,520	1,200	10,040	^R 2,820	2,240	^R 33,134
April	1,550	1,890	500	3,600	2,965	2,650	1,400	2,640	1,190	10,040	^R 2,820	2,240	^R 33,485
May	1,550	1,840	498	3,525	2,925	2,650	1,400	2,580	1,200	9,840	^R 2,820	2,240	^R 33,068
June	1,550	1,790	502	3,350	2,975	2,650	1,400	2,580	1,200	9,840	R 2,820	2,240	R 32,897
July 7-Month Average	1,550 1,550	1,740 1,839	508 502	3,200 3,581	3,075 2,846	2,650 2,650	1,400 1,307	2,580 2,571	1,200 1,227	10,040 9,926	2,820 2,820	2,240 2,240	33,003 33,060
2011 7-Month Average	1,540	1,740	500	4,086	2,569	2,480	548	2,544	1,293	9,226	2,650	2,240	31,415
2010 7-Month Average	1,540	2,031	479	4,100	2,402	2,265	1,650	2,403	1,068	8,757	2,414	2,121	31,229

^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 July 2012, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 600 thousand barrels per day. Data for Saudi Arabia include approximately 150 thousand barrels per day from the Abu Safah field produced on behalf of Bahrain.

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" in "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 Produce	rs				
	Persian Gulf Nations ^b	Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Total Non- OPEC ^a	World
	Nations	Canada	Clillia	Laybr	WIEXICO	Norway	0.5.5.1	Nussia	Kinguoin	States	OFLO	wonu
973 Average	20.668	1,798	1.090	165	465	32	8,324	NA	2	9,208	26.018	55,679
975 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		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	^R 41,793	^R 73,269
2007 Average	20,672	2,628	3,729	530	3,143	2,270		9,437	1,498	5,077	^R 41,730	^R 72,815
2008 Average	21,913	2,579	3,790	566	2,839	2,182		9,357	1,391	5,000	^R 41,265	^R 73,628
2009 Average	20,402	2,579	3,796	587	2,646	2,067		9,495	1,328	5,353	^R 41,783	^R 72,225
2010 January	20,471	2,499	3,971	579	2,660	2,060		9,615	1,379	5,399	^R 42,169	^R 72,868
February		2,433	3,940	578	2,655	2,000		9,648	1,274	5,546	^R 42, 103	^R 73,577
March		2,621	3,940	577	2,633	1,983		9,683	1,429	5,513	^R 42,768	^R 73,772
April		2,693	3,953	576	2,639	1,967		9,646	1,378	5,377	^R 42,760	^R 73,744
May		2,033	4,049	576	2,639	1,921		9,691	1,297	5,398	^R 42,636	^R 73,775
June		2,770	4,105	575	2,592	1,611		9,727	1,076	5,384	^R 42,100	^R 73,880
July		2,762	4,060	575	2,618	1,864		9,710	1,055	5,313	^R 42.347	^R 74,147
August		2,779	4,104	574	2,604	1,648		9,623	1,070	5,445	R 42,222	^R 74,071
September		2,646	4,187	574	2,615	1,637		9,725	1,194	5,608	R 42,497	^R 74.377
October		2,688	4,186	573	2,615	1,952		9,816	1,195	5,596	R 42,800	^R 74,247
November		2,937	4,281	573	2,556	1,868		9,723	1,248	5,558	^R 43,142	^R 74.855
December		2,929	4,126	572	2,620	1,886		9.719	1,240	5,614	^R 43.089	^R 74.831
Average	21,257	2,732	4,078	575	2,621	1,869		9,694	1,233	5,479	R 42,576	^R 74,013
0044	00.000	0.000	4 000	^R 572	0.000	4 005		0 700	4.040	R F FOA	R 40.005	R 75 000
2011 January		2,869	4,238		2,632	1,905		9,769	1,316	^R 5,521	^R 43,035 ^R 42,638	^R 75,326 ^R 74,526
February		2,906	4,188	^R 571 ^R 570	2,602	1,861		9,773	1,085	5,422	^R 42,638 ^R 42,720	^R 73,458
March		2,854	4,160	^R 569	2,620	1,808		9,753	1,073	5,611 5,542	^R 42,720	^R 73,364
April		2,848 2,564	4,127 4,106	^R 568	2,621 2,603	1,874 1,607		9,795 9,818	1,164 1,017	5,542 5,623	^R 42,505 ^R 41,729	^R 72,601
May		2,564	4,106	^R 567	2,603	1,660		9,818	1,017	5,623	^R 41,729	^R 73,306
June		2,004 2,916	^R 3,956	^R 566	2,592	1,000		9,770	946	5,570	^R 41,786	^R 73,643
July		2,916	4,030	^R 565	2,580	1,737		9,837	946 767	5,435 5,651	^R 42,287	^R 74,187
August		2.987	4,030 3.964	^R 565	2,596	1,714		9,832 9,557	890	^R 5,580	^R 41,671	^R 73.621
September October	-, -	2,987 3,030	3,964 3,926	^R 563	2,534 2,598	1,636		9,557 9,902	890 998	^R 5,895	^R 42,569	^R 74.225
November		3,030	4.006	^R 562	2,598	1,764		9,902	1,039	^R 6.001	^R 42,509	^R 75,148
December	-, -	3,021	4,006	^R 562	2,573	1,764		9,595 9.869	1,039	^R 6,023	^R 42,089	^R 75,590
Average		2,904	^R 4,059	R 566	2,001 2,596	1,752		9,003 9,774	1,010	5,658	^R 42,304	^R 74,082
			.,			-,		-,				
2012 January		3,105	4,089	^R 560	2,562	1,761		9,894	999	^{RE} 6,132	^R 43,005	^R 75,844
February	^R 23,020	3,237	4,109	^R 560	2,588	1,745		9,889	1,016	^{RE} 6,191	^R 42,856	^R 75,853
March	^R 23,220	3,042	4,066	^R 560	2,596	1,715		9,891	968	^{RE} 6,302	^R 42,683	^R 75,817
April	^R 23,300	^R 3,145	4,111	^R 560	2,586	1,720		9,861	981	RE 6,252	^R 42,691	^R 76,176
May	r 22,995	^R 3,078	4,105	^R 560	2,587	1,699		9,882	893	^{RE} 6,237	^R 42,481	^R 75,549
June	^R 22,870	^R 3,091	4,015	^R 556	2,584	1,583		9,861	949	^{RE} 6,192	^R 42,208	^R 75,105
July		3,243	4,010	555	2,568	1,553		9,882	954	^E 6,267	42,391	75,394
7-Month Average	23,086	3,134	4,072	559	2,581	1,682		9,880	965	^E 6,225	42,616	75,676
2011 7-Month Average	22.338	2.802	4,112	569	2.607	1,778		9.788	1.088	5,534	42,324	73,739
2010 7-Month Average		2,602	4,112	509	2,607	1,778		9,788	1,000	5,534 5,417	42,324 42,451	73,681
2010 7-Wonth Average	21,040	2,005	4,000	3//	2,033	1,520		3,075	1,270	3,417	42,431	13,00

^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" ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and

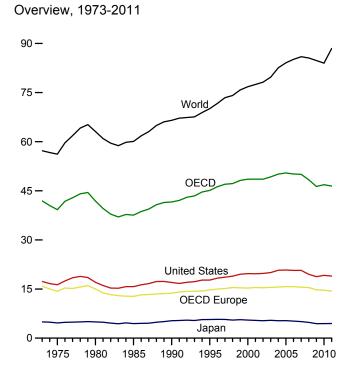
the Neutral Zone (between Kuwait and Saudi Arabia). R=Revised. NA=Not available. --=Not applicable. E=Estimate.

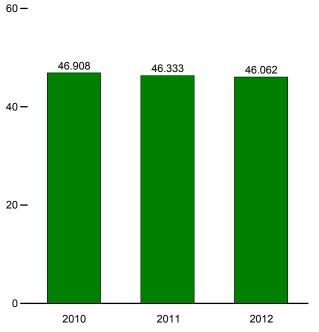
Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum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

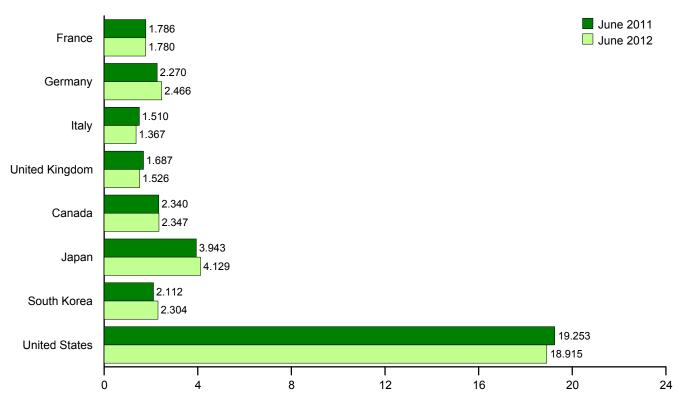
Figure 11.2 Petroleum Consumption in OECD Countries (Million Barrels per Day)





