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U.S. Energy Information Administration



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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- Table data (unrounded): Excel and CSV files
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Monthly Energy Review June 2011

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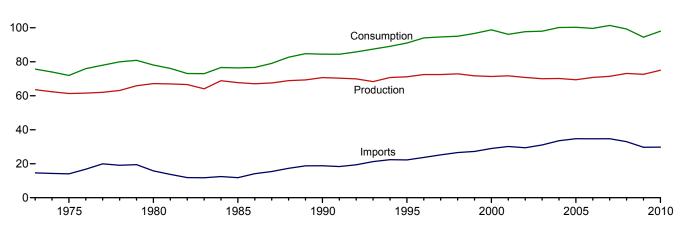
Energy Overview



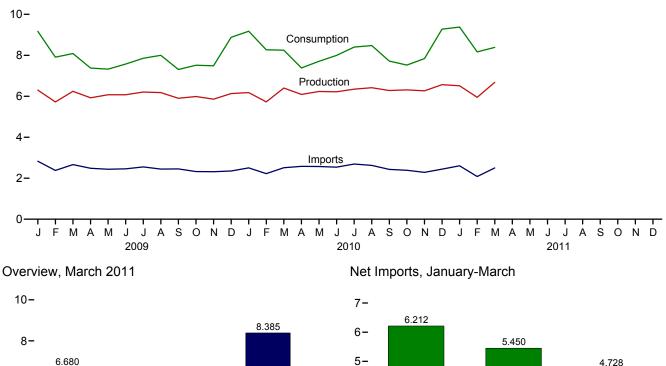
The continental United States at night from orbit. Source: National Oceanic and Atmospheric Administration satellite imagery; mosaic provided by U.S. Geological Survey.

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

Consumption,	Production,	and Imports,	1973-2010
120-			

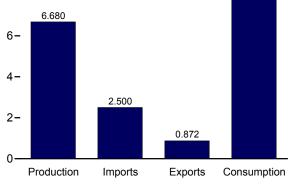


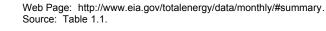
Consumption, Production, and Imports, Monthly



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2009

2010

Table 1.1 Primary Energy Overview

(Quadrillion Btu)

		Produ	uction			Trade		0 (1)	Consumption			
	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
	I ucis	Tower	Lifergy	Total	Importa	Exports	importa	Other	T ucio	Tower	Linergy	Total
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	56.894	8.145	5.734	70.773	29.408	3.669	25.739	1.181	83.747	8.145	5.729	97.693
2003 Total	56.099	7.959	5.982	70.040	31.061	4.054	27.007	.931	84.014	7.959	5.983	97.978
2004 Total	55.895	8.222	6.070	70.188	33.544 34.709	4.434 4.560	29.110	.850 .701	85.805 85.790	8.222 8.161	6.082	100.148
2005 Total	55.038 55.968	8.161 8.215	6.229 6.608	69.427 70.792	34.709	4.560	30.149 29.806	974	84.687	8.215	6.242 6.659	100.277 99.624
2006 Total 2007 Total	55.966 56.447	8.455	6.537	70.792	34.679	4.672	29.000	.703	86.251	8.455	6.551	99.024 101.363
2008 Total	57.482	8.427	7.205	73.114	32.992	7.060	25.932	.222	83.540	8.427	7.190	99.268
2009 January	4.898	.775	.627	6.300	2.829	.598	2.231	.633	7.760	.775	.622	9.165
February	4.506	.672	.545	5.722	2.379	.505	1.874	.312	6.691	.672	.537	7.908
March	4.913	.703	.624	6.240	2.666	.558	2.107	261	6.757	.703	.621	8.086
April	4.654	.621	.649	5.924	2.487	.507	1.980	528	6.097	.621	.653	7.377
May	4.701	.684	.690	6.075	2.437	.537	1.900	651	5.936	.684	.694	7.324
June	4.663	.729	.683	6.075	2.458	.566	1.892	394	6.149	.729	.685	7.573
July	4.799 4.807	.763 .756	.643 .615	6.205 6.178	2.552 2.447	.620 .596	1.932 1.851	283 028	6.433 6.614	.763 .756	.643 .615	7.853 8.001
August	4.647	.688	.568	5.903	2.447	.600	1.855	450	6.043	.750	.567	7.308
September October	4.047	.607	.627	5.903	2.455	.648	1.679	450	6.268	.607	.627	7.513
November	4.750	.618	.642	5.859	2.327	.601	1.716	087	6.224	.618	.637	7.488
December	4.701	.740	.692	6.133	2.353	.629	1.724	1.023	7.443	.740	.686	8.879
Total	56.644	8.356	7.603	72.603	29.706	6.965	22.741	869	78.415	8.356	7.587	94.475
2010 January	4 7 4 0	750	660	6 170	2 505	590	1 016	1 002	7 7 40	750	660	0.476
2010 January February	4.749 4.438	.759 .682	.669 .604	6.178 5.725	2.505 2.223	.589 .554	1.916 1.670	1.083 .873	7.740 6.974	.759 .682	.662 .600	9.176 8.268
March	4.436	.676	.604	5.725 6.404	2.223	.554 .649	1.864	021	6.889	.676	.600	0.200 8.247
April	4.833	.603	.652	6.088	2.577	.680	1.897	604	6.118	.603	.652	7.381
May	4.820	.697	.716	6.233	2.572	.000	1.872	400	6.289	.697	.032	7.705
June	4.754	.714	.748	6.217	2.538	.680	1.858	079	6.521	.714	.752	7.996
July	4.898	.752	.696	6.346	2.692	.711	1.981	.073	6.939	.752	.699	8.399
August	5.012	.749	.656	6.416	2.624	.692	1.932	R.129	7.065	.749	.657	^R 8.477
September	4.940	.726	.616	6.282	2.430	.669	1.762	326	6.374	.726	.616	7.717
October	5.020	.656	.637	6.314	2.387	.708	1.679	468	6.229	.656	.637	7.524
November	4.933	.655	.678	6.266	2.286	.753	1.533	.038	6.504	.655	.675	7.837
December	5.080	.771	.714	6.564	2.443	.787	1.656	1.055	7.782	.771	.714	9.275
Total	58.527	8.441	8.064	75.031	29.792	8.173	21.619	^R 1.353	^R 81.425	8.441	8.049	^R 98.003
2011 January	^R 5.008	.761	.740	^R 6.509	^R 2.605	.835	^R 1.770	^R 1.100	^R 7.884	.761	.724	^R 9.379
February	^R 4.570	.678	.740	^R 5.947	R 2.005	^R .754	R 1.330	.888	R 6.787	.678	.693	^R 8.166
March	5.188	.687	.805	6.680	2.500	.734	1.628	.000	6.895	.687	.095	8.385
3-Month Total	14.767	2.125	2.245	19.137	7.189	2.461	4.728	2.064	21.566	2.125	2.212	25.929
2010 2 Month Total	44.000	0 4 4 0	4 054	40.000	7.044	4 704	E 450	4 005	24 002	0.440	4 00 4	05 000
2010 3-Month Total 2009 3-Month Total	14.238 14.317	2.118 2.150	1.951 1.795	18.306 18.263	7.241 7.874	1.791 1.662	5.450 6.212	1.935 .684	21.603 21.209	2.118 2.150	1.934 1.780	25.692 25.158

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

b See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 c Net imports equal imports minus exports.

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

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

^f Also includes electricity net imports.

R=Revised.

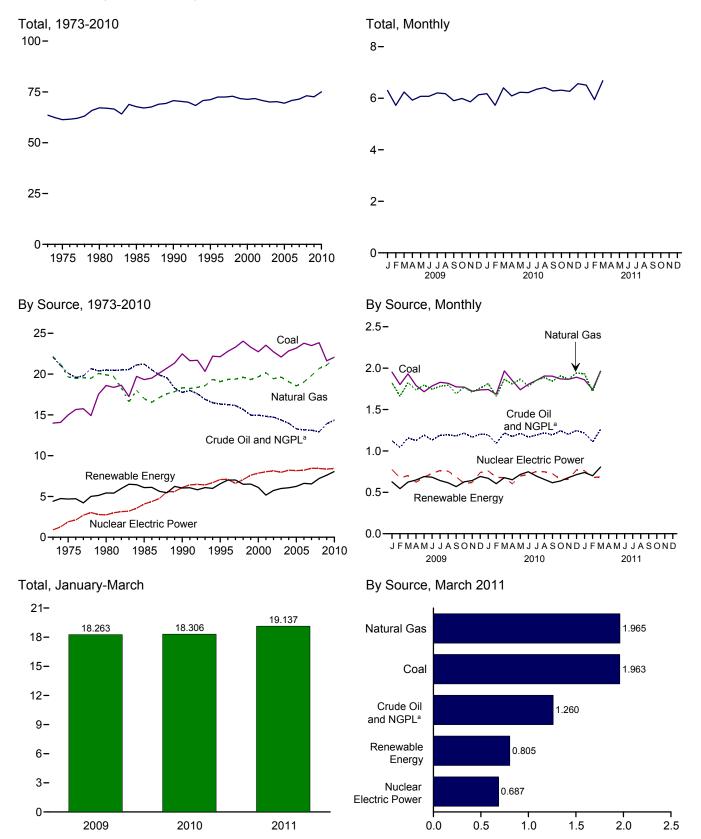
Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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

Beginning with the April 2011 *Monthly Energy Review*, the fossil-fuels heat rate is used as the thermal conversion factor for geothermal electricity net generation in order to treat geothermal electricity net generation similarly to electricity net generation from other non-combustible renewable energy sources—hydroelectric power, wind, photovoltaic, and solar thermal energy. **The technology-based geothermal heat rates are no longer used in Btu calculations in this report**. See Table A6.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids.

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

Table 1.2 Primary Energy Production by Source

(Quadrillion Btu)

		Fo	ssil Fuels						Renewabl	e Energy ^a			
		Natural				Nuclear	Hydro-						1
		Gas	Crude			Electric	electric	Geo-	Solar/		Bio-		
	Coalb	(Dry)	Oilc	NGPLd	Total	Power	Powere	thermal	PV	Wind	mass	Total	Total
973 Total	13.992	22.187	19.493	2.569	58.241	0.910	2.861	0.020	NA	NA	1.529	4.411	63.56
975 Total	14.989	19.640	17.729	2.374	54.733	1.900	3.155	.034	NA	NA	1.499	4.687	61.32
980 Total	18.598	19.908	18.249	2.254	59.008	2.739	2.900	.053	NA	NA	2.475	5.428	67.17
985 Total	19.325	16.980	18.992	2.241	57.539	4.076	2.970	.097	(s)	(s)	3.016	6.084	67.69
990 Total	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.171	.059	.029	2.735	6.041	70.70
995 Total	22.130	19.082	13.887	2.442	57.540	7.075	3.205	.152	.069	.033	3.099	6.558	71.17
996 Total	22.790	19.344	13.723	2.530	58.387	7.087	3.590	.163	.070	.033	3.155	7.012	72.48
997 Total	23.310	19.394	13.658	2.495	58.857	6.597	3.640	.167	.070	.034	3.108	7.018	72.47
998 Total	24.045	19.613	13.235	2.420	59.314	7.068	3.297	.168	.069	.031	2.929	6.494	72.87
999 Total	23.295	19.341	12.451	2.528	57.614	7.610	3.268	.171	.068	.046	2.965	6.517	71.74
000 Total	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.164	.065	.057	3.006	6.104	71.33
001 Total	23.547	20.166	12.282	2.547	58.541	8.029	2.242	.164	.064	.070	2.624	5.164	71.73
002 Total	22.732	19.439	12.163	2.559	56.894	8.145	2.689	.171	.063	.105	2.705	5.734	70.77
003 Total	22.094	19.633	12.026	2.346	56.099	7.959	2.825	.175	.062	.115	2.805	5.982	70.04
004 Total	22.852	19.074	11.503	2.466	55.895	8.222	2.690	.178	.063	.142	2.998	6.070	70.18
005 Total	23.185	18.556	10.963	2.334	55.038	8.161	2.703	.181	.063	.178	3.104	6.229	69.42
006 Total	23.790	19.022	10.801	2.356	55.968	8.215	2.869	.181	.068	.264	3.226	6.608	70.79
007 Total	23.493	19.825	10.721	2.409	56.447	8.455	2.446	.186	.076	.341	3.489	6.537	71.44
008 Total	23.851	20.703	10.509	2.419	57.482	8.427	2.511	.192	.089	.546	3.867	7.205	73.11
09 January	1.953	1.823	.927	.196	4.898	.775	.229	.017	.008	.058	.315	.627	6.30
February	1.802	1.661	.854	.189	4.506	.672	.174	.016	.007	.057	.291	.545	5.72
March	1.932	1.825	.940	.216	4.913	.703	.213	.017	.008	.069	.316	.624	6.24
April	1.791	1.737	.918	.209	4.654	.621	.252	.016	.008	.073	.300	.649	5.92
May	1.715 1.785	1.795 1.746	.967 .919	.224 .213	4.701 4.663	.684 .729	.289 .285	.017 .016	.009 .008	.061 .055	.315 .318	.690 .683	6.07 6.07
June	1.829	1.740	.979	.213	4.003	.729	.205	.010	.008	.033	.318	.643	6.20
July August	1.818	1.795	.974	.218	4.799	.756	.228	.017	.009	.048	.340	.643	6.17
September	1.774	1.690	.974	.220	4.607	.688	.169	.017	.009	.033	.345	.568	5.90
October	1.771	1.770	.989	.217	4.756	.607	.103	.010	.008	.043	.323	.627	5.99
November	1.722	1.711	.944	.220	4.599	.618	.205	.010	.008	.067	.345	.642	5.85
December	1.737	1.760	.980	.224	4.701	.740	.241	.018	.008	.067	.357	.692	6.13
Total	21.627	21.095	11.348	2.574	56.644	8.356	2.669	.200	.098	.721	3.915	7.603	72.60
10 January	1.742	^E 1.812	E.977	.218	4.749	.759	.216	.018	.008	.068	.358	.669	6.17
February	1.686	^E 1.661	^E .887	.204	4.438	.682	.200	.016	.008	.054	.326	.604	5.72
March	1.967	^E 1.865	E.989	.228	5.050	.676	.201	.018	.009	.085	.364	.677	6.40
April	1.850	^E 1.808	^E .956	.218	4.833	.603	.182	.017	.009	.096	.348	.652	6.08
	1.739	^E 1.867	E.983	.230	4.820	.697	.243	.018	.010	.085	.360	.716	6.23
June	1.804	^E 1.782	^E .951	.217	4.754	.714	.288	.018	.010	.078	.355	.748	6.21
July	1.853	^E 1.854	E.972	.220	4.898	.752	.236	.018	.010	.065	.368	.696	6.34
August	1.905	^E 1.888	E.990	.229	5.012	.749	.193	.018	.010	.065	.371	.656	6.41
September	1.903	^E 1.843	_ ^E .969	.225	4.940	.726	.165	.017	.009	.069	.355	.616	6.28
October	1.870	^E 1.906	^E 1.010	.234	5.020	.656	.170	.017	.009	.078	.364	.637	6.31
November	1.865	^E 1.866	_ ^E .973	.228	4.933	.655	.190	.018	.009	.096	.366	.678	6.26
December	1.891	^E 1.942	E 1.011	.235	5.080	.771	.226	.019	.009	.086	.375	.714	6.56
Total	22.077	^E 22.095	^E 11.669	2.686	58.527	8.441	2.509	.212	.109	.924	4.310	8.064	75.03
11 January	^R 1.860	E 1.932	^E .986	.230	^R 5.008	.761	.251	.019	.009	.087	.374	.740	^R 6.50
February	^R 1.741	RE 1.720	^E .911	.198	^R 4.570	.678	.238	.017	.008	.101	.336	.700	^R 5.94
March 3-Month Total	1.963 5.565	E 1.965 E 5.617	^E 1.013 ^E 2.910	.247 .675	5.188 14.767	.687 2.125	.306 .795	.019 .055	.009 .026	.102 .289	.368 1.079	.805 2.245	6.68 1 9.13
010 3-Month Total 009 3-Month Total	5.396 5.686	^E 5.339 5.310	^E 2.853 2.721	.650 .601	14.238 14.317	2.118 2.150	.618 .616	.053 .050	.025 .023	.206 .184	1.049 .922	1.951 1.795	18.30 18.26

^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.

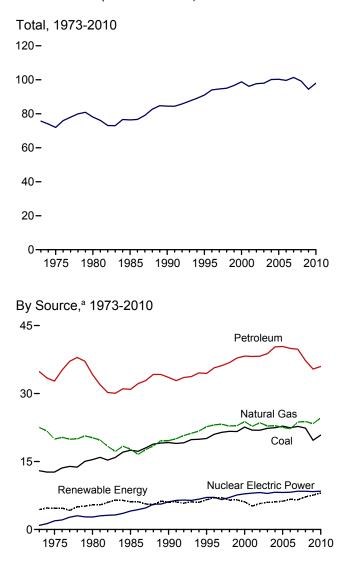
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

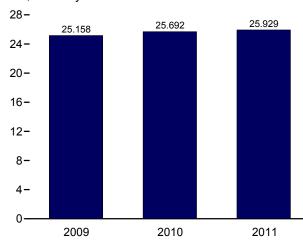
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.

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.

Beginning with the April 2011 *Monthly Energy Review*, the fossil-fuels heat rate is used as the thermal conversion factor for geothermal electricity net generation in order to treat geothermal electricity net generation similarly to electricity net generation from other non-combustible renewable energy sources—hydroelectric power, wind, photovoltaic, and solar thermal energy. **The technology-based geothermal heat rates are no longer used in Btu calculations in this report**. See Table A6.

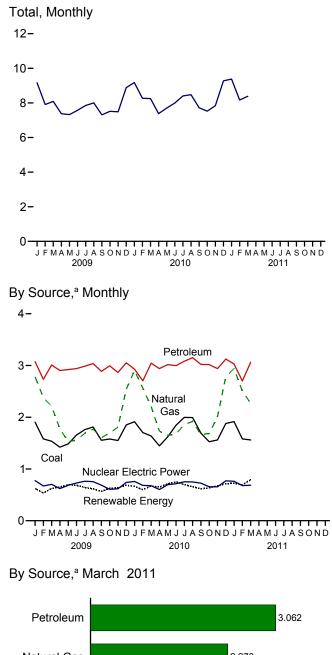
Figure 1.3 Primary Energy Consumption (Quadrillion Btu)





Total, January-March

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



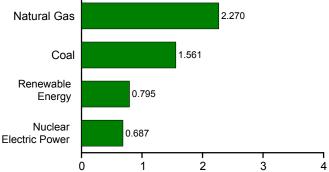


Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels					Renewable	e Energy ^a			
	Cool	Natural Gas ^b	Petro-	Totald	Nuclear Electric	Hydro- electric	Geo-	Solar/ PV	Wind	Bio-	Total	Total ^f
	Coal	Gas	leum ^c	Iotal	Power	Power ^e	thermal	PV	Wind	mass	Total	Total
973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.020	NA	NA	1.529	4.411	75.684
1975 Total	12.663	19.948	32.732	65.357	1.900	3.155	.034	NA	NA	1.499	4.687	71.965
1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA	NA	2.475	5.428	78.067
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.041	84.485
995 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	.065	.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	23.558	38.224	83.747	8.145	2.689	.171	.063	.105	2.701	5.729	97.693
2003 Total	22.321	22.831	38.811	84.014	7.959	2.825	.175	.062	.115	2.807	5.983	97.978
2004 Total	22.466	22.909	40.292	85.805	8.222	2.690	.178	.063	.142	3.010	6.082	100.148
2005 Total	22.797 22.447	22.561	40.388	85.790	8.161	2.703	.181	.063	.178	3.116	6.242	100.277
2006 Total	22.447	22.224 23.702	39.955 39.774	84.687 86.251	8.215 8.455	2.869 2.446	.181 .186	.068 .076	.264 .341	3.276 3.502	6.659 6.551	99.624 101.363
2007 Total 2008 Total	22.385	23.834	37.280	83.540	8.435	2.440	.192	.076	.546	3.852	7.190	99.268
2000 10181	22.303	23.034	57.200	03.540	0.427	2.511	.152	.005	.540	3.032	7.150	33.200
2009 January	1.904	2.783	3.075	7.760	.775	.229	.017	.008	.058	.310	.622	9.165
February	1.582	2.378	2.732	6.691	.672	.174	.016	.007	.057	.283	.537	7.908
March	1.536	2.212	3.010	6.757	.703	.213	.017	.008	.069	.314	.621	8.086
April	1.422	1.774	2.904	6.097	.621	.252	.016	.008	.073	.304	.653	7.377
May	1.486	1.531	2.921	5.936	.684	.289	.017	.009	.061	.319	.694	7.324
June	1.655	1.556	2.939	6.149	.729	.285	.016	.008	.055	.320	.685	7.573
July	1.760	1.689	2.987	6.433	.763	.228	.017	.009	.048	.340	.643	7.853
August	1.811	1.769	3.038	6.614	.756	.191	.017	.009	.053	.346	.615	8.001
September	1.555	1.604	2.886	6.043	.688	.169	.016	.008	.045	.327	.567	7.308
October	1.580	1.698	2.994	6.268	.607	.192	.016	.008	.067	.344	.627	7.513
November	1.550	1.810	2.866	6.224	.618	.205	.017	.008	.067	.340	.637	7.488
December	1.852	2.541	3.052	7.443	.740	.241	.018 .200	.008 .098	.067	.352	.686	8.879
Total	19.692	23.344	35.403	78.415	8.356	2.669	.200	.098	.721	3.899	7.587	94.475
2010 January	1.914	2.901	2.929	7.740	.759	.216	.018	.008	.068	.352	.662	9.176
February	1.704	2.563	2.704	6.974	.682	.200	.016	.008	.054	.322	.600	8.268
March	1.636	2.205	3.045	6.889	.676	.201	.018	.009	.085	.359	.672	8.247
April	1.447	1.730	2.940	6.118	.603	.182	.017	.009	.096	.347	.652	7.381
May	1.621	1.650	3.017	6.289	.697	.243	.018	.010	.085	.358	.714	7.705
June	1.846	1.676	2.998	6.521	.714	.288	.018	.010	.078	.358	.752	7.996
July	1.997	1.859 ^R 1.919	3.082	6.939	.752	.236	.018	.010	.065	.371	.699	8.399 ^R 8.477
August	1.993 1.692	1.662	3.152 3.021	7.065 6.374	.749 .726	.193 .165	.018 .017	.010 .009	.065 .069	.372 .355	.657 .616	* 8.477 7.717
September October	1.692	1.686	3.021	6.229	.726	.165	.017	.009	.069	.355 .364	.616	7.524
November	1.527	2.008	2.940	6.504	.655	.170	.017	.009	.078	.364	.637	7.524
December	1.879	2.008	2.940	6.504 7.782	.055	.190	.018	.009	.096	.303	.075	9.275
Total	20.817	2.783 24.643	35.970	R 81.425	8.441	2.509	.019	.109	.088 .924	4.295	8.049	R 98.003
2011 January	^R 1.914	2.940	3.030	^R 7.884	.761	.251	.019	.009	.087	.359	.724	^R 9.379
February	^R 1.582	2.504	2.701	^R 6.787	.678	.238	.017	.008	.101	.329	.693	^R 8.166
March	1.561	2.270	3.062	6.895	.687	.306	.019	.009	.102	.358	.795	8.385
3-Month Total	5.057	7.714	8.793	21.566	2.125	.795	.055	.026	.289	1.046	2.212	25.929
2010 3-Month Total	5.254	7.669	8.678	21.603	2.118	.618	.053	.025	.206	1.032	1.934	25.692
2009 3-Month Total	5.022	7.373	8.818	21.209	2.150	.616	.050	.023	.184	.907	1.780	25.158

^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

constant, products supprised, including inductal gas plant inducts 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.

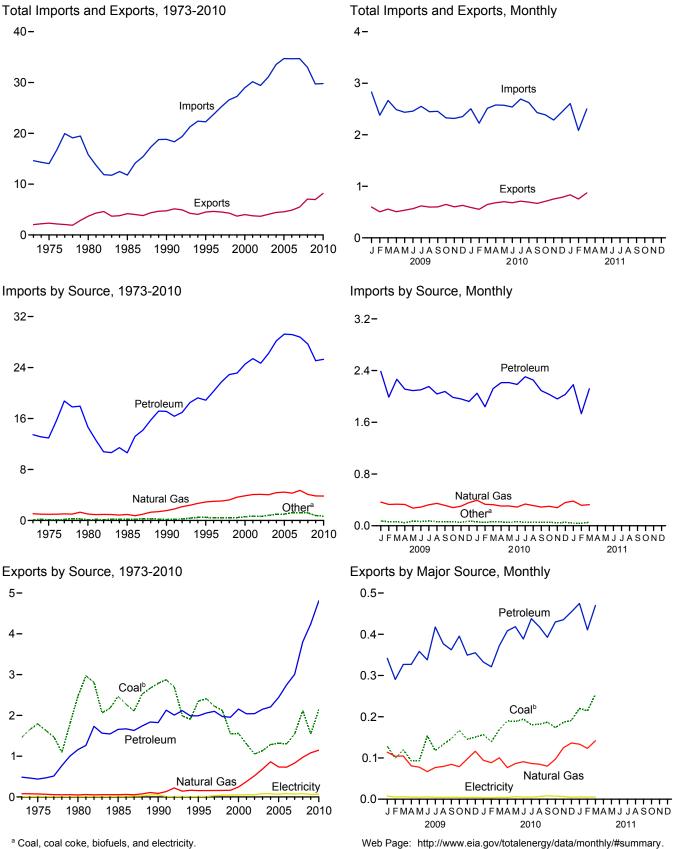
Separately displayed. See Tables 1-4a and 1-4a.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes:
See "Primary Energy Consumption" in Glossary.
Totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all weibelk dust be beinging in 1072

Available data beginning in 1973.
 Sources:

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

Beginning with the April 2011 Monthly Energy Review, the fossil-fuels heat rate is used as the thermal conversion factor for geothermal electricity net generation in order to treat geothermal electricity net generation similarly to electricity net generation from other non-combustible renewable energy sources-hydroelectric power, wind, photovoltaic, and solar thermal energy. The technology-based geothermal heat rates are no longer used in Btu calculations in this report. See Table A6.

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

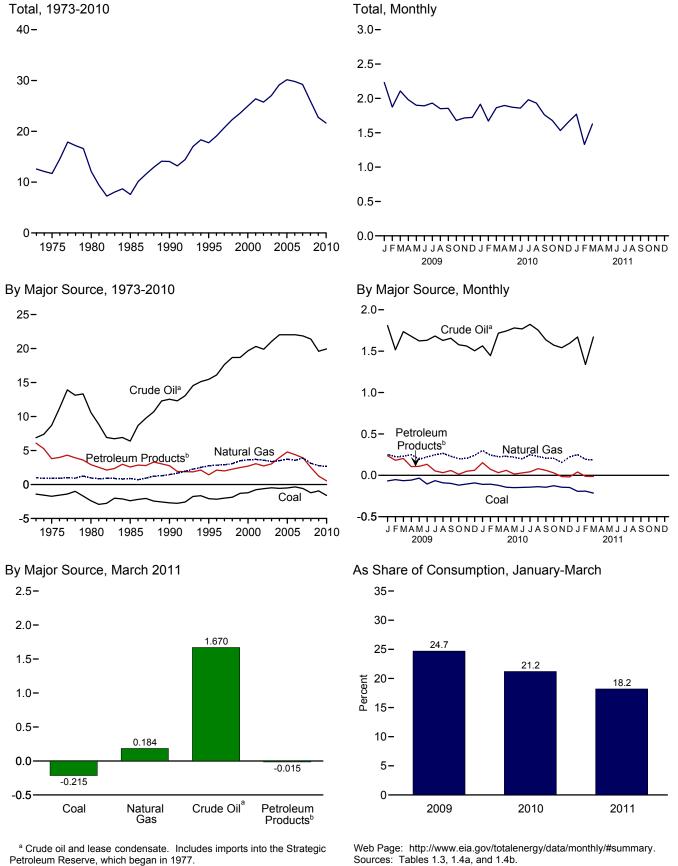


^b Includes coal coke.

Sources: Tables 1.4a and 1.4b.

Figure 1.4b Primary Energy Net Imports

(Quadrillion Btu, Except as noted)



Petroleum Reserve, which began in 1977. ^b Petroleum products, unfinished oils, pentanes plus, and gasoline

blending components. Does not include biofuels.

Table 1.4a Primary Energy Imports by Source

(Quadrillion Btu)

					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuels ^c	Electricity	Total
973 Total	0.003	0.027	1.060	6.887	6.578	13.466	NA	0.057	14.613
975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
990 Total	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
995 Total	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260
996 Total	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702
997 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
998 Total	.218	.095	3.225	18.916	3.992	22.908	(s) (s)	.135	26.581
999 Total	.227	.080	3.664	18.935	4.198	23.133	(s) (s)	.133	27.252
999 Total	.313	.080	3.869	19.783	4.749	24.531		.147	28.973
000 Total							(s)		
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
2003 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
2005 Total	.762	.088	4.450	22.091	7.157	29.248	.012	.150	34.709
2006 Total	.906	.101	4.291	22.085	7.084	29.169	.066	.146	34.679
2007 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 January	.058	.001	.366	1.815	.572	2.387	.003	.015	2.829
February	.046	(s)	.330	1.521	.467	1.989	.001	.013	2.379
March	.054	(s)	.333	1.741	.525	2.266	.002	.010	2.666
April	.033	(s)	.330	1.684	.428	2.112	.001	.011	2.487
May	.057	.001	.272	1.633	.457	2.090	.002	.014	2.437
June	.046	.001	.289	1.641	.462	2,103	.003	.016	2.458
July	.050	.001	.325	1.688	.465	2.153	.004	.019	2.552
August	.039	(s)	.345	1.636	.402	2.038	.004	.020	2.447
September	.046	.001	.315	1.662	.413	2.030	.004	.015	2.455
October	.044	(s)	.280	1.590	.395	1.985	.002	.016	2.327
November	.038	.001	.302	1.570	.391	1.961	.002	.013	2.327
	.054	.001	.358	1.570	.405		.002	.013	2.317
December	.054 .566	.002	.350 3.845	19.699	5.383	1.921 25.082	.001	.018	2.303 29.706
Total	.300	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
010 January	.042	.001	.394	1.570	.480	2.049	(s)	.018	2.505
February	.031	.005	.332	1.456	.385	1.840	(s)	.015	2.223
March	.047	.003	.326	1.725	.396	2.121	(s)	.015	2.513
April	.045	.001	.305	1.750	.462	2.212	(s)	.013	2.577
May	.037	.005	.306	1.786	.427	2.214	.001	.010	2.572
June	.044	.005	.289	1.774	.412	2.185	(s)	.014	2.538
July	.035	.003	.336	1.836	.468	2.304	(s)	.015	2.692
August	.043	.003	.312	1.761	.492	2.254	(s)	.012	2.624
September	.040	.002	.289	1.647	.442	2.089	(s)	.010	2.430
October	.044	.001	.301	1.576	.455	2.031	(s)	.009	2.387
November	.037	(s)	.279	1.547	.414	1.961	(s)	.009	2.286
December	.039	(s)	.360	1.602	.428	2.030	(s)	.014	2.443
Total	.484	.030	3.830	20.030	5.260	25.290	.004	.154	29.792
011 January	.025	.001	.381	1.684	.498	2.181	(s)	.015	^R 2.605
February	.021	.002	^R .316	1.344	.388	1.732	(s)	.013	^R 2.084
March	.038	.004	E.326	1.677	.442	2.119	(s)	.014	2.500
3-Month Total	.085	.007	E 1.024	4.704	1.328	6.032	.001	.041	7.189
010 3-Month Total	.120	.009	1.052	4.750	1.260	6.011	.001	.048	7.241
009 3-Month Total	.158	.002	1.029	5.077	1.564	6.642	.006	.038	7.874

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

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

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. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.3, 10.4, and A2. • Biofuels: Tables 10.3 and 10.4. • Electricity: Tables 7.1 and A6.