OECD Total, June

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
1973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
1975 Average	2,252	2,957	1,855	1,911	14,314	1,779	4,621	311	16,322	1,885	39,232	56,198
1980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,449	41,870	63,113
1985 Average	1,753	2,651	1,705	1,617	12,772	1,514	4,436	552	15,726	2,564	37,565	60,074
1990 Average	1,826	2,682	1,868	1,776	13,726	1,722	5,315	1,048	16,988	2,786	41,585	66,517
1995 Average	1,920	2,882	1,942	1,816	14,714	1,799	5,693	2,008	17,725	3,184	45,123	70,099
1996 Average	1,949	2,922	1,920	1,852	14,999	1,853	5,739	2,101	18,309	3,247	46,248	71,689
1997 Average	1,969 2.043	2,917 2,923	1,934 1.943	1,810	15,140 15.448	1,940 1.931	5,702	2,255	18,620 18.917	3,355	47,013 47.206	73,450 74.105
1998 Average	2,043	2,923	1,943	1,792 1,811	15,446	2,016	5,507 5,642	1,917 2,084	19,519	3,486 3,567	47,206	75,819
1999 Average 2000 Average	2,031	2,830	1,854	1,765	^R 15,357	2,010	5,642	2,084	19,519	^R 3,902	^R 48,543	^R 76,788
2000 Average	2,000	2,807	1,832	1,747	^R 15,447	2,014	5,412	2,133	19,649	R 3,892	R 48,575	R 77,481
2002 Average	1,985	2,710	1,870	1,739	^R 15,386	2,045	5,319	2,149	19,761	R 3,873	^R 48,553	R 78,175
2003 Average	2,001	2,662	1,860	1,759	^R 15,494	2,191	5,428	2,175	20,034	R 3,918	^R 49,241	R 79,720
2004 Average	2,009	2,649	1,829	1,785	R 15,598	2,282	5,319	2,155	20,731	R 4,015	R 50,100	R 82,583
2005 Average	1,991	2,621	1,781	1,820	^R 15,716	2,315	5,328	2,191	20,802	R 4.093	^R 50.445	R 84,089
2006 Average	1,991	2,639	1,777	1,806	R 15,723	2,229	5,197	2,180	20,687	^R 4,128	^R 50,144	^R 85,156
2007 Average	1,979	2,416	1,729	1,753	R 15,546	2,283	5,037	2,241	20,680	R 4,250	R 50,037	R 85,944
2008 Average	1,945	2,542	1,667	1,727	^R 15,457	2,225	4,795	2,142	19,498	R 4,237	^R 48,355	^R 85,554
2009 Average	1,868	2,453	1,544	1,641	^R 14,715	2,153	4,406	2,188	18,771	^R 4,094	^R 46,328	^R 84,780
2010 January	1,756	2,161	1,369	1,586	^R 13,588	2,128	4,779	2,361	18,652	^R 3,826	^R 45,334	NA
February	1,955	2,454	1,535	1,688	^R 14,812	2,256	5,002	2,383	18,850	^R 4,204	^R 47,507	NA
March	1,913	2,505	1,563	1,683	^R 14,884	2,162	4,738	2,253	19,099	^R 4,017	^R 47,153	NA
April	1,845	2,260	1,520	1,646	^R 14,334	2,133	4,327	2,249	19,044	^R 4,107	^R 46,194	NA
May	1,693	2,354	1,451	1,615	^R 13,966	2,181	3,841	2,170	18,866	^R 4,033	^R 45,057	NA
June	1,836	2,510	1,578	1,599	^R 14,775	2,266	3,967	2,177	19,537	^R 4,187	^R 46,908	NA
July	1,829	2,571	1,658	1,631	^R 14,980	2,210	4,170	2,111	19,319	^R 4,115	^R 46,906	NA
August	1,741	2,547	1,506	1,643	^R 14,616	2,360	4,388	2,221	19,662	^R 3,994	^R 47,241	NA
September	1,945	2,747	1,624	1,640	^R 15,438	2,381	4,441	2,192	19,438	R 4,017	^R 47,907	NA
October	1,753	2,622	1,532	1,667	^R 15,006	2,244	4,035	2,225	18,974	^R 3,994	^R 46,478	NA
November	1,788	2,585	1,567	1,647	^R 15,083	2,285	4,595	2,392	18,977	^R 4,097	^R 47,429	NA
December Average	1,939 1,831	2,324 2,470	1,630 1,544	1,526 1,630	^R 14,669 ^R 14,676	2,238 2,237	5,005 4,437	2,495 2,268	19,722 19,180	^R 4,191 ^R 4,064	^R 48,319 ^R 46,862	NA ^R 84,001
2011 January	1,773	2,230	1,352	1,600	^R 13,688	^R 2,258	4,899	2,429	18,993	^R 3,821	^R 46,088	NA
February	1,916	2,433	1,554	1,652	^R 14,819	^R 2,316	5,067	2,349	18,873	R 4,261	R 47,685	NA
March	1,789	2,393	1,445	1,635	^R 14,360	R 2,390	4,551	2,295	19,329	R 4,270	^R 47,196	NA
April	1.747	2,258	1,461	1,621	^R 13,996	^R 2,144	3,994	2,011	18,650	^R 4.079	^R 44.874	NA
May	1,734	2,403	1,425	1,555	^R 14,070	^R 2,184	3,787	2,022	18,479	^R 4,092	^R 44,634	NA
June	1,786	2,270	1,510	1,687	^R 14,468	^R 2,340	3,943	2,112	19,253	^R 4,218	^R 46,333	NA
July	1,799	2,409	1,477	1,562	^R 14,447	^R 2,340	4,226	2,188	18,778	^R 4,166	^R 46,145	NA
August	1,804	2,638	1,400	1,617	^R 14,765	^R 2,447	4,425	2,212	19,415	^R 4,230	^R 47,494	NA
September	1,919	2,551	1,541	1,671	^R 15,066	^R 2,306	4,278	2,241	^R 18,892	^R 4,216	^R 46,998	NA
October	1,777	2,508	1,465	1,578	^R 14,420	^R 2,196	4,394	2,216	18,844	^R 4,016	^R 46,086	NA
November	1,730	2,447	1,405	1,595	^R 14,224	^R 2,292	4,602	2,252	19,080	^R 4,288	^R 46,738	NA
December	1,737	2,262	1,423	1,531	^R 13,809	^R 2,299	5,429	2,436	18,803	^R 4,316	^R 47,092	NA
Average	1,792	2,400	1,454	1,608	^R 14,339	^R 2,293	4,464	2,230	18,949	^R 4,163	^R 46,439	^R 88,480
2012 January	1,745	2,133	1,263	1,440	^R 13,138	^R 2,142	5,161	2,366	18,280	^R 3,985	^R 45,072	NA
February	1,950	2,483	1,306	1,565	^R 14,460	^R 2,137	5,550	2,410	18,760	^R 4,235	^R 47,552	NA
March	1,725	2,219	1,316	1,614	^R 13,697	^R 2,353	5,156	2,153	18,213	^R 4,306	^R 45,878	NA
April	1,686	2,231	1,293	1,600	^R 13,620	R 2,202	4,390	2,099	18,330	^R 4,115	^R 44,755	NA
May	1,671	2,305	1,304	1,517	^R 13,658	^R 2,287	4,367	2,181	18,707	^R 4,197	^R 45,399	NA
June 6-Month Average	1,780 1,758	2,466 2,304	1,367 1,308	1,526 1,543	14,109 13,772	2,347 2,246	4,129 4,790	2,304 2,251	18,915 18,531	4,259 4,182	46,062 45,771	NA NA
-	,	,	,									
2011 6-Month Average 2010 6-Month Average	1,789 1,831	2,330 2,373	1,456 1,502	1,624 1,635	14,224 14,384	2,272 2,186	4,366 4,436	2,202 2,264	18,930 19,007	4,121 4,059	46,115 46,338	NA NA

^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;

^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

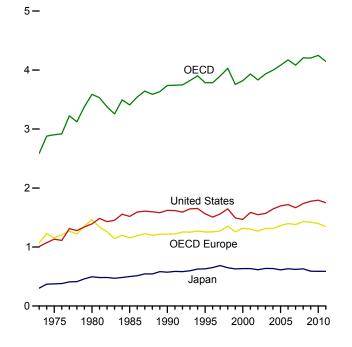
rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for

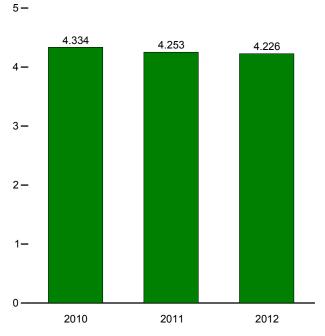
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973. Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy 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, October 2012, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries verious issues Balances in OECD Countries, various issues.