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

(Quadrillion Btu)

					Exports					Net Imports ^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	.056	.432	1.225	1.657	NA	.017	4.196	7.584
1990 Total	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
995 Total	2.318	.034	.156	.200	1.791	1.991	NA	.012	4.511	17.750
996 Total	2.368	.040	.155	.233	1.825	2.059	NA	.011	4.633	19.069
997 Total	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
998 Total	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
999 Total	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
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	.018	.686	.026	2.124	2.151	.001	.082	4.054	27.007
2004 Total	1.253	.033	.862	.057	2.151	2.208	.001	.078	4.434	29.110
2005 Total	1.273	.043	.735	.067	2.374	2.442	.001	.065	4.560	30.149
2006 Total	1.264	.040	.730	.052	2.699	2.751	.004	.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
009 January	.126	.003	.114	.007	.335	.342	.006	.008	.598	2.231
February	.098	.001	.104	.005	.286	.290	.006	.005	.505	1.874
March	.118	.002	.105	.005	.321	.327	.001	.006	.558	2.107
April	.090	.003	.081	.005	.322	.327	.001	.005	.507	1.980
May	.091	.002	.078	.009	.349	.358	.002	.005	.537	1.900
June	.151	.002	.067	.010	.328	.338	.002	.006	.566	1.892
July	.115	.003	.077 .079	.006 .006	.412 .371	.418 .377	.003 .002	.005 .005	.620 .596	1.932 1.851
August	.130	.003		.008	.355	.362	.002	.005	.600	1.855
September October	.144 .163	.003 .004	.085 .079	.007	.382	.302	.001	.005	.600	1.679
	.163	.004	.079	.013	.362	.395	.002	.005	.601	1.716
November December	.143	.002	.116	.008	.343	.349	.004	.004	.629	1.724
Total	1.515	.004 .032	1.082	.012 .093	4.147	4.240	.002 .034	.003 .062	6.965	22.741
010 January	.151	.006	.094	.006	.327	.333	.002	.004	.589	1.916
February	.138	.000	.089	.009	.312	.321	.002	.004	.554	1.670
March	.169	(s)	.100	.003	.364	.372	.002	.004	.649	1.864
April	.189	.001	.077	.006	.402	.408	.001	.004	.680	1.897
May	.186	.003	.086	.007	.402	.418	.001	.004	.701	1.872
June	.190	.004	.091	.005	.383	.388	.002	.005	.680	1.858
July	.178	.003	.087	.012	.425	.438	.001	.005	.711	1.981
August	.180	.002	.085	.006	.412	.418	.001	.006	.692	1.932
September	.184	.003	.080	.011	.382	.393	.001	.008	.669	1.762
October	.170	.003	.097	.004	.426	.430	.001	.007	.708	1.679
November	.180	.006	.125	.006	.430	.435	(s)	.006	.753	1.533
December	.186	.005	.136	.007	.447	.454	.001	.005	.787	1.656
Total	2.101	.036	1.147	.088	4.721	4.809	.013	.066	8.173	21.619
011 January	.219	.001	.133	.013	.457	.470	.006	.005	.835	^R 1.770
February	.213	.002	^R .123	.005	.401	.406	.005	.005	^R .754	^R 1.330
March	.253	.001	^E .142	.007	.456	.463	.008	.005	.872	1.628
3-Month Total	.684	.004	^E .398	.024	1.314	1.339	.019	.016	2.461	4.728
010 3-Month Total	.458	.007	.283	.023	1.003	1.026	.005	.012	1.791	5.450
2009 3-Month Total	.342	.006	.323	.017	.942	.959	.014	.019	1.662	6.212

^a Net imports equal imports minus exports.

^b Crude oil and lease condensate.

^c Petroleum products, unfinished oils, pentanes plus, and gasoline blending ^d Through 2010, data are for biodiesel only. Beginning in 2011, data are for

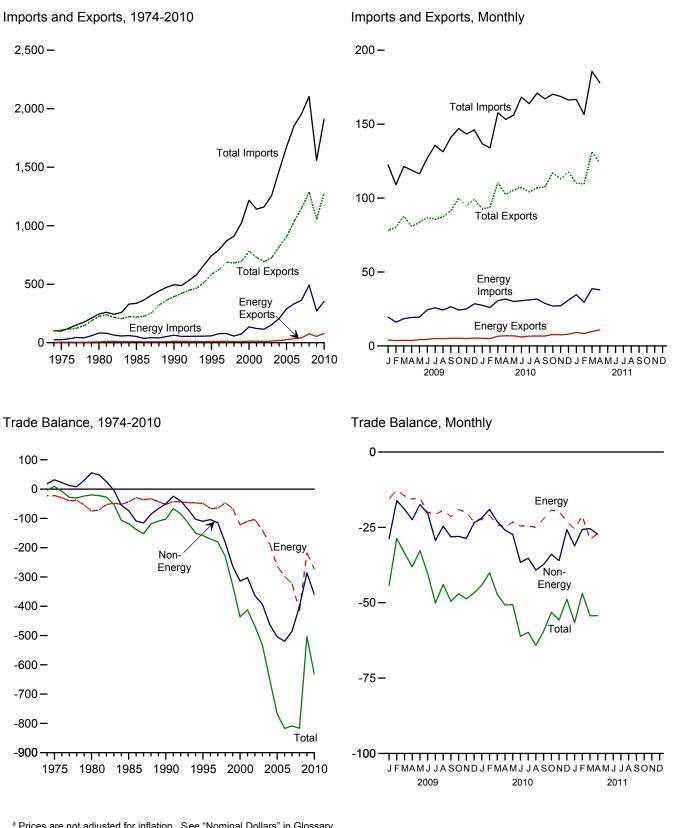
fuel ethanol (minus denaturant) and biodiesel.

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

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

		Petroleum ⁱ) 		Energy ^c	1	Non- Energy		Total Merchandi	se
	Exports	Imports	Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance
974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
995 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
996 Total	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
997 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
998 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
999 Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
003 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350
004 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
005 Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477
006 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304
007 Total	33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763
008 Total	61,695	449,847	-388,152	76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199
009 January	3,029	16,924	-13,895	4,037	19,559	-15,522	-28,742	78,151	122,415	-44,264
February	2,549	14,006	-11,457	3,589	16,120	-12,531	-16,132	80,349	109,012	-28,663
March	2,878	16,658	-13,780	3,835	18,398	-14,563	-18,948	87,848	121,359	-33,511
April	2,988	17,884	-14,896	3,664	19,275	-15,611	-22,462	80,822	118,896	-38,073
May	3,596	18,179	-14,583	4,227	19,484	-15,257	-17,433	83,651	116,341	-32,690
June	3,625	23,119	-19,494	4,459	24,467	-20,008	-20,336	86,830	127,173	-40,344
July	4,390	24,295	-19,905	5,077	25,754	-20,677	-29,384	85,635	135,696	-50,061
August	4,234	23,026	-18,792	4,947	24,312	-19,365	-24,591	87,315	131,272	-43,956
September	4,329	25,259	-20,930	5,152	26,546	-21,394	-28,152	91,458	141,004	-49,546
October	4,359	22,826	-18,467	5,230	24,255	-19,025	-27,996	100,005	147,027	-47,021
November	4,140	23,393	-19,253	4,994	25,047	-20,053	-28,665	94,607	143,324	-48,718
December	4,391	26,264	-21,873	5,326	28,521	-23,195	-23,539	99.372	146,106	-46,734
Total	44,509	251,833	-207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582
010 January	4,093	25,255	-21,162	5,185	27,504	-22,319	^R -21,805	^R 92,601	^R 136,725	^R -44,124
February	3,953	23,685	-19,732	4,995	25,984	-20,989	^R -19,055	^R 93,854	^R 133,898	^R -40,044
March	5,357	28,630	-23,273	6,567	30,705	-24,138	^R -23,079	^R 110,511	^R 157,728	^R -47,217
April	5,703	29,943	-24,240	6,903	31,737	-24,834	^R -25,887	^R 102,443	^R 153,163	^R -50,721
May	5,580	28,558	-22,978	6,832	30,098	-23,266	^R -27,381	^R 105,477	^R 156,124	^R -50,647
June	4,831	28,926	-24,095	6,080	30,600	-24,520	^R -36,600	^R 107,202	^R 168,321	^R -61,120
July	5,469	29,464	-23,995	6,612	31,175	-24,563	^R -35,241	^R 104,057	^R 163,861	^R -59,804
August	5,372	30,109	-24,737	6,712	31,682	-24,970	^R -39,150	^R 106,846	^R 170,966	^R -64,120
September	5,398	27,352	-21,954	6,671	28,810	-22,139	^R -37,295	^R 107,644	^R 167,078	^R -59,434
October	6,069	25,663	-19,594	7,772	26,987	-19,215	^R -33,920	^R 117,104	^R 170,239	^R -53,135
November	6,189	25,958	-19,769	7,508	27,210	-19,702	^R -36,017	^R 113,046	^R 168,765	^R -55,719
December	6,527	29,812	-23,285	7,964	31,049	-23,085	^R -25,728	^R 117,480	^R 166,293	^R -48,813
Total	64,540	333,354	-268,814	79,801	353,540	-273,739	^R -361,158	^R 1,278,263	^R 1,913,160	^R -634,897
011 January	7,330	32,982	-25,652	9,153	34,630	-25,477	-31,114	110,155	166,745	-56,591
February	6,682	27,856	-21,174	8,404	29,597	-21,193	-25,654	109,640	156,487	-46,847
March	7,717	37,076	-29,359	9,803	38,682	-28,879	^R -25,424	^R 131,315	^R 185,618	^R -54,303
April	8,934	36,347	-27,413	10,908	37,982	-27,074	-27,214	123,787	178,075	-54,288
4-Month Total	30,663	134,261	-103,598	38,268	140,891	-102,623	-109,406	474,896	686,925	-212,029
010 4-Month Total	19,106	107,513	-88,407	23,650	115,930	-92,280	-89,826	399,408	581,514	-182,106
009 4-Month Total	11.444	65.472	-54,028	15,125	73,352	-58,227	-86,284	327,170	471,681	-144,511

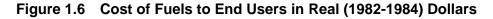
 $^{\rm a}$ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}$ Crude oil, petroleum preparations, liquefied propane and butane, and other

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 the U.S. customs territory, which comprises the follations of the citations from to eight 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.

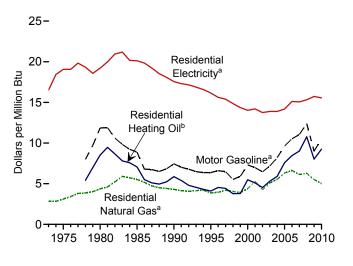
Sources: See end of section.



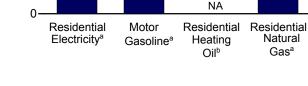
Costs, 1973-2010

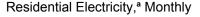
Costs, March 2011

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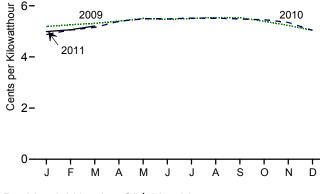


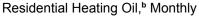
15.27 15-12.95 Dollars per Million Btu 12-9-6-4.46 3-



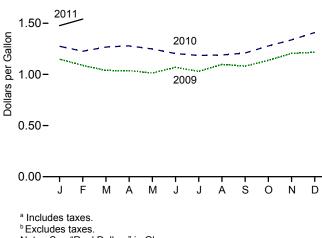


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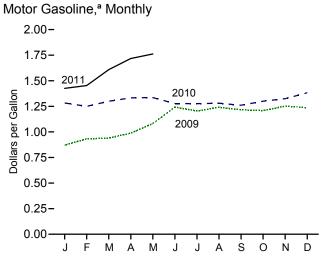


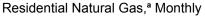


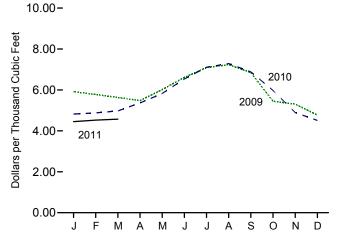
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Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.6.

	Consumer Price Index, All Urban Consumers ^a	Motor G	iasoline ^b		dential ng Oil ^c		lential Il Gas ^b		lential 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	2.91	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
	166.6	0.733	5.91	0.525	3.79	4.02	3.91	4.90	14.36
999 Average		0.733	7.32	0.526	5.49	4.02	4.39	4.90	14.30
000 Average	172.2								
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	4.26	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	6.12	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 January	211.143	0.871	7.01	1.149	8.28	5.92	5.77	5.19	15.20
February	212.193	0.933	7.51	1.088	7.85	5.78	5.64	5.25	15.40
March	212.709	0.940	7.57	1.039	7.49	5.63	5.49	5.31	15.57
April	213.240	0.988	7.95	1.037	7.48	5.48	5.34	5.40	15.82
May	213.856	1.082	8.71	1.013	7.31	6.01	5.87	5.50	16.13
June	215.693	1.243	10.00	1.070	7.71	6.61	6.45	5.47	16.03
July	215.351	1.205	9.70	1.030	7.43	7.09	6.92	5.50	16.13
August	215.834	1.200	9.98	1.098	7.91	7.23	7.06	5.54	16.24
September	215.969	1.240	9.79	1.081	7.79	6.85	6.69	5.53	16.24
	216.177	1.209	9.73	1.137	8.20	5.45	5.32	5.39	15.81
October		1.209							
November	216.330		10.08	1.206	8.69	5.31	5.18	5.22	15.31
December Average	215.949 214.537	1.237 1.119	9.96 9.01	1.217 1.112	8.77 8.02	4.77 5.66	4.65 5.52	5.04 5.37	14.78 15.72
010 January	216.687	1.282	10.32	1.275	9.19	4.82	4.70	4.87	14.28
February	216.741	1.250	10.06	1.226	8.84	4.88	4.76	5.05	14.81
March	217.631	1.300	10.46	1.267	9.13	4.98	4.85	5.15	15.10
April	218.009	1.333	10.73	1.278	9.22	5.37	5.24	5.39	15.81
May	218.178	1.336	10.75	1.248	9.00	5.83	5.68	5.49	16.08
June	217.965	1.277	10.28	1.203	8.68	6.53	6.37	5.48	16.07
July	218.011	1.277	10.27	1.185	8.55	7.11	6.94	5.52	16.17
August	218.312	1.280	10.31	1.190	8.58	7.29	7.11	5.52	16.16
September	218.439	1.261	10.15	1.209	8.72	6.88	6.71	5.48	16.06
October	218.711	1.300	10.46	1.278	9.21	5.98	5.83	5.45	15.99
November	218.803	1.325	10.66	1.337	9.64	4.90	4.78	5.35	15.67
December	219.179	1.383	11.13	1.409	10.16	4.50	4.40	5.04	14.76
Average	218.056	1.301	10.47	1.283	9.25	4.51 5.14	5.01	5.04 5.31	15.56
	220.223	1.425	11.47	1.476	10.64	4.45	4.34	4.99	14.63
011 January									
February	221.309	1.453	11.69	1.540 B NIA	11.11 ^R NA	4.52 ^R 4.57	4.41 B 4.40	5.06	14.83
March	223.467	1.608	12.95	^R NA			^R 4.46	^R 5.21	^R 15.27
April	224.906	1.718	13.83	NA	NA	NA	NA	NA	NA
May	225.964	1.762	14.18	NA	NA	NA	NA	NA	NA

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

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

^b Includes taxes.

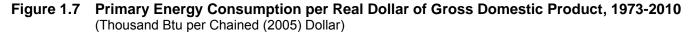
^c Excludes taxes.

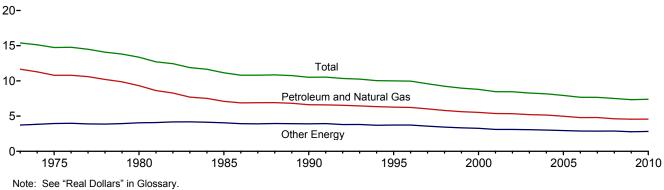
R=Revised. NA=Not available.

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.

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

available data beginning in 1973. Sources: • Fuel Prices: Tables 9.4 (All Types), 9.8c, 9.9, and 9.11, adjusted by the CPI. • Consumer Price Index, All Urban Consumers: U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • Conversion Factors: Tables A1, A3, A4, and A6.





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

	Ener	rgy Consumption	I	Gross	Energy Consum	ption per Real Do	llar of GDF
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total
	(Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu	per Chained (200	5) Dollar
I							
973 Year	57.350	18.334	75.684	4,917.0	11.66	3.73	15.39
74 Year	55.186	18.776	73.962	4,889.9	11.29	3.84	15.13
75 Year	52.680	19.284	71.965	4,879.5	10.80	3.95	14.75
76 Year	55.523	20.452	75.975	5,141.3	10.80	3.98	14.78
77 Year	57.054	20.907	77.961	5,377.7	10.61	3.89	14.50
78 Year	57.963	21.987	79.950	5,677.6	10.21	3.87	14.08
79 Year	57.788	23.070	80.859	5,855.0	9.87	3.94	13.81
80 Year	54.440	23.627	78.067	5,839.0	9.32	4.05	13.37
81 Year	51.680	24.426	76.106	5,987.2	8.63	4.08	12.71
82 Year	48.588	24.511	73.099	5,870.9	8.28	4.17	12.45
83 Year	47.273	25.698	72.971	6.136.2	7.70	4.19	11.89
84 Year	49.447	27.185	76.632	6.577.1	7.52	4.13	11.65
85 Year	48.628	27,764	76.392	6,849.3	7.10	4.05	11.15
36 Year	48.790	27.857	76.647	7,086.5	6.88	3.93	10.82
87 Year	50.504	28.551	79.054	7,313.3	6.91	3.90	10.81
38 Year	52.671	30.038	82.709	7,613.9	6.92	3.95	10.86
89 Year	53.811	30.975	84.786	7.885.9	6.82	3.93	10.75
90 Year	53.155	31.330	84.485	8,033.9	6.62	3.90	10.72
91 Year	52.879	31.559	84.438	8,015.1	6.60	3.94	10.52
92 Year	54.239	31.544	85.783	8,287.1	6.54	3.81	10.33
93 Year	54.973	32.450	87.424	8.523.4	6.45	3.81	10.33
	56.289			- /		3.70	
94 Year		32.803	89.091	8,870.7	6.35		10.04
95 Year	57.110	33.920	91.029	9,093.7	6.28	3.73	10.01
96 Year	58.760	35.262	94.022	9,433.9	6.23	3.74	9.97
97 Year	59.382	35.221	94.602	9,854.3	6.03	3.57	9.60
98 Year	59.646	35.372	95.018	10,283.5	5.80	3.44	9.24
99 Year	60.747	35.905	96.652	10,779.8	5.64	3.33	8.97
00 Year	62.086	36.729	98.814	11,226.0	5.53	3.27	8.80
01 Year	60.958	35.210	96.168	11,347.2	5.37	3.10	8.48
02 Year	61.783	35.911	97.693	11,553.0	5.35	3.11	8.46
03 Year	61.642	36.336	97.978	11,840.7	5.21	3.07	8.27
04 Year	63.201	36.947	100.148	12,263.8	5.15	3.01	8.17
05 Year	62.950	37.328	100.277	12,638.4	4.98	2.95	7.93
06 Year	62.179	37.445	99.624	12,976.2	4.79	2.89	7.68
07 Year	63.476	37.887	101.363	13,228.9	4.80	2.86	7.66
08 Year	61.114	38.155	99.268	13,228.8	4.62	2.88	7.50
09 Year	58.747	35.728	94.475	12,880.6	4.56	2.77	7.33
10 Year	^R 60.614	37.389	^R 98.003	13,248.2	4.58	2.82	7.40

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

Columbia.

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

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts (June 24, 2011), Table 1.1.6.

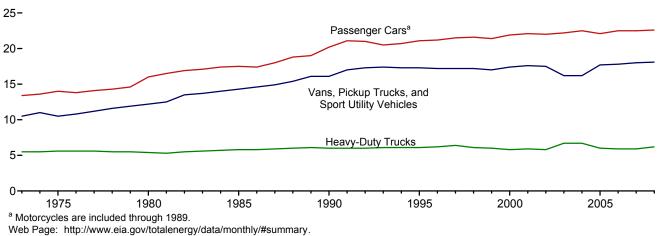


Figure 1.8 Motor Vehicle Fuel Economy, 1973-2008

(Miles per Gallon)

Source: Table 1.8.

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

		Passenger Cars	a		ns, Pickup Truc Sport Utility Veh		He	eavy-Duty Truck	(S ^C	А	II Motor Vehicle	s ^d
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)									
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1979	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	20,337	3,821	5.8	10,020	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,145	694	15.1
1988	9,972	539	18.8	11,465	744	15.4	23,349	3,736	6.0	10,455	688	15.6
1989	^a 10,157	^a 533	^a 19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,137	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,504	501	20.2	12,245	721	17.0	23,003	4,047	6.0	11,294	669	16.9
1992	10,371	517	21.1	12,245	717	17.0	25,373	4,210	6.0	11,558	683	16.9
1992	10,804	517	20.5	12,301	714	17.3	26,262	4,210	6.1	11,595	693	16.7
1993	10,804	531	20.5	12,430	701	17.4	25,838	4,309	6.1	11,683	698	16.7
1994	11,203	530	20.7	12,018	694	17.3	25,838	4,202	6.1	11,793	700	16.8
1995	11,203	530	21.1	11,811	685	17.2	26,092	4,313	6.2	11,813	700	16.9
1990	11,581	539	21.2	12,115	703	17.2	20,092	4,218	6.4	12,107	700	17.0
1997	11,561	539	21.5	12,115	703	17.2	25,397	4,210	6.4 6.1	12,107	721	16.9
1990	11,754	553	21.6	11,957	707	17.2	25,397	4,135	6.0	12,211	721	16.9
2000	11,848	533	21.4	11,672	669	17.4	25,617	4,391	5.8	12,200	732	16.9
2000	11,831	534	21.9	11,204	636	17.4	26,602	4,391	5.9	11,887	695	17.1
2001	12,202	555	22.1	11,204	650	17.6	20,002	4,477	5.9	12,171	719	16.9
2002	12,202	556	22.0	11,364	697	17.5	27,071	4,642	5.8 6.7	12,171	719	16.9
2003	12,325	553	22.2	11,287	690	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	567	22.5	10,920	617	16.2	26,235	4,057 4,385	6.0	12,200	714	17.1
2005	12,510	554	22.1	10,920	612	17.8	26,235 25,231	4,305	5.9	12,062	698	17.1
2006		547	22.5	10,920	609	17.8			5.9 5.9	12,017	693	17.2
2007 2008 ^P	12,304	547 522	22.5		605	18.0	25,152	4,275 4,075	5.9 6.2		693	17.2
2000	11,788	322	22.0	10,951	000	10.1	25,254	4,075	0.2	11,619	007	17.4

^a Through 1989, includes motorcycles.

^b Includes a small number of trucks with 2 axles and 4 tires, such as step vans.

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

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

P=Preliminary.

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

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

Sources: • Passenger Cars, 1990-1994: U.S. Department of Transportation, Bureau of Transportation Statistics, *National Transportation Statistics* 1998, Table 4-13. • All Other Data: • 1973-1994—Federal Highway Administration (FHWA), Highway Statistics Summary to 1995, Table VM-201A. • 1995 forward—FHWA, Highway Statistics, annual reports, Table VM-1.

			Мау				Ju	Cumulative y through M		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2010	2011	Normal to 2011	2010 to 2011	Normala	2010	2011	Normal to 2011	2010 to 2011
New England Connecticut, Maine, Massachusetts, New Hampshire,	201	200	242		22	0.545	0.000	6.470		
Rhode Island, Vermont	281	200	243	-14	22	6,545	6,026	6,478	-1	8
Middle Atlantic New Jersey, New York, Pennsylvania	217	148	158	-27	7	5,872	5,370	5,756	-2	7
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	238	183	230	-3	26	6,447	6,133	6,509	1	6
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	208	223	250	20	12	6,701	6,701	6,831	2	2
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, Virginia, South Carolina, Virginia, West Virginia	61	33	49	NM	NM	2,846	2.987	2,930	3	-2
East South Central	01	00	10			2,010	2,001	2,000		
Alabama, Kentucky, Mississippi, Tennessee	76	36	97	NM	NM	3,597	3,855	3,618	1	-6
West South Central Arkansas, Louisiana, Oklahoma, Texas	17	15	43	NM	NM	2,286	2,650	2,212	-3	-17
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	233	283	286	23	1	5,127	5,204	4,896	-5	-6
Pacific ^b California, Oregon, Washington	182	240	249	37	4	3,152	3,166	3,260	3	3
U.S. Average ^b	159	142	166	4	17	4,485	4,427	4,494	(s)	2

Table 1.9 Heating Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

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

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

Web Pages: • See http://www.eia.gov/totalenergy/data/monthly/#summary for current data. • See http://www.eia.gov/totalenergy/data/annual/#summary for historical data.

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

			Мау					Cumulative ary through		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2010	2011	Normal to 2011	2010 to 2011	Normal ^a	2010	2011	Normal to 2011	2010 to 2011
New England Connecticut, Maine, Massachusetts, New Hampshire,										
Rhode Island, Vermont	6	33	37	NM	NM	6	33	37	NM	NM
Middle Atlantic New Jersey, New York, Pennsylvania	23	64	57	NM	NM	23	71	65	NM	NM
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	49	78	64	NM	NM	51	86	66	NM	NM
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	65	75	65	NM	NM	74	81	71	NM	NM
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	177	266	241	36	-9	360	393	476	32	21
East South Central Alabama, Kentucky,		200								
Mississippi, Tennessee	136	224	184	35	-18	192	252	264	38	5
West South Central Arkansas, Louisiana, Oklahoma, Texas	252	317	308	22	-3	426	444	623	46	40
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	96	63	62	NM	NM	145	84	107	-26	27
Pacific ^b California, Oregon, Washington	36	1	7	NM	NM	56	1	11	NM	NM
U.S. Average ^b	97	131	120	NM	NM	162	174	209	29	20

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. • 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," FT410, December issues. 1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

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

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

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

Petroleum Imports

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

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

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

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

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

Energy Exports and Imports

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

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

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

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

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

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

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

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

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

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

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

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

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

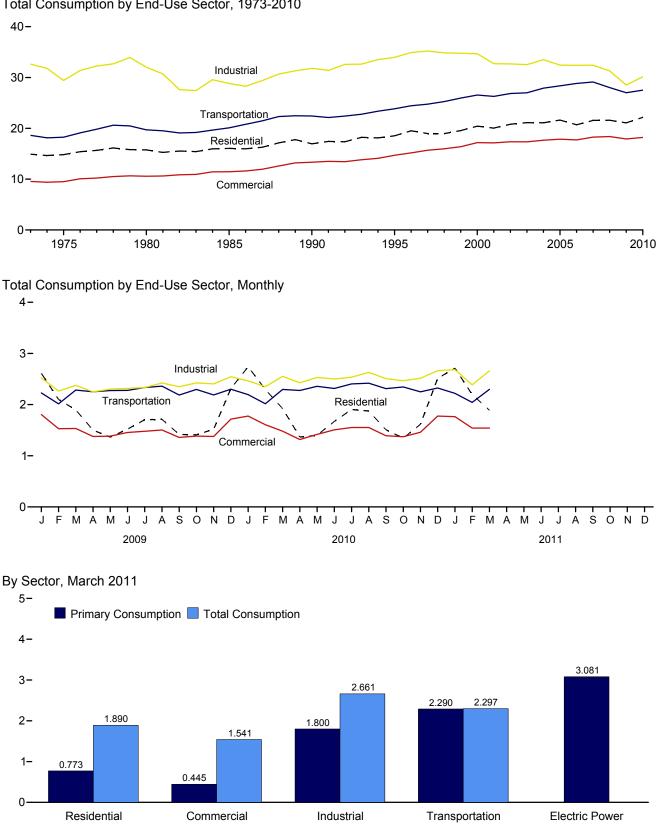




Office buildings, industries, residences, and transport systems, Baltimore, Maryland; east view from the inner harbor. Source: U.S. Department of Energy.

Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2010



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

Table 2.1 Energy Consumption by Sector

(Trillion Btu)

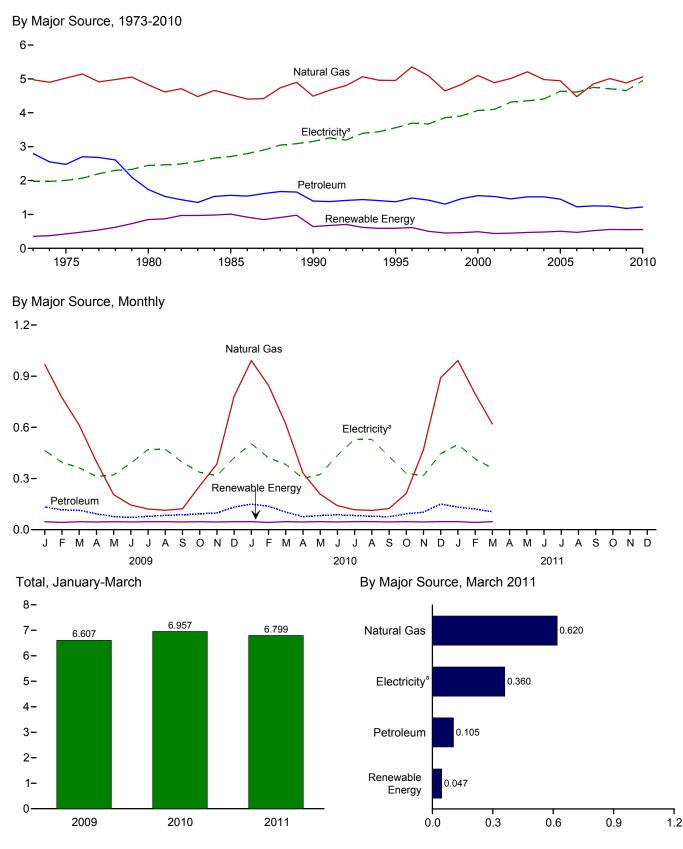
				End-Use	e Sectors				Electric Power		
	Reside	ential	Comme	ercial ^a	Indus	trial ^b	Transpo	rtation	Sector ^{c,d}	Balancing	Primary
	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Item ^g	Total ^h
1973 Total	8,225	14,897	4,423	9,543	24,720	32,623	18,577	18,613	19,731	7	75,684
1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
1980 Total	7,439	15,753	4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
1985 Total	7,148	16,041	3,732	11,451	19,443	28,816	20,041	20,088	26,032	-4	76,392
1990 Total	6,557	16,945	3,896	13,320	21,180	31,810	22,366	22,420	30,495 33,479	-9 3	84,485
1995 Total 1996 Total	6,936 7,466	18,519 19,504	4,101 4,273	14,690 15.172	22,719 23,410	33,971 34,904	23,791 24,383	23,846 24,437	33,479	4	91,029 94,022
1997 Total	7,033	18,965	4,295	15,681	23,686	35,200	24,505	24,457	34,886	6	94.6022
1998 Total	6,413	18,955	4,235	15,968	23,177	34,843	25,201	25,256	36,225	-3	95.018
1999 Total	6,775	19,557	4,053	16,376	22,950	34,764	25,891	25,949	36,976	6	96,652
2000 Total	7,159	20,425	4,278	17,175	22,824	34,664	26,489	26,548	38,062	2	98,814
2001 Total	6,868	20,042	4,084	17,137	21,794	32,720	26,213	26,275	37,215	-6	96,168
2002 Total	6,931	20,810	4,144	17,358	21,813	32,676	26,784	26,845	38,016	5	97,693
2003 Total	7,211	21,110	4,283	17,343	21,503	32,532	26,920	26,994	38,062	-1	97,978
2004 Total	6,993	21,093	4,232	17,659	22,398	33,506	27,817	27,895	38,713	-6	100,148
2005 Total	6,909	21,626	4,051	17,856	21,407	32,442	28,272	28,353	39,638	(s)	100,277
2006 Total	6,178	20,698	3,746	17,710	21,521	32,386	28,751	28,830	39,428	(s)	99,624
2007 Total	6,633	21,565	3,931	18,264	21,395	32,419	29,031	29,119	40,377	-3	101,363
2008 Total	6,817	21,596	4,073	18,381	20,474	31,284	27,925	28,008	39,978	(s)	99,268
2009 January	1,151	2,610	631	1,805	1,717	2,521	2,219	2,227	3,446	1	9,165
February	932	2,101	523	1,528	1,545	2,266	2,009	2,016	2,901 2,988	-3 -4	7,908
March	774	1,896 1,500	453	1,534 1,377	1,598	2,376 2,250	2,277 2,245	2,284 2,251		-4 -1	8,086
April	538 330	1,364	325 228	1,377	1,475 1.476	2,250	2,245	2,251	2,795 3.022		7,377 7,324
May June	261	1,521	192	1,363	1,488	2,302	2,209	2,275	3,359	(s) 2	7,573
July	247	1,321	192	1,478	1,400	2,317	2,327	2,270	3,578	3	7,853
August	245	1.711	194	1.504	1,551	2,303	2,354	2,361	3.653	3	8.001
September	255	1,416	200	1,357	1,544	2,349	2,180	2,186	3,130	(s)	7,308
October	397	1,409	268	1,385	1,607	2,425	2,290	2,296	2,952	-2	7,513
November	528	1,519	324	1,377	1,594	2,405	2,182	2,188	2,860	-1	7,488
December	962	2,315	534	1,717	1,699	2,545	2,294	2,302	3,389	1	8,879
Total	6,619	21,063	4,061	17,899	18,801	28,513	26,916	26,998	38,077	(s)	94,475
2010 January	1,189	2,741	641	1,775	1,677	2,464	2,186	2,194	3,480	3	9,176
February	1,026	2,294	574	1,607	1,595	2,351	2,009	2,016	3,065	-1	8,268
March	770	1,922	436	1,480	1,754	2,552	2,289	2,296	3,001	-3	8,247
April	455	1,366	287	1,317	1,620	2,426	2,269	2,275	2,754	-4	7,381
May	338	1,400	233	1,417	1,619	2,532	2,350	2,357	3,165	-1	7,705
June	274	1,671	202	1,507	1,601	2,500	2,308	2,316	3,608	2	7,996
July	248 8 240	1,904	187 ^R 192	1,552	1,632	2,535	2,397 B 2,412	2,404	3,932	4 4	8,399 8 9 477
August	^R 240 245	1,873 1,508	192	1,551 1,391	1,713 1,678	2,629 2,508	^R 2,413 2,306	2,419 2,312	3,917 3,297	4 -1	^R 8,477 7,717
September October	245 353	1,508	263	1,391	1,678	2,508	2,306	2,312	3,297 2,940	-1 -2	7,717
November	555 617	1,545	372	1,373	1,633	2,400	2,330 2,243	2,344 2,250	2,940	-2 -3	7,524
December	1.089	2,514	596	1,775	1,791	2,662	2,243	2,230	3,484	(s)	9.275
Total	6,841	22,153	4,175	18,205	19,984	30,139	27,425	27,507	39,579	- 2	^R 98,003
2011 January	1,172	2,711	^R 630	^R 1,764	^R 1,853	^R 2.683	2,213	2,220	3.511	^R (s)	^R 9,379
February	^R 961	R 2,198	^R 532	^R 1,542	1,618	2,386	R 2,036	R 2,042	3,021	-3	^R 8,166
March	773	1,890	445	1,541	1,800	2,661	2,290	2,297	3,081	-4	8,385
3-Month Total	2,906	6,799	1,607	4,847	5,272	7,730	6,539	6,560	9,613	-7	25,929
2010 3-Month Total	2,985	6,957	1,651	4,862	5,026	7,367	6,484	6,506	9,546	-1	25,692
2009 3-Month Total	2.858	6,607	1,606	4,867	4,859	7,163	6,504	6,527	9,336	-5	25,158

^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

22 category whose primary pusitiess is to sen electricity, or producing and the public. ^d Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers. ^e See "Primary Energy Consumption" in Glossary. ^f Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 2, "Electrical System Energy Losses," at end of section.