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

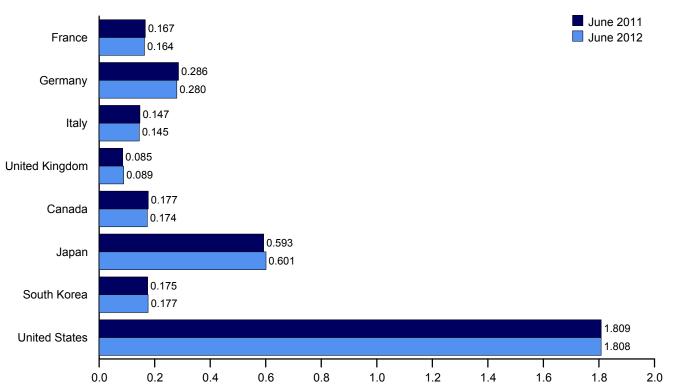
Overview, End of Year, 1973-2011

OECD Stocks, End of Month, June





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)

	_	-		United	OECD	. .		South	United	Other	
	France	Germany ^a	Italy	Kingdom	Europe ^b	Canada	Japan	Korea	States	OECDC	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	110	3,408
990 Year	143	280	171	103	1,221	143	572	64	1,621	117	3,739
995 Year	155	302	162	101	1,254	132	631	92	1,563	113	3,785
996 Year	154	303	152	103	1,258	127	651	123	1,507	118	3,785
997 Year	161	299	147	100	1,270	144	685	124	1,560	115	3,898
998 Year	169	323	153	104	1,354	139	649	129	1,647	111	4,029
999 Year	160	290	148	101	1,256	141	629	132	1,493	105	3,756
000 Year	170	272	157	100	^R 1,318	143	634	140	1,468	^R 126	R 3,829
001 Year	165	273	151	113	^R 1,306	154	634	143	1,586	R 120	R 3,944
002 Year	170	253	155	104	^R 1,272	155	615	140	1,548	R 112	^R 3.842
003 Year	179	273	153	100	^R 1,316	165	636	155	1,568	R 105	R 3.945
004 Year	177	267	153	100	^R 1,318	154	635	149	1,645	R 108	^R 4,009
005 Year	185	283	149	95	^R 1,369	168	612	135	1,698	^R 112	^R 4,009
005 Year	182	283	149	103	^R 1,401	169	631	155	1,090	R 112	^R 4.185
007 Year	182	203	151	90	^R 1.386	163	621	152	1,720	R 121	R 4,185
008 Year	179	279	145	99	^R 1,435	162	630	143	1,005	R 124	^R 4,099
										^R 117	
009 Year	175	284	143	94	^R 1,426	157	589	155	1,776	~117	^R 4,220
010 January	182	295	144	95	^R 1,466	160	593	162	1,786	^R 122	^R 4,289
February	175	290	151	99	^R 1,451	161	587	163	1,785	^R 128	^R 4,275
March	172	289	147	93	^R 1,432	167	581	164	1,787	^R 127	^R 4,258
April	172	284	152	95	^R 1,441	168	590	166	1,810	^R 123	^R 4,298
May	173	286	149	99	^R 1,449	164	599	166	1,830	^R 120	^R 4,329
June	170	280	150	96	^R 1,432	166	597	167	1,842	^R 131	^R 4,334
July	168	282	144	96	^R 1,417	173	598	170	1,855	^R 127	^R 4,339
August	171	289	151	93	^R 1,432	182	597	169	1,862	^R 127	^R 4,369
September	163	286	144	95	^R 1,392	180	582	174	1,861	^R 123	^R 4,311
October	161	285	147	94	^R 1,402	183	599	170	1,847	^R 125	^R 4,325
November	170	287	143	92	^R 1,394	184	604	171	1,827	^R 121	^R 4,302
December	168	287	151	89	^R 1,398	184	588	165	1,794	^R 119	^R 4,248
011 January	173	291	158	97	^R 1,439	174	596	168	1,809	^R 117	^R 4,304
February	170	288	149	95	^R 1,410	169	591	162	1,780	^R 121	^R 4,234
March	167	286	149	93	^R 1,398	172	575	170	1,776	^R 116	^R 4.207
April	163	291	149	93	^R 1,384	179	601	173	1,779	^R 123	R 4.238
May	168	288	147	91	^R 1,387	^R 177	599	170	1.807	^R 122	^R 4,262
June	167	286	147	85	R 1,379	177	593	175	1,809	R 120	R 4,253
July	164	290	148	87	^R 1,370	176	599	173	1,816	R 122	^R 4,255
August	162	283	149	89	^R 1,374	176	598	173	1,796	R 123	^R 4.237
September	162	203	149	85	^R 1,353	176	601	174	1,781	R 119	^R 4,203
October	165	278	140	86	^R 1,342	179	599	174	1,769	^R 118	^R 4,203
November	165	278	147	93	^R 1,357	179	599 603	174	1,769	^R 116	^R 4,181
	164 165	279	140 146	93 88	^R 1,347	178	589	167	1,770	^R 116	^R 4,196
December	100	2/9	140	ŏŏ	1,347	1/8	289	107	1,/50		4,146
012 January	166	284	150	90	^R 1,369	179 B 170	594	164	1,772	^R 119	^R 4,197
February	165	283	149	90	^R 1,367	^R 179	583	171	1,765	^R 110	^R 4,176
March	165	281	148	89	^R 1,375	^R 171	580	164	1,778	^R 111	^R 4,179
April	163	280	148	91	^R 1,368	^R 176	592	174	1,777	R 113	^R 4,200
May	162	281	148	88	^R 1,351	^R 177	597	183	1,794	^R 115	^R 4,217
June	164	280	145	89	1.354	174	601	177	1.808	112	4,226

^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.

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

^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: • 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

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, September 12, 2012.

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, October 2012.

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, October 2012.

12. Environment

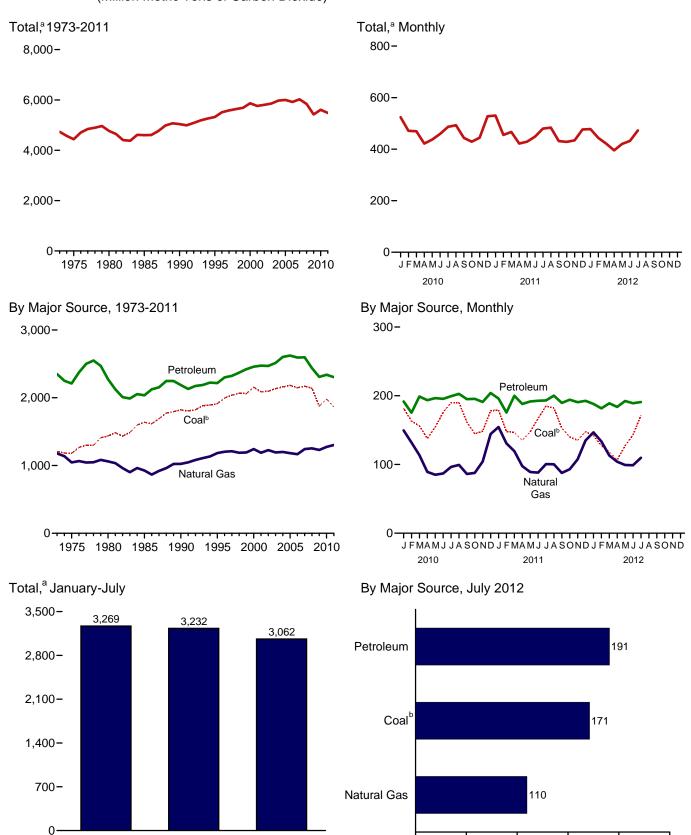


Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)

^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.

Carbon Dioxide Emissions From Energy Consumption by Source Table 12.1

(Million Metric Tons of Carbon Dioxidea)

								Petrole	um					
	Coal ^b	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 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2007 Total 2008 Total 2009 Total	1,207 1,181 1,436 1,638 1,821 1,913 1,995 2,044 2,062 2,155 2,084 2,095 2,136 2,136 2,136 2,132 2,132 2,147 2,172 2,139 1,876	R 1,178 R 1,046 R 1,061 926 R 1,044 R 1,183 R 1,204 R 1,183 R 1,204 R 1,183 R 1,183 R 1,243 R 1,183 R 1,243 R 1,183 R 1,243 R 1,183 R 1,243 R 1,183 R 1,243 R 1,183 R 1,243 R 1,230	6 5 4 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	480 443 446 445 470 498 ₹525 534 538 555 580 598 587 610 632 640 648 652 615 564	155 146 156 178 222 232 232 238 245 254 243 237 231 240 246 240 238 226 204	32 24 24 17 6 8 9 10 12 11 10 11 6 8 10 8 5 2 3	R 92 87 87 87 87 87 87 87 87 88 80 82 87 88 87 87 87 88 87 88 87 88 87 88 87 87	13 11 13 12 13 13 12 13 14 14 13 12 11 12 11 12 11 10	911 900 930 988 1,044 1,063 1,075 1,107 1,127 1,135 1,151 1,183 1,214 1,214 1,214 1,224 1,227 1,166 1,157	R 54 R 54 R 54 R 54 R 76 R 76 R 76 R 93 R 96 R 96 R 96 R 96 R 106 R 106 R 106 R 106 R 100 R 83 R 87	508 443 216 220 152 152 158 142 158 148 163 R 144 125 138 155 R 165 122 129 111 91	100 97 142 93 127 R 121 R 139 R 142 R 133 R 138 R 130 R 142 R 130 R 142 R 152 R 152 R 152 R 132 R 132 R 132	R 2,350 R 2,212 R 2,275 R 2,036 R 2,203 R 2,216 R 2,303 R 2,321 R 2,454 R 2,454 R 2,454 R 2,454 R 2,454 R 2,454 R 2,514 R 2,515 R 2,457 R 2,515 R 2,215 R 2,255 R 2,555 R 2,55	R 4,735 R 4,439 R 4,771 4,600 5,039 R 5,323 R 5,510 R 5,568 R 5,688 R 5,668 R 5,668 R 5,668 R 5,668 R 5,668 R 5,668 R 5,688 R 5,688 R 5,688 R 5,5804 R 5,920 R
2010 January February March April May June July August September October Docember December Total	182 163 156 138 155 176 190 160 161 145 148 178 1,982	R 150 R 132 R 114 R 89 R 85 R 87 99 86 R 88 R 104 R 144 R 144	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	49 46 51 48 48 47 50 50 50 50 49 55 590	17 15 18 17 18 19 19 19 18 18 18 17 17 210	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 987555666779 R R R R R R R R R R R R R R R R R R R	1 1 1 1 1 1 1 1 1 1 1 1	92 84 95 99 97 101 100 96 97 92 96 1,146	5 R6 R8 R7 6 7 7 8 8 6 7 R7 R8 8 1	9 7 8 9 8 7 9 7 8 8 8 8 96	9 9 11 11 10 10 11 10 8 10 8 10 8 10 8	^R 192 ^R 175 ^R 199 194 197 196 ^R 199 203 ^R 195 196 191 ^R 204 ^R 2,339	524 471 470 422 437 459 487 493 444 429 444 R 527 5,607
2011 January February March May June July August September October November December Total	179 148 147 135 148 167 185 182 153 140 135 148 1,866	R 154 R 131 R 119 R 89 R 88 R 101 R 100 R 88 R 93 R 108 R 135 R 1,303	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	52 47 53 48 49 50 47 53 50 53 52 51 603	17 15 17 18 18 19 18 19 17 17 17 209	(s) 1 (s) (s) (s) (s) (s) (s) (s) (s)	R 10 R 88 R 66 R 66 R 67 R 89 R 87	1 1 1 1 1 1 1 1 1 1 1 1 0	91 84 95 95 95 98 96 92 93 89 93 89 94 1,113	R7 56 88 87 87 86 7 8 67 7 8 67 7 8 7 7 8	9 8 7 7 7 7 5 5 7 6 6 8 8 8 2	10 8 11 10 8 9 11 10 10 10 11 10 118	R 196 R 200 R 188 192 193 R 193 R 200 190 R 194 191 193 R 2,304	530 455 467 R 422 429 449 480 R 484 431 428 434 476 R 5,486
2012 January February April June July 7-Month Total 2011 7-Month Total	142 127 118 107 ^R 127 143 171 936 1,108 1,159	R 147 133 R 113 R 104 R 99 R 99 110 805 780 753	(s) (s) (s) (s) (s) (s) 1 1	50 49 47 47 47 47 338 345 336	16 16 17 16 18 19 18 120 121	(s) (s) (s) (s) (s) (s) (s) (s) 1	R 8 87 86 87 86 7 50 50 45	1 1 1 1 1 6 6	89 87 93 92 97 94 95 648 650 665	R7 5 6 87 87 87 6 43 45 46	6 6 4 5 6 41 50 57	^R 11 10 9 9 10 10 68 67 71	R 188 182 R 189 184 R 192 R 189 191 1,315 1,337 1,351	R 478 443 421 395 420 432 473 3,062 3,232 3,269

^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. Liquefied petroleum gases.

e f Finished motor gasoline, excluding fuel ethanol.

9 Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas,

comportance, permanes prus, perioditermicar redistocks, 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.

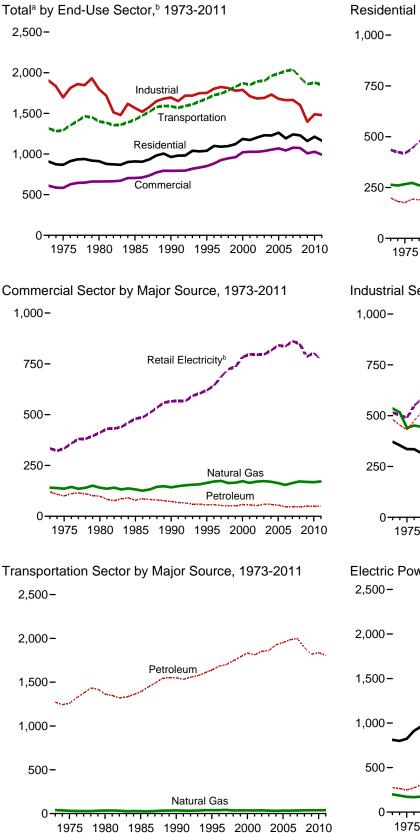
R=Revised. (s)=Less than 0.5 million metric tons. Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. See Note 1, "Emissions of Carbon 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 Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973.

Sources: See end of section.

Data revisions in this table are due to revised estimates for nonfuel use of natural gas and petroleum.

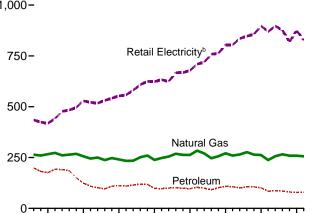




^a Excludes emissions from biomass energy consumption. total elect

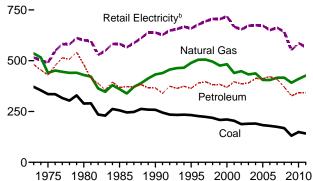
^b Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of

Residential Sector by Major Source, 1973-2011

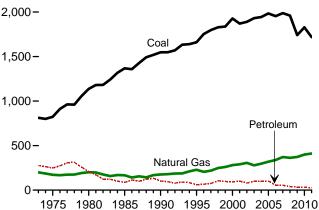


1975 1980 1985 1990 1995 2000 2005 2010

Industrial Sector by Major Source, 1973-2011 1,000-



Electric Power Sector by Major Source, 1973-2011 2,500-



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 Dioxide ^a)

				Petrole	eum		Retail	
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Elec- tricity ^e	Total ^f
973 Total 975 Total 985 Total 986 Total 990 Total 995 Total 995 Total 996 Total 997 Total 998 Total 998 Total 999 Total 000 Total 001 Total 001 Total 003 Total 003 Total 003 Total	9 6 3 4 3 2 2 2 1 1 1 1 1 1 1 1 1	264 266 256 241 238 263 284 270 247 257 257 257 257 257 257 257 257 257 25	147 132 96 80 72 66 68 64 56 66 66 66 66 66 66 66 66 66 66 66 66	16 12 8 11 5 6 7 8 8 7 7 4 5 6 6	36 32 20 20 22 25 30 27 33 35 33 34 34 32 32	199 176 124 111 96 104 99 91 102 108 106 101 106 106	435 419 529 553 624 678 710 719 759 762 805 805 835 835 835 835 847 856 897	907 867 911 909 963 1,039 1,099 1,090 1,097 1,122 1,185 1,172 1,203 1,220 1,228 1,226
006 Total 007 Total 008 Total 009 Total	1 1 1 1	237 257 266 259	52 53 49 44	5 3 2 2	28 31 35 35	85 87 85 81	869 897 878 819	1,192 1,241 1,229 1,159
010 January February March Mari May June July August September October November December Total	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	51 43 31 17 17 6 6 6 11 24 46 259	6 6 4 2 3 3 2 2 2 3 3 6 43	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10 9 7 5 5 6 5 5 5 6 7 10 78	91 74 65 51 59 79 97 96 72 56 56 56 81 875	151 126 103 73 75 92 108 107 83 73 87 137 137
011 January February March May July August September October November December Total	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	53 42 33 19 11 7 6 6 7 12 23 37 256	5 5 4 3 2 3 2 3 2 3 4 4 6 4 4 6 4 4	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	4 3 3 3 3 3 3 3 3 3 3 3 3 3 5	9 8 7 5 4 5 5 6 6 7 7 9 80	87 67 59 53 58 76 92 69 54 53 66 827	149 117 99 77 74 88 107 104 81 73 84 113 1,164
012 January February March April May June July 7-Month Total	(s) (s) (s) (s) (s) (s) (s)	43 36 22 15 9 7 6 139	6 5 4 3 3 3 3 27	(S) (S) (S) (S) (S) (S) (S)	3 3 3 3 3 3 3 20	9 8 7 6 6 6 6 48	68 58 51 45 55 69 93 439	121 102 80 66 70 82 104 626
2011 7-Month Total 2010 7-Month Total	(s) (s)	171 166	23 26	1 1	20 19	45 46	495 515	711 727