^g A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due to the use of sector-specific conversion factors for coal and natural gas. ^h Primary energy consumption total. See Table 1.3. R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 1.3 and 2.2–2.6.





^a Electricity retail sales.

Note: MER uses "fossil-fuels heat rate" (found in T-2.6). AER uses "fossil-fueled plants heat rate.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption

(Trillion Btu)

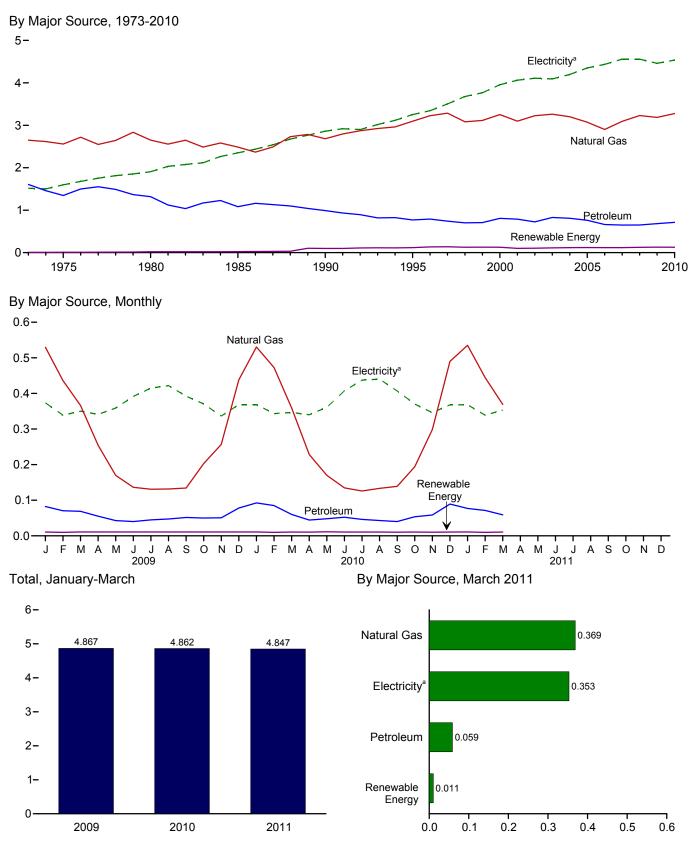
				Prima	ry Consum	otion ^a						
		Fossil	Fuels			Renewat	ole Energy ^b			Electricity	Electrical System	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Retail Sales ^d	Energy Losses ^e	Total
1973 Total	94	4,977	2,800	7,871	NA	NA	354	354	8,225	1,976	4,696	14,897
1975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,817	14,813
1980 Total	31	4,825	1,734	6,589	NA	NA	850	850	7,439	2,448	5,866	15,753
1985 Total 1990 Total	39 31	4,534 4,491	1,565 1.394	6,138 5.916	NA 6	NA 56	1,010 580	1,010 641	7,148 6.557	2,709 3.153	6,184 7.235	16,041 16.945
1995 Total	17	4,491	1,394	6,345	0 7	50 64	520	591	6,936	3,155	8,026	18,519
1996 Total	17	5.354	1,484	6.854	7	65	540	612	7.466	3.694	8.344	19,504
1997 Total	16	5,093	1,422	6,531	8	64	430	502	7,033	3,671	8,261	18,965
1998 Total	12	4,646	1,304	5,962	8	64	380	452	6,413	3,856	8,686	18,955
1999 Total	14	4,835	1,465	6,314	9	63	390	461	6,775	3,906	8,875	19,557
2000 Total	11	5,105	1,554	6,670	9	60	420	489	7,159	4,069	9,197	20,425
2001 Total	12	4,889	1,529	6,430	9	59	370	438	6,868	4,100	9,074	20,042
2002 Total	12	5,014	1,457	6,484	10	57	380	448	6,931	4,317	9,562	20,810
2003 Total	12 11	5,209 4,981	1,519 1,520	6,741 6,513	13 14	57 57	400 410	470 481	7,211 6.993	4,353 4,408	9,546 9,691	21,110 21,093
2004 Total 2005 Total	8	4,961	1,520	6,406	14	57	410	504	6,993	4,408	10,079	21,093
2005 Total	6	4,340	1.224	5,706	18	63	390	472	6.178	4,630	9.909	20.698
2007 Total	8	4,850	1,254	6,111	22	70	430	522	6,633	4,750	10,182	21,565
2008 Total	8	5,010	1,243	6,261	26	80	450	556	6,817	4,708	10,071	21,596
2009 January	1	969	134	1,104	3	8	37	47	1,151	464	995	2.610
February	1	773	116	890	3	7	33	42	932	394	774	2,101
March	1	614	113	727	3	8	37	47	774	364	758	1,896
April	1	399	93	492	3	7	35	45	538	312	650	1,500
May	(s)	206	77	283	3	8	37	47	330	321	713	1,364
June	1	144	71	216	3	7	35	45	261	390	869	1,521
July	1	121 114	78 84	200 198	3 3	8 8	37 37	47 47	247 245	470 472	988 993	1,704 1,711
August September	(s)	122	87	210	3	7	35	47	245	394	993 767	1.416
October	(3)	256	93	350	3	8	37	47	397	336	676	1,409
November	1	385	98	483	3	7	35	45	528	316	674	1,519
December	1	781	133	915	3	8	37	47	962	422	931	2,315
Total	8	4,883	1,176	6,067	33	89	430	552	6,619	4,656	9,789	21,063
2010 January	1	991	149	1,142	3	8	36	47	1,189	505	1,047	2,741
February	1	845	137	983	3	7	32	42	1,026	421	847	2,294
March	1	619	103	723	3	8	36	47	770	383	769	1,922
April	(s)	332	77	409	3	8	35	45	455	301	610	1,366
May	(s)	208 141	83 87	291 229	3 3	8 8	36 35	47 45	338 274	324 436	738 961	1,400 1.671
June July	(s)	141	87	229	3	8	35 36	45 47	274 248	436 531	1,126	1,671
August	(3)	^R 113	79	R 193	3	8	36	47	R 240	529	1,120	1,873
September	(s)	124	76	200	3	8	35	45	245	429	833	1,508
October	1	212	93	306	3	8	36	47	353	330	660	1,343
November	1	468	103	571	3	8	35	45	617	318	681	1,616
December	1	891	150	1,042	3	8	36	47	1,089	445	981	2,514
Total	7	^R 5,061	1,220	6,288	37	97	420	554	6,841	4,950	10,362	22,153
2011 January	1	992	132	1,125	3	8	36	47	1,172	500	1,040	2,711
February	1	797	R 121	^R 919	3	7	32	42	^R 961	415	821	R 2,198
March 3-Month Total	1 2	620 2,408	105 359	726 2,770	3 9	8 24	36 104	47 136	773 2,906	360 1,275	757 2,618	1,890 6,799
2010 3-Month Total	2	2,456	390	2,848	9	24	104	136	2,985	1,308	2,664	6,957
2009 3-Month Total	23	2,456	363	2,040	9	24	104	136	2,965	1,300	2,004	6,607

^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/dat/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.





^a Electricity retail sales.

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

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

					Primary	Consump	tion ^a							
		Fossi	I Fuels			R	enewabl	e Energ	y b			Elec-	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	160	2,649	1,607	4,416	NA	NA	NA	NA	7	7	4,423	1,517	3,604	9,543
1975 Total	147	2,558	1,346	4,051	NA	NA	NA	NA	8	8	4,059	1,598	3,835	9,492
1980 Total	115	2,651	1,318	4,084	NA	NA	NA	NA	21	21	4,105	1,906	4,567	10,578
1985 Total	137	2,488	1,083	3,708	NA	NA	NA	NA	24	24	3,732	2,351	5,368	11,451
1990 Total	124 117	2,682 3.096	991 769	3,798 3.982	1	3 5	_	_	94 113	98 118	3,896 4.101	2,860 3.252	6,564 7.338	13,320 14.690
1995 Total 1996 Total	122	3,096	769	3,962 4,138	1	5 5	_	-	129	135	4,101	3,252	7,555	14,690
1997 Total	129	3,220	743	4,157	i	6	_	_	131	133	4,295	3,503	7,883	15,681
1998 Total	93	3,083	702	3,878	1	7	_	_	118	127	4,005	3,678	8,285	15,968
1999 Total	103	3,115	707	3,925	1	7	_	_	121	129	4,053	3,766	8,557	16.376
2000 Total	92	3,252	807	4,150	1	8	-	-	119	128	4,278	3,956	8,942	17,175
2001 Total	97	3,097	790	3,984	1	8	-	-	92	101	4,084	4,062	8,990	17,137
2002 Total	90	3,225	726	4,040	(s)	9	-	-	95	104	4,144	4,110	9,104	17,358
2003 Total	82	3,261	827	4,170	1	11	-	-	101	113	4,283	4,090	8,969	17,343
2004 Total	103	3,201	809	4,113	1	12	_	_	105	118	4,232	4,198	9,229	17,659
2005 Total 2006 Total	97 65	3,073 2,902	761 663	3,932 3,629	1	14 14	_	_	105 102	119 117	4,051 3,746	4,351 4,435	9,455 9,529	17,856 17,710
2007 Total	70	3.094	649	3,829	1	14	-	_	102	118	3,740	4,435	9,529	18.264
2008 Total	69	3,228	651	3,948	i	15	(s)	_	102	125	4,073	4,558	9,749	18,381
		-,		-,	-		(-)				.,			
2009 January	8	530	82	620	(s)	1	(s)	(s)	9	11	631	374	801	1,805
February	7	436	70	513	(s)	1	(s)	(s)	8	10	523	339	666	1,528
March	6	366	69	442	(s)	1	(s)	(s)	9	11	453	350	731	1,534
April	4	255	55	314	(s)	1	(s)	(s)	9	11	325	341	711	1,377
May	4 5	170 136	43 40	217 181	(s) (s)	1	(s)	(s) (s)	10 9	11 11	228 192	359 392	796 872	1,383 1.456
June July	4	130	40	180	(s) (s)	1	(s) (s)	(s) (s)	10	11	192	415	872	1,450
August	4	132	47	183	(s)	1	(s)	(s)	10	11	194	422	887	1,504
September	4	134	52	190	(s)	1	(s)	(s)	9	10	200	392	765	1,357
October	5	203	50	258	(s)	1	(s)	(s)	9	11	268	371	745	1,385
November	6	257	51	313	(s)	1	(s)	(s)	9	11	324	337	717	1,377
December	6	438	78	523	(s)	1	(s)	(s)	9	11	534	369	814	1,717
Total	63	3,187	682	3,932	1	17	(s)	(s)	112	129	4,061	4,460	9,378	17,899
2010 January	7	531	93	630	(s)	2	(s)	(s)	9	11	641	369	765	1,775
February	6	473	85	564	(s)	1	(s)	(s)	8	10	574	343	690	1,607
March	6	359	60	425	(s)	2	(s)	(s)	9	11	436	347	697	1,480
April	4	228	44	277	(s)	2	(s)	(s)	9	11	287	340	690	1,317
May	4	170	48	222	(s)	2 2	(s)	(s)	10	11	233	361	823	1,417
June	4	135	52	191	(s)	2	(s)	(s)	9	11	202	407	898	1,507
July	4	126	46 43	176 ^R 181	(s)	2	(s)	(s)	9 9	11 11	187 ^R 192	437 440	928 920	1,552
August September	4	133 139	43 40	181	(s) (s)	2 2	(s) (s)	(s) (s)	9	11 10	192	440 407	920 791	1,551 1,391
October	4 5	139	40 54	252	(S) (S)	2	(S) (S)	(s) (s)	9	10	263	370	791	1,373
November	5	299	58	362	(s) (s)	2	(S) (S)	(5)	9	10	372	346	740	1,373
December	6	490	89	585	(s)	2	(s)	_	9	11	596	368	811	1,775
Total	58	3,276	713	^R 4,048	1	19	(s)	(s)	108	127	4,175	4,536	9,495	18,205
2011 Januar	R 7	505	77	Rede	(-)	~	(-)		~		Reco	000	700	R 4 704
2011 January	™7 ^R 6	535 444	77 ^R 71	^R 619 ^R 522	(s)	2 1	(s)	-	9 8	11 10	^R 630 ^R 532	368 339	766 671	^R 1,764 ^R 1,542
February March	6	444 369	59	434	(s) (s)	1	(s) (s)	_ (s)	8	10	445	339	743	1.542
3-Month Total	19	1,349	207	1,575	(s) (s)	5	(s) (s)	(s) (s)	26	31	1,607	1,061	2,180	4,847
2010 3-Month Total	20	1,362	238	1,620	(=) (s)	5	(s)	(s)	27	31	1,651	1,058	2,152	4,862
2009 3-Month Total	20	1,332	230	1,575	(s) (s)	4	(s) (s)	(s)	27	31	1,606	1,063	2,197	4,867

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

^a Nost usid are estimates. See Table 10.24 for Note on estimate 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 to include biofuels.

^a 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

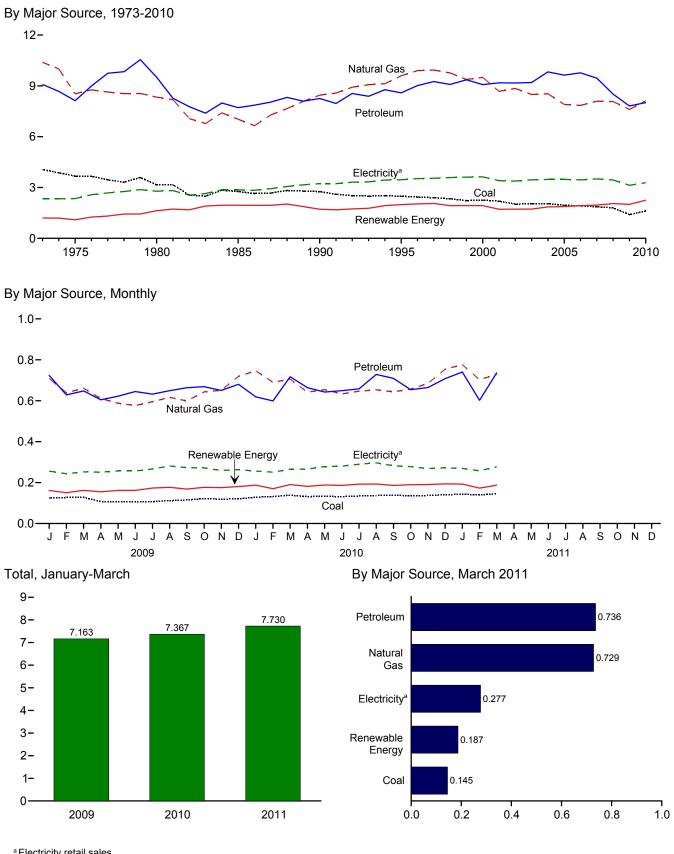
electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of R=Revised. NA=Not available. – =No data reported. (s)=Less than 0.5 trillion

Btu. Notes:

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 tht://www.eia.gov/totalenergy/data/monthly/tteopsumption for

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.





^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)

				Pr	imary Con	sumption	1			_			
		Fossi	I Fuels			Rene	wable En	ergy ^b			-1	-	
	Coal	Natural Gas ^c	Petro- leum ^d	Total ^e	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Elec- tricity Retail Sales ^g	Electrical System Energy Losses ^h	Total ^e
1973 Total	4.057	10.388	9.083	23,521	35	NA	NA	1,165	1,200	24,720	2,341	5,562	32,623
1975 Total	3,667	8,532	8,127	20,339	32	NA	NA	1,063	1,096	21,434	2,346	5,632	29,413
1980 Total	3,155	8,333	9,509	20,962	33	NA	NA	1,600	1,633	22,595	2,781	6,664	32,039
985 Total	2,760	7,032	7,714	17,492	33	NA	NA	1,918	1,951	19,443	2,855	6,518	28,816
1990 Total	2,756	8,451	8,251	19,463	31	2	-	1,684	1,717	21,180	3,226	7,404	31,810
995 Total	2,488	9,592	8,586	20,727	55	3	-	1,934	1,992	22,719	3,455	7,796	33,971
996 Total	2,434	9,901	9,019	21,377	61	3	-	1,969	2,033	23,410	3,527	7,968	34,904
1997 Total	2,395	9,933	9,255	21,629	58	3	-	1,996	2,057	23,686	3,542	7,972	35,200
998 Total	2,335	9,763	9,082	21,248	55	3	-	1,872	1,929	23,177	3,587	8,079	34,843
999 Total	2,227	9,375	9,356	21,016	49	4	-	1,882	1,934	22,950	3,611	8,203	34,764
2000 Total	2,256	9,500	9,075	20,896	42	4	-	1,881	1,928	22,824	3,631	8,208	34,664
2001 Total	2,192	8,676	9,178	20,075	33	5	-	1,681	1,719	21,794	3,400	7,526	32,720
2002 Total	2,019	8,845	9,168	20,093	39	5	-	1,676	1,720	21,813	3,379	7,484	32,676
2003 Total	2,041	8,488	9,197	19,777	43	3	-	1,679	1,726	21,503	3,454	7,575	32,532
2004 Total	2,047	8,536	9,825	20,545	33	4	-	1,817	1,853	22,398	3,473	7,635	33,506
2005 Total	1,954	7,903	9,633	19,534	32	4	-	1,837	1,873	21,407	3,477	7,557	32,442
2006 Total	1,914	7,846	9,770	19,591	29	4	-	1,897	1,930	21,521	3,451	7,415	32,386
2007 Total	1,865	8,090	9,451	19,431	16	5	-	1,944	1,964	21,395	3,507	7,517	32,419
2008 Total	1,796	8,074	8,511	18,422	17	5	-	2,031	2,053	20,474	3,444	7,365	31,284
2009 January	125	709	724	1,555	2	(s)	-	159	161	1,717	256	548	2,521
February	127	639	628	1,394	1	(s)	-	149	151	1,545	243	478	2,266
March	128	661	648	1,435	2	(s)	-	160	162	1,598	252	526	2,376
April	107	611	605	1,320	2	(s)	-	153	155	1,475	251	523	2,250
May	106	588	622	1,314	2	(s)	-	160	162	1,476	257	569	2,302
June	107	576	645	1,326	2	(s)	-	160	162	1,488	257	572	2,317
July	107	596	632	1,333	1	(s)	-	172	173	1,507	266	560	2,333
August	112	616	649	1,374	1	(s)	-	175	177	1,551	281	591	2,423
September	115	599	663	1,376	1	(s)	-	167	168	1,544	273	532	2,349
October	122	643	669	1,430	1	(s)	-	175	177	1,607	272	546	2,425
November	118	651	650	1,419	1	(s)	-	174	175	1,594	259	552	2,405
December	121	719	681	1,518	2	(s)	-	179	181	1,699	264	582	2,545
Total	1,396	7,609	7,816	16,796	18	4	-	1,982	2,005	18,801	3,130	6,582	28,513
2010 January	129	747	619	1,490	2	(s)	(s)	185	187	1,677	256	531	2,464
February	132	690	599	1,425	2	(s)	(s)	168	170	1,595	251	505	2,351
March	138	706	717	1,564	2	(s)	(s)	188	190	1,754	265	533	2,552
April	132	642	664	1,438	2	(s)	(s)	180	182	1,620	266	540	2,426
May	133	654	643	1,431	2	(s)	(s)	186	188	1,619	278	634	2,532
June	132	633	649	1,415	1	(s)	(s)	184	186	1,601	280	618	2,500
July	135	646	658	1,440	1	(s)	(s)	191	192	1,632	289	614	2,535
August	136	653	729	1,520	1	(s)	(s)	192	193	1,713	296	620	2,629
September	139	644	709	1,491	1	(s)	(s)	185	186	1,678	282	548	2,508
October	135	657	654	1,444	1	(s)	(s)	188	189	1,633	278	555	2,466
November	137	684	664	1,480	1	(s)	(s)	189	191	1,670	269	576	2,515
December	140	754	708	1,597	1	(s) 4	(s)	192	194	1,791	272	599	2,662
Total	1,618	8,110	8,013	17,735	16	4	(s)	2,229	2,249	19,984	3,283	6,872	30,139
011 January	^R 144	776	740	^R 1,660	1	(s)	(s)	191	193	^R 1,853	269	560	^R 2,683
February	^R 140	703	^R 602	1,445	2	(s)	(s)	171	173	1,618	258	510	2,386
March	145	729	736	1,613	2	(s)	(s)	185	187	1,800	277	583	2,661
3-Month Total	429	2,208	2,079	4,718	5	1	(s)	548	554	5,272	804	1,654	7,730
2010 3-Month Total 2009 3-Month Total	399 380	2,142 2,009	1,935 2,000	4,478 4,384	5 5	1	(s)	542 469	548 474	5,026 4,859	772 751	1,569 1,552	7,367 7,163

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

^b Most data are estimates. See Table 10.2b for notes on series components and estimation.
 ^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 ^e Includes coal coke net imports, which are not separately displayed. See Tables 1.4b.
 ^f Conventional hydroelectric power.
 ^g Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996 other energy service providers.

beginning in 1996, other energy service providers. ⁿ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are

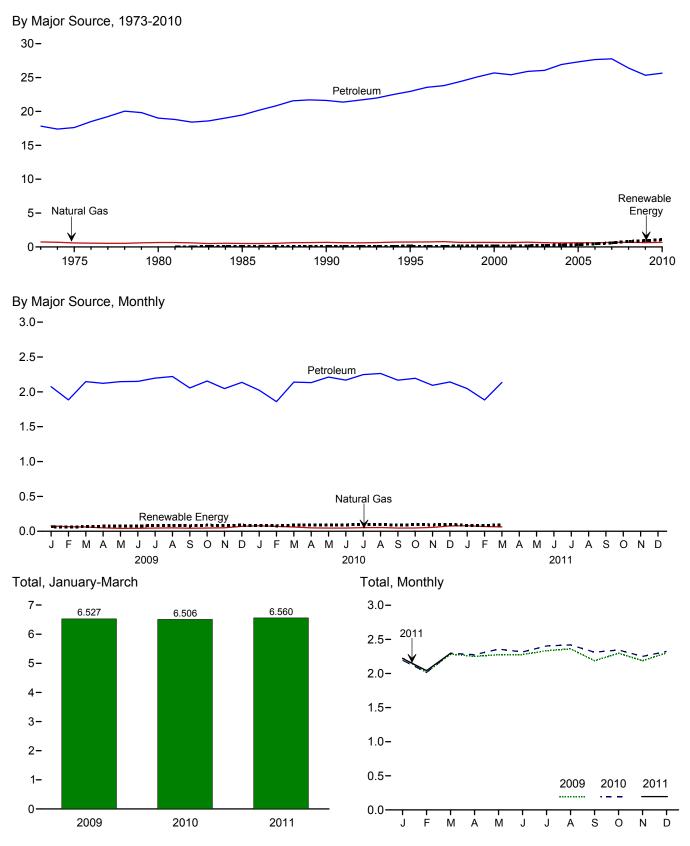
allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section

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

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.





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

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

		Fossi	l Fuels		Renewable Energy ^b	Total	Electricity Retail	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Primary	Sales ^e	Energy 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	(g)	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	(g)	680	21,626	22,306	60	22,366	16	37	22,420
995 Total	(g) (g)	724	22,955	23,679	112	23,791	17	38	23,846
996 Total	(9)	737 780	23,565	24,302	81 102	24,383	17 17	38	24,437
997 Total	(9)	780 666	23,813 24,422	24,593 25,088	102	24,695 25,201	17	38 38	24,750 25,256
998 Total 999 Total	(9)	675	25,098	25,088	113	25,201	17	30 40	25,250
000 Total	(^g)	672	25,682	26,354	135	26,489	18	40	25,949
001 Total	(°)	658	25,002	26,354	142	26,213	20	42	26,546
002 Total	{°	702	25,913	26,614	142	26,784	19	43	26,275
003 Total	(°)	627	26,063	26,690	230	26,920	23	51	26,994
004 Total) a)	602	26,925	27,527	290	27,817	25	54	27,895
005 Total	(g)	624	27,309	27,933	339	28,272	26	56	28,353
006 Total	(g)	625	27,651	28,276	475	28,751	25	54	28.830
007 Total	(g)	665	27,763	28,429	602	29,031	28	60	29,119
008 Total	(g)	692	26,407	27,099	826	27,925	26	56	28,008
09 January	(g)	77	2,075	2,151	67	2,219	3	6	2,227
February	(g)	66	1,885	1,951	58	2,009	2	5	2,016
March	(9)	61	2,146	2,207	70	2,277	2	5	2,284
April	(9)	49	2,123	2,172	73	2,245	2	4	2,251
May	(g)	42	2,147	2,189	79	2,269	2	5	2,275
June	(9)	43	2,150	2,193	78	2,271	2	5	2,278
July	(g)	47	2,197	2,243	83	2,327	2	5	2,334
August	(g)	49	2,220	2,269	85	2,354	2	5	2,361
September	(g)	44	2,056	2,100	80	2,180	2	4	2,186
October	(g)	47	2,156	2,203	88	2,290	2	4	2,296
November	(g)	50	2,047	2,097	85	2,182	2	4	2,188
December	(g)	70 643	2,137	2,207	87 934	2,294	2 27	5 56	2,302
Total	(g)	643	25,339	25,982	934	26,916	27	20	26,998
10 January	(g)	79 70	2,024	2,103	84	2,186	3	5	2,194
February	(9)	70 61	1,859 2,140	1,929 2.201	79 89	2,009 2,289	2	5 5	2,016 2,296
March April	(9)	48	2,140	2,201	88	2,269	2	5	2,290
May	(9)	40	2,132	2,161	91	2,209	2	5	2,275
June	(9)	40	2,168	2,235	93	2,308	2	5	2,337
July	(9)	52	2,248	2,300	97	2,397	2	5	2,404
August	(9)	53	2,263	2,317	96	^R 2,413	2	4	2,419
September	(9)	46	2,168	2,214	92	2,306	2	4	2,312
October	(a)	47	2,195	2,242	96	2,338	2	4	2,344
November	(a)	56	2,094	2,150	94	2,243	2	4	2,250
December	(a)	76	2,142	2,218	99	2,317	2	5	2,324
Total	(g)	682	25,646	26,327	1,098	27,425	26	55	27,507
11 January	(g)	80	2,047	2,127	86	2,213	2	5	2,220
February	(g)	68	^R 1,883	^R 1,952	84	^R 2,036	2	4	^R 2,042
March	(g)	62	2,136	2,198	92	2,290	2	5	2,297
3-Month Total	(g)	211	6,066	6,277	262	6,539	7	14	6,560
010 3-Month Total 009 3-Month Total	(g)	210 203	6,023 6,106	6,232 6,309	252 195	6,484 6,504	7 7	15 15	6,506 6,527

^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,
 ^c Supplemental Gaseous Fuels," at end of Section 4.
 ^d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 ^e Electricity retail sales to ultimate customers reported by electric utilities and, becirise in 1006. et bar energy services

Electricity retail sales to ultimate customers reported by electric ultitues and, beginning in 1996, other energy service providers.
 Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section. ^g Beginning in 1978, the small amounts of coal consumed for transportation are

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)

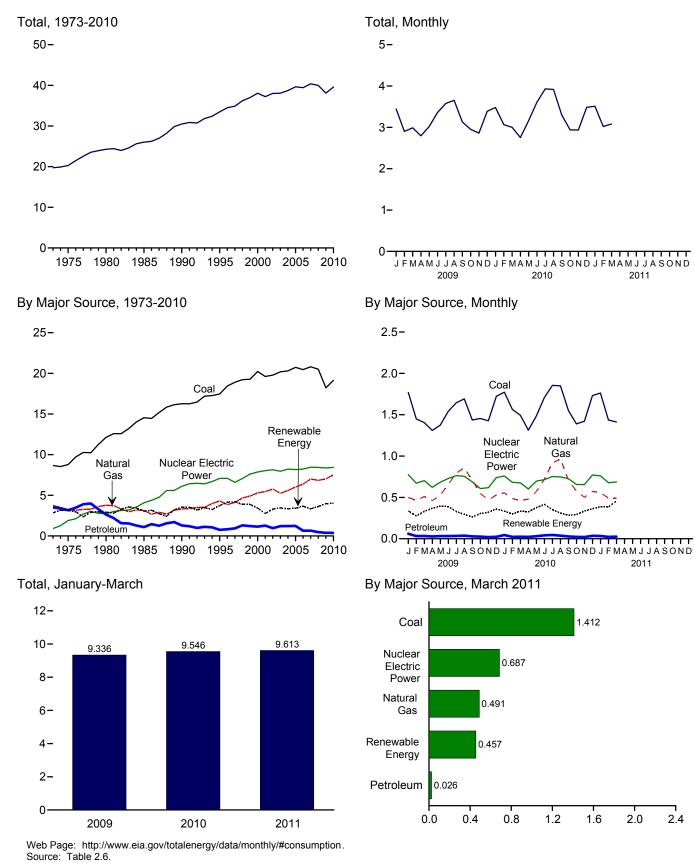


Table 2.6 **Electric Power Sector Energy Consumption**

(Trillion Btu)

						Prima	ry Consum	ption ^a					
		Fossil	Fuels					Renewabl	e Energy ^b				
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Elec- tricity Net Imports	Total Primar
1973 Total	8,658	3,748	3,515	15,921	910	2,827	20	NA	NA	3	2,851	49	19,731
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	34	NA	NA	2	3,158	21	20,270
1980 Total	12,123	3,778	2,634	18,534	2,739	2,867	53	NA	NA	4	2,925	71	24,269
1985 Total		3,135	1,090	18,767	4,076	2,937	97	<u>(s)</u>	<u>(s)</u>	14	3,049	140	26,032
990 Totale	16,261	3,309	1,289	20,859	6,104	3,014	161	4	29	317	3,524	8	30,495
995 Total	17,466	4,302	755	22,523	7,075	3,149	138	5	33	422	3,747	134	33,479
996 Total	18,429	3,862 4.126	817 927	23,109	7,087 6.597	3,528	148 150	5 5	33 34	438 446	4,153	137 116	34,485
997 Total	18,905			23,957		3,581	150	5 5	34 31	446	4,216		34,886
998 Total	19,216	4,675 4,902	1,306	25,197	7,068 7,610	3,241	151	5 5	46	444 453	3,872 3,874	88 99	36,225 36,976
1999 Total	19,279 20,220	5,293	1,211 1,144	25,393 26,658	7,862	3,218 2,768	144	5	40 57	453	3,674	115	38,062
2001 Total	20,220	5,293 5,458	1,144	26,656	8,029	2,766	144	5	57 70	453	2,763	75	36,062
2002 Total	19,614	5,456 5.767	961	26,340	8,029 8,145	2,209	142	6	105	380	3.288	75	38.016
2003 Total	20,185	5,246	1,205	26,636	7,959	2,050	147	5	115	397	3,200	22	38,062
2004 Total	20,305	5,595	1,212	27,112	8,222	2,656	148	6	142	388	3,340	39	38,713
2005 Total	20,737	6,015	1,235	27,986	8,161	2,670	147	Ğ	178	406	3,406	85	39,638
2006 Total	20,462	6,375	648	27,485	8,215	2,839	145	Š	264	412	3,665	63	39,428
2007 Total	20,808	7.005	657	28,470	8,455	2,430	145	6	341	423	3,345	107	40,377
2008 Total	20,513	6,829	468	27,810	8,427	2,494	146	9	546	435	3,630	112	39,978
009 January	1,769	499	61	2,329	775	228	13	(s)	58	37	336	7	3,446
February	1,450	464	33	1,946	672	172	11	(s)	57	34	276	8	2,901
March	1,404	511	34	1,949	703	211	13	(0)	69	38	332	4	2,988
April	1,310	461	28	1,799	621	250	12	1	73	33	369	6	2,795
May	1,375	526	32	1,933	684	287	12	1	61	34	395	9	3,022
June	1.541	656	33	2.230	729	284	12	1	55	37	388	11	3.359
July	1,645	795	34	2,473	763	227	12	1	48	39	328	14	3,578
August	1,691	858	37	2,587	756	190	12	1	53	39	296	15	3,653
September	1,436	705	29	2,169	688	168	12	1	45	36	262	11	3,130
October	1,455	548	26	2,029	607	191	12	1	67	35	305	11	2,952
November	1,426	467	20	1,913	618	204	12	(S)	67	37	320	9	2,860
December	1,723	532	24	2,278	740	240	13	(s)	67	40	360	11	3,389
Total	18,225	7,022	390	25,638	8,356	2,650	146	9	721	441	3,967	116	38,077
010 January	1,773	555	45	2,373	759	214	13	(s)	68	37	333	14	3,480
February	1,564	486	23	2,073	682	198	12	(s)	54	34	298	12	3,06
March	1,493	461	25	1,979	676	199	13	1	85	37	335	10	3,001
April	1,314	480	23	1,817	603	180	12	1	96	36	325	9	2,754
May	1,485	571	31	2,087	697	241	13	2	85	35	376	4	3,165
June	1,708	720	41	2,469	714	286	13	2	78	37	416	8	3,608
July	1,855	917	46	2,818	752	234	13	2	65	38	352	10	3,93
August	1,849	965	37	2,852	749	192	13	2	65	39	310	6	3,91
September	1,550	709	28 22	2,287 1.988	726	164 169	12 12	1	69 79	35	283 294	2	3,29
October	1,389	576 502	22	1,988 1,944	656 655	169 188	12	1	78 96	35 37	294 335	1	2,940 2,93
November December	1,421 1,731	502 574	36	2,341	655 771	224	13	(s)	96 86	37	335	3	2,93
Total	19,133	7,517	378	2,341	8,441	2,492	153	13	924	440	4,022	88	39,579
011 January	1,762	558	34	2.353	761	250	14	(s)	87	37	388	9	3.51
February	1,702	492	23	2,353	678	230	14	(5)	101	34	384	8	3.02
March	1,437	492 491	23 26	1,951	676	236 304	13	1	101	34 36	304 457	o 8	3,021
3-Month Total	4,611	1,541	82	6,234	2,125	790	41	2	289	106	1,229	25	9,613
010 3-Month Total	4,831	1,502	93	6,426	2,118	612	38	1	206	109	967	36	9,546
009 3-Month Total	4,623	1,473	127	6,224	2,150	611	37	1	184	110	943	19	9,336

 ^a See "Primary Energy Consumption" in Glossary.
 ^b See Table 10.2c for notes on series components. b

^c 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. е 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 not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for

all available data beginning in 1973. Sources: Tables 3.8c, 4.3, 6.2, 7.1, 7.2b, 10.2c, A4, A5, and A6.

Beginning with the April 2011 Monthly Energy Review, the fossil-fuels heat rate is used as the thermal conversion factor for geothermal electricity net generation in order to treat geothermal electricity net generation similarly to electricity net generation from other non-combustible renewable energy sources-hydroelectric power, wind, photovoltaic, and solar thermal energy. The technology-based geothermal heat rates are no longer used in Btu calculations in this report. See Table A6.

Energy Consumption by Sector

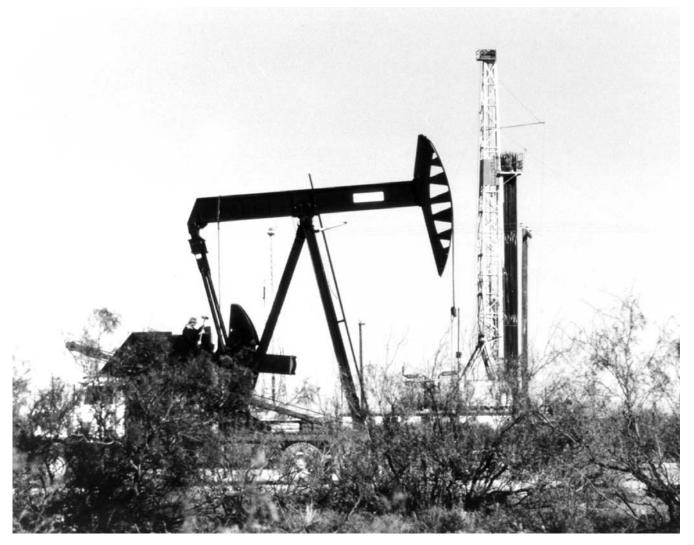
Note 1. Energy Consumption Data and Surveys. Most of the data in this section of the *Monthly Energy Review* (*MER*) are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the U.S. Energy Information Administration (EIA). Supply surveys are directed to suppliers 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 steamelectric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring those thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to enduse consumers (also called "line losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, about two thirds of total energy input is lost in conversion. Currently, of electricity generated, approximately 5 percent is lost in plant use and 7 percent is lost in transmission and distribution.

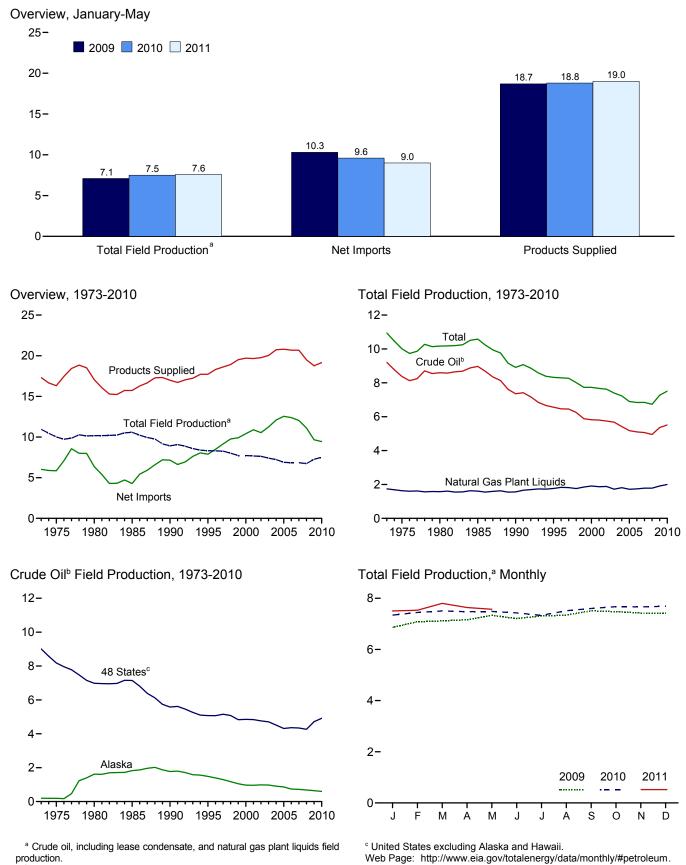


Petroleum



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

Figure 3.1 Petroleum Overview (Million Barrels per Day)



^b Includes lease condensate.

Source: Table 3.1.

Table 3.1 **Petroleum Overview**

(Thousand Barrels per Day)

		Fie	ld Produc	tion ^a		5			Trade				
	48 States ^c	Crude Oil ⁱ Alaska	b Total	NGPL ^{d,e}	Total	Renew- able Fuels and Oxy- genates ^f	Process- ing Gain ^g	lm- ports ^h	Ex- ports ^e	Net Imports ⁱ	Stock Change ^j	Adjust- ments ^k	Petroleum Products Supplied
1973 Average 1975 Average 1980 Average 1985 Average 1990 Average 1995 Average 1997 Average 1998 Average 1999 Average 1997 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2005 Average 2006 Average 2007 Average 2008 Average	9,010 8,183 6,980 7,146 5,582 5,077 4,832 4,851 4,851 4,851 4,761 4,314 4,314 4,314 4,342 4,268	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,1750 970 964 974 908 864 741 722 683	9,208 8,375 8,5971 7,355 6,5605 6,465 5,881 5,881 5,881 5,881 5,845 5,881 5,746 5,681 5,419 5,178 5,178 5,1064 4,950	1,738 1,633 1,573 1,609 1,559 1,762 1,830 1,817 1,759 1,850 1,810 1,811 1,868 1,880 1,719 1,809 1,717 1,739 1,783 1,784	10,946 10,007 10,170 10,581 8,914 8,295 8,269 8,011 7,731 7,673 7,626 7,400 7,626 6,845 6,845 6,847 6,734	NA N	453 460 597 557 683 774 850 886 886 948 903 957 974 9,99 994 999 994 996 993	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 11,459 11,459 11,459 11,530 12,264 13,145 13,714 13,707 13,468 12,915	231 209 544 781 1,003 949 981 1,003 940 1,040 970 984 1,027 1,048 1,165 1,317 1,433 1,802	6,025 5,846 6,365 4,286 7,161 7,886 8,498 9,158 9,764 9,912 10,419 10,900 10,546 11,238 12,097 12,549 12,390 12,036 11,114	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 56 209 145 60 445 60 -148 195	18 41 64 2000 338 496 528 567 501 527 501 527 501 527 501 527 501 527 503 503 503 552	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519 19,701 19,761 19,761 20,034 20,731 20,687 20,680 19,498
2009 January February March April June July September October December December Average	4,475 4,552 4,518 4,621 4,701 4,711 4,851 4,846 4,895 4,842 4,765 4,796 4,796 4,715	679 708 709 653 678 571 551 572 652 658 662 655 645	5,154 5,260 5,227 5,273 5,273 5,273 5,273 5,273 5,281 5,402 5,418 5,547 5,547 5,427 5,451 5,427	1,711 1,824 1,891 1,888 1,954 1,927 1,908 1,920 1,962 1,976 1,996 1,959 1,910	6,865 7,083 7,118 7,161 7,333 7,208 7,310 7,337 7,509 7,477 7,423 7,411 7,270	663 686 684 681 714 741 773 783 771 785 833 838 838 746	950 931 912 982 974 1,038 1,027 961 1,027 961 1,030 979	13,127 12,095 12,446 11,962 11,477 11,936 11,830 11,183 11,756 10,878 11,105 10,534 11,691	1,922 1,808 1,838 1,900 2,015 1,963 2,348 2,119 2,105 2,223 2,029 1,996 2,024	11,205 10,287 10,609 10,061 9,461 9,973 9,064 9,651 8,655 9,076 8,538 9,667	933 394 839 445 488 441 180 -525 488 -748 -374 -1,213 109	290 229 236 231 217 308 256 238 124 177 103 208 218	19,040 18,822 18,719 18,672 18,211 18,828 18,626 18,949 18,594 18,803 18,753 19,237 18,771
2010 January February April May July September October November December Average	E 4,856 E 4,899 E 4,933 E 4,861	E 640 E 635 E 646 E 640 E 569 E 533 E 545 E 538 E 614 E 618 E 606 E 612 E 599	E 5,433 E 5,465 E 5,502 E 5,496 E 5,465 E 5,465 E 5,465 E 5,465 E 5,506 E 5,507 E 5,616 E 5,595 E 5,624 E 5,524 E 5,512	1,910 1,979 2,003 1,980 2,019 1,965 1,927 2,007 2,036 2,057 2,068 2,063 2,001	E 7,343 E 7,444 E 7,505 E 7,475 E 7,486 E 7,486 E 7,480 E 7,430 E 7,513 E 7,602 E 7,673 E 7,662 E 7,687 E 7,687	838 857 889 906 911 909 922 967 961 902	932 1,065 1,064 1,025 1,066 1,074 1,129 1,097 1,043 1,000 1,070 1,203 1,064	11,236 11,148 11,588 12,508 12,100 12,339 12,602 12,341 11,816 11,126 11,088 11,109 11,753	1,883 2,012 2,108 2,369 2,273 2,479 2,368 2,297 2,434 2,546 2,572 2,312	9,352 9,136 9,480 10,119 9,731 10,066 10,123 9,973 9,519 8,692 8,542 8,537 9,440	172 -100 24 831 617 507 446 155 -18 -361 -665 -1,035 48	234 258 157 259 267 345 233 353 415 290 168 334 276	18,528 18,860 19,070 18,910 18,827 19,314 19,692 19,507 18,939 19,074 19,758 19,148
2011 January February March April May 5-Month Average	E 5,000 RE 5,022 E 5,020 E 5,031 E 5,019	E 464 E 611 RE 611 E 602 E 578 E 572	E 5,483 E 5,612 RE 5,633 E 5,622 E 5,609 E 5,591	2,022 1,920 ^R 2,168 ^E 2,015 ^E 1,960 ^E 2,019	E 7,504 E 7,531 RE 7,801 E 7,638 E 7,569 E 7,610	957 941 ^R 956 E 923 E 938 E 943	1,067 980 R 1,027 E 1,024 E 1,060 E 1,033	11,954 10,503 ^R 11,593 ^E 11,459 ^E 11,730 ^E 11,467	2,687 2,575 R 2,660 E 2,247 E 2,196 E 2,472	9,266 7,929 ^R 8,933 ^E 9,213 ^E 9,534 E 8,994	318 -1,069 ^R -126 ^E 19 ^E 631 ^E -26	645 418 R 405 E 272 E 332 E 415	19,121 18,869 R 19,248 E 19,050 E 18,803 E 19,021
2010 5-Month Average 2009 5-Month Average	^E 4,847 4,573	^E 626 685	^E 5,473 5,258	1,978 1,854	^E 7,451 7,112	868 686	1,030 950	11,722 12,225	2,153 1,898	9,569 10,327	313 625	234 241	18,838 18,690

^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 United States excluding Alaska and Hawaii.
 ^d Natural gas plant liquids.
 ^e See Note 6, "Petroleum Data Discrepancies," at end of section.
 ^f Renewable fuels and oxygenate plant net production.
 ^g Refinery and blender net production minus refinery and blender net inputs.
 See Table 3.2.
 ^h Includes Strategic Petroleum Reserve imports. See Table 3.3b.

See Table 3.2.
 ^h Includes Strategic Petroleum Reserve imports. See Table 3.3b.
 ⁱ Net imports equal imports minus exports.
 ^j A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table 3.4. Includes crude oil stocks in the Strategic Petroleum Reserve, but excludes

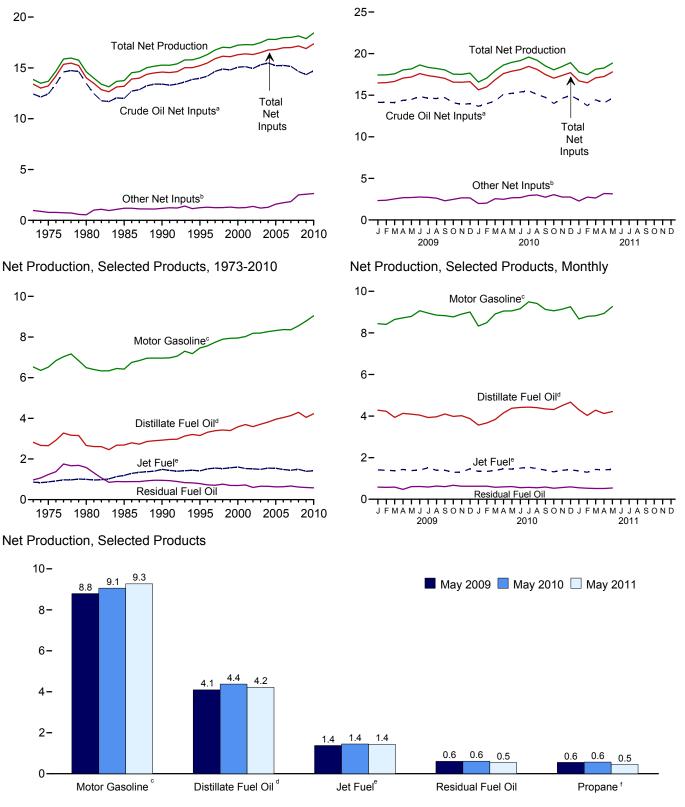
distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also

distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also see Note 4, "Petroleum New Stock Basis," at end of section. ^k An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See U.S. Energy Information Administration (EIA), *Petroleum Supply Monthly*, Appendix B, "PSM Explanatory Notes," for further information. R=Revised. E=Estimate. NA=Not available. Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages: • Totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see thtp://www.eia.gov/totalenergy/data/monthly/#petroleum. • Intervent Statement, Annual, annual reports. • 1976-1980: EIA, Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1976-1980: EIA, Petroleum States, Petroleum Supply Monthly, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system and *Monthly Energy Review* data system calculations.

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

Net Inputs and Net Production, 1973-2010

Net Inputs and Net Production, Monthly



^a Includes lease condensate.

^b Natural gas plant liquids and other liquids.

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

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

f Includes propylene.

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

Table 3.2 Refinery and Blender Net Inputs and Net Production

(Thousand Barrels per Day)

-	Refine	ery and Ble	nder Net I	nputs ^a			Refinery	and Blen	der Net Pro	duction ^D		
							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 1990 Average	12,002 13,409	509 467	681 713	13,192 14,589	2,686 2,925	1,189 1,488	295 404	391 499	6,419 6,959	882 950	2,183 2,452	13,750 15,272
1995 Average	13,403	471	775	15,220	3.155	1,400	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 15,067	372 380	927 849	16,103 16,295	3,399 3,580	1,565 1,606	569 583	684 705	7,934 7,951	698 696	2,709 2,705	16,989 17,243
2000 Average	15,007	429	825	16,382	3,580	1,530	556	667	8,022	721	2,705	17,243
2002 Average	14,947	429	941	16,316	3,592	1,514	572	671	8,183	601	2,712	17,273
2003 Average	15,304	419	791	16,513	3,707	1,488	570	658	8,194	660	2,780	17,487
2004 Average	15,475	422	866	16,762	3,814	1,547	584	645	8,265	655	2,887	17,814
2005 Average	15,220 15.242	441 501	1,149 1,238	16,811	3,954	1,546 1,481	540 543	573 627	8,318 8,364	628 635	2,782 2,827	17,800 17,975
2006 Average 2007 Average	15,242	505	1,230	16,981 16,999	4,040 4,133	1,461	562	655	8,358	673	2,027	17,975
2008 Average	14,648	485	2,019	17,153	4,294	1,493	519	630	8,548	620	2,561	18,146
2009 January	14,146	552	1,777	16,476	4,284	1,409	479	383	8,445	585	2,321	17,426
February	14,134	493	1,883	16,509	4,231	1,391	483	471	8,408	571	2,367	17,440
March	14,118 14,382	447 416	2,089 2,264	16,654 17,062	3,939 4,132	1,373 1,432	519 542	618 782	8,646 8,724	583 475	2,407 2,499	17,566 18,044
April May	14,362	410	2,264	17,002	4,132	1,432	554	798	8,793	605	2,499	18,155
June	14,850	429	2,323	17,602	4,047	1,404	566	847	9,068	613	2,662	18,641
July	14,636	437	2,279	17,352	3,929	1,515	554	809	8,952	586	2,546	18,337
August	14,593	404	2,218	17,214	3,965	1,389	554	838	8,856	631	2,537	18,218
September	14,710 14,095	482 545	1,825 1,933	17,018 16,573	4,099 3,984	1,396 1,291	559 527	624 476	8,829 8,770	604 672	2,493 2,341	18,045 17,535
October November	13,898	609	2,051	16,558	4,018	1,311	550	379	8,905	624	2,341	17,502
December	13,983	580	2,066	16,629	3,877	1,465	554	442	9,006	624	2,246	17,660
Average	14,336	485	2,082	16,904	4,048	1,396	537	623	8,786	598	2,431	17,882
2010 January	13,671	497	1,482 1,623	15,650	3,563	1,339	529	465	8,327	625 630	2,262 2,392	16,581
February March	13,967 14,302	405 397	2,161	15,995 16,860	3,670 3,833	1,343 1,377	562 575	535 710	8,489 8,910	576	2,392	17,060 17,925
April	15,120	363	2,123	17,607	4,152	1,468	585	841	9.053	593	2,525	18,631
May	15,219	385	2,282	17,886	4,375	1,449	567	840	9,059	611	2,618	18,952
June	15,389	384	2,305	18,078	4,416	1,495	572	856	9,165	556	2,665	19,152
July	15,518 15,110	373 384	2,570 2,618	18,461 18,112	4,431 4.404	1,543 1,463	574 552	859 772	9,493 9.417	570 551	2,695 2,603	19,591 19,208
August September	14,741	441	2,018	17,481	4,404	1,403	552	613	9,417	588	2,003	18,524
October	13,999	497	2,551	17,047	4,315	1,317	526	493	9,062	528	2,333	18,047
November	14,629	530	2,221	17,380	4,503	1,394	543	389	9,142	564	2,458	18,450
December	14,962	563	2,192	17,717	4,670	1,417	572	430	9,261	595	2,547	18,920
Average	14,722	435	2,207	17,364	4,226	1,418	559	651	9,046	582	2,506	18,428
2011 January	14,446	543	1,732	16,721	4,305	1,362	560	439	8,671	552	2,459	17,788
February March	13,745 ^R 14,453	517 ^R 454	2,229 ^R 2,183	16,491 ^R 17,090	4,032 ^R 4,284	1,298 ^R 1,435	513 ^R 525	490 ^R 632	8,793 ^R 8,824	529 ^R 519	2,329 ^R 2,424	17,471 ^R 18,117
April	E 14,455	F 422	RE 2.756	^{RF} 17,245	E 4,122	E 1,414	RE 441	F 805	E 8,936	E 517		^{RE} 18,268
May	^E 14,657	F413	E 2,731	^F 17,801	E 4,219	^E 1,437	^E 452	F 847	^E 9,267	^E 541	E 2,551	^E 18,861
5-Month Average		^E 469	^E 2,325	E 17,080	^E 4,196	E 1,391	^E 498	^E 645	^E 8,900	^E 532	^E 2,450	E 18,113
2010 5-Month Average 2009 5-Month Average	14,461 14,254	410 468	1,939 2,058	16,810 16,780	3,922 4,134	1,396 1,397	564 516	680 612	8,771 8,606	607 564	2,464 2,417	17,840 17,730

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

С

d

Natural gas plant liquids (liquefied petroleum gases and pentanes plus). Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981,

f

also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes renewable diesel fuel (including biodiesel). ⁹ Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in oper indicate the second second

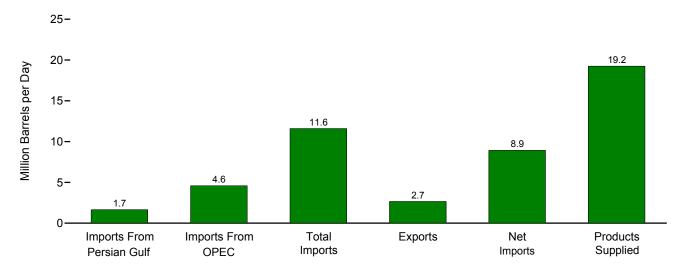
2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Products."

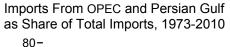
¹ Includes propylene.
 ^j Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

^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/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum 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. • 2010 and 2011: EIA, Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

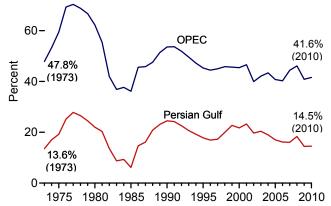
Figure 3.3a Petroleum Trade: Overview

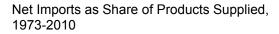
Overview, March 2011

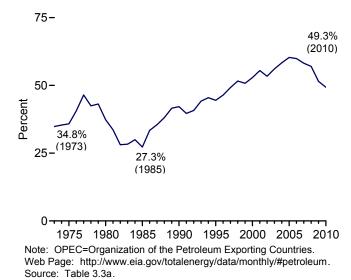




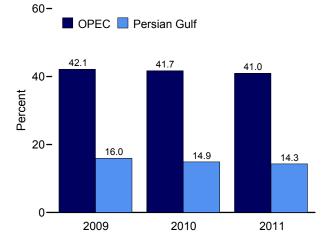








Imports From OPEC and Persian Gulf as Share of Total Imports, January-March



Net Imports as Share of Products Supplied, January-May

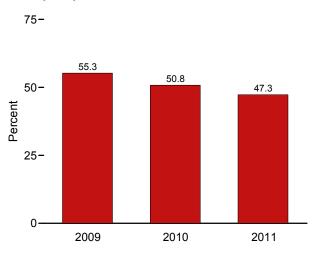


Table 3.3a Petroleum Trade: Overview

									are of Supplied			nare of mports
	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^b
			Thousand Ba	rrels per Day	/				Per	rcent		
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	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
001 Average	2,761	5,528	11,871	971 984	10,900	19,649	14.1 11.5	28.1 23.3	60.4 58.3	55.5 53.4	23.3 19.7	46.6 39.9
002 Average	2,269 2,501	4,605 5,162	11,530 12,264	984 1,027	10,546 11,238	19,761 20,034	11.5 12.5	23.3	58.3 61.2	53.4 56.1	19.7 20.4	39.9 42.1
2003 Average	2,501	5,162	12,264	1,027	11,238	20,034 20,731	12.5	25.8 27.5	63.4	58.4	20.4 19.0	42.1
2004 Average 2005 Average	2,493 2,334	5,701	13,145	1,048	12,097	20,731	12.0	27.5	63.4 65.9	58.4 60.3	19.0	43.4
2006 Average	2,334	5,587	13,707	1,317	12,349	20,602	10.7	26.7	66.3	59.9	16.1	40.7
007 Average	2,163	5,980	13,468	1,433	12,036	20,680	10.7	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 January	2,218	5,689	13,127	1,922	11,205	19,040	11.6	29.9	68.9	58.9	16.9	43.3
February	1,974	4,958	12,095	1,808	10,287	18,822	10.5	26.3	64.3	54.7	16.3	41.0
March	1,823	5,212	12,446	1,838	10,609	18,719	9.7	27.8	66.5	56.7	14.6	41.9
April	1,735	4,803	11,962	1,900	10.061	18,672	9.3	25.7	64.1	53.9	14.5	40.2
May	1,548	4,372	11,477	2,015	9,461	18,211	8.5	24.0	63.0	52.0	13.5	38.1
June	1,602	4,825	11,936	1,963	9,973	18,828	8.5	25.6	63.4	53.0	13.4	40.4
July	1,730	4,554	11,830	2,348	9,482	18,626	9.3	24.4	63.5	50.9	14.6	38.5
August	1,428	4,530	11,183	2,119	9,064	18,949	7.5	23.9	59.0	47.8	12.8	40.5
September	1,718	5,052	11,756	2,105	9,651	18,594	9.2	27.2	63.2	51.9	14.6	43.0
October	1,545	4,581	10,878	2,223	8,655	18,803	8.2	24.4	57.9	46.0	14.2	42.1
November	1,606	4,585	11,105	2,029	9,076	18,753	8.6	24.5	59.2	48.4	14.5	41.3
December	1,362	4,171	10,534	1,996	8,538	19,237	7.1	21.7	54.8	44.4	12.9	39.6
Average	1,689	4,776	11,691	2,024	9,667	18,771	9.0	25.4	62.3	51.5	14.4	40.9
010 January	1,546	4,503	11,236	1,883	9,352	18,528	8.3	24.3	60.6	50.5	13.8	40.1
February	1,666	4,587	11,148	2,012	9,136	18,860	8.8	24.3	59.1	48.4	14.9	41.1
March	1,842	5,068	11,588	2,108	9,480	19,070	9.7	26.6	60.8	49.7	15.9	43.7
April	2,026	5,414	12,508	2,389	10,119	18,910	10.7	28.6	66.1	53.5	16.2	43.3
May	1,724	5,024	12,100	2,369	9,731	18,827	9.2	26.7	64.3	51.7	14.3	41.5
June	1,972	5,263	12,339	2,273	10,066	19,314	10.2	27.2	63.9	52.1	16.0	42.7 40.8
July	1,679 1,663	5,144 5,083	12,602 12,341	2,479 2,368	10,123 9,973	19,278 19,692	8.7 8.4	26.7 25.8	65.4 62.7	52.5 50.6	13.3 13.5	40.8 41.2
August	1,603	5,065	12,341	2,300	9,973	19,692	8.7	25.0	60.6	50.6 48.8	13.5	41.2
September October	1,698	4,294	11,816	2,297 2,434	9,519 8,692	19,507	8.7 7.8	26.2	60.6 58.7	48.8 45.9	14.4	43.3 38.6
November	1,479	4,294 4,517	11,088	2,434 2,546	8,542	19,074	7.0 8.7	22.7	58.1	45.9 44.8	13.3	30.0 40.7
December	1,564	4,517	11,000	2,540	8,537	19,074	7.9	23.4	56.2	44.8	14.9	40.7
Average	1,708	4,885	11,753	2,312	9,440	19,148	8.9	25.5	61.4	4 3.2 49.3	14.5	41.6
011 January	1.719	4.872	11.954	2.687	9,266	19,121	9.0	25.5	62.5	48.5	14.4	40.8
February	1,495	4,504	10,503	2,575	7,929	18,869	7.9	23.9	55.7	42.0	14.2	42.9
March	^R 1,651	^R 4,588	^R 11,593	R 2,660	R 8,933	^R 19,248	^R 8.6	R 23.8	^R 60.2	R 46.4	^R 14.2	R 39.6
April	NA	NA	^E 11,459	^E 2.247	E 9,213	E 19,050	NA	NA	^E 60.2	^E 48.4	NA	NA
May	NA	NA	^E 11,730	^E 2,196	^E 9,534	E 18,803	NA	NA	^E 62.4	^E 50.7	NA	NA
5-Month Average	NA	NA	E 11,467	^E 2,472	E 8,994	E 19,021	NA	NA	E 60.3	E 47.3	NA	NA
010 5-Month Average 009 5-Month Average	1,761 1,858	4,922 5,009	11,722 12,225	2,153 1,898	9,569 10,327	18,838 18,690	9.3 9.9	26.1 26.8	62.2 65.4	50.8 55.3	15.0 15.2	42.0 41.0

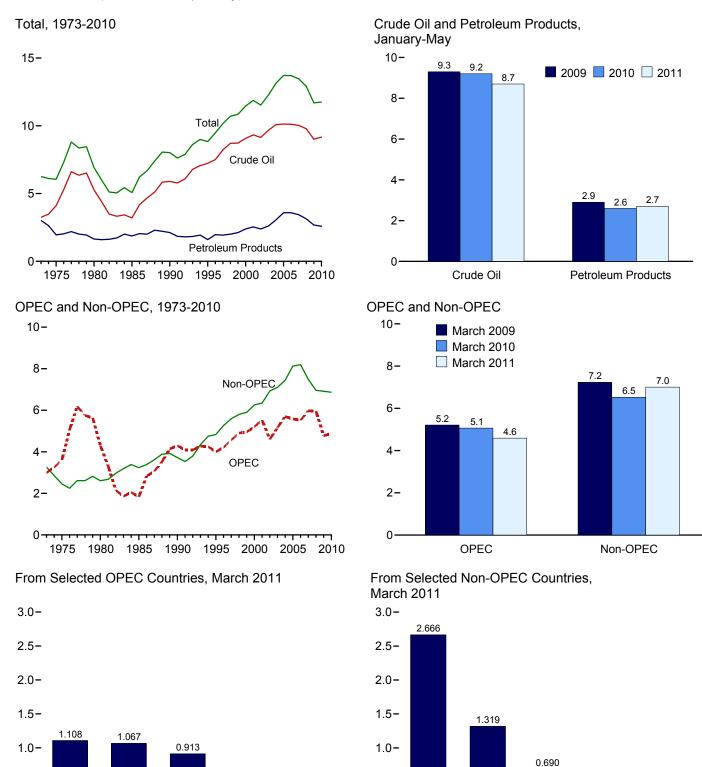
^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary.
 See Table 3.3.c for notes on which countries are included in the data.
 R=Revised. E=Estimate.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

Beginnerice off, and was published in the Adgust 1997 Mohling 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 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/oil_gas/petroleum/info_glance/petroleum.html.
 Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010 and 2011: EIA, Petroleum Status Report data system calculations. Review data system calculations.