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

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

						Petroleum				Retail	
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1980 Total 1985 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 2005 Total 2007 Total 2008 Total 2009 Total	15 14 11 13 12 12 12 12 9 9 9 9 9 9 8 10 9 9 8 10 9 9 7 7 6	141 136 141 132 164 171 174 164 165 173 164 173 170 163 154 164 170 163	47 43 38 46 39 35 35 35 32 31 32 36 37 32 35 37 32 35 34 33 29 28 28 27 30	5 4 3 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 8 6 6 7 8 8 7 9 9 9 9 9 10 10 8 8 8 10 9	6 6 8 7 8 1 2 3 3 2 3 3 2 3 3 4 3 3 4 3 3 4 3 4 3 4	NA NA NA (5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	52 39 44 18 11 11 9 7 6 7 6 9 10 9 6 6 6 6 6 6	120 100 98 79 73 56 57 54 51 51 51 51 51 52 59 58 55 48 47 46 49	334 333 412 480 566 620 643 686 724 735 783 797 795 796 816 842 836 841 850 785	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,026 1,026 1,054 1,069 1,078 1,078 1,074
2010 January February March April June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	27 24 18 12 9 7 6 7 7 10 16 25 168	4 3 2 2 2 2 2 1 2 2 1 2 2 4 30	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	1 1 1 1 1 1 1 1 1 1 9	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(5) (5) (5) (5) (6) (5) (5) (5) (5) (5)	1 1 (s) (s) (s) (s) (s) (s) (s) (s) 1 6	6 4 3 3 4 3 3 4 4 6 49	66 60 59 66 74 80 81 69 63 61 68 805	101 91 82 73 78 85 90 91 79 77 81 100 1,027
2011 January February March April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	29 23 20 13 9 7 7 7 8 12 15 22 171	4 3 2 1 2 2 2 3 3 4 31	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 9	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	(s) (s) (s) 0 0 0 0 0 0 (s) (s) (s) (s)	1 (5) (5) (5) (5) (5) (5) (5) (5) 1 5	6 5 4 3 2 3 3 4 4 4 5 6 9	65 55 57 63 70 79 77 66 61 57 59 767	100 84 83 73 75 81 89 89 77 77 77 77 87 992
2012 January February March April May June July 7-Month Total	(s) (s) (s) (s) (s) (s) (s) 2	24 21 14 11 8 7 7 93	4 3 2 2 2 2 19	(s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 5	(s) (s) (s) (s) (s) (s) (s) 2	(s) (s) (s) 0 (s) (s) (s)	1 (s) (s) (s) (s) (s) 3	6 5 3 4 4 4 30	57 53 52 51 61 66 77 416	88 80 71 66 73 77 87 542
2011 7-Month Total 2010 7-Month Total	3 3	108 103	16 18	(s) (s)	5 5	2 2	(s) (s)	3 4	27 30	447 463	585 599

 Metric tons of carbon dioxide can be converted equivalent by multiplying by 12/44.
 Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.
 ^d Liquefied petroleum nase ^a Metric tons of carbon dioxide can be converted to metric tons of carbon

^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.

⁹ Excludes emissions from biomass energy consumption. See Table 12.7. 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 Dioxidea)

		Coal						Petroleun	n				Datall	
	Coal	Coke Net Imports	Natural Gas ^b	Distillate Fuel Oil ^c	Kero- sene	LPG ^d	Lubri- cants	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Other ^f	Total	Retail Elec- tricity ^g	Total ^h
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 2000 Total 2001 Total 2002 Total 2003 Total 2003 Total 2005 Total 2006 Total 2006 Total 2006 Total 2007 Total 2008 Total 2009 Total	371 336 289 256 258 233 227 224 211 204 188 190 191 183 179 175 168 131	-1 2 -2 1 7 3 5 8 7 7 3 7 6 16 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 7 3 5 7 7 7 7	R 536 R 440 R 429 360 432 R 439 R 505 R 505 R 495 R 495 R 483 R 448 R 432 R 437 R 405 R 405 R 417 R 417 R 391	106 97 96 81 84 82 87 88 88 86 87 95 88 88 86 87 95 88 83 88 92 92 92 93 80	11 9 13 3 1 1 1 1 2 2 3 2 2 3 2 3 2 5 (5)	R 44 39 61 R 59 R 37 R 47 R 48 R 50 R 47 R 47 R 42 R 43 R 42 R 43 R 43 R 43 R 33	7 6 7 6 7 7 7 7 7 6 6 6 6 6 6 6 6 6 5	18 16 11 15 13 14 14 15 14 14 15 14 14 15 22 23 26 25 26 25 26 21 17 17	R 52 R 51 R 54 R 67 R 71 R 70 R 70 R 70 R 70 R 70 R 70 R 70 R 70	144 117 105 57 31 ℝ 25 24 21 16 14 17 14 13 ℝ 16 ℝ 18 20 16 13 14 7	100 97 142 93 127 R 121 R 139 R 145 R 139 R 145 R 133 R 145 R 133 R 145 R 133 R 145 R 133 R 142 R 142 R 143 R 152 R 153 R 155 R 155	R 483 R 483 R 431 R 483 369 366 R 364 R 364 R 391 R 396 R 396 R 396 R 396 R 396 R 396 R 396 R 396 R 396 R 390 R 412 R 421 R 421 R 421 R 421 R 421 R 433 R 327	515 490 601 583 638 658 678 694 704 719 664 672 673 654 673 650 662 642 551	R 1,904 R 1,697 R 1,7566 1,695 R 1,695 R 1,695 R 1,803 R 1,824 R 1,803 R 1,824 R 1,778 R 1,778 R 1,778 R 1,778 R 1,778 R 1,662 R 1,663 R 1,664 R 1,665 R 1,665
2010 January February April May July August September October November December Total	12 12 12 12 12 12 13 13 13 13 13 149	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 38 R 35 R 36 R 32 R 33 R 33 R 33 R 33 R 33 R 35 R 38 R 410	6 9 8 6 5 4 7 9 7 8 9 86	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 4 R 3 R 2 R 2 R 2 R 2 R 3 R 3 R 3 S	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 19	R4 66 86 87 87 87 86 86 86 86	1 1 1 1 1 1 1 1 1 1 8	9 9 11 11 10 10 11 10 8 10 8 10 8 122	R 27 R 26 R 32 30 R 27 R 25 R 30 S1 R 27 S0 R 32 R 343	46 44 45 51 52 54 55 48 47 47 48 50 587	122 118 127 120 123 124 130 124 120 124 133 1,488
2011 January February March May June July August September October November December Total	12 12 13 11 12 12 12 12 12 12 12 12 142	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 39 R 36 R 37 R 35 R 35 R 34 R 34 R 34 R 34 R 34 R 35 R 36 R 39 R 427	9 7 10 7 7 4 7 8 9 6 89	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 54 R 4 3 R 3 3 R 3 3 R 3 3 R 3 3 R 3 R 4 R 4 R 4 R 41	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 2 2 2 2 2 2 2 2 2 2 2 2 1 2 8	54 85 87 85 75 66 3 8 64	1 1 1 (s) (s) 1 1 1 7	10 8 11 10 8 9 11 10 10 10 11 10 118	R 32 R 25 R 33 28 R 27 27 26 R 30 28 R 29 32 R 26 R 343	47 42 45 48 50 53 53 46 47 45 45 567	131 ^R 115 128 118 ^R 122 121 123 129 ^R 120 123 ^R 125 122 ^R 1,479
2012 January February March April June July 7-Month Total	11 11 12 11 11 ^R 10 11 77	(s) (s) (s) (s) (s) (s) 1	R 40 R 37 R 37 R 35 R 35 34 35 252	7 9 7 6 5 3 43	(s) (s) (s) (s) (s) (s) (s) (s)	R 4 R 4 R 3 R 3 R 3 R 3 3 23	(s) (s) (s) (s) (s) (s) (s) 3	1 2 2 2 2 2 1	R 6 4 5 6 6 5 38	1 (s) 1 (s) (s) 3	^R 11 10 9 9 9 10 10 68	30 30 R 27 26 R 27 26 25 190	43 42 41 47 47 52 311	123 120 117 113 120 117 122 833
2011 7-Month Total 2010 7-Month Total	83 86	1 1	248 239	52 45	(s) (s)	24 20	3 3	11 11	37 37	4 5	67 71	198 193	330 338	859 855

^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. с

d

Liquefied petroleum gases. Finished motor gasoline, excluding fuel ethanol.

 ⁶ Eliquéries perupieuri gases.
 ⁶ 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, unfinished oils, waxes, and miscellaneous petroleum products.
 ^g Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See 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.

Data revisions in this table are due to revised estimates for nonfuel use of natural gas and petroleum.