Figure 3.3b Petroleum Trade: Imports

(Million Barrels per Day)



Saudi Venez- Nigeria Algeria Iraq Arabia zuela Note: OPEC=Organization of the Petroleum Exporting Countries.

0.500

0.382

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b–3.3d.

0.5-

0.0

0.5-

0.0

Canada

Mexico

Russia

0.399

Colombia

0.197

United

Kingdom

Table 3.3b Petroleum Trade: Imports and Exports by Type

(Thousand Barrels per Day)

					Im	ports						Exports	
	Cruc	de Oil ^a			LPG	b							
	SPR ^{c,d}	Total	Distillate Fuel Oil	Jet Fuel ^e	Propane ^f	Total	Motor Gasoline ^g	Residual Fuel Oil	Otherh	Total	Crude Oil ^a	Petroleum Products	Total
973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
1975 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
980 Average	44 118	5,263 3.201	142 200	80 39	69 67	216 187	140 381	939 510	130 550	6,909 5.067	287	258 577	544 781
985 Average	27	3,201	200	39 108	115	187	381	510	550 705	5,067 8,018	109	577 748	857
1995 Average	20	7.230	193	106	102	146	265	187	708	8,835	95	855	949
996 Average	Ó	7,508	230	111	119	166	336	248	879	9,478	110	871	981
997 Average	0	8,225	228	91	113	169	309	194	945	10,162	108	896	1,003
998 Average	0	8,706	210	124	137	194	311	275	888	10,708	110	835	945
999 Average	8	8,731	250	128	122	182	382 427	237	943 938	10,852	118	822 990	940
2000 Average	8 11	9,071 9,328	295 344	162 148	161 145	215 206	427 454	352 295	938 1,095	11,459 11,871	20	990 951	1,040 971
2002 Average	16	9,320	267	140	145	183	498	295	1,095	11,530	20	975	984
2003 Average	Ó	9,665	333	109	168	225	518	327	1,087	12,264	12	1,014	1,027
2004 Average	77	10,088	325	127	209	263	496	426	1,419	13,145	27	1,021	1,048
2005 Average	52	10,126	329	190	233	328	603	530	1,609	13,714	32	1,133	1,165
2006 Average	8 7	10,118	365 304	186	228	332 247	475	350 372	1,881	13,707	25	1,292	1,317
2007 Average 2008 Average	19	10,031 9,783	304 213	217 103	182 185	247	413 302	372	1,885 1,913	13,468 12,915	27 29	1,405 1,773	1,433 1,802
009 January	33	9,779	368	89	223	253	236	424	1,978	13,127	36	1,885	1,922
February	34	9,074	327	71	207	234	263	349	1,776	12,095	30	1,778	1,808
March	221	9,378	269	92	218	249	274	381	1,804	12,446	30	1,807	1,838
April	154	9,374	166	90	124	164	227	396	1,545	11,962	27	1,874	1,900
May	52 77	8,797 9.135	206 245	66 65	105 70	172 98	244 218	341 363	1,650 1.812	11,477 11,936	53 57	1,962 1,906	2,015 1.963
June July		9,135	191	102	100	128	218	268	1.818	11.830	31	2.317	2.348
August	16	8.814	166	92	63	105	304	256	1,446	11,183	35	2,084	2,119
September	32	9,254	205	91	95	124	142	309	1,631	11,756	42	2,063	2,105
October	-	8,566	177	84	145	182	161	303	1,404	10,878	72	2,151	2,223
November	35	8,740	164	71	206	238	149	282	1,462	11,105	46	1,983	2,029
December Average	16 56	8,170 9,013	224 225	55 81	212 147	241 182	232 223	307 331	1,305 1,635	10,534 11,691	65 44	1,931 1,980	1,996 2,024
010 January	_	8,454	429	150	191	216	179	373	1,433	11,236	33	1,851	1,883
February	-	8,680	293	75	216	234	196	378	1,291	11,148	58	1,954	2,012
March	-	9,292	179	74	136	149	120	395	1,378	11,588	45	2,063	2,108
April	_	9,741 9,622	201 191	74 63	78 81	101 108	178 107	474 404	1,739 1,606	12,508 12,100	37 36	2,352 2,333	2,389 2,369
May June	_	9,622	237	79	69	108	163	404 279	1,606	12,100	30	2,333	2,309
July	_	9,890	166	76	55	103	103	400	1,851	12,602	69	2,242	2,273
August	_	9,486	236	103	62	106	129	329	1,952	12,341	36	2,332	2,368
September	-	9,168	189	117	84	123	130	418	1,671	11,816	61	2,235	2,297
October	-	8,489	163	94	131	163	86	363	1,768	11,126	23	2,410	2,434
November	-	8,608	178	101	131	164	128	419	1,491	11,088	32	2,515	2,546
December Average	_	8,631 9,163	219 223	73 90	213 120	229 150	99 135	358 382	1,501 1,609	11,109 11,753	40 42	2,532 2,271	2,572 2,312
011 January	_	9,069	326	65	172	204	103	456	1,733	11,954	72	2,616	2,687
February		8,013	206	68	172	199	119	428	1,471	10,503	30	2,544	2,575
March	R _	^R 9,033	R 190	R 65	R 136	^R 165	R 135	^R 468	^R 1,538	^R 11,593	R 36	R 2,623	R 2,660
April	NA NA	^E 8,710 ^E 8,748	^E 177 ^E 124	^E 82 ^E 76	^E 77 ^E 82	NA NA	^E 159 ^E 111	^E 446 ^E 358	NA NA	^E 11,459 ^E 11,730	E 34 E 34	^E 2,213 ^E 2,162	E 2,247 E 2,196
May 5-Month Average	NA	E 8,729	E 205	E 76	E 127	NA	E 125	E 431	NA NA	E 11,467	E 42	E 2,162	E 2,196
010 5-Month Average 009 5-Month Average	_ 100	9,163 9,284	258 267	88 82	139 175	161 214	155 249	405 379	1,492 1,752	11,722 12,225	41	2,112 1,863	2,153 1,898

^a Includes lease condensate.

 ^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 includes in "Other." "Other.

 ¹ Includes propylene.
 ⁹ Finished motor gasoline. Through 1980, also includes motor gasoline blending components. ^h Asphalt and road oil, finished aviation gasoline, gasoline blending

components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Beginning in 2005, also includes

naphtha-type jet fuel.

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

 reported. Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/lotalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/lotalenergy/data/monthly/#petroleum. • For related information, see http://news.eia.gov/lotalenergy/data/monthly/#petroleum. • For related information, Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010 and 2011: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months Weekly Petroleum Status Report data system and Monthly. Foreray two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

Table 3.3c Petroleum Trade: Imports From OPEC Countries

(Thousand Barrels per Day)

	Algeria	Angola ^a	Ecuador ^b	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Total OPEC
1973 Average	136	(a)	48	4	47	164	459	486	1,135	514	2,993
1975 Average	282	(a)	57	2	16	232	762	715	702	832	3.601
980 Average	488) a j	27	28	27	554	857	1,261	481	577	4,300
985 Average	187	(a)	67	46	21	4	293	168	605	439	1.830
	280	(a)	49	518	86	ŏ	800	1,339	1,025	199	4,296
990 Average	234	$\binom{a}{a}$	(^b)	0	218	Ő	627	1,339	1,025	98	4,290
995 Average	256			1	236	Ö	617				
996 Average			(b)			-		1,363	1,676	62	4,211
997 Average	285		([°] _b (89	253	0	698	1,407	1,773	64	4,569
998 Average	290			336	301	0	696	1,491	1,719	73	4,905
999 Average	259	(a)		725	248	0	657	1,478	1,493	93	4,953
000 Average	225	(a)	(b)	620	272	0	896	1,572	1,546	72	5,203
001 Average	278	(a)	(þ)	795	250	0	885	1,662	1,553	105	5,528
002 Average	264	(a)	(þ)	459	228	0	621	1,552	1,398	83	4,605
003 Average	382	(a)	(b)	481	220	0	867	1,774	1,376	61	5,162
004 Average	452	(a)	(þ)	656	250	20	1,140	1,558	1,554	70	5,701
005 Average	478	(a)	(b)	531	243	56	1,166	1,537	1,529	47	5,587
006 Average	657	(a)	(þ)	553	185	87	1,114	1,463	1,419	38	5,517
007 Average	670	`5 08	(b)	484	181	117	1,134	1,485	1,361	39	5,980
008 Average	548	513	221	627	210	103	988	1,529	1,189	26	5,954
009 January	720	541	278	568	242	64	524	1,362	1,353	38	5,689
February	375	671	243	554	251	60	496	1,118	1,139	51	4,958
March	463	653	215	587	181	61	891	967	1,106	88	5,212
April	626	462	237	484	105	118	733	1,057	891	90	4,803
May	272	505	193	295	106	99	626	1,102	1,141	33	4,372
June	433	447	154	390	179	103	830	959	1.256	75	4.825
July	383	320	198	321	187	69	879	1,046	976	176	4,554
August	551	364	131	500	148	68	917	729	1,070	51	4,530
September	655	414	153	428	246	54	912	1,045	1,146	-	5,052
October	491	450	180	499	104	91	869	943	955	_	4,581
November	400	431	155	461	287	140	980	858	874	_	4,585
December	400 544	278	86	325	160	23	1,029	877	849	_	4,303
Average	493	460	185	450	182	23 79	809	1,004	1,063	50	4,171
010 January	498	280	215	506	77	40	1.013	963	911	_	4.503
February	461	326	152	540	228	40	932	898	1.009	_	4.587
March	455	502	183	475	218	63	962	1,149	1,003	_	5,068
April	464	508	179	490	278	163	1,125	1.257	950	_	5.414
	518	448	160	394	225	39	1,026	1,097	1,109	10	5,024
May	550	440	211	630	225	98	1,020	1,125	899	-	5,024
June	550 518	425 374	205	430	189	90 110	1,100	1,053	1,084	- 7	5,265
July		374 484	205							-	- /
August	565			281	251	123	985	1,132	1,022		5,083
September	543	417	229	422	172	43	1,174	1,093	1,008	10	5,111
October	451	324	203	143	215	36	872	1,121	930	-	4,294
November	572	276	194	340	170	23	860	1,141	942	-	4,517
December	484	319	192	336	125	66	1,070	1,087	917	16	4,614
Average	507	390	197	414	197	70	1,025	1,094	987	4	4,885
011 January	565	316	178	470	147	57	1,007	1,102	1,030	-	4,872
February	394	370	242	263	118	35	978	1,114	989	-	4,504
March	500	280	146	382	161	31	913	1,108	1,067	-	4,588
3-Month Average	489	320	187	375	143	41	966	1,108	1,030	-	4,660
010 3-Month Average	472	371	184	506	173	48	970	1,007	993	-	4,723
009 3-Month Average	524	620	245	570	224	62	642	1,150	1,201	59	5,297

^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

becade was a member of OFEC from 19/3-1992, and reported OFEC in November 2007. For 1993-2007, Ecuador is included in "Total Non-OFEC" on Table 3.3d.
 ^c Imports from the Neutral Zone are reported as originating in either Saudi Arabia or Kuwait depending on the country reported to U.S. Customs.
 ^d For all years, includes Iran, Qatar, and United Arab Emirates. For 1973-2008, also includes Indonesia; and for 1975-1994, also includes Gabon.

 -=No data reported.
 Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on this table are included on Table 3.3d. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example,

refined products imported from West European refining areas may have been produced from Middle East crude oil.

Includes imports for the Strategic Petroleum Reserve, which began in October 1977.
Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. Web Pages: • For all available data beginning in 1973, see

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/oil_gas/petroleum/info_glance/petroleum.html. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2009: EIA, *Petroleum Supply Annual*, annual reports. • 2010 and 2011: 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	1,598	354	1,351	31	236	24	250	293	1,640	5,803
1999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1.828	296	1.440	43	341	90	324	268	1,631	6,343
2002 Average	116	1.971	260	1,547	66	393	210	478	236	1.649	6.925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8,190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 January	450	2,549	269	1,377	127	90	516	148	367	1,545	7,438
February	381	2,529	241	1,364	189	74	472	281	337	1,269	7,137
March	338	2,446	283	1,199	141	179	642	208	264	1,534	7,235
April	278	2,287	347	1,289	117	112	759	401	290	1,278	7,158
May	386	2,215	243	1,186	150	179	809	250	313	1,373	7,105
June	299	2,538	313	1,190	157	173	618	268	276	1,279	7,111
July	408	2,664	289	1,076	118	101	758	203	273	1,387	7,276
August	275	2,523	269	1,159	160	52	505	225	223	1,263	6,653
September	268	2,358	301	1,271	122	59	486	295	280	1,263	6,703
October	174	2,367	292	1,136	84	97	385	278	215	1,268	6,297
November	268	2,565	237	1,084	227	110	415	190	205	1,219	6,520
December	184	2,710	231	1,204	99	65	385	199	289	998	6,363
Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
2010 January	353	2,593	322	1,131	116	126	463	282	308	1,039	6,733
February	226	2,490	386	1,134	126	99	423	413	187	1,077	6,562
March	302	2,517	251	1,265	136	59	488	267	228	1,008	6,520
April	307	2,486	423	1,276	92	166	587	304	316	1,137	7,093
May	320	2,527	315	1,428	108	119	719	176	193	1,172	7,076
June	308	2,711	407	1,208	87	52	760	269	244	1,030	7,076
July	332	2,534	404	1,289	211	119	719	351	239	1,258	7,457
August	251	2,483	372	1,282	135	57	786	266	339	1,286	7,258
September	181	2,475	363	1,256	45	62	648	178	302	1,195	6,705
October	169	2,345	422	1,345	107	111	655	152	270	1,256	6,832
November	198	2,510	492	1,363	57	79	553	187	234	896	6,571
December	295	2,713	231	1,365	71	26	514	236	191	855	6,495
Average	271	2,532	365	1,280	108	89	611	256	255	1,101	6,867
2011 January	274	2,826	332	1,366	101	85	531	155	276	1,136	7,082
February	177	2,831	211	1,104	129	69	437	110	182	749	5,999
March 3-Month Average	161 205	2,666 2,773	399 318	1,319 1,269	91 106	156 104	690 556	197 155	149 203	1,177 1,030	7,005 6,719
2010 3-Month Average	296	2,535	318	1,178	126	94	459	318	243	1,040	6,606
2009 3-Month Average	296	2,535 2,507	265	1,178	120	94 116	459 546	210	322	1,040	7,274

^a Through 1992, may include imports from republics other than Russia in the

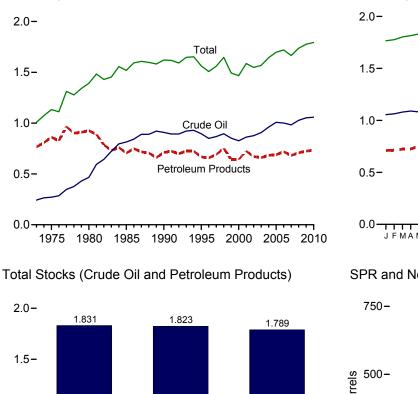
former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary. Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum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

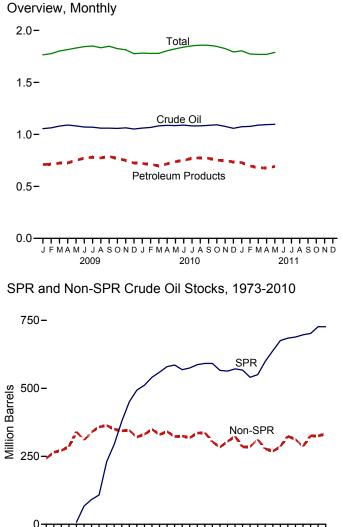
coverage is the 50 States and the District of Columbia. Web Pages:
• For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.
• For related information, see http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

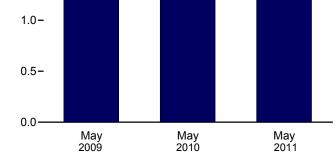
See http://www.ea.gov/or_gas/per/oreani/info_glance/per/oreani/info. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2009: EIA, *Petroleum Supply Annual*, annual reports. • 2010 and 2011: EIA, Petroleum Supply Monthly, monthly reports.

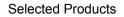
Petroleum Stocks Figure 3.4 (Billion Barrels, Except as Noted)

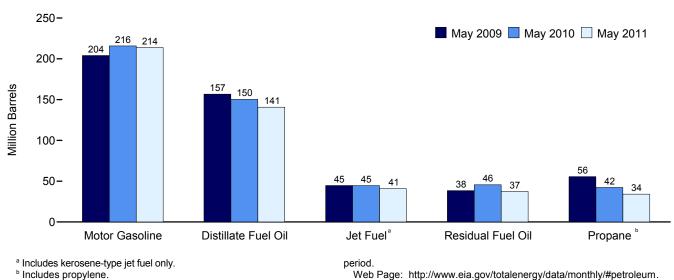
Overview, 1973-2010











1975

1980

1985

1990 1995 2000 2005 2010

Notes: • SPR= Strategic Petroleum Reserve. • Stocks are at end of

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.4.

U.S. Energy Information Administration / Monthly Energy Review June 2011

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oil ^a		Distillato	1-4	LPC	B b	Matan	Desidual		
	SPRC	Non-SPR ^{d,e,f}	Total ^{e,f}	Distillate Fuel Oil ^{f,g}	Jet Fuel ^h	Propane ^{f,i}	Total ^f	Motor Gasoline ^{f,j}	Residual Fuel Oil ^f	Otherk	Total ^f
1973 Year		242	242	196	29	65	99	209	53	179	1,008
1975 Year		271	271	209	30	82	125	235	74	188	1,133
1980 Year	108	358	466	205	42	65	120	261	92	205	1,392
1985 Year	493	321	814	144	40	39	74	223	50	174	1,519
1990 Year	586	323	908	132	52	49	98	220	49	162	1,621
1995 Year	592	303	895	130	40	43	93	202	37	165	1,563
1996 Year	566	284	850	127	40	43	86	195	46	164	1,507
1997 Year	563	305	868	138	44	44	89	210	40	169	1,560
1998 Year	571	324	895	156	45	65	115	216	45	176	1,647
1999 Year	567	284	852	125	41	43	89	193	36	157	1,493
2000 Year	541	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	1,001	144	39	62	113	212	42	169	1,720
2007 Year	697	286	983	134	39	52	96	218	39	156	1,665
2008 Year	702	326	1,028	146	38	55	113	214	36	162	1,737
2009 January	704	351	1,055	144	41	46	98	220	34	174	1,766
February	706	358	1,063	148	43	40	89	216	38	178	1,777
March	713	367	1,080	145	43	40	91	217	38	188	1,803
April	719	371	1,090	150	44	45	100	211	34	187	1,816
May	722	360	1,081	157	45	56	117	204	38	189	1,831
June	724	347	1,071	163	45	64	133	214	37	182	1,844
July	724	345	1,070	166	47	70	145	212	35	175	1,850
August	724	336	1,060	169	46	71	153	208	33	165	1,834
September	725	335	1,060	173	46	75	156	214	35	164	1.848
October	725	333	1,058	171	44	72	146	211	35	161	1,825
November	726	337	1.063	171	42	63	123	220	36	158	1.814
December	727	325	1,052	166	43	50	102	223	37	153	1,776
2010 January	727	334	1,061	163	44	35	80	232	40	162	1,781
February	727	340	1,067	155	44	28	70	233	41	169	1,779
March	727	355	1,082	146	42	28	73	224	41	172	1,779
April	727	361	1,087	145	44	35	89	220	43	176	1,804
May	727	358	1,085	150	45	42	106	216	46	176	1,823
June	727	363	1,089	158	45	51	122	215	42	168	1,839
July	727	355	1,082	166	47	55	132	220	41	164	1,853
August	727	355	1,082	170	47	59	140	221	39	158	1,857
September	727	360	1,087	167	47	61	141	219	40	156	1,857
October	727	366	1,092	162	44	62	139	210	41	158	1,846
November	727	351	1,077	162	44	61	132	213	41	158	1,826
December	727	332	1,059	164	43	49	109	219	41	158	1,794
2011 January	727	347	1,074	162	41	35	85	235	39	166	1,803
February	727	350	1,077	154	39	26	71	229	35	168	1,773
March	727	R 363	^R 1,089	^R 149	^R 40	^R 24	^R 69	R 215	37	^R 171	^R 1,770
April	E 727	E 368	E 1,094	E 145	⊑ 40	E 28	E 89	E 205	E 38	E 159	E 1,769
May	E 727	E 370	E 1,097	E 141	^E 41	^E 34	E 101	E 214	E 37	E 158	E 1,789

a Includes lease condensate.

^a includes lease condensate.
 ^b Liquefied petroleum gases.
 ^c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
 Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.
 ^d All crude oil stocks other than those in "SPR."
 ^e Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section.
 ^f See Note 4, "Petroleum New Stock Basis," at end of section.
 ^g Excludes stocks in the Northeast Heating Oil Reserve. Beginning in 2009.

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 2009, includes herosene-type and naphtha-type jet fuel, is included in the stock and the s

2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Includes propylene.

j Includes finished motor gasoline and motor gasoline blending components; excludes oxygenates.

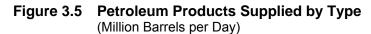
^k Asphalt and road oil, aviation gasoline, aviation gasoline blending

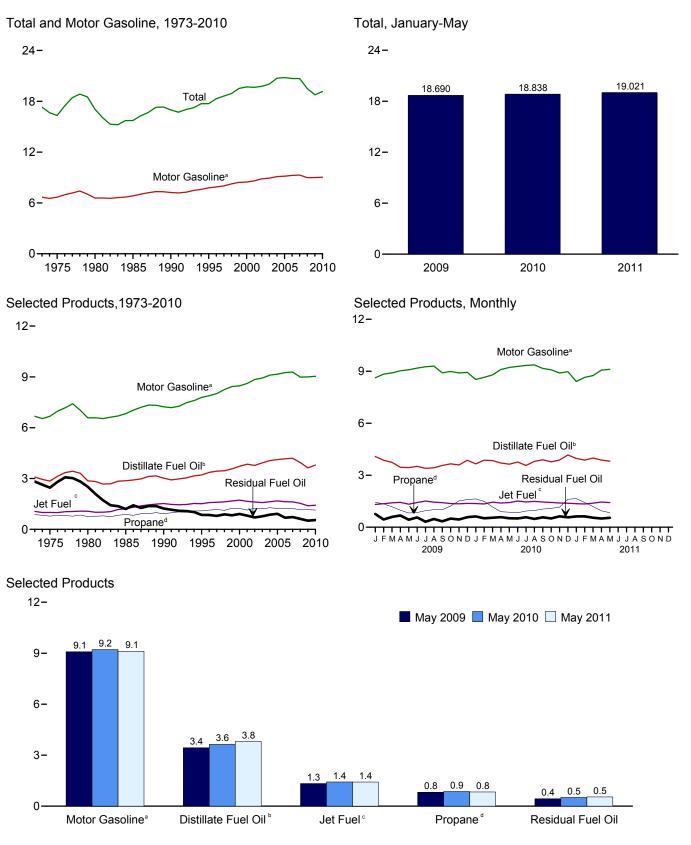
components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, miscellaneous products, oxygenates, renewable fuels, and other hydrocarbons. Beginning in 2005, also

bygenates, networke news, and other hydrocarbons. Beginning in 2005, also includes naphtha-type jet fuel.
 R=Revised. E=Estimate. - -=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

 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/oil_gas/petroleum/info_glance/petroleum.html.
 Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply Annual, annual reports. • 2010 and 2011: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Supply Annual, asystem and Monthly Energy Review data system calculations. Review data system calculations.





^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.

° 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 and	Aviation	Distillate	Jet	Kero-	LPC	B a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil		Fuel Oil ^b	Fuelc	sene	Propaned	Total	cants	Gasoline ^e	Coke	Fuel Oil	Other ^f	Total
1973 Average	522	45	3,092	1,059	216	872	1,449	162	6,674	261	2,822	1,005	17,308
1975 Average	419	39	2,851	1,001	159	783	1,333	137	6,675	247	2,462	1,001	16,322
1980 Average	396	35	2,866	1,068	158	754	1,469	159	6,579	237	2,508	1,581	17,056
1985 Average	425 483	27 24	2,868	1,218 1.522	114	883 917	1,599	145 164	6,831	264	1,202	1,032	15,726
1990 Average	485	24	3,021 3,207	1,522	43 54	1.096	1,556 1,899	156	7,235 7,789	339 365	1,229 852	1,373	16,988
1995 Average 1996 Average	400	20	3,207	1,514	54 62	1,096	2.012	150	7,789	365	848	1,381 1,518	17,725 18,309
1997 Average	505	20	3,305	1,578	66	1,170	2,012	160	8,017	375	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	909	1,458	19,701
2001 Average	519	19	3,847	1,655	72	1,142	2,044	153	8,610	437	811	1,481	19,649
2002 Average	512	18	3,776	1,614	43	1,248	2,163	151	8,848	463	700	1,474	19,761
2003 Average	503	16	3,927	1,578	55	1,215	2,074	140	8,935	455	772	1,579	20,034
2004 Average	537	17	4,058	1,630	64	1,276	2,132	141	9,105	524	865	1,657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average	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	15	3,945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
2009 January	195	13	4,079	1,312	44	1,444	2,094	120	8,623	426	760	1,373	19,040
February	277	10	3,864	1,356	40	1,341	2,139	96	8,836	425	448	1,330	18,822
March	300	14	3,744	1,406	16	1,181	2,043	112	8,903	420	591	1,170	18,719
April	299	15	3,455	1,432	14	981	1,906	125	9,029	498	677	1,222	18,672
May	371	13	3,436	1,329	14	818	1,774	101	9,084	501	433	1,154	18,211
June	512	18	3,513	1,425	11	849	1,731	124	9,180	536 369	566	1,213	18,828
July	495 542	19 15	3,395 3.426	1,506 1,449	1 6	955 1.012	1,807 1.956	122 138	9,260 9,295	369 407	319 472	1,333 1,244	18,626 18,949
August September	542 461	15	3,420	1,449	-4	1,012	1,956	130	9,295 8,911	407	340	1,244	18,5949
October	377	19	3,654	1,362	21	1,219	2,208	124	8,986	329	495	1,236	18,803
November	287	10	3,596	1,352	22	1,523	2,200	117	8.906	356	445	1,132	18,753
December	204	15	3,861	1,372	26	1,597	2,504	114	8,931	385	582	1,241	19,237
Average	360	14	3,631	1,393	18	1,160	2,051	118	8,997	427	511	1,251	18,771
2010 January	213	11	3,656	1,365	16	1,630	2,545	106	8,525	266	622	1,204	18,528
February	249	10	3,866	1,342	35	1,495	2,450	125	8,651	334	513	1,285	18,860
March	272	14	3,842	1,446	12	1,168	2,153	138	8,787	428	545	1,432	19,070
April	335	17	3,707	1,391	8	894	1,774	127	9,103	387	578	1,484	18,910
May	389	15	3,635	1,422	11	865	1,800	140	9,217	339	514	1,345	18,827
June	481 467	18 20	3,759 3.561	1,507 1,458	12 16	832 933	1,812 1,943	160 142	9,284 9.332	411 381	505 574	1,367 1,384	19,314 19,278
July	467 543	20 14	3,561	1,458	9	933 964	1,943	142	9,332 9,366	432	574 479	1,384	19,278
August September	462	20	3,800	1,467	9	1.046	2,049	135	9,300	432	570	1,436	19,092
October	427	15	3,769	1.429	15	1.085	2,043	128	9.086	334	506	1,203	18,939
November	297	11	3,877	1,397	46	1,154	2,089	120	8,901	389	625	1,317	19,074
December	200	12	4,169	1,383	49	1,615	2,621	112	8,972	372	571	1,296	19,758
Average	362	15	3,794	1,424	20	1,139	2,104	130	9,034	376	550	1,340	19,148
2011 January	224	14	3,968	1,355	17	1,652	2,660	136	8,412	363	623	1,349	19,121
February	248	_13	3,871	1,343	_ 47	1,423	2,406	_ 121	8,648	282	_ 627	1,264	18,869
March	^R 280	^R 19	^R 3,993	^R 1,389	^R 25	^R 1,189	R 2,291	^R 148	^R 8,750	^R 339	^R 547	^R 1,468	^R 19,248
April	F 323	F 15	^E 3,878	^E 1,454	RF 9	^E 946	^{RF} 1,947	^{RF} 130	^E 9,066	F 407	E 500	^{RE} 1,321	^E 19,050
May	F 384	^F 16 ^E 15	E 3,807	E 1,418	F 12	E 837	F 1,913	F 129	E 9,112	F 412	E 543	E 1,059	E 18,803
5-Month Average	^E 292		E 3,904	E 1,392	^E 22	^E 1,207	E 2,242	E 133	E 8,799	^E 362	E 567	E 1,292	E 19,021
2010 5-Month Average 2009 5-Month Average	292 289	13 13	3,739 3,714	1,394 1.367	16 25	1,207 1,151	2,141 1,989	127 111	8,859 8,895	351 454	555 584	1,351 1,248	18,838 18,690

^a Liquefied petroleum gases.

 ^a Liquefied petroleum gases.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other." ^d Includes propylene. ^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

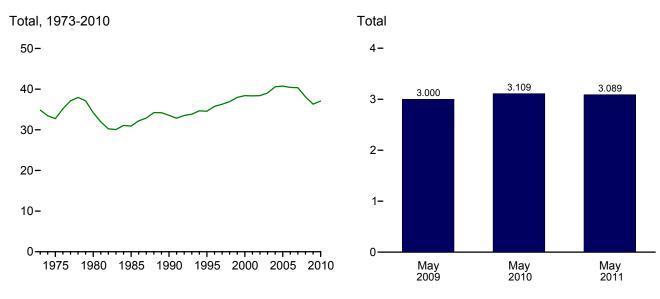
^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline. ^f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast.

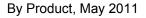
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

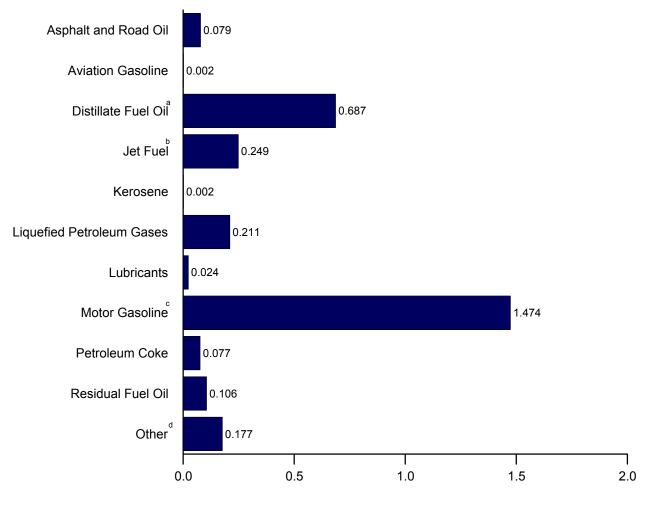
Web Pages:
 For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.
 For related information,

http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. html. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2009: EIA, Petroleum Supply 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)







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

^b Includes kerosene-type jet fuel only.