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

						Petr	oleum	1			Retail	
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total	(s) (s) (^h) (^h)	39 32 34 28	6 5 4 3	163 155 204 232	152 145 155 178	3 3 1 2	6 6 6	886 889 881 908	57 56 110 62	1,273 1,258 1,363 1,391	2 2 2 3	1,315 1,292 1,400 1,421
1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total	(h) (h) (h) (h) (h) (h)	36 38 39 41 35	3 3 3 2	268 307 327 342 352	223 222 232 234 238	1 1 1 1	7 6 6 7	967 1,029 1,047 1,057 1,090	80 72 67 56 53	1,548 1,639 1,683 1,699 1,743	3 3 3 3 3	1,588 1,681 1,725 1,744 1,782
1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2003 Total	(h) (h) (h) (h)	36 36 35 37 33	3 3 2 2 2	366 378 387 394 414	245 254 243 237 231	1 1 1 1	7 7 6 6	1,115 1,121 1,127 1,158 1,161	52 70 46 53 45	1,789 1,833 1,813 1,851 1,861	3 4 4 5	1,828 1,872 1,852 1,892 1,899
2004 Total 2005 Total	(h) (h) (h) (h) (h) (h)	32 33 33 35 37 38	2 2 2 2 2 2 2 2	434 444 469 472 440 404	240 246 240 238 226 204	1 2 1 3 2	6 6 5 6 5 5	1,185 1,186 1,194 1,201 1,146 1,137	58 66 71 78 72 64	1,926 1,953 1,984 1,999 1,895 1,818	5 5 5 5 5 5 5 5 5	1,962 1,991 2,022 2,040 1,937 1,860
2010 January February	(h (h)	4 4	(s) (s)	31 30	17 15	(s) (s)	(s) (s)	91 82	6 5	145 133	(s) (s)	150 137
March April May	(h) (h) (h)	3 3 3	(S) (S) (S)	35 35 37	18 17 18	(S) (S) (S)	(s) (s) (s)	94 94 97	6 7 6	154 154 159	(s) (s) (s)	157 157 161
June July August September	(h) (h) (h) (h)	3 3 3 3	(s) (s) (s) (s)	36 38 39 37	19 19 19 18	(s) (s) (s) (s)	1 (s) (s) (s)	95 99 98 94	5 6 5 6	156 162 161 155	(s) (s) (s) (s)	159 165 165 157
October November December Total	(`h`) (`h`) (`h`) (`h`)	3 3 4 38	(s) (s) (s) 2	37 35 35 425	18 17 17 210	(s) (s) (s) 2	(s) (s) (s) 5	95 90 94 1,124	6 6 5 69	157 149 153 1,836	(s) (s) (s) 5	160 152 158 1,879
2011 January February March	(h) (h) (h)	5 4 4	(s) (s) (s)	33 31 36	17 15 17	(s) (s) (s)	(s) (s) 1	89 82 93	6 6 5	146 135 153	(s) (s) (s)	151 139 157
April May June July	(`h`) (`h`) (`h`) (`h`)	3 3 3 3	(s) (s) (s) (s)	36 38 38 38	18 18 19 18	(s) (s) (s) (s)	(s) (s) (s) (s)	90 93 93 96	5 6 5 3	150 155 156 157	(s) (s) (s) (s)	153 159 159 160
August September October November	(h) (h) (h) (h)	3 3 3 3	(s) (s) (s) (s)	40 37 38 36	19 17 17 17	(s) (s) (s) (s)	(s) (s) (s) (s)	94 90 92 87	4 6 5 5	158 150 152 145	(s) (s) (s) (s)	161 153 155 149
December Total	(h) (h)	4 39	(s) 2	35 435	17 209	(s) 2	(s) 5	92 1,091	6 62	150 1,807	(s) 4	154 1,850
2012 January February March April June Iute	(h) (h) (h) (h) (h) (h)	4 3 3 3 3 3	(s) (s) (s) (s) (s) (s) (s)	32 31 35 35 37 37 38	16 16 17 16 18 19 18	(s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S)	87 85 91 90 95 93 93	5 4 5 5 3 4 5	141 137 149 148 154 153 155	(s) (s) (s) (s) (s) (s)	145 142 152 151 157 156 159
July 7-Month Total 2011 7-Month Total	(h)	24 23	(5) 1 1	246 251	120 121	(s) 1	(5) 3 3	635 637	30 38	1,036	(5) 2 3	1,062
2010 7-Month Total	(h)	22	i	242	122	1	3	652	41	1,062	3	1,087

^a Metric tons of carbon dioxide can be converted to metric tons of carbon ^b Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.

d

^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.

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.

(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/monthly/#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 Dioxide^a)

				Petro					
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Non- Biomass Waste ^d	Total ^e
973 Total	812	199	20	2	254	276	NA	NA	1,286
975 Total	824	172	17	(s)	231	248	NA	NA	1.244
980 Total	1,137	200	12	(3)	194	207	NA	NA	1,544
985 Total	1.367	166	6	1	79	86	NA	NA	1,619
	1,548	176	7	3	92	102		6	1,831
990 Total				-			(s)		
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	(s)	10	2,192
999 Total	1,836	260	10	11	76	97	(s)	10	2,204
000 Total	1,927	281	13	10	69	91	(s)	10	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
	1,931	278	12	18	69	98		13	
003 Total							(s)		2,319
004 Total	1,943	297	8	23	69	100	(s)	11	2,352
005 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	(s)	11	2,426
008 Total	1,959	362	5	16	19	40	(s)	12	2,374
009 Total	1,741	373	5	14	14	34	(s)	11	2,159
010 January	170	30	1	1	1	4	(s)	1	204
February	150	26	1	1	1	2	(s)	1	179
			(s)	•				1	
March	143	25	(s)	1	1	2	(s)		171
April	125	25	(s)	1	1	2	(s)	1	154
May	142	30	(s)	1	1	3	(s)	1	176
June	163	38	1	1	2	4	(s)	1	206
July	177	48	1	2	2	4	(s)	1	231
August	177	51	(s)	1	2	3	(s)	1	232
September	148	38	(s)	1	1	2	(s)	1	189
October	132	31	(S)	1	1	2	(s)	1	166
	132	27		1	1	2		1	166
November			(s)	•			(s)		
December	165	31	1	1	1	3	(s)	1	200
Total	1,828	399	6	15	12	33	(s)	11	2,271
11 January	166	29	1	2	1	3	(s)	1	199
February	135	26	(s)	1	1	2	(s)	1	164
March	133	26	(s)	1	1	2	(s)	1	163
April	123	28	(S)	1	1	2	(S)	1	155
Арлі Мау	135	31	(S)	1	1	2	(s)	1	169
	155	38		1	1	2			
June			(s)	•			(s)	1	196
July	173	51	(s)	1	1	3	(s)	1	228
August	170	50	(s)	1	1	2	(s)	1	223
September	141	37	(s)	1	1	2	(s)	1	181
October	128	31	(s)	1	(s)	2	(s)	1	162
November	123	29	(s)	1	(s)	2	(s)	1	155
December	135	33	(s)	1	(s)	2	(s)	1	171
Total	1,718	411	5	14	7	25	(s)	11	2,166
	120	25	(c)	1	1	2	(0)	1	460
12 January	130	35	(s)	1	1	2	(s)	1	168
February	116	35	(s)	1	(s)	2	(s)	1	153
March	106	37	(s)	1	(s)	1	(s)	1	145
April	95	39	(s)	1	(s)	1	(s)	1	136
May	116	44	(s)	1	(s)	1	(s)	1	163
June	132	48	(s)	1	1	2	(s)	1	183
July	160	59	(S)	1	1	2	(s)	1	222
7-Month Total	855	297	2	5	4	11	(s)	6	1,169
011 7 Month Total	1 022	220		0	F	16	(c)	F	1 07
011 7-Month Total 010 7-Month Total	1,022 1.069	230 223	3	8 9	5 8	16 20	(s) (s)	6 6	1,274 1,319

^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.
 Municipal solid waste from non-biogenic sources, and tire-derived fuels.

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

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	143 140	(s) (s)	NA NA	NA NA	143 141	33 40	1 1	109 100	NA NA	(s) (s)	143 141		
1980 Total	232	(s)	NA	NA	232	80	2	150	NA	(s) (s)	232		
1985 Total	252	14	3	NA	270	95	2	168	3	1	270		
1990 Total	208	24	4	NA	237	54	8	147	4	23	237		
1995 Total	222	30	8	NA	260	49	9	166	8	28	260		
1996 Total	229 222	32 30	6 7	NA NA	266 259	51 40	10 10	170 172	6 7	30 30	266 259		
1997 Total 1998 Total	205	30	8	NA	259	36	9	160	8	30	259		
1999 Total	208	29	8	NA	245	37	9	161	8	30	245		
2000 Total	212	27	9	NA	248	39	9	161	9	29	248		
2001 Total	188	33	10	(s)	231	35	9	147	10	31	231		
2002 Total	187	36	12	(s)	235	36	9	144	12	35	235		
2003 Total	188	36	16	(s)	240	38	9	141	16	37	240		
2004 Total	199	35	20	(s)	255	38	10	151	20	36	255		
2005 Total 2006 Total	200 197	37 36	23 31	1 2	261 266	40 36	10 9	150 151	23 33	37 38	261 266		
2007 Total	197	30	39	3	200	38	9	146	41	39	200		
2008 Total	191	40	55	3	289	42	10	140	57	40	289		
2009 Total	177	41	62	3	284	40	10	128	64	41	284		
2010 January	16	4	6	(s)	25	3	1	12	6	4	25		
February	14	3	5	(s)	23	3	1	11	5	3	23		
March	16	4	6	(s)	25	3	1	12	6	4	25		
April	15 15	4 4	6 6	(s)	25 25	3	1	11 11	6 6	3 3	25 25		
May June	15	4	6	(s) (s)	25 25	3	1	11	6	4	25 25		
July	16	4	6	(s)	26	3	1	12	6	4	26		
August	16	4	ő	(s)	26	3	1	12	ĕ	4	26		
September	16	3	6	(s)	25	3	1	12	6	3	25		
October	16	4	6	(s)	26	3	1	12	6	3	26		
November	15	4	6	(s)	25	3	1	12	6	4	25		
December	16	4	6	(s) 2	27	3 39	1	12	6 74	4 42	27 304		
Total	186	43	73	2	304		10	139	74		304		
2011 January February	16 15	4 3	6 6	(s) (s)	26 24	3	1 1	12 11	6 6	3 3	26 24		
March	16	4	6	(s)	24	3	1	12	6	3	24		
April	15	3	6	(3)	25	3	1	11	ĕ	3	25		
May	15	4	6	1	26	3	1	11	7	3	26		
June	16	4	6	1	27	3	1	12	7	3	27		
July	16	4	6	1	26	3	1	12	7	4	26		
August	16	4	7	1	27	3	1	12	7	4	27		
September	15 15	4	6 6	1	26 26	3	1	12 11	7 7	3 3	26 26		
October November	15	4	6	1	26 26	3	1	11	7	3	26 26		
December	16	4	6	1	20	3	1	12	7	4	20		
Total	186	43	73	8	311	40	10	140	80	41	311		
2012 January	16	4	6	(s)	26	3	1	12	6	4	26		
February	15	3	6	1	25	3	1	11	6	3	25		
March	15	4	6	1	26	3	1	11	7	3	26		
April	14	4	6	1	25	3	1	11	7	3	25		
May	15 15	4 4	6 6	1	27 26	3	1	12 11	7 7	3 3	27 26		
June July	15	4	6	1	26 26	3	1	11	7	3	26 26		
7-Month Total	107	25	42	5	180	23	6	80	47	23	180		
2011 7-Month Total 2010 7-Month Total	108 107	25 25	42 41	4 1	179 175	23 23	6 6	81 80	45 42	24 24	179 175		

(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 biogenic sources, landing 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 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. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," 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 (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.