[°] Includes fuel ethanol blended into motor gasoline.

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

Table 3.6 Heat Content of Petroleum Products Supplied by Type

(Trillion Btu)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuel ^c	sene	Propaned	Total	cants	Gasoline ^e	Coke	Fuel Oil	Other ^f	Total
1973 Total	1,264	83	6,575	2,167	447	1,221	1,981	359	12,797	573	6,477	2,114	34,837
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,109	32,732
1980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,278	34,205
1985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,152	30,925
1990 Total	1,170	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 34	8,179	3,426	150	1,598	2,697	338	16,373	961	1,861	3,056	38,333
2002 Total	1,240		8,028	3,340	90	1,747	2,852	334	16,819	1,018	1,605	3,040	38,400
2003 Total	1,220 1.304	30	8,349	3,265	113	1,701	2,748	309	16,981	1,000	1,772	3,264	39,051
2004 Total 2005 Total	1,304	31 35	8,652 8,755	3,383 3,475	133 144	1,791 1,721	2,824 2,682	313 312	17,379 17,444	1,156 1,133	1,990 2,111	3,428 3,318	40,593 40,732
2005 Total	1,323	35	8,755 8.864	3,475	144	1,721	2,682	312	17,444	1,133	2,111	3,318	40,732
2007 Total	1,201	32	8,004	3,379	67	1.729	2,700	303	17,622	1.077	1,561	3,313	40,420
2007 Total	1,012	28	8,411	3,358	30	1,620	2,733	291	17,168	1,022	1,432	2,941	38,101
	,	2							,		,		,
2009 January	40		736	231	8	172 144	235	23 16	1,395	80 72	148	247	3,144
February	51 62	1 2	630 676	215 247	6 3	144	215 226	21	1,291 1.440	72	79 115	214 208	2,792 3.079
March	62 59	2		247 244	3		226		, -				
April	59 76		604 621	244 234		113 97		23 19	1,413	90 94	128	209	2,976
May	102	2 3	614	234 242	2 2	97 98	193 183	23	1,469 1,437	94 97	84 107	206 208	3,000 3,016
June	102	3	613	242		90 114	103	23	1,437	97 69	62	208	3,016
July	102	2	619	265 255	(s) 1	114	215	23 26	1,498	76	92	230	3,069
August September	92	2	622	255 241	-1	120	215	20	1,304	85	92 64	220	2,963
October	92 78	2	660	239	-1	145	203	23	1,395	61	96	234	2,903
November	57	1	628	239	4	145	243	23	1,394	64	84	192	2,949
December	42	2	697	230	4 5	190	272	22	1,394	72	113	219	2,949
Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,321
2010 January	44	2	660	240	3	194	283	20	1,379	50	121	213	3,014
February	46	1	631	213	5	161	247	21	1,264	56	90	206	2,781
March	56	2	694	254	2	139	238	26	1,421	80	106	254	3,134
April	67	3	648	237	1	103	191	23	1,425	70	109	255	3,028
Мау	80	2	656	250	2	103	198	26	1,491	63	100	239	3,109
June	96	3	657	256	2	96	192	29	1,453	74	95	234	3,092
July	96	3	643	256	3	111	213	27	1,509	71	112	244	3,178
August	112	2	686	261	2	115	217	25	1,515	81	93	254	3,248
September	92	3	680	247	1	120	216	24	1,434	78	107	228	3,112
October	88	2	681	251	3	129	222	24	1,470	62	99	213	3,114
November	59	2	677	238	8	133	222	23	1,393	70	118	225	3,035
December Total	41 877	2 27	753 8,066	243 2,946	9 41	192 1,595	292 2,732	21 289	1,451 17,207	69 826	111 1,263	232 2,797	3,224 37,070
2011 January	46	2	717	238	3	196	295	26	1,361	68	121	239	3,116
February	40	2	631	230	7	153	295	20	1,263	48	110	202	2,784
March	R 58	R3	^R 721	R 244	4	^R 141	R 251	R 28	^R 1,415	R 63	^R 107	R 259	^R 3,152
April	F 64	F2	E 678	E 247	RF 2	E 109	RF 208	F 24	E 1.419	F 74	E 94	RE 217	E 3,029
May	F 79	۶2	E 687	E 249	۶2	E 100	F211	F 24	E 1,474	F 77	E 106	E 177	E 3,089
5-Month Total	E 293	^E 12	^E 3,434	E 1,192	[⊑] 19	E 699	^E 1,205	E 122	E 6,933	^E 329	E 538	^E 1,095	E 15,170
2010 5-Month Total	293	10	3,289	1,194	14	699	1,158	116	6,980	319	527	1,167	15,067
	289	10	3,267	1,170	22	666	1,069	102	7,009	413	554	1,084	14,989

 ^a Liquefied petroleum gases.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Cohor". "Other." d Includes propylene.

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

⁶ Finished motor gasoline. Beginning in 1993, also includes fuel emanor blended into motor gasoline. ⁶ Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished bill and these motion for the primer and according automatic aclassified as oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned

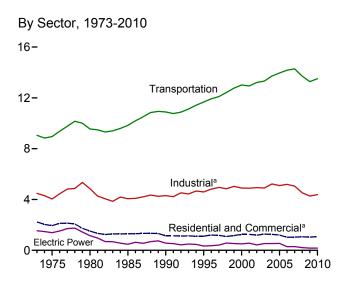
as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

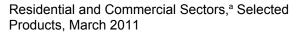
R=Revised. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

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

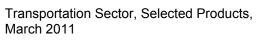
Web Pages:
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 For related information, see http://www.eia.gov/oil_gas/petroleum/info_glance/petroleum.html.

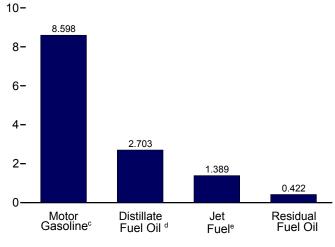
Sources: See end of section.





0.8-0.6-0.547 0.467 0.4-0.2-0.034 0.027 0.0 LPG[⋼] Distillate Residual Motor Fuel Oil Fuel Oil Gasoline^c





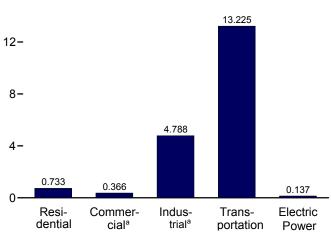
^a Includes combined-heat-and-power plants and a small number of electricity_only plants.

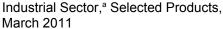
^b Liquefied petroleum gases.

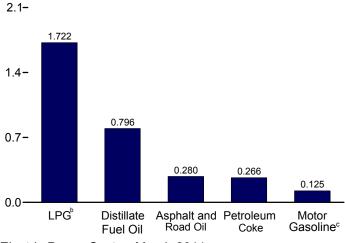
^c Includes fuel ethanol blended into motor gasoline.

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

By Sector, March 2011 16-







Electric Power Sector, March 2011

0.05-0.05-0.00 Petroleum Residual Distillate Fuel Oil Fuel Oil

distillate fuel oil.

0.10-

^e Includes kerosene-type jet fuel only.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.7a–3.7c.

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

1.0-

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

(Thousand Barrels per Day)

					Commercial Sector ^a								
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total		
1973 Average	942	110	407	1,459	303	31	105	45	NA	290	774		
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653		
1980 Average	617	51	222	890	243	20	63	56	NA	245	626		
1985 Average	514	77	224	815	297	16	68	50	NA	99	530		
1990 Average	460	31	252	742	252	6	73	58	0	100	489		
1995 Average	426	36	282	743	225	11	78	10	(s)	62	385		
1996 Average	434	43	334	811	227	10	87	14	(s)	60	397		
1997 Average	411	45	325	781	209	12	86	22	(s)	48	378		
1998 Average	363	52	303	718	202	15	84	20	(s)	37	358		
1999 Average	389	54	376	819	206	13	100	15	(s)	32	366		
2000 Average	424	46	395	865	230	14	107	23	(s)	40	415		
2001 Average	427	46	375	849	239	15	102	20	(s)	30	406		
2002 Average	404	29	384	817	209	8	101	24	(s)	35	376		
2003 Average	425	34	389	848	226	9	112	32	(s)	48	428		
2004 Average	433	41	364	839 809	221	10	108	23 24	(s)	53	416 389		
2005 Average	402 335	40 32	366 318	809 685	210 189	10 7	94 88	24 26	(s)	50 33	389		
2006 Average	335	21	345	708	181	4	87	32	(s) (s)	33	343		
2007 Average	342	10	345	708	174	2	113	24	(s) (s)	33	345		
2000 Average	514	10	554	710	174	2	115	24	(3)	52	545		
2009 January	445	33	399	877	306	5	101	27	(s)	52	491		
February	413	31	407	851	284	5	103	27	(s)	48	467		
March	358	12	389	760	246	2	99	28	(s)	42	416		
April	283	11	363	657	195	2	92	28	0	33	349		
May	191	11	338	540	131	2	86	28	0	22	269		
June	183	9 1	330 344	521 550	126	1	84 87	29 29	0	21 24	261 281		
July	205 214	5	344 373	550 591	141 147	(s) 1	87 95	29 29	0	24 25	201		
August	214	-3	367	623	147	-1	95 93	29	(s) (s)	25 30	329		
September October	239	-3 16	421	659	153	-1	107	28	(5)	26	329		
November	223	16	421	725	155	2	107	28	(s)	20	335		
December	401	20	402	898	275	3	122	28	(s)	47	474		
Average	283	13	391	687	194	2	99	28	(s)	33	357		
2010 January	496	12	485	993	340	2	123	27	(s)	62	554		
2010 January February	508	26	465	1.001	340	4	123	27	(s) (s)	63	562		
March	292	20	407	711	200	4	104	27	(S) (S)	36	370		
April	211	6	338	555	145	1	86	28	(s)	26	286		
May	223	9	343	575	153	1	87	29	(0)	28	298		
June	263	9	345	617	181	1	88	29	Õ	33	331		
July	204	13	370	586	140	2	94	29	õ	25	290		
August	182	7	380	569	125	1	96	29	(s)	23	274		
September	169	6	390	566	116	1	99	28	(s)	21	266		
October	252	11	386	649	173	2	98	28	(s)	31	332		
November	292	35	398	725	200	5	101	28	(s)	36	371		
December	466	38	499	1,003	320	6	127	28	(s)	58	539		
Average	295	15	401	711	203	2	102	28	(s)	37	372		
2011 January	387	13	507	907	266	2	129	26	(s)	48	471		
February	^R 406	36	458	^R 900	^R 279	5	116	27	(s)	^R 51	^R 478		
March	277	19	436	733	190	3	111	27	(s)	34	366		
3-Month Average	355	22	467	845	244	3	119	27	(s)	44	437		
2010 3-Month Average 2009 3-Month Average	429 405	16 25	453 398	898 829	295 278	2 4	115 101	27 27	(s) (s)	53 47	493 458		

^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

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

than -500 barrels per day. Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is

an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973. Sources: See end of section.

Table 3.7b Petroleum Consumption: Industrial Sector

(Thousand Barrels per Day)

Ro 1973 Average 1975 Average 1975 Average 1980 Average 1980 Average 1990 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2006 Average 2007 Average 2008 Average 2009 January February March April May July August September October November December Average 2010 January February March April March April	Asphalt and coad Oil 522 419 396 425 483 486 484 484 486 484 505 521 547 525 519 512 503 537 546 521 494 417 195 2277	Distillate Fuel Oil 691 620 621 526 541 532 557 566 570 558 563 611 566 534 570 554 594 595 599 845	Kerosene 75 58 87 21 6 7 9 9 9 11 6 8 11 7 12 14 19 14 6 2	Liquefied Petroleum Gases 902 844 1,172 1,285 1,527 1,557 1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	Lubricants 88 68 82 75 84 80 78 86 87 86 87 86 79 78 72 73 72	Motor Gasoline ^b 133 116 82 114 97 105 105 105 105 105 105 105 105 163 163 171	Petroleum Coke 254 246 234 261 325 328 343 331 390 426 361 390 383 375	Residual Fuel Oil 809 658 586 326 179 147 146 127 100 90 105 89 83	Other ^c 1,005 1,001 1,581 1,032 1,373 1,381 1,518 1,605 1,508 1,532 1,458 1,481 1,474	Total 4,479 4,038 4,842 4,065 4,304 4,819 4,953 4,844 5,035 4,903 4,842 4,842
1973 Average 1975 Average 1975 Average 1980 Average 1980 Average 1995 Average 1995 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2005 Average 2005 Average 2006 Average 2007 Average 2008 Average 2009 January February March April May Jule July August September October November December Average 2010 January February March April May March April May	522 419 396 425 483 486 484 505 521 547 525 519 512 503 537 546 521 494 417 195 2277	691 630 621 526 541 557 566 570 558 563 611 566 534 570 594 594 595 599	75 58 87 21 6 7 9 9 11 6 8 11 7 12 14 19 14 6	902 844 1,172 1,285 1,215 1,527 1,580 1,617 1,553 1,709 1,720 1,557 1,668 1,557 1,668 1,561 1,646 1,549 1,627	88 68 82 75 84 80 78 82 86 87 86 79 78 72 73	133 116 82 114 97 105 105 105 111 105 80 79 155 163	254 246 234 261 325 328 343 331 390 426 361 390 383	809 658 586 326 179 147 146 127 100 90 105 89 83	1,005 1,001 1,581 1,032 1,373 1,381 1,518 1,605 1,508 1,532 1,458 1,458	4,479 4,038 4,842 4,065 4,304 4,594 4,819 4,953 4,844 5,035 4,903 4,892
975 Average 980 Average 9985 Average 999 Average 999 Average 997 Average 997 Average 997 Average 997 Average 998 Average 999 Average 000 Average	419 396 425 483 486 505 521 547 525 519 512 503 537 546 521 494 417 195 277	630 621 526 541 557 566 570 558 563 611 556 534 570 594 594 595 599	58 87 21 6 7 9 9 11 6 8 11 7 12 14 19 14 6	844 1,172 1,285 1,215 1,527 1,580 1,617 1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	68 82 75 84 80 78 82 86 87 86 79 78 72 73	116 82 114 97 105 105 111 105 80 79 155 163	246 234 261 325 328 343 331 390 426 361 390 383	658 586 326 179 147 146 127 100 90 105 89 83	1,001 1,581 1,032 1,373 1,381 1,518 1,605 1,508 1,508 1,532 1,458 1,481	4,038 4,842 4,065 4,304 4,594 4,819 4,953 4,844 5,035 4,903 4,892
975 Average 980 Average 980 Average 990 Average 995 Average 996 Average 997 Average 997 Average 997 Average 998 Average 999 Average 000 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April May June July August September October November December Average 010 January February March April May	419 396 425 483 486 505 521 547 525 519 512 503 537 546 521 494 417 195 277	630 621 526 541 557 566 570 558 563 611 556 534 570 594 594 595 599	58 87 21 6 7 9 9 11 6 8 11 7 12 14 19 14 6	844 1,172 1,285 1,215 1,527 1,580 1,617 1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	68 82 75 84 80 78 82 86 87 86 79 78 72 73	116 82 114 97 105 105 111 105 80 79 155 163	246 234 261 325 328 343 331 390 426 361 390 383	658 586 326 179 147 146 127 100 90 105 89 83	1,001 1,581 1,032 1,373 1,381 1,518 1,605 1,508 1,508 1,532 1,458 1,481	4,038 4,842 4,065 4,304 4,594 4,819 4,953 4,844 5,035 4,903 4,892
980 Average 985 Average 995 Average 995 Average 995 Average 996 Average 997 Average 998 Average 999 Average 999 Average 999 Average 990 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April Jule July August September October November December Average 010 January February March April March April May	396 425 483 486 484 505 521 547 525 519 512 537 546 521 494 417 195 277	621 526 541 557 558 558 563 563 563 564 570 594 594 595 599	87 21 6 7 9 11 6 8 11 7 12 14 19 14 6	1,172 1,285 1,527 1,580 1,617 1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	82 75 84 80 78 82 86 87 86 79 78 72 73	82 114 97 105 105 111 105 80 79 155 163	234 261 325 328 343 331 390 426 361 390 383	586 326 179 147 146 127 100 90 105 89 83	1,581 1,032 1,373 1,381 1,518 1,605 1,508 1,508 1,532 1,458 1,481	4,842 4,065 4,304 4,594 4,819 4,953 4,844 5,035 4,903 4,892
985 Averağe 990 Average 995 Average 995 Average 996 Average 997 Average 998 Average 999 Average 999 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April July July August September October November December Average 010 January February March April March April<	425 483 486 484 505 521 547 525 519 512 503 537 546 521 494 417 195 277	526 541 532 557 566 570 558 563 611 566 534 570 594 594 595 599	21 6 7 9 9 11 6 8 11 7 12 14 19 14 6	1,285 1,215 1,527 1,580 1,617 1,553 1,709 1,557 1,668 1,561 1,646 1,549 1,627	75 84 80 78 82 86 87 86 79 78 72 73	114 97 105 105 111 105 80 79 155 163	261 325 328 343 331 390 426 361 390 383	326 179 147 146 127 100 90 105 89 83	1,032 1,373 1,381 1,518 1,605 1,508 1,532 1,458 1,458	4,065 4,304 4,594 4,819 4,953 4,844 5,035 4,903 4,892
990 Average 995 Average 995 Average 996 Average 997 Average 998 Average 999 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April June July August September October November December Average 010 January February March April March April March April	483 486 484 505 521 525 519 512 503 537 546 521 494 417 195 277	541 532 557 566 570 558 563 611 566 534 570 594 594 595 599	6 7 9 11 6 8 11 7 12 14 19 14 6	1,215 1,527 1,580 1,617 1,553 1,709 1,557 1,668 1,561 1,646 1,549 1,627	84 80 78 82 86 87 86 79 78 72 73	97 105 105 111 105 80 79 155 163	325 328 343 331 390 426 361 390 383	179 147 146 127 100 90 105 89 83	1,373 1,381 1,518 1,605 1,508 1,532 1,458 1,481	4,304 4,594 4,819 4,953 4,844 5,035 4,903 4,892
995 Average 996 Average 997 Average 998 Average 998 Average 999 Average 999 Average 990 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April May June July August September October November December Average 010 January February March April	486 484 505 521 547 525 519 512 503 537 546 521 494 417 195 277	532 557 566 570 558 563 611 566 534 570 594 594 595 599	7 9 9 11 6 8 11 7 12 14 19 14 6	1,527 1,580 1,617 1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	80 78 82 86 87 86 79 78 72 73	105 105 111 105 80 79 155 163	328 343 331 390 426 361 390 383	147 146 127 100 90 105 89 83	1,381 1,518 1,605 1,508 1,532 1,458 1,481	4,594 4,819 4,953 4,844 5,035 4,903 4,892
996 Average 997 Average 998 Average 999 Average 999 Average 999 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April June July August September October November December Average 010 January February March April May December Average 010 January February March April March April May March April May	484 505 521 547 525 519 512 503 537 546 521 494 417 195 277	557 566 570 558 563 611 566 534 570 594 594 595 599	9 9 11 6 8 11 7 12 14 19 14 6	1,580 1,617 1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	78 82 86 87 86 79 78 72 73	105 111 105 80 79 155 163	343 331 390 426 361 390 383	146 127 100 90 105 89 83	1,518 1,605 1,508 1,532 1,458 1,481	4,819 4,953 4,844 5,035 4,903 4,903
997 Average 998 Average 999 Average 990 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April July July August September October November December Average 010 January February March April March April March April March April May	505 521 547 525 519 512 503 537 546 521 494 417 195 277	566 570 558 563 611 566 534 570 594 594 594 595 599	9 11 6 8 11 7 12 14 19 14 6	1,617 1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	82 86 87 86 79 78 72 73	111 105 80 79 155 163	331 390 426 361 390 383	127 100 90 105 89 83	1,605 1,508 1,532 1,458 1,481	4,953 4,844 5,035 4,903 4,892
998 Average 999 Average 999 Average 999 Average 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April May June July August September October November December Average 010 January February March April	521 547 525 519 512 503 537 546 521 494 417 195 277	570 558 563 611 566 534 570 594 594 594 595 599	11 6 8 11 7 12 14 19 14 6	1,553 1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	86 87 86 79 78 72 73	105 80 79 155 163	390 426 361 390 383	100 90 105 89 83	1,508 1,532 1,458 1,481	4,844 5,035 4,903 4,892
999 Averağe 000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April June July August September October November December Average 010 January February May July August September October November December Average 010 January February March April March April May	547 525 519 512 503 537 546 521 494 417 195 277	558 563 611 566 534 570 594 594 595 599	6 8 11 7 12 14 19 14 6	1,709 1,720 1,557 1,668 1,561 1,646 1,549 1,627	87 86 79 78 72 73	80 79 155 163	426 361 390 383	90 105 89 83	1,532 1,458 1,481	5,035 4,903 4,892
000 Average 001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 006 Average 007 Average 008 Average 009 January February March April June July August September October November December Average 010 January February March Average 010 January February March April March April March April May	525 519 512 503 537 546 521 494 417 195 277	563 611 566 534 570 594 594 595 599	8 11 7 12 14 19 14 6	1,720 1,557 1,668 1,561 1,646 1,549 1,627	86 79 78 72 73	79 155 163	361 390 383	105 89 83	1,458 1,481	4,903 4,892
001 Average 002 Average 003 Average 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April June July September October November December Average 010 January February March April	519 512 503 537 546 521 494 417 195 277	611 566 534 570 594 594 595 599	11 7 12 14 19 14 6	1,557 1,668 1,561 1,646 1,549 1,627	79 78 72 73	155 163	390 383	89 83	1,481	4,892
002 Average 003 Average 004 Average 005 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April June July August September October November December Average 010 January February May June July August September October November December Average 010 January February March April May	512 503 537 546 521 494 417 195 277	566 534 570 594 594 595 599	7 12 14 19 14 6	1,668 1,561 1,646 1,549 1,627	78 72 73	163	383	83		
003 Averağe 004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April June July August September October November December Average 010 January February March April Movember December Average 010 January February March April March April	503 537 546 521 494 417 195 277	534 570 594 594 595 599	12 14 19 14 6	1,561 1,646 1,549 1,627	72 73				1 474	
004 Average 005 Average 006 Average 007 Average 008 Average 009 January February March April May June July August September October November December August Petruary April May December Average 010 January February March April May	537 546 521 494 417 195 277	570 594 594 595 599	14 19 14 6	1,646 1,549 1,627	73	171	275			4,934
005 Average	546 521 494 417 195 277	594 594 595 599	19 14 6	1,549 1,627				96	1,579	4,903
005 Average	521 494 417 195 277	594 595 599	14 6	1,627	70	195	423	108	1,657	5,222
006 Averağe 007 Average 008 Average 009 January February March April March Jule July August September October November December Average 010 January February March April	521 494 417 195 277	594 595 599	14 6	1,627	14	187	404	123	1,605	5,100
007 Average 008 Average 009 January February March April March June July August September October November December Average 010 January February March April	417 195 277	599			71	198	425	104	1,640	5,193
008 Average 009 January February March April May June July August September October November December Average 010 January February March April	417 195 277	599		1.637	73	161	412	84	1.593	5,056
February March April May June July July August September October November December December Average 010 January February March April May	277	845		1,419	67	131	394	86	1,408	4,523
February March April May June July August September October November December Average D10 January February March April	277		5	1.574	62	123	360	66	1.373	4.602
March April June July August September October October November December Average D10 January February March April May		676	5		49	125		43		4,002
April May June July August September October November December Average D10 January February March April May				1,608			358		1,330	
May June July August September October November December Average 010 January February March April May	300	591	2	1,535	58	127	345	55	1,170	4,183
June July August September October November December Average D10 January February March April May	299	397	2	1,432	64	129	429	61	1,222	4,034
July	371	440	2	1,333	52	129	434	47	1,154	3,961
August	512	439	1	1,301	64	131	466	51	1,213	4,178
September October November December Average D10 January February March April May	495	313	(s)	1,357	63	132	299	27	1,333	4,021
October	542	312	1	1,470	71	133	339	38	1,244	4,148
October	461	451	-1	1,449	64	127	400	30	1,372	4,353
November December Average February March April May	377	564	3	1,659	63	128	288	42	1,236	4,360
December Average 010 January February March April May	287	608	3	1,902	60	127	314	41	1,132	4,474
Average 010 January February March April May	204	621	3	1,881	59	127	331	54	1,241	4,522
February March April May	360	521	2	1,541	61	128	363	46	1,251	4,274
February March April May	213	427	2	1,912	54	122	197	58	1,204	4,189
March April May	249	512	4	1,841	64	122	264	50	1,285	4,103
April May	249	679	2	1,618	71	125	359	51	1,432	4,394
May	335	583	2	1,333	65	130	325	55	1,484	4,009
	389	466	1	1,353	72	131	274	48	1,345	4,080
June	481	432	1	1,361	82	132	333	46	1,367	4,236
July	467	342	2	1,460	73	133	299	52	1,384	4,213
August	543	523	1	1,497	67	134	370	43	1,438	4,616
September	462	700	1	1,540	69	131	373	54	1,325	4,656
October	427	537	2	1,523	66	130	279	49	1,203	4,216
November	297	654	6	1,569	64	127	340	59	1,317	4,434
December	200	670	6	1,969	58	128	309	54	1,296	4,690
Average	362	544	2	1,581	67	129	310	52	1,340	4,387
011 January	224	790	2	1.999	70	120	282	59	1.349	4.895
February	248	^R 631	6	1,808	62	123	202	59	1,264	R 4,415
	248	796	3		76	125	266	52		4,788
March 3-Month Average		796	3 4	1,722 1,844	70 70	125	200 256	52 57	1,468 1,363	4,700
_	250									
010 3-Month Average 009 3-Month Average	250 245	540 705	2 4	1,789 1,571	63 56	123 125	274 354	53 55	1,308 1,290	4,398 4,417

^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

^b Finished motor gasoline. Beginning in 1993, also includes ruei emanoi blended into motor gasoline. ^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. (s)=Less than 500 barrels per day and greater than -500 barrels per day and greater than

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

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

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

(Thousand Barrels per Day)

				Transportat	ion Secto	r			E	lectric Po	wer Sector ^a	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oil ^e	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 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 13	78 81	7,883	310 294	12,099	52 64	46 56	311 456	410 576
1998 Average	19 21	2,263 2,352	1,622 1,673	10	82	8,128 8,336	294	12,420 12,765	66	50	436	535
1999 Average 2000 Average	20	2,352	1,073	8	81	8,370	386	13,012	82	45	378	505
2000 Average	19	2,489	1,655	10	74	8,435	255	12,938	80	47	437	564
2001 Average	18	2,405	1,614	10	73	8.662	295	13,208	60	80	287	427
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 January	13	2,422	1,312	20	58	8,473	450	12,750	60	66	193	319
February	10	2,452	1,356	21	47	8,683	271	12,840	40	67	85	191
March	14	2,508	1,406	20	55	8,748	429	13,180	40	75	65	180
April	15	2,555	1,432	19	61	8,872	526	13,480	26	69	57	152
May	13	2,642	1,329	17	49	8,926	293	13,269	32	67	72	171
June	18	2,734	1,425	17	60	9,020	415	13,689	31	70	78	179
July	19 15	2,707	1,506	18 19	59 67	9,100 9,133	185 312	13,594	28 30	70 68	83 97	180 195
August September	19	2,723 2.649	1,449 1,414	19	60	8,756	217	13,719 13,134	24	69	63	195
October	13	2,688	1,362	22	60	8,830	358	13,332	24	41	68	136
November	10	2,579	1,352	25	57	8,751	335	13,109	27	42	42	111
December	15	2,531	1,372	24	56	8,776	440	13,215	33	54	41	128
Average	14	2,600	1,393	20	57	8,840	353	13,279	33	63	79	175
2010 January	11	2,314	1,365	25	51	8,377	411	12,552	79	68	92	240
February	10	2,468	1,342	24	61	8,501	362	12,768	29	69	38	136
March	14	2,648	1,446	21	67	8,635	417	13,247	23	69	41	133
April	17	2,747	1,391	17	62	8,945	456	13,635	22	61	41	124
May	15	2,761	1,422	18	68	9,057	371	13,711	32	65	67	163
June	18	2,842	1,507	18	78	9,122	320	13,905	41	78	106	224
July	20	2,833	1,458	19	69	9,170	376	13,944	42	82	121	245
August	14 20	2,936 2.874	1,487 1,451	19 20	63 65	9,203 9.004	314 432	14,037	34 30	62 60	99 62	196 153
September October	20 15	2,874 2,782	1,451	20 20	65 62	9,004 8,928	432 387	13,866 13,623	26	60 56	62 38	153
November	11	2,702	1,397	20	60	8,928	493	13,431	20	49	35	119
December	12	2,653	1,383	20	54	8,816	392	13,336	60	63	67	190
Average	15	2,714	1,424	20	63	8,877	394	13,508	37	65	68	170
2011 January	14	2,485	1,355	26	66	8,266	457	12,670	40	81	58	179
February	13	^R 2,524	1,343	23	59	8,497	^R 480	^R 12,941	31	67	37	135
March	19	2,703	1,389	22	72	8,598	422	13,225	27	72	38	137
3-Month Average	16	2,572	1,363	24	66	8,452	452	12,945	32	74	45	151
2010 3-Month Average	12	2,477	1,386	23	60	8,504	397	12,859	44	69	58	171
2009 3-Month Average	13	2,461	1,358	20	53	8,633	387	12,926	47	69	115	231

^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 tor electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector, Other" on Table 3.7b. ^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended ito motor gasoline.

blended into motor gasoline.

^e Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel

 $^{\rm f}$ Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4. R=Revised.

R=Revised.
Notes: • Transportation sector data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5.
Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973.

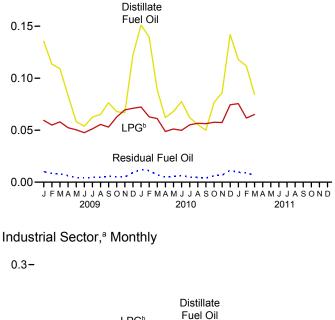
available data beginning in 1973.

Sources: See end of section.

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

Residential and Commercial Sectors,^a 1973-2010 3-2-Distillate Fuel Oil Residual 1-Fuel Oil LPG Kerosene 0 1975 1980 1985 1990 1995 2000 2005 2010 Industrial Sector,^a 1973-2010 2.5-LPG⁵ 2.0-0.2-1.5 Distillate Fuel Oil 1.0 Asphalt and Road Oil 0.5-

Residential and Commercial Sectors,^a Monthly 0.20-



LPG[♭]

Asphalt and Road Oil

Motor Gasoline

Distillate Fuel Oild

Jet Fuel^e

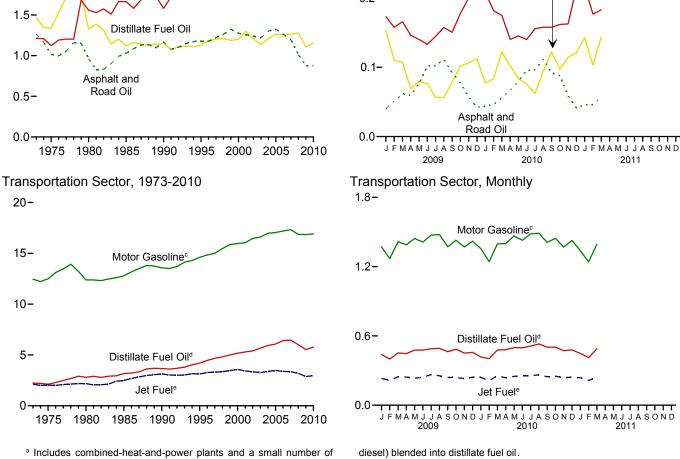
Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum.

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

Sources: Tables 3.8a-3.8c.

2010

2011



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				
973 Total	2,003	227	570	2,800	644	65	147	87	NA	665	1,60				
975 Total	1,807	161	512	2,479	587	49	129	89	NA	492	1,34				
980 Total	1,316	107	311	1,734	518	41	88	107	NA	565	1,31				
985 Total	1,092	159	314	1,565	631	33	95	96	NA	228	1,08				
990 Total	978	64	352	1,394	536	12	102	111	0	230	99				
995 Total	905	74	395	1,374	479	22	109	18	(s)	141	76				
996 Total	926	89	469	1,484	483	21	122	27	(s)	137	79				
997 Total	874	93	455	1,422	444	25	120	43	(s)	111	74				
998 Total	772	108	424	1,304	429	31	118	39	(s)	85	70				
999 Total	828	111	526	1,465	438	27	140	28	(s)	73	70				
000 Total	905	95	555	1,554	491	30	150	45	(s)	92	80				
001 Total	908	95	526	1,529	508	31	143	37	(s)	70	79				
002 Total	860	60	537	1,457	444	16	141	45	(s)	80	72				
003 Total	905	70	544	1,519	481	19	157	60	(s)	111	82				
004 Total	924	85 84	512	1,520	470 447	20	152	45	(s)	122	810				
005 Total	854		513	1,451		22	131	46	(s)	116	76				
006 Total	712	66	446	1,224	401	15	123	49	(s)	75	664				
007 Total 008 Total	726 669	44 21	484 553	1,254 1,243	384 372	9 4	121 158	61 46	(s) (s)	75 73	65 65				
009 January	80	6	47	134	55	1	12	4	(s)	10	83				
February	67	5	47	116	46	1	11	4	(s)	8	7				
March	65	2	44	113	40	(s)	12	4	(s)	8	69				
April	49	2	42	93	34	(s)	11	4	(3)	6	5				
May	35	2	40	77	24	(S)	10	5	Ő	4	4				
June	32	1	38	71	22	(s)	10	4	ő	4	40				
July	37	(s)	41	78	25	(s)	10	5	Ő	5	45				
August	39	(3)	44	84	27	(s)	11	5	(s)	5	47				
September	45	-1	42	87	31	(s)	11	4	(s)	6	52				
October	40	3	50	93	28	(s)	13	5	0	5	5				
November	40	3	55	98	27	(s)	14	4	(s)	5	5				
December	72	4	57	133	50	(0)	14	4	(s)	9	78				
Total	602	28	547	1,176	413	4	139	53	(s)	76	685				
010 January	90	2	58	149	61	(s)	15	4	(s)	12	93				
February	83	4	50	137	57	<u>`</u> 1	13	4	(s)	11	8				
March	53	2	49	103	36	(s)	12	4	(s)	7	60				
April	37	1	39	77	25	(s)	10	4	(s)	5	4				
May	40	2	41	83	28	(s)	10	5	0	5	48				
June	46	2	40	87	32	(s)	10	5	0	6	5				
July	37	2	44	83	25	(s)	11	5	0	5	40				
August	33	1	45	79	23	(s)	11	5	(s)	4	43				
September	30	1	45	76	20	(s)	11	4	(s)	4	40				
October	45	2	46	93	31	(s)	12	5	(s)	6	54				
November	51	6	46	103	35	1	12	4	(s)	7	59				
December	84	7	59	150	58	1	15	5	(s)	11	90				
Total	628	31	561	1,220	431	5	142	54	(s)	84	71				
011 January	70	2	60	132	48	(s)	15	4	(s)	9	7				
February	^R 66	6	49	^R 121	^R 45	1	12	4	(s)	^R 9	R 7				
March	50	3	52	105	34	1 2	13	4	(s)	7	59				
3-Month Total	186	11	161	359	128	2	41	13	(s)	25	20				
010 3-Month Total 009 3-Month Total	225 212	8 13	157 137	390 363	155 146	1 2	40 35	13 13	(s) (s)	30 27	23 22				

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

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 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)

					Industri	al Sector ^a				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1973 Total	1,264	1,469	156	1,215	195	255	558	1,858	2,114	9,083
1975 Total	1,014	1,339	119	1,123	149	223	540	1,509	2,109	8,127
1980 Total		1,324	181	1,559	182	158	516	1,349	3,278	9,509
1985 Total	1,029	1,119	44	1,664	166	218	575	748	2,152	7,714
1990 Total	1,170	1,150	12	1,582	186	185	714	411	2,839	8,251
1995 Total	1,178	1,131	15	1,990	178	200	721	337	2,837	8,588
1996 Total	1,176	1,187	18	2,054	173	200	757	335	3,121	9,020
1997 Total	1,224	1,203	19	2,100	182	212	727	291	3,298	9,256
1998 Total		1,211	22	2,016	191	199	858	230	3,093	9,083
1999 Total		1,187	13	2,217	193	152	936	207	3,129	9,357
2000 Total	1,276	1,200	16	2,228	190	150	796	241	2,979	9,076
2001 Total		1,300	23	2,014	174	295	858	203	3,056	9,181
2002 Total		1,204	14	2,160	172	309	842	190	3,040	9,171
2003 Total	1,220	1,136	24	2,030	159	324	825	220	3,264	9,202
2004 Total		1,214	28	2,141	161	372	934	249	3,428	9,831
2005 Total	1,323	1,264	39	2,009	160	356	889	281	3,318	9,640
2006 Total		1,263	30	2,104	156	376	934	239	3,416	9,780
2007 Total	1,197	1,265	13	2,106	161	306	906	193	3,313	9,461
2008 Total	1,012	1,277	4	1,823	150	250	868	198	2,941	8,523
2009 January	40	153	1	173	12	20	67	13	247	725
February	51	110	1	158	8	18	60	8	214	629
March	62	107	(s)	166	11	21	64	11	208	649
April	59	69	(s)	146	12	20	78	12	209	606
May	76	79	(s)	140	10	21	81	9	206	623
June	102	77	(s)	133	12	20	84	10	208	646
July	102	57	(s)	144	12	21	56	5	236	634
August	111	56	(s)	157	13	21	63	7	220	650
September	92	79	(s)	150	12	20	72	6	234	665
October		102	(s)	178	12	21	54	8	218	670
November		106	(s)	200	11	20	57	8	192	651
December	42	112	1	204	11	21	62	11	219	682
Total	873	1,107	4	1,950	135	244	799	106	2,611	7,829
2010 January	44	77	(s)	208	10	20	37	11	213	620
February	46	84	1	182	11	18	45	9	206	600
March	56	123	(s)	175	13	20	67	10	254	718
April		102	(s)	140	12	20	59	10	255	665
May		84	(s)	145	13	21	51	9	239	644
June	96	75	(s)	140	15	21	60	9	234	650
July	96	62	(s)	156	14	22	56	10	244	660
August	112	94	(s)	158	13	22	69	8	254	730
September	92	122	(s)	158	13	20	67	10	228	711
October	88	97	(s)	162	12	21	52	10	213	655
November	59	114	<u>í</u>	162	12	20	61	11	225	666
December	41	121	1	214	11	21	58	10	232	709
Total	877	1,156	5	2,000	149	245	682	119	2,797	8,029
2011 January	46	143	(s)	216	13	19	53	12	239	741
February		R 103	1	177	11	18	36	10	202	^R 603
March	58	144	1	183	14	20	50	10	259	738
3-Month Total	150	389	2	575	38	58	139	32	700	2,082
2010 3-Month Total	146	283	1	565	34	58	148	30	673	1,939
2009 3-Month Total	153	370	2	496	31	59	192	31	668	2.003

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

Notes: • Data are estimates. • For total heat content of petroleum consumption 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			F	lectric Po	wer Sector ^a	
·										Petro-		
	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	leum Coke	Residual Fuel Oil ^f	Total
1973 Total	83	2,222	2,131	49	163	12,455	727	17,832	273	15	3,226	3,515
1975 Total	71	2,121	2,029	43	155	12,485	711	17,615	226	2	2,937	3,166
1980 Total	64	2,795	2,179	18	172	12,383	1,398	19,009	169	5	2,459	2,634
1985 Total	50 45	3,170 3.661	2,497 3,129	30 23	156 176	12,784 13,575	786	19,472	85 97	7 30	998 1.163	1,090 1,289
1990 Total 1995 Total	45 40	4,195	3,129	23 18	168	13,575	1,016 911	21,626 23,070	108	30 81	1,163	755
1996 Total	37	4,469	3,132	16	163	14,837	851	23,648	100	80	628	817
1997 Total	40	4.672	3,308	14	172	14,999	712	23.918	111	102	715	927
1998 Total	35	4,812	3,357	18	180	15,463	674	24,538	136	124	1,047	1,306
1999 Total	39	5,001	3,462	14	182	15,855	665	25,219	140	112	959	1,211
2000 Total	36	5,165	3,580	12	179	15,960	888	25,820	175	99	871	1,144
2001 Total	35	5,292	3,426	14	164	16,041	586	25,557	171	103	1,003	1,277
2002 Total	34	5,392	3,340	14	162	16,465	677	26,085	127	175	659	961
2003 Total	30 31	5,666 5.932	3,265 3,383	17 19	150 152	16,597 16.962	571 740	26,297 27,219	161 111	175 222	869 879	1,205 1,212
2004 Total 2005 Total	35	6,076	3,363	28	152	17,043	837	27,645	115	243	876	1,212
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 January	2	437	231	2	11	1,371	88	2,142	11	12	38	61
February	1	400	215	2	8	1,269	48	1,943	6	11	15	33
March	2	453	247	2	10	1,415	84	2,214	7	14	13	34
April	2 2	446	244	2 2	11 9	1,389	99	2,194	5	12	11	28
May	2	477 478	234 242	2	9 11	1,444 1,412	57 78	2,225 2.226	5	13 13	14 15	32 33
June July	3	478	242	2	11	1,412	36	2,226	5	13	15	33 34
August	2	403	205	2	13	1,472	61	2,270	5	13	19	37
September	3	463	241	2	11	1,371	41	2,131	4	13	12	29
October	2	485	239	3	11	1,428	70	2,239	5	8	13	26
November	1	451	230	3	10	1,370	63	2,129	5	8	8	20
December	2	457	241	3	10	1,420	86	2,219	6	10	8	24
Total	27	5,528	2,883	28	127	16,837	810	26,240	70	139	181	390
2010 January	2	418	240	3	10	1,355	80	2,107	14	13	18	45
February	1 2	403 478	213 254	3 2	10 13	1,242 1,397	64 81	1,936 2,227	54	12 13	7 8	23 25
March April	2	478 480	254 237	2	13	1,397	81	2,227 2,219	4	13	8 8	25 23
May	2	499	250	2	13	1,465	72	2,213	6	12	13	31
June	3	497	256	2	14	1,428	60	2,260	7	14	20	41
July	3	512	256	2	13	1,483	73	2,343	8	15	24	46
August	2	530	261	2	12	1,489	61	2,358	6	12	19	37
September	3	502	247	2	12	1,409	81	2,257	5	11	12	28
October	2	502	251	2	12	1,444	75	2,290	5	10	7	22
November	2	472	238	2	11	1,369	93	2,187	5	9	7	21
December	2	479	243	3	10	1,426	76	2,240	11	12	13	36
Total	27	5,771	2,946	29	140	16,908	904	26,726	80	143	155	378
2011 January	2	449 ^R 412	238	3	12	1,337	89	2,131	7	15	11	34
February March	2	412	213 244	3 3	10 14	1,241 1,391	85 82	^R 1,965 2,224	55	11 14	7 7	23 26
3-Month Total	3 7	488 1,349	244 696	3 8	36	3,969	82 256	2,224 6,321	17	40	25	26 82
2010 3-Month Total 2009 3-Month Total	5 6	1,298 1,290	707 693	8 7	33 29	3,994 4,054	225 219	6,270 6,299	23 24	37 38	33 65	93 127

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 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector Other" on Table 3.8b. ^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

Finished motor gasoline. Beginning in 1993, also includes fuel ethanol ^e Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

¹ Fuel oil nos. 5 and 6. Through 2000, electric utility data also include small ¹ 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 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 independent soundates concernents encourage in the 50 Ottober 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 3.6 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 "Other" petroleum products sources for Table 3.5). include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products; beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components; beginning in 1983, also includes crude oil burned as fuel; and beginning in 2005, also includes naphtha-type jet fuel. These data are converted to trillion Btu by multiplying by the appropriate heat content factors in MER Table A1. Total "Other" petroleum product supplied is the sum of the data in trillion Btu for the individual products.

For the current two months, total "Other" petroleum products supplied is calculated 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."

1981–2009: EIA, *Petroleum Supply Annual*. 2010 and 2011: 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

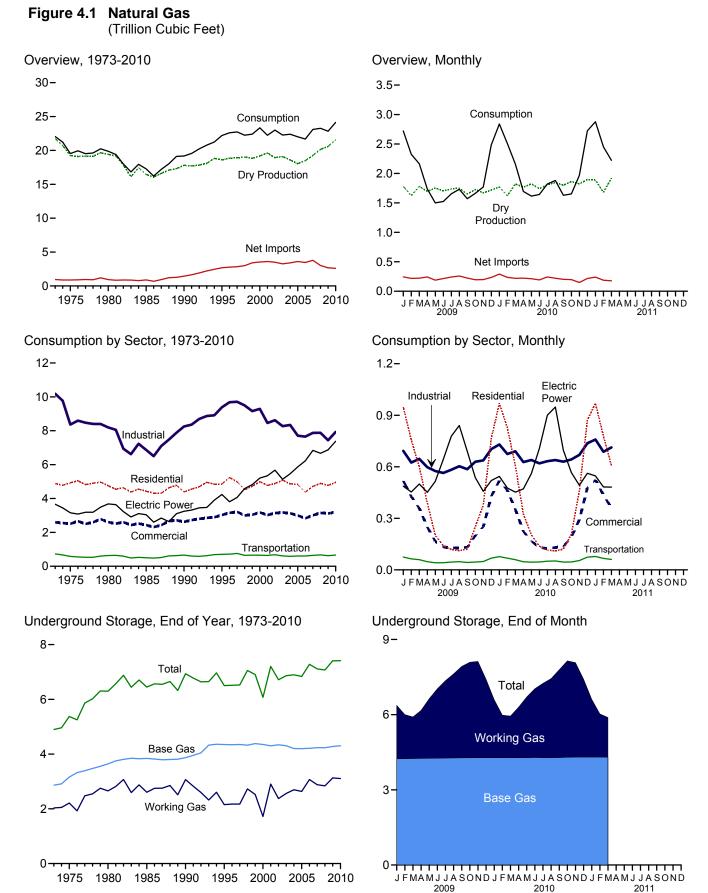
Transportation sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Transportation Sector" in Table 3.8c. Electric power sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Electric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



Natural Gas



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



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

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	Gross	Marketed			Supple- mental		Trade		Net Storage		
	With- drawals ^a	Production (Wet) ^b	Extraction Loss ^c	Dry Gas Production ^d	Gaseous Fuels ^e	Imports	Exports	Net Imports	With- drawals ^f	Balancing Item ^g	Consump- tion ^h
1973 Total	24,067	22,648	917	ⁱ 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	17,270	816	16,454	126	950	55	894	235	-428	17,281
1990 Total	21,523	18,594	784	17,810	123	1,532	86	1,447	-513	307	19,174
1995 Total	23,744	19,506	908	18,599	110	2,841	154	2,687	415	396	22,207
1996 Total	24,114	19,812	958	18,854	109	2,937	153	2,784	2	860	22,609
1997 Total	24,213	19,866	964	18,902	103	2,994	157	2,837	24	871	22,737
1998 Total	24,108	19,961	938 973	19,024	102 98	3,152	159	2,993	-530	657 -119	22,246
1999 Total	23,823 24,174	19,805 20,198	1,016	18,832 19,182	90 90	3,586 3.782	163 244	3,422 3,538	172 829	-306	22,405 23,333
2000 Total 2001 Total	24,174 24,501	20,198	954	19,102	90 86	3,762	373	3,536	-1,166	-306	23,333
2002 Total	23,941	19,885	957	18,928	68	4,015	516	3,499	468	44	23,007
2002 Total	23,941	19,885	876	19,099	68	3,944	680	3,499	-197	44	22,277
2003 Total	23,970	19,517	927	18,591	60	4,259	854	3,404	-114	448	22,389
2005 Total	23,457	18,927	876	18,051	64	4.341	729	3,612	52	232	22,011
2006 Total	23,535	19,410	906	18,504	66	4,186	724	3,462	-436	89	21,685
2007 Total	24,664	20,196	930	19,266	63	4,608	822	3,785	192	-209	23,097
2008 Total	25,636	21,112	953	20,159	61	3,984	963	3,021	34	-7	23,268
2009 January	2,249	1,867	89	1,779	6	357	113	244	719	-27	2,721
February	2,071	1,701	81	1,621	5	322	103	218	380	101	2,325
March	2,257	1,869	89	1,781	6	325	104	221	98	58	2,164
April	2,143	1,779	84	1,694	5	322	80	242	-257	51	1,736
May	2,186	1,838	87	1,751	6	266	77	189	-475	29	1,499
June	2,137	1,788	85	1,703	5	282	66	216	-393	-8	1,523
July	2,166	1,823	86	1,737	5	317	76	240	-345	15	1,653
August	2,189	1,839	87	1,752	6	337	79	258	-280	-4	1,731
September	2,086	1,731	82	1,649	5	307	84	223	-301	-6	1,570
October	2,195	1,813	86	1,727	5	273	78	195	-172	-94	1,662
November	2,139	1,752	83	1,669	5	295	97	198	-36	-66	1,771
December	2,196	1,802	85	1,717	5	350	115	234	707	-180	2,484
Total	26,013	21,604	1,024	20,580	65	3,751	1,072	2,679	-355	-130	22,840
2010 January February	2,225 2,051	E 1,850 E 1,697	80 75	^E 1,770 ^E 1,622	6 6	385 324	94 88	291 236	812 620	-40 25	2,840 2,508
	2,001	E 1,906	84	^E 1,821	6	318	100	230	36	23 77	2,508
March April	2,304 2,208	^E 1,847	81	^E 1,766	5	298	76	219	-355	57	2,159
May	2,208	E 1,909	85	^E 1,824	4	298	86	213	-409	-17	1,695
June	2,142	E 1,820	80	E 1.740	6	282	90	192	-403	25	1,643
July	2,194	E 1,891	81	E 1,810	6	328	86	242	-227	-10	1,821
August	2,231	E 1,928	84	E 1.844	ő	304	84	220	-186	-4	R 1,880
September	2,241	E 1,883	83	E 1,800	ő	281	79	202	-353	-26	1,629
October	2,333	E 1,948	86	E 1.861	6	294	96	198	-352	-60	1,653
November	2,284	E 1,907	84	E 1,823	6	272	124	149	74	-85	1,967
December	2,394	E 1,984	87	E 1,897	5	351	135	216	666	-60	2,724
Total	26,858	E 22,569	992	E 21,577	67	3,737	1,137	2,600	5	-117	^R 24,133
2011 January	2,309	E 1,972	85	E 1,887	6	R 372	132	^R 240	799	R -55	2,877
February	2,109	E 1,752	73	E 1,679	6	^R 309	^R 122	^R 186	584	R -5	2,451
March	2,413	E 2,010	91	E 1,919	6	318	141	177	145	-25	2,223
3-Month Total	6,832	^E 5,735	250	^E 5,485	18	999	395	604	1,528	-84	7,551
2010 3-Month Total 2009 3-Month Total	6,580 6,576	^E 5,453 5,438	240 258	^E 5,213 5,180	18 16	1,027 1,003	281 320	746 684	1,468 1,197	62 132	7,507 7,210

^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.

^c 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 1980-2009, 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 bother countral.

delivered to its destination via the other country). ^h See Note 6, "Natural Gas Consumption," at end of section.

¹ 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. Totale may not equal our of components due to independent repuding the 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.

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: 1973-2005—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2006 forward—EIA, Natural Gas Monthly, May 2011, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports							Exports		
	Algeriaª	Canada ^b	Egypta	Mexicob	Nigeriaa	Qatara	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	Japan ^a	Mexicob	Other ^{a,d}	Total
	Algena	Canaua	Egypt	WEXICO	Nigena	Qalai-	Tubayu	Others	TULAI	Canaua	Japan	WEXICO	Others	TOLA
973 Total	3	1,028	0	2	0	0	0	0	1,033	15	48	14	0	77
975 Total	5	948	0	0	0	0	0	0	953	10	53	9	0	73
980 Total	86	797	0	102	0	0	0	0	985	0	45	4	0	49
985 Total	24	926	0	0	0	0	0	0	950	0	53	2	0	55
990 Total	84	1,448	0	0	0	0	0	0	1,532	17	53	16	0	86
995 Total	18	2,816	0	7	0	0	0	0	2,841	28	65	61	0	154
996 Total	35 66	2,883	0	14 17	0	0	0	5	2,937	52 56	68	34 38	0	153 157
997 Total		2,899	0	17	0	0	0	12 17	2,994	56 40	62 66	38 53	0	15/
998 Total 999 Total	69 76	3,052 3,368	0	55	0	20	51	17	3,152 3,586	39	64	53 61	0	163
000 Total	47	3,500	Ő	12	13	46	99	21	3,580	73	66	106	0	244
001 Total	65	3,544	Ő	12	38	23	98	14	3,977	167	66	141	0	373
002 Total	27	3,729	Ő	2		35	151	8	4.015	189	63	263	Ö	516
003 Total	53	3,437	ŏ	0	50	14	378	11	3,944	271	66	343	ŏ	680
2004 Total	120	3.607	ŏ	ŏ	12	12	462	46	4.259	395	62	397	ŏ	854
2005 Total	97	3,700	73	9	8	3	439	11	4,341	358	65	305	ŏ	729
2006 Total	17	3,590	120	13	57	ŏ	389	0	4,186	341	61	322	ŏ	724
2007 Total	77	3,783	115	54	95	18	448	18	4,608	482	47	292	2	822
008 Total	0	3,589	55	43	12	3	267	15	3,984	559	39	365	0	963
009 January	0	324	5	6	0	0	19	3	357	84	2	28	0	113
February	0	293	6	(s)	0	0	16	6	322	75	3	25	0	103
March	0	293	12	1	0	0	17	3	325	77	3	24	0	104
April	0	259	22	7	8	0	20	6	322	55	2	23	0	80
May	0	216	15	1	0	0	31	3	266	46	2	29	0	77
June	0	230	14	1	0	0	34	3	282	37	2	28	0	66
July	0	270	14	2	3	0	21	6	317	42	4	31	0	76
August	0	299	17	3	0	0	17	0	337	45	2	32	0	79
September	0	274	14	1	2	0	15	0	307	47	4	33	0	84
October	0	244	15	2	0	0	13	0	273	47	2	29	0	78
November	0	258 311	12	(s) 3	0	8	17	0	295 350	66	2 4	29 28	0 3	97
December	0	÷ · ·	14	28		4 13	17	29		81	4 31		3 3	115
Total	0	3,271	160	28	13	13	236	29	3,751	701	31	338	3	1,072
010 January February	0 0	327 277	17 12	1 1	0 0	12 6	22 16	6 12	385 324	68 60	2 2	23 22	0 3	94 88
March	0	277	9	5	3	0	16	9	324 318	77	2	22	0	oc 100
April	0	251	6	5	9	9	15	3	298	50	4	22	0	76
May	0	257	9	4	9	0	16	3	298	55	2	22	0	86
June	ŏ	248	6	2	11	Ő	11	5	282	51	2	34	3	90
July	Ő	290	6	1	5	Ő	17	8	328	50	4	32	Ő	86
August	Ō	281	Õ	1	Ō	Ō	17	5	304	49	2	33	Ō	84
September	0	250	6	3	3	0	16	3	281	50	7	23	0	79
October	0	256	3	4	2	5	15	9	294	63	2	25	6	96
November	0	241	0	(s)	0	9	14	9	272	84	2	30	8	124
December	0	321	0	1	0	4	15	9	351	82	3	38	12	135
Total	0	3,276	73	30	42	46	190	81	3,737	739	33	333	32	1,137
011 January	0	R 332	3	(s)	0	13	16	9	R 372	81	2	37	13	132
February	0	R 276	6	(s)	0	0	11	15	^R 309	^R 81	2	R 37	3	R 122
March	0	279	6	(s)	0	14	10	9	318	94	2	41	3	141
3-Month Total	0	887	15	1	0	27	37	32	999	256	6	114	19	395
010 3-Month Total	0 0	880 911	37 23	8 7	3 0	19 0	54 52	27 12	1,027 1,003	206 235	6 8	67 77	3 0	281 320

^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 and 2011; and Other (unassigned) in 2004.
 ^d Brazil in 2010; India in 2010 and 2011; 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.

Notes: • See Note 9, "Natural Gas Imports and Exports," at end of section.
• Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973. Sources: • 1973-1987: U.S. Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."
• 1988-2008: EIA, Natural Gas Annual, annual reports. • 2009 forward: EIA, Natural Gas Monthly, May 2011, Table 4; 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-Use	Sectors						
					Industrial			Tr	ansportatio	on		
	Resi- dential	Com- mercial ^a	Lease and Plant Fuel	CHPb	Other Industri	al Total	Total	Pipelines ^d and Dis- tribution ^e	Vehicle Fuel	Total	Electric Power Sector ^{f,g}	Total
1973 Total 1975 Total 1980 Total 1980 Total 1985 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2007 Total 2007 Total	4,879 4,924 4,752 4,433 4,391 4,850 5,241 4,984 4,520 4,996 4,771 4,889 5,079 4,869 5,079 4,827 4,827 4,827 4,892	2,597 2,508 2,611 2,432 2,623 3,031 3,158 3,215 2,999 3,045 3,182 3,045 3,182 3,023 3,144 3,179 3,129 2,999 2,832 2,999 2,832 3,013 3,153	1,496 1,396 966 1,236 1,220 1,220 1,203 1,173 1,173 1,173 1,173 1,173 1,171 1,119 1,113 1,122 1,098 1,112 1,142 1,226 1,220	(h) (h) (h) 1,258 1,289 1,355 1,401 1,310 1,240 1,310 1,240 1,141 1,084 1,115 1,955	8,689 6,968 7,172 5,963 6,906 7,146 7,229 6,965 6,678 6,757 6,035 6,267 6,007 6,052 5,514 5,398 5,598 5,706	8,689 6,968 7,172 5,901 8,164 8,435 8,511 8,329 8,142 7,307 7,150 7,150 7,243 7,507 7,1250 7,243 6,597 6,512 6,648 6,661	10,185 8,365 8,198 6,867 8,255 9,384 9,685 9,714 9,493 9,158 9,293 8,463 8,620 8,273 8,341 7,709 7,654 7,874 7,881	728 583 635 504 660 700 711 751 635 645 645 645 667 591 566 584 584 584 621 648	NA NA NA NA NA S 6 8 9 12 13 15 18 1234 23 245 26	728 583 635 504 660 705 718 760 645 655 645 655 645 682 610 587 607 608 646 674	3,660 3,158 3,044 3,245 4,237 4,065 4,588 4,820 5,206 5,342 5,672 5,672 5,135 5,464 5,869 6,222 6,841 6,668	22,049 19,538 19,877 17,281 19,174 22,609 22,737 22,245 23,333 22,239 23,007 22,277 22,277 22,201 23,007 22,011 21,685 23,097 23,268
2009 January February April May June July August September October November December Total	948 756 600 201 141 119 111 120 251 376 764 4,778	518 427 358 249 166 134 128 129 131 199 251 429 3,119	110 101 111 105 108 107 108 107 108 102 107 104 107 1,275	81 71 79 74 77 82 89 92 88 88 85 81 91 990	502 452 457 391 377 387 403 396 437 452 505 5,177	582 524 536 492 468 459 476 495 484 533 596 6,167	693 625 646 597 575 564 583 603 586 629 637 703 7,442	72 62 57 45 39 43 43 45 41 43 46 66 598	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	75 64 59 48 41 42 45 48 43 46 49 68 627	487 453 500 451 515 643 778 840 690 537 457 520 6,873	2,721 2,325 2,164 1,736 1,499 1,523 1,653 1,731 1,570 1,662 1,771 2,484 22,840
2010 January February March May July August September October November December Total	970 827 606 325 204 138 115 110 121 208 458 871 4,952	519 462 352 224 166 132 123 R 131 136 190 292 479 3,206	E 109 E 100 E 112 E 109 E 113 E 107 E 113 E 114 E 114 E 115 E 113 E 117 E 1,332	90 78 84 79 81 83 88 87 85 82 81 91 1,007	531 496 494 440 430 433 438 438 434 446 476 529 5,593	621 574 578 519 527 521 525 519 528 557 620 6,600	730 674 628 640 632 639 630 643 669 737 7,932	E 74 E 66 E 57 E 42 E 43 E 43 E 43 E 43 E 43 E 43 E 43 E 52 E 71 E 632	E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E	E 77 E 68 E 59 E 47 E 45 E 46 E 50 E 52 E 45 E 46 E 54 E 74 E 665	544 477 452 560 707 900 948 696 566 493 562 7,378	2,840 2,508 2,159 1,695 1,615 1,643 1,821 R 1,880 1,629 1,653 1,967 2,724 R 24,133
2011 January February March 3-Month Total 2010 3-Month Total 2009 3-Month Total	970 779 606 2,356 2,402 2,304	523 435 361 1,319 1,333 1,303	E 116 E 103 E 119 E 339 E 322 322	88 78 82 249 252 231	554 506 512 1,572 1,521 1,411	643 584 594 1,820 1,773 1,642	759 687 713 2,159 2,095 1,964	E 75 E 64 E 58 E 197 E 197 191	E3 E3 E8 E8 E 8	E 78 E 67 E 61 E 206 E 205 198	547 483 482 1,511 1,473 1,441	2,877 2,451 2,223 7,551 7,507 7,210

^a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table ^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."

"CHP.".
 ^d Natural gas consumed in the operation of pipelines, primarily in compressors.
 ^e Natural gas used as fuel in the delivery of natural gas to consumers.
 ^f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
 ^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
 ^h Included in "Non-CHP."
 ⁱ For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector." See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.
 R=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: 1973-2005—U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports. 2006 forward—EIA, *Natural Gas Monthly (NGM)*, May 2011, 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 conversion factor (see Table A4). 1999-2005—EIA, NGA, annual reports. 2006 forward—EIA A) 1999-2005—EIA, NGA, annual reports. 2006 forward—EIA, NgM, May 2011, Table 2.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

_	U	Natural Gas in nderground Storage End of Period	9,	From Sa	Vorking Gas ne 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
1980 Total	3.642	2,655	6.297	-99	-3.6	1,910	1.896	14
1985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231
	3,868	3,068	6,936	555	22.1	1,934	2,433	-499
990 Total								
995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526
999 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174
2000 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814
2001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
2002 Total	4,340	2.375	6.715	-528	-18.2	3,138	2.670	468
2003 Total	4.303	2.563	6.866	187	7.9	3.099	3,292	-193
2004 Total	4,201	2,696	6.897	133	5.2	3.037	3,150	-113
2005 Total	4,200	2,635	6.835	-61	-2.3	3.057	3.002	55
	4,200	3.070	7.281	435	16.5	2,493	2.924	-431
2006 Total								
2007 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 January	4,237	2,133	6,370	77	3.8	783	78	705
February	4,243	1,758	6,001	293	20.0	472	100	372
March	4,248	1,660	5,908	394	31.1	294	202	93
April	4,255	1,910	6,165	474	33.0	106	356	-251
May	4,257	2,375	6,632	535	29.1	45	512	-467
June	4.268	2,760	7.028	583	26.8	62	448	-386
July	4,263	3,090	7,354	573	22.8	83	421	-338
	4,267	3,359	7,626	493	17.2	88	362	-274
August								
September	4,276	3,646	7,922	485	15.3	57	352	-295
October	4,281	3,810	8,091	410	12.1	99	266	-167
November	4,288	3,837	8,125	492	14.7	140	173	-33
December	4,277	3,130	7,407	290	10.2	738	44	694
Total	4,277	3,130	7,407	290	10.2	2,966	3,315	-349
010 January	4,278	2,319	6,597	185	8.7	877	65	812
February	4,281	1,696	5,978	-62	-3.5	660	40	620
March	4,282	1,662	5,944	3	.2	240	204	36
April	4.281	2.012	6.293	102	5.4	70	425	-355
May	4.282	2.421	6,703	47	2.0	55	464	-409
June	4,289	2,741	7.030	-19	7	64	385	-321
July	4,283	2,967	7,249	-123	-4.0	114	340	-227
		2,967		-123	-4.0 -6.2	143	329	-227
August	4,283		7,433					
September	4,287	3,500	7,787	-146	-4.0	56	409	-353
October	4,300	3,847	8,146	37	1.0	52	405	-352
November	4,304	3,773	8,077	-65	-1.7	238	163	74
December	4,305	3,107	7,412	-23	7	732	66	666
Total	4,305	3,107	7,412	-23	7	3,303	3,298	5
011 January	4,306	2,308	6,614	-11	5	852	53	799
February	4,306	1,724	6,029	27	1.6	668	84	584
March	4,304	1,581	5,884	-82	-4.9	317	172	145
3-Month Total				-02	-4.5	1,838	310	1,528
010 3-Month Total						1,778	310	1,468
009 3-Month Total							380	1,466
UUM SHUODID LOTAL						1,549	380	1.169

^a For total underground storage capacity at the end of each calendar year, see Note 4, "Natural Gas Storage," at end of section.