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)

	Pro	Production		Imports			Exports	
	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total
973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
973	5.800	4.049	5.827	5.959	5.884	5.800	5.773	5.774
974 975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748
							••••	
976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745
977	5.800	3.941	5.810	5.908	5.834	5.800	5.796	5.797
978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808
979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832
	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820
981	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
986	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
987	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
990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
991	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
994	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779
995	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
998	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
001	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752
002	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688
003	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740
003	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	5.743
07	5.800	3.701	5.985	5.503	5.862	5.800	5.749	5.724
07	5.800	3.701	5.985	5.503	5.862	5.800	5.762	5.750
	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
011	5.800	3.672	6.008	5.507	5.896	5.800	5.596	5.599
)12 ^E	5.800	3.672	6.008	5.507	5.896	5.800	5.596	5.599

^a Includes lease condensate.
 E=Estimate.
 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 A3. Approximate Heat Content of Petroleum Consumption and Biofuels Production (Million Btu per Barrel)

		Total Pe	Total Petroleum ^a Consumption by 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
1973	5.258	5.689	5.557	5.396	6.245	5.515	3.746	5.253	NA	NA	NA	NA
1974		5.683	5.525	5.394	6.238	5.504	3.730	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
1976		5.672	5.523	5.396	6.251	5.504	3.711	5.253	NA	NA	NA	NA
1977		5.682	5.539	5.401	6.249	5.518	3.677	5.253	NA	NA	NA	NA
1978		5.665	5.536	5.405	6.251	5.519	3.669	5.253	NA	NA	NA	NA
1979	5.365	5.717	5.409	5.429	6.258	5.494	3.680	5.253	NA	NA	NA	NA
1980	5.321	5.751	5.366	5.441	6.254	5.479	3.674	5.253	3.563	6.586	NA	NA
1981	5.283	5.693	5.299	5.433	6.258	5.448	3.643	5.253	3.563	6.562	NA	NA
1982	5.266	5.698	5.247	5.423	6.258	5.415	3.615	5.253	3.563	6.539	NA	NA
1983	5.140	5.591	5.254	5.416	6.255	5.406	3.614	5.253	3.563	6.515	NA	NA
1983	5.307	5.657	5.207	5.418	6.255	5.395	3.599	5.253	3.563	6.492	NA	NA
1984 1985	5.263	5.598	5.199	5.423	6.247	5.395	3.603	5.253	3.563	6.469	NA	NA
1985	5.268	5.632	5.269	5.425	6.257	5.418	3.640	5.253	3.563	6.446	NA	NA
1980	5.208	5.594	5.233	5.420	6.249	5.403	3.659	5.253	3.563	6.423	NA	NA
1988	5.239	5.594 5.597	5.233	5.429	6.249	5.403 5.410	3.659	5.253	3.563	6.423 6.400	NA	NA
1989	5.257	5.549	5.220	5.433	^d 6.240	5.410 5.410	3.683	5.253	3.563	6.400 6.377	NA	NA
1989 1990	5.194											NA
		5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA	
1991	5.094	5.528	5.167	5.441	6.246	5.384	3.614	5.253	3.563	6.332	NA	NA
1992	5.124	5.513	5.168	5.443	6.238	5.378	3.624	5.253	3.563	6.309	NA	NA
1993	5.102	^b 5.505	^b 5.178	^b 5.436	6.230	^b 5.379	3.606	5.253	3.563	6.287	NA	NA
1994	5.098	5.515	5.150	5.424	6.213	5.361	3.635	5.230	3.563	6.264	NA	NA
1995	5.063	5.478	5.121	5.417	6.188	5.341	3.623	5.215	3.563	6.242	NA	NA
1996		5.433	5.114	5.420	6.195	5.336	3.613	5.216	3.563	6.220	NA	NA
1997	4.989	5.391	5.120	5.416	6.199	5.336	3.616	5.213	3.563	6.198	NA	NA
1998		5.365	5.137	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA	NA
1999		5.291	5.092	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
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	4.953	5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	5.433
2005	4.916	5.364	5.178	5.427	6.188	5.365	3.620	5.218	3.563	6.063	5.359	5.433
2006	4.894	5.310	5.160	5.431	6.143	5.353	3.605	5.218	3.563	6.036	5.359	5.433
2007	4.850	5.298	5.127	5.434	6.151	5.346	3.591	5.219	3.563	6.009	5.359	5.433
2008	4.732	5.175	5.149	5.426	6.123	5.339	3.600	5.218	3.563	5.983	5.359	5.433
2009	4.691	5.266	5.018	^c 5.414	6.105	^c 5.301	3.558	5.218	3.563	5.957	5.359	5.433
2010	4.692	5.263	4.988	5.421	6.084	5.297	3.557	5.218	3.561	5.931	5.359	5.433
2011		^E 5.243	^E 4.953	^E 5.424	P 6.062	5.286	3.541	5.218	3.560	5.905	5.359	5.433
2012	^E 4.676	^E 5.243	^E 4.953	^E 5.424	^E 6.062	^E 5.286	^E 3.541	^E 5.218	^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.

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

d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. ^e Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids. ^f Quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

⁹ There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted

factor—quantity-weighted averages of the major components of motor gasoline, including fuel ethanol, are calculated by using heat content values shown in Table 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.

ⁱ 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.

¹ 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 Bu 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.

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

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

Web Page: http://www.eia.gov/totalenergy/data/month//#appendices. 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
973	1.093	1.021	1,020	1.024	1,021	1.026	1.023
974	1,097	1,024	1,020	1,024	1,024	1,027	1,023
975	1,095	1,024	1,024	1,022	1,024	1,027	1,018
	1.093	1.020	1.019	1,023	1.020	1.025	1,014
976 977	1,093	1,020	1,019	1,023	1,020	1,025	1,013
							,
978	1,088	1,019	1,016	1,034	1,019	1,030	1,013
979	1,092	1,021	1,018	1,035	1,021	1,037	1,013
980	1,098	1,026	1,024	1,035	1,026	1,022	1,013
981	1,103	1,027	1,025	1,035	1,027	1,014	1,011
982	1,107	1,028	1,026	1,036	1,028	1,018	1,011
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1,112	1,031	1,031	1,032	1,031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1,107	1,031	1,031	^c 1,028	1,031	1,004	1,019
990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
991	1,108	1,030	1,031	1,025	1,030	1,014	1,022
992	1,110	1,030	1,031	1,025	1,030	1,011	1,018
993	1,106	1,027	1,028	1,025	1,027	1,020	1,016
994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1,106	1,026	1,027	1,021	1,026	1,021	1,011
996	1,109	1,026	1,027	1,020	1,026	1,022	1,011
997	1,107	1,026	1,027	1,020	1,026	1,023	1,011
998	1,109	1.031	1.033	1.024	1.031	1.023	1,011
999	1,107	1.027	1,028	1.022	1.027	1.022	1,006
000	1,107	1,025	1,026	1,021	1,025	1,023	1,006
001	1,105	1,028	1,029	1,026	1,028	1,023	1,010
002	1,103	1,024	1,025	1,020	1,024	1.022	1.008
003	1,103	1,028	1,029	1,025	1,028	1,025	1.009
003	1,103	1,026	1,026	1,027	1,026	1,025	1,009
005	1,104	1,028	1.028	1,028	1.028	1,025	1,009
006	1,104	1,028	1,028	1,028	1,028	1,025	1,009
007	1,103	1,020	1,027	1,027	1,020	1,025	1,009
007	1,102	1,027	1,027	1,027	1,027	1,025	1,009
008	1,101	1.025	1.025	1.025	1.025	1.025	1,009
010	1.097	1,025	1,025	1,025	1,025	1,025	1,009
	E 1,097	^E 1,022	E 1.023	P 1,022	E 1.022	E 1,025	E 1.009
011	- 1,097 E4.007						
012	^E 1,097	^E 1,022	^E 1,023	^E 1,021	^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.

P=Preliminary. E=Estimate. Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. 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			
				с	onsumption					
		Waste	Residential and	Industrial	Sector	Electric				Imports
	Production ^a	Coal Supplied ^b	Commercial Sectors	Coke Plants	Other ^c	Power Sector ^{d,e}	Total	Imports	Exports	and Exports
1973	23.376	NA	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800
1974	23.072	NA	22.479	26.778	22.419	21.781	22.677	25.000	26.700	24.800
1975	22.897	NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1976	22.855	NA	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800
	22.597	NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1977 1978										
	22.248	NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979	22.454	NA	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1980	22.415	NA	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800
1981	22.308	NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1982	22.239	NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
1983	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
984	22.010	NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
986	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	^d 20.898	21.307	25.000	26.160	24.800
1990	21.822	9.303	23,137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
991	21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
992	21.682	10.396	23,105	26.799	22.250	20,709	21.068	25.000	26.161	24.800
993	21.418	10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800
1994	21.394	11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
1995	21.326	11.722	23.112	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996	21.320	12.147	23.011	26.800	22.105	20.545	20.870	25.000	26.174	24.800
1997	21.296	12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
998	21.418	12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
999	21.070	12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000	21.072	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
2002	20.673	12.165	22.962	27.426	22.562	20.238	20.541	25.000	26.062	24.800
2003	20.499	12.360	22.242	27.425	22.468	20.082	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	20.348	12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
	20.310	12.080	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007	20.340	12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008	20.208	12.121	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	19.832	25.000	25.713	24.800
2011 ^P	20.136	11.604	20.724	26.300	20.588	19.370	19.583	25.000	25.645	24.800
2012 ^E	20.136	11.604	20.724	26.300	20.588	19.370	19.583	25.000	25.645	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 the slurry dam and the slurry dam anthracite culm, bituminous gob, and the slurry dam anthracite culm, bituminous gob, and the slur ^b Waste coal (including tine coal, coal obtained from a refuse bank or slurry dam, anthractic culm, bituminous gob, and lightle waste) consumed by the electric power i industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."
 ^c Includes transportation. Excludes coal synfuel plants.
 ^d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
 ^e Electricity-ower sector factors are for anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.
 P=Preliminary. E=Estimate. NA=Not available.

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

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

		Approximate Heat Rates ^a for Electricity Net Generation						
		Fossil	Fuels ^b			Noncombustible	ble	
	Coalc	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}	Nuclear ^h	Renewable Energy ^{g,i}	Heat Content ^j of Electricity ^k	
1973	NA	NA	NA	10.389	10.903	10.389	3,412	
1974	NA	NA	NA	10,389	11,161	10,389	3,412	
975	NA	NA	NA	10,442	11,013	10,406	3,412	
				10,400	11.047	10,400	3,412	
976	NA	NA	NA					
977	NA	NA	NA	10,435	10,769	10,435	3,412	
978	NA	NA	NA	10,361	10,941	10,361	3,412	
979	NA	NA	NA	10,353	10,879	10,353	3,412	
980	NA	NA	NA	10,388	10,908	10,388	3,412	
981	NA	NA	NA	10,453	11,030	10,453	3,412	
982	NA	NA	NA	10,454	11,073	10,454	3,412	
983	NA	NA	NA	10,520	10,905	10,520	3,412	
984	NA	NA	NA	10,440	10,843	10,440	3,412	
985	NA	NA	NA	10,447	10,622	10,447	3,412	
986	NA	NA	NA	10,446	10,579	10,446	3,412	
987	NA	NA	NA	10,419	10,442	10,419	3,412	
988	NA	NA	NA	10,324	10,602	10,324	3,412	
989	NA	NA	NA	10,432	10,583	10,432	3,412	
990	NA	NA	NA	10,402	10,582	10,402	3,412	
991	NA	NA	NA	10.436	10,484	10,436	3.412	
992	NA	NA	NA	10,342	10.471	10,342	3,412	
993	NA	NA	NA	10.309	10.504	10,309	3.412	
994	NA	NA	NA	10,316	10.452	10.316	3.412	
995	NA	NA	NA	10.312	10,507	10,312	3.412	
996	NA	NA	NA	10,340	10,503	10,340	3.412	
997	NA	NA	NA	10,213	10,494	10,213	3.412	
998	NA	NA	NA	10,197	10,491	10,197	3,412	
999	NA	NA	NA	10,137	10,450	10,226	3.412	
.000	NA	NA	NA	10,220	10,430	10,220	3,412	
.000	10,378	10,742	10.051	^b 10,333	10,423	10,333	3,412	
.001	10,378	10,742	9.533	10,333	10,443	10,333	3,412	
002	10,314	10,641	9,333	10,173	10,442	10,173	3,412	
	-, -		-, -	- /	- /	-,	- /	
004	10,331	10,571	8,647	10,022 9,999	10,427 10.436	10,022 9,999	3,412 3.412	
	10,373	10,631	8,551	.,	-,	- ,	- /	
	10,351	10,809	8,471	9,919	10,436	9,919	3,412	
	10,375	10,794	8,403	9,884	10,485	9,884	3,412	
	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	
2010	10,415	10,984	8,185	9,756	10,452	9,756	3,412	
2011	^E 10,415	^E 10,984	^E 8,185	^E 9,756	^E 10,452	^E 9,756	3,412	
2012	E 10,415	E 10,984	^E 8,185	^E 9,756	E 10.452	^E 9,756	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.

Includes antimatile, bitantinuda coal, substantinuda coal, inginar, and, asguming and and a substantinuda coal, substantinuda coal, inginar, and, asguming and a lincludes distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.
 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). ^g 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. ⁱ 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.

^j 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.

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

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. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973–1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, *Petroleum Supply Annual*, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for

previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See Fuel Ethanol (Denatured).

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See **Distillate Fuel Oil**.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal

conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the

Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970.*

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970.*

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement, Annual, 1970*.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **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. 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see **Natural Gas Production, Dry**) and natural gas plant liquids produced (see **Natural Gas Plant Liquids Production**) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, "Coal Distribution Report." Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton.

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Waste Coal Supplied. Calculated annually by EIA by dividing the total heat content of waste coal supplied by the quantity supplied. For 1989–1997, data are from Form EIA-867, "Annual Nonutility Power Producer Report." For 1998–2000, data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility." For 2001 forward, data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms.

Approximate Heat Rates for Electricity

Electricity Net Generation, 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 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 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. 1973–1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1. "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate 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 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. 1973-1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. 1989–2000: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for 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).

U.S. Unit		Equivalent in Metric Units				
1 short ton (2.000 lb)	=	0.907 184 7	metric tons (t)			
	=	1.016 047	metric tons (t)			
	=	0.453 592 37ª	kilograms (kg)			
	=	0.384 647 ^b	kilograms uranium (kgU)			
1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)			
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)			
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)			
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)			
1 British thermal unit (Btu)°	=	1,055.055 852 62ª	joules (J)			
1 calorie (cal)	=	4.186 8ª	joules (J)			
1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)			
32 degrees Fahrenheit (°F)	=	0ª	degrees Celsius (°C)			
212 degrees Fahrenheit (°F)	=	100ª	degrees Celsius (°C)			
	 1 short ton (2,000 lb) 1 long ton 1 pound (lb) 1 pound uranium oxide (lb U₃O₈) 1 ounce, avoirdupois (avdp oz) 1 barrel of oil (bbl) 1 cubic yard (yd³) 1 cubic foot (ft³) 1 U.S. gallon (gal) 1 ounce, fluid (fl oz) 1 cubic inch (in³) 1 mile (mi) 1 yard (yd) 1 foot (ft) 1 inch (in) 1 acre 1 square mile (mi²) 1 square foot (ft²) 1 square inch (in²) 1 British thermal unit (Btu)^c 1 calorie (cal) 1 kilowatthour (kWh) 32 degrees Fahrenheit (°F) 	1 short ton $(2,000 \text{ lb})$ =1 long ton=1 pound (lb)=1 pound uranium oxide (lb U ₃ O ₈)=1 ounce, avoirdupois (avdp oz)=1 barrel of oil (bbl)=1 cubic yard (yd ³)=1 cubic foot (ft ³)=1 cubic foot (ft ³)=1 ounce, fluid (fl oz)=1 cubic inch (in ³)=1 mile (mi)=1 yard (yd)=1 foot (ft)=1 acre=1 square mile (mi ²)=1 square foot (ft ²)=1 square inch (in ²)=1 kilowatthour (kWh)=32 degrees Fahrenheit (°F)=	1 short ton (2,000 lb) = 0.907 184 7 1 long ton = 1.016 047 1 pound (lb) = 0.453 592 37 ^a 1 pound uranium oxide (lb U ₃ O ₈) = 0.884 647 ^b 1 ounce, avoirdupois (avdp oz) = 28.349 52 1 barrel of oil (bbl) = 0.158 987 3 1 cubic yard (yd ³) = 0.764 555 1 cubic foot (ft ³) = 0.028 316 85 1 U.S. gallon (gal) = 3.785 412 1 ounce, fluid (fl oz) = 29.573 53 1 cubic inch (in ³) = 16.387 06 1 mile (mi) = 1.609 344 ^a 1 yard (yd) = 0.304 8 ^a 1 inch (in) = 2.54 ^a 1 acre = 0.404 69 1 square mile (mi ²) = 0.836 127 4 1 square foot (ft ²) = 0.092 903 04 ^a 1 square inch (in ²) = 1.055.055 852 62 ^a 1 calorie (cal) = 1.055.055 852 62 ^a 1 calorie (cal) = 3.6 ^a 32 degrees Fahrenheit (°F) = 0 ^a			

^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	М	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 and 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.