Note 4, "Natural Gas Storage," at end of section. ^b For 1980-2009, data differ from those shown on Table 4.1, which includes liquefied natural qas storage for that period.

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

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

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.

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. 1996-2005—EIA, Natural Gas Monthly (NGM), monthly issues. 2006 forward—EIA, NGM, May 2011, Table 6. • 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 50, Gas Facts, 1973 Data, Table 57, and Gas Facts, 1974 Data, Table 40. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report." and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report." 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, May 2011, Table 6.

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

1975 6,280 1976 6,544 1977 6,678	1987 8,124 1988 8,124 1989 8,120	1999 8,229 2000 8,241 2001 8,182
1978 6,890 1979 6,929	1990 7,794 1991 7,993	2002 8,207 2003 8,206
1980 7,434 1981 7,805 1982 7,915	1992 7,932 1993 7,989 1994 8,043	2004 8,255 2005 8,268 2006 8,330
1983 7,985 1984 8,043	1995 7,953 1996 7,980	2007 8,402 2008 8,499
1985 8,087 1986 8,145	1997 8,332 1998 8,179	2009 8,656 2010 ^P 8,710

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 1980–2009 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 shown in EIA's Natural Gas Navigator (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-The Table 4.3 data series (and years) that were -2000). 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, 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.*

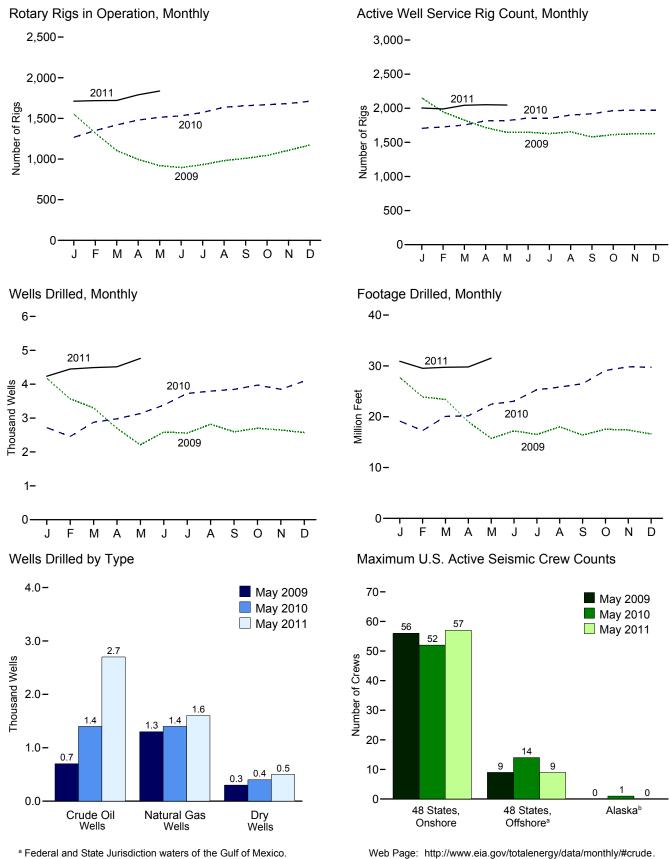


Crude Oil and Natural Gas Resource Development



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





^a Federal and State Jurisdiction waters of the Gulf of Mexico. ^b All onshore.

Sources: Tables 5.1-5.3.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

		Re	otary Rigs in Operatio	n ^a		
	By	Site	Ву	Туре		Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Rig Count ^c
973 Average	1.110	84	NA	NA	1.194	2.008
975 Average	1,554	106	NA	NA	1,660	2,486
980 Average	2,678	231	NA	NA	2,909	4,089
985 Average	1,774	206	NA	NA	1,980	4,716
990 Average	902	108	532	464	1.010	3.658
995 Average	622	100	323	385	723	3,030
	671	101	306	464	779	3,445
996 Average	821	122	376	564	943	3,499
997 Average	703				943 827	
998 Average	519	123 106	264	560 496		3,014
999 Average			128		625	2,232
000 Average	778	140	197	720	918	2,692
001 Average	1,003	153	217	939	1,156	2,267
002 Average	717	113	137	691	830	1,830
003 Average	924	108	157	872	1,032	1,967
004 Average	1,095	97	165	1,025	1,192	2,064
005 Average	1,287	94	194	1,184	1,381	2,222
006 Average	1,559	90	274	1,372	1,649	2,364
007 Average	1,695	72	297	1,466	1,768	2,388
008 Average	1,814	65	379	1,491	1,879	2,515
009 January	1,487	66	328	1,215	1,553	2,152
February	1,263	57	271	1,037	1,320	1,947
March	1,059	46	225	867	1,105	1,825
April	947	48	209	775	995	1,718
May	864	54	187	723	918	1,646
June	848	47	194	691	895	1,648
July	893	38	245	675	931	1,629
August	949	31	279	691	980	1,653
September	976	33	293	704	1,009	1,579
October	1,011	33	312	722	1,044	1,613
November	1,071	36	362	734	1,107	1,625
December	1,136	37	404	758	1,172	1,625
Average	1,046	44	278	801	1,089	1,722
010 January	1,225	42	433	822	1,267	1,706
February	1,305	45	446	892	1,350	1,726
March	1,368	51	471	933	1,419	1,754
April	1,426	53	508	959	1,479	1,816
May	1,464	49	541	960	1,513	1,818
June	1,511	20	566	953	1,531	1,857
July	1,558	15	591	971	1,573	1,852
August	1,619	20	644	983	1,638	1,900
September	1,635	19	668	977	1,655	1,918
October	1,647	21	693	966	1,668	1,965
November	1,662	22	723	950	1,683	1,971
December	1,687	24	759	940	1,711	1,968
Average	1,514	31	591	943	1,546	1,854
011 January	1,686	26	793	909	1,711	2,004
February	1,692	26	801	907	1,718	1,990
March	1,694	26	830	884	1,720	2,044
April	1,762	28	896	885	1,790	2,052
May	1,804	32	948	878	1,836	2,047
5-Month Average	1,729	27	856	892	1,757	2,027
010 5-Month Average	1,361	48	481	915	1,409	1,764
009 5-Month Average	1,129	55	245	927	1,183	1,858

^a Rotary rigs in operation are reported weekly. Monthly data are averages of 4or 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.

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.

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

NA=Not available.

Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all

available data beginning in 1973. Sources: • Rotary Rigs in Operation: By Site—Baker Hughes, Inc., Houston, Texas, *Rotary Rigs Running—by State*. By Type—Baker Hughes, Inc., Houston, Texas, weekly phone recording. • Active Well Service Rig Count: Cameron International Corporation, Houston, Texas. See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells	Drilled						
		Explo	ratory			Develo	pment			То	tal		Total
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Footage
						Nun	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 1.777	1,248 2.099	7,129 9.081	9,359	15,966	6,879	6,517	29,362 58,248	16,948	8,127	13,646	38,721	180,494 316.943
1980 Total 1985 Total	1,777	2,099	9,081 8,954	12,957 11,834	31,182 33,581	15,362 13,124	11,704 12,257	58,248 58,962	32,959 35,261	17,461 14,324	20,785 21,211	71,205 70,796	316,943
1990 Total	778	811	3,652	5,241	12,061	10,435	4,593	27,089	12,839	11,246	8,245	32,330	156,183
1995 Total	570	558	2,024	3,152	7,678	7,524	2,790	17,992	8,248	8,082	4,814	21,144	117,378
1996 Total	489 491	576 562	1,956	3,021	8,347 10,715	8,451 10,936	2,934	19,732 25,412	8,836 11,206	9,027 11,498	4,890 5,874	22,753	126,634 161,704
1997 Total 1998 Total	327	562	2,113 1,590	3,166 2,483	7,355	11,073	3,761 3,171	25,412	7,682	11,490	5,674 4,761	28,578 24,082	137,581
1999 Total	197	570	1,157	1,924	4,608	11,457	2,393	18,458	4,805	12,027	3,550	20,382	103,024
2000 Total	288	657	1,341	2,286	7,802	16,394	2,805	27,001	8,090	17,051	4,146	29,287	144,591
2001 Total	357 258	1,052 844	1,733 1,282	3,142 2,384	8,531	21,020 16,498	2,865 2,472	32,416 25,487	8,888 6,775	22,072 17,342	4,598 3,754	35,558 27,871	180,230 145,322
2002 Total 2003 Total	258 350	844 997	1,282	2,384 2.644	6,517 7.779	16,498	2,472	25,487 30,189	6,775 8.129	20.722	3,754	32.833	145,322
2004 Total	383	1,671	1,350	3,404	8,406	22,515	2,732	33,653	8,789	24,186	4,082	37,057	204,807
2005 Total	539	2,135	1,462	4,136	10,240	26,449	3,191	39,880	10,779	28,584	4,653	44,016	240,861
2006 Total	644 825	2,450	1,537 1.600	4,631	12,586 12.525	30,310	3,618 3.441	46,514	13,230	32,760 32.852	5,155	51,145 51,243	282,312
2007 Total 2008 Total	825 921	2,777 2,459	1,600	5,202 4,970	12,525	30,075 30,872	3,441	46,041 50,534	13,350 16,791	32,852 33,331	5,041 5,382	55,504	303,482 345,912
		,		,		,	,			,			
2009 January February	82 62	187 139	111 98	380 299	1,196 1,021	2,340 2.030	259 217	3,795 3,268	1,278 1,083	2,527 2,169	370 315	4,175 3,567	27,723 23,895
March	59	167	90	318	904	2,030	217	2.981	963	2,109	313	3,307	23,895
April	39	72	102	213	786	1,481	217	2,484	825	1,553	319	2,697	19,026
May	50	101	88	239	601	1,206	163	1,970	651	1,307	251	2,209	15,735
	47 44	95 94	83 114	225 252	804 801	1,361	199 229	2,364 2,305	851 845	1,456	282 343	2,589	17,207 16.513
July August	44 49	94 89	94	232	924	1,275 1,441	229	2,305	645 973	1,369 1,530	343 315	2,557 2,818	18.022
September	58	77	105	240	945	1,192	219	2,356	1,003	1,269	324	2,596	16,378
October	55	82	84	221	1,023	1,219	236	2,478	1,078	1,301	320	2,699	17,549
November	40	94	87	221	1,040	1,178	209	2,427	1,080	1,272	296	2,648	17,373
December Total	33 618	92 1,289	99 1,157	224 3,064	987 11,032	1,144 17,718	217 2,612	2,348 31,362	1,020 11,650	1,236 19,007	316 3,769	2,572 34,426	16,619 229,444
				,						,			
2010 January February	59 47	90 82	96 80	245 209	963 942	1,328 1,137	184 168	2,475 2,247	1,022 989	1,418 1,219	280 248	2,720 2,456	19,130 17,260
March	^R 62	R 88	102	209	1,109	1,137	225	2,247	^R 1,171	^R 1,376	327	2,430	20,058
April	54	90	81	225	1,231	1,246	277	2,754	1,285	1,336	358	2,979	20,180
May	55	112 R 117	97	264 ^R 286	R 1,312	R 1,281	R 277	R 2,870	^R 1,367	R 1,393	R 374	^R 3,134	22,449
June July	61 53	^R 117 ^R 106	108 124	^R 286 ^R 283	1,457 1,476	1,315 1,504	324 464	3,096 3,444	1,518 1,529	^R 1,432 ^R 1,610	432 588	^R 3,382 ^R 3,727	23,060 25,308
August	^R 59	130	108	^R 297	1,619	1,538	342	3,499	^R 1,678	1,668	450	^R 3,796	25,830
September	73	^R 99	99	^R 271	1,602	1,675	297	3,574	1,675	^R 1,774	396	^R 3,845	26,507
October	77 R co	R 101	130 B 407	R 308	^R 1,630	1,684	350	^R 3,664	R 1,707	R 1,785	480 B 205	^R 3,972	29,106
November December	^R 69 85	122 109	^R 107 132	^R 298 326	^R 1,579 ^R 1,879	1,685 1,597	288 289	^R 3,552 ^R 3,765	^R 1,648 ^R 1,964	1,807 1,706	^R 395 421	^R 3,850 ^R 4,091	29,820 29,730
Total	R 754	^R 1,246	^R 1,264	^R 3,264	R 16,799	R 17,278	^R 3,485	^R 37,562	^R 17,553	^R 18,524	^R 4,749	^R 40,826	288,438
2011 January	91	115	132	338	^R 2,017	1,588	292	^R 3,897	^R 2,108	1,703	424	^R 4,235	30,914
February	93	116	133	342	2,283	1,550	273	4,106	2,376	1,666	406	4,448	29,520
March	100	119	135	354	2,304	1,536	297	4,137	2,404	1,655	432	4,491	29,723
April May	104 109	111 108	139 142	354 359	2,328 2,568	1,518 1,512	314 323	4,160 4,403	2,432 2.677	1,629 1.620	453 465	4,514 4,762	29,785 31.524
5-Month Total	497	569	681	1,747	2,566 11, 500	7,704	1,499	4,403 20,703	2,077 11,997	8,273	2,180	4,762 22,450	151,524
2010 5-Month Total 2009 5-Month Total	277 292	462 666	456 491	1,195 1,449	5,557 4,508	6,280 8,908	1,131 1,082	12,968 14,498	5,834 4.800	6,742 9,574	1,587 1,573	14,163 15,947	99,077 109,783

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

vveo Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all available data beginning in 1973.
 Sources: • 1973–1989: U.S. Energy Information Administration (EIA) computations based on well reports submitted to the American Petroleum Institute.
 1990 forward: EIA computations based on well reports submitted to IHS, Inc., Denver, CO.

Table 5.3 Maximum U.S. Active Seismic Crew Counts

(Number of Crews)

		48 States,	Onshore			48 States,	Offshore ^a			Alas	ska ^b		
	D	imensions	с		D	imensions	c		D	imensions	,c		
	2	3	4	Totald	2	3	4	Totald	2	3	4	Totald	Tota
000 May	3	34	1	38	6	11	0	18	1	2	0	3	59
001 May	7	37	1	45	9	8	0 0	17	1	1	ő	2	64
002 May	8	24	Ó	32	9	8	0	17	1	1	0	2	51
003 May	7	17	0	24	8	4	0	12	1	1	0	2	38
	9	26	0	35		4	0	9		0	0	2	44
004 May					5				0	-			
005 May	8	34	0	42	7	6	0	13	0	0	0	0	55
006 May	4	42	0	46	5	6	0	11	0	1	0	1	58
007 May	3	55	0	58	4	6	1	11	0	1	0	1	70
008 May	4	54	0	58	3	11	1	15	0	0	0	0	73
009 January	2	63	0	65	2	8	0	10	0	0	0	0	75
February	3	62	0	65	2	9	0	11	0	0	0	0	76
March	3	59	0	62	2	8	0	10	0	0	0	0	72
April	3	57	0	60	2	8	0	10	0	0	0	0	70
May	2	54	0	56	2	7	0	9	0	0	0	0	65
June	2	50	0	52	2	6	0	8	0	0	0	0	60
July	2	51	ŏ	53	2	õ	ŏ	8	ŏ	ŏ	õ	ŏ	61
August	2	49	Õ	51	3	6	õ	9	õ	õ	Ő	õ	60
September	1	49	Ő	50	4	6	ŏ	10	õ	õ	Ő	õ	60
October	1	50	0	51	5	7	Ő	12	0	0	Ő	Ő	63
November	Ó	49	0	49	5	8	0	13	0	0	0	0	62
	0	49 49	0	49 49	5 5	о 8	0	13	0	1	0	1	62
December	0	49	0	49	5	0	0	13	0	I	0	I	63
010 January	0	50	0	50	5	8	0	13	0	1	0	1	64
February	0	51	0	51	5	8	0	13	0	1	0	1	65
March	0	49	0	49	5	8	0	13	0	1	0	1	63
April	1	51	0	52	5	8	0	13	0	1	0	1	66
May	1	50	0	52	5	9	0	14	0	1	0	1	67
June	2	50	0	52	4	10	0	14	0	1	0	1	67
July	2	51	0	53	3	10	0	13	0	1	0	1	67
August	2	50	Ō	52	4	9	0	13	0	0	0	0	65
September	2	49	õ	51	4	9	õ	13	õ	õ	õ	õ	64
October	1	50	õ	51	4	7	Ō	11	Ō	õ	Ō	Ō	62
November	1	50	õ	51	4	7	õ	11	õ	õ	Õ	õ	62
December	1	51	õ	52	4	6	Ő	10	Ő	Ő	Ő	Ő	62
011 January	2	52	0	54	4	6	0	10	0	0	0	0	64
	2	53	0	56	4	6	0	9	0	0	0	0	65
February										-		-	
March	2	52	0	54	3	6	0	9	0	0	0	0	63
April	2	53	0	55	3	6	0	9	0	0	0	0	64
May	3	54	0	57	3	6	0	9	0	0	0	0	66

^a Federal and State Jurisdiction waters of the Gulf of Mexico.

b All onshore.

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

elimination of the "ghost" or "side swipe" reflections from nearby offline features that 2D surveys are prone to (except, of course, along the outer faces of the cube). **Four dimensional** (4D) reflection seismic surveying is the exact repetition of a 3D survey at two or more time intervals. The primary application of 4D is mapping the

 survey at two or more time intervals. The primary application of 4D is mapping the movement of fluid interfaces in producing oil and gas reservoirs.
 ^d Includes crews with unknown survey dimension.
 Notes: • A "seismic crew" is a group of people, of varying number, engaged in a seismic surveying job.
 "48 States" is the United States excluding Alaska and Hawaii. • Data are reported on the first and fifteenth of each month, except January when they are reported only on the fifteenth. When semi-monthly values differ for the month, the larger of the two values is shown here. Consequently, this table reflects the maximum number of crews at work at any time during the month. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all

available data beginning in March 2000

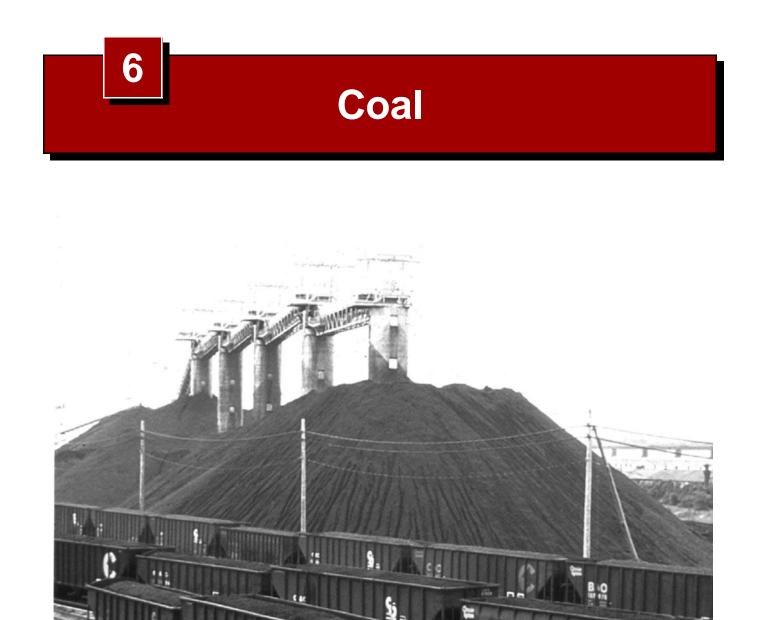
Source: World Geophysical News, IHS, Inc., Denver, CO, used with permission.

Crude Oil and Natural Gas Resource Development

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

Prior to the March 1985 MER, drilling statistics consisted of

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



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

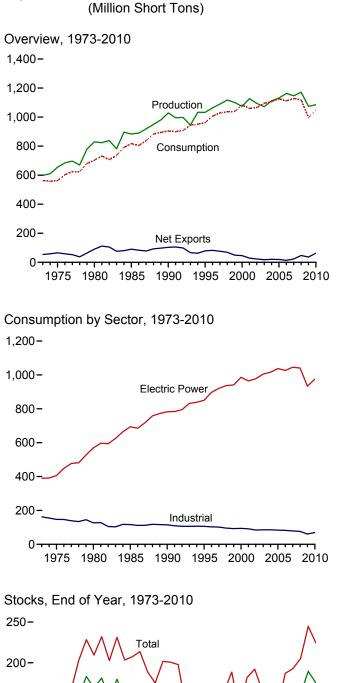
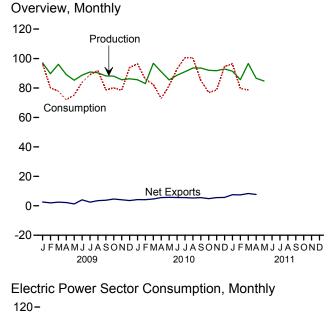
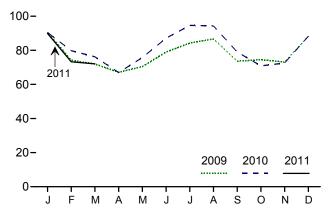
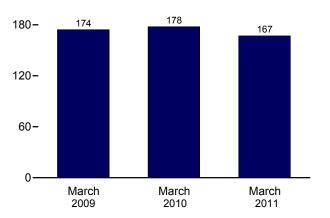


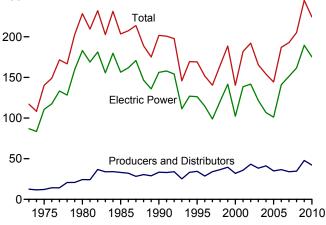
Figure 6.1 Coal





Electric Power Sector Stocks, End of Month 240-





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

Table 6.1 Coal Overview

(Thousand Short Tons)

1973 Total 1975 Total 1975 Total 1975 Total 1980 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 1998 Total 1999 Total 1990 Total 11997 Total 11997 Total 12001 Total 12001 Total 12001 Total 12003 Total 12004 Total 12005 Total 12006 Total 12007 Total 12007 Total 12007 Total 12007 Total 12008 Total 12009 January February May June July August September October November December December	Production ^a 598,568 654,641 829,700 883,638 1,029,076 1,032,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,074,753 1,074,753 1,127,689 1,074,753 1,112,099 1,131,498 1,162,750 1,146,635 1,177,809 97,022 89,688 96,062 89,072 85,236 88,708	Coal Supplied ^b NA NA NA 8,561 8,778 8,096 8,690 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	Imports 127 940 1,194 1,952 2,699 9,473 8,115 7,487 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303 2,283	Exports 53,587 66,309 91,742 92,680 105,804 88,547 90,473 83,545 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,942 49,942 49,942 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513 3,552	Net Imports ^c -53,460 -65,369 -90,548 -90,727 -103,104 -79,074 -82,357 -76,058 -69,324 -49,387 -45,976 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -22,578 -1,968 -2,464 -2,210	Stock Change ^d ([†]) 32,154 25,595 -27,934 26,542 -275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	Unaccounted for ^e ¹ -17,476 -5,522 10,827 2,796 -1,730 632 1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626 4,389	Consumption 562,584 562,640 702,730 818,049 904,498 962,104 1,006,321 1,029,544 1,037,103 1,038,647 1,086,415 1,066,355 1,094,861 1,107,255 1,125,978 1,112,978 1,112,978 1,122,978 1,120,548 96,449 80,121 77,814
1975 Total 1980 Total 1980 Total 1995 Total 1995 Total 1997 Total 1999 Total 1990 Total 1000 Total 1000 Total 1001 Total 1002 Total 2004 Total 1 2005 Total 1 2006 Total 1 2007 Total 1 2008 Total 1 2008 Total 1 2009 Total 1 2008 Total 1 2009 Total 1	654,641 829,700 883,638 1,029,076 1,032,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,073,612 1,074,683 1,094,283 1,094,283 1,074,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	NA NA NA 3,339 8,561 8,778 8,096 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	940 1,194 1,952 2,699 9,473 8,115 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	66,309 91,742 92,680 105,804 88,547 90,473 83,545 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,9647 59,163 81,519 4,907 3,822 4,605 3,513	-65,369 -90,548 -90,727 -103,104 -79,074 -82,357 -76,058 -69,324 -49,387 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	32,154 25,595 -27,934 26,542 -275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	-5,522 10,827 2,796 -1,730 632 1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	562,640 702,730 818,049 904,498 962,104 1,006,321 1,029,544 1,037,103 1,038,647 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,120,548 96,449 80,121
1975 Total 1980 Total 1980 Total 1995 Total 1995 Total 1995 Total 1995 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 1999 Total 1999 Total 1990 Total 1990 Total 1990 Total 1000 Total 1000 Total 1000 Total 1000 Total 2001 Total 1 2002 Total 1 2003 Total 1 2006 Total 1 2006 Total 1 2006 Total 1 2007 Total 1 2008 Total 1 2009 January February March April Navember December Total 1 2010 January February<	829,700 883,638 1,029,076 1,032,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,074,612 1,074,612 1,074,283 1,071,753 1,071,753 1,074,283 1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	NA NA 3,339 8,561 8,778 8,690 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,146 1,272 928 1,121 1,036 1,065	1,194 1,952 2,699 9,473 8,115 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	91,742 92,680 105,804 88,547 90,473 83,554 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,942 49,947 3,822 4,605 3,513	-90,548 -90,727 -103,104 -79,074 -82,357 -76,058 -69,324 -49,387 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	32,154 25,595 -27,934 26,542 -275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	10,827 2,796 -1,730 632 1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	702,730 818,049 904,498 962,104 1,029,544 1,037,103 1,038,647 1,066,355 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,122,978 1,122,978 1,120,548 96,449 80,121
980 Total 985 Total 1 995 Total 1 995 Total 1 995 Total 1 996 Total 1 997 Total 1 998 Total 1 999 Total 1 1000 Total 1 1003 Total 1 1006 Total 1 1008 Total 1 1008 Total 1 1009 January February March April March April March April May <td>829,700 883,638 1,029,076 1,032,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,074,612 1,074,612 1,074,283 1,071,753 1,071,753 1,074,283 1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236</td> <td>NA 3,339 8,561 8,778 8,096 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065</td> <td>1,952 2,699 9,473 8,115 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303</td> <td>91,742 92,680 105,804 88,547 90,473 83,554 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,942 49,947 3,822 4,605 3,513</td> <td>-90,548 -90,727 -103,104 -79,074 -82,357 -76,058 -69,324 -49,387 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464</td> <td>-27,934 26,542 -275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517</td> <td>10,827 2,796 -1,730 632 1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626</td> <td>702,730 818,049 904,498 962,104 1,029,544 1,037,103 1,038,647 1,066,355 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,122,978 1,122,978 1,120,548 96,449 80,121</td>	829,700 883,638 1,029,076 1,032,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,074,612 1,074,612 1,074,283 1,071,753 1,071,753 1,074,283 1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	NA 3,339 8,561 8,778 8,096 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	1,952 2,699 9,473 8,115 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	91,742 92,680 105,804 88,547 90,473 83,554 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,942 49,947 3,822 4,605 3,513	-90,548 -90,727 -103,104 -79,074 -82,357 -76,058 -69,324 -49,387 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	-27,934 26,542 -275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	10,827 2,796 -1,730 632 1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	702,730 818,049 904,498 962,104 1,029,544 1,037,103 1,038,647 1,066,355 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,122,978 1,122,978 1,120,548 96,449 80,121
985 Total 1 990 Total 1 995 Total 1 996 Total 1 997 Total 1 998 Total 1 999 Total 1 999 Total 1 990 Total 1 990 Total 1 990 Total 1 990 Total 1 000 Total 1 001 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 007 Total 1 008 Total 1 009 January February March April May July August September October November December Total 1 010 January February March April 1 010 January February March March April 1	883,638 1,022,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,127,689 1,094,283 1,074,753 1,094,283 1,074,753 1,112,099 1,131,498 1,166,635 1,174,809 97,022 89,688 96,062 89,072 85,236	3,339 8,561 8,778 8,096 8,690 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	1,952 2,699 9,473 8,115 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	92,680 105,804 88,547 90,473 83,545 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-103,104 -79,074 -82,357 -76,058 -69,324 -49,387 -45,976 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	-27,934 26,542 -275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	-1,730 632 1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	818,049 904,498 962,104 1,006,321 1,029,544 1,037,103 1,038,647 1,066,355 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
990 Total 1 995 Total 1 995 Total 1 997 Total 1 909 Total 1 000 Total 1 001 Total 1 002 Total 1 003 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 009 January February February March April June July August September October November December Total 1 010 January February March April May March April May	1,032,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,074,612 1,074,753 1,074,753 1,074,753 1,074,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	8,561 8,778 8,096 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,1076 14,146 1,272 928 1,121 1,036 1,065	9,473 8,115 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	88,547 90,473 83,555 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,9647 59,163 81,519 4,907 3,822 4,605 3,513	-103,104 -79,074 -82,357 -76,058 -69,324 -49,387 -45,976 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	26,542 -275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	632 1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	904,498 962,104 1,006,321 1,029,544 1,037,103 1,038,647 1,084,095 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
995 Total 1 996 Total 1 997 Total 1 998 Total 1 999 Total 1 999 Total 1 000 Total 1 000 Total 1 003 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 009 January February March April June 1 July August September October December 1 1010 January 1 Pebruary March April May May March	1,032,974 1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,074,612 1,074,753 1,074,753 1,074,753 1,074,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	8,561 8,778 8,096 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,1076 14,146 1,272 928 1,121 1,036 1,065	8,115 7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	88,547 90,473 83,555 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,9647 59,163 81,519 4,907 3,822 4,605 3,513	-79,074 -82,357 -76,058 -69,324 -49,387 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	-275 -17,456 -11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	1,411 3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	962,104 1,006,321 1,029,544 1,037,103 1,038,647 1,084,095 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,122,978 1,122,978 1,120,548 96,449 80,121
996 Total 1 997 Total 1 998 Total 1 999 Total 1 999 Total 1 990 Total 1 000 Total 1 001 Total 1 002 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 008 Total 1 009 January February March April July August September October November December December 1 010 January February March April May May	1,063,856 1,089,932 1,117,535 1,100,431 1,073,612 1,127,689 1,094,283 1,074,753 1,094,283 1,074,753 1,074,753 1,112,099 1,131,498 1,166,635 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	8,096 8,690 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	7,487 8,724 9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	83,545 78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-82,357 -76,058 -69,324 -49,387 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	-11,253 24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	3,678 -4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,029,544 1,037,103 1,038,647 1,084,095 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
997 Total 1 998 Total 1 999 Total 1 000 Total 1 000 Total 1 001 Total 1 002 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 009 January February March April June July July August September October November December Total 1 010 January February March April March April May March	1,117,535 1,100,431 1,073,612 1,127,689 1,094,283 1,071,753 1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	8,690 8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,146 1,272 928 1,121 1,036 1,065	8,724 9,089 12,513 19,787 16,875 25,044 27,280 36,246 36,347 34,208 2,329 1,855 2,141 1,303	78,048 58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-69,324 -49,387 -45,976 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	24,228 23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	-4,430 -2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,037,103 1,038,647 1,084,095 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
998 Total 1 999 Total 1 999 Total 1 000 Total 1 001 Total 1 002 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 007 Total 1 008 Total 1 009 January February March April June 1 July August September October November December December Total 1 010 January February March April May May May	1,100,431 1,073,612 1,127,689 1,094,283 1,074,753 1,074,753 1,112,099 1,131,498 1,162,750 1,146,635 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-49,387 -45,976 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	-2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,038,647 1,084,095 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
999 Total 1 000 Total 1 001 Total 1 003 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 008 Total 1 009 January 1 February March April August September October November December December 1 010 January 1 March April March April May March May May	1,100,431 1,073,612 1,127,689 1,094,283 1,074,753 1,074,753 1,112,099 1,131,498 1,162,750 1,146,635 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	8,683 9,089 10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	9,089 12,513 19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	58,476 58,489 48,666 39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-49,387 -45,976 -28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	23,988 -48,309 41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	-2,906 938 7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,038,647 1,084,095 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
000 Total 1 001 Total 1 002 Total 1 003 Total 1 003 Total 1 003 Total 1 005 Total 1 006 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 009 January February February March April June July July August September October November December Total Total 1 010 January February February March April May	1,127,689 1,094,283 1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	10,085 9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	19,787 16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	48,666 39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-28,879 -22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	41,630 10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	7,120 4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
002 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 008 Total 1 009 January 1 February March April May June July August September October November December Total 1 010 January February March April May May May	1,094,283 1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
002 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 008 Total 1 009 January 1 March April June June July August September October November December December 1 010 January 1 February 4 March 4 April 1 0400 January 1	1,094,283 1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	9,052 10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	16,875 25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	39,601 43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-22,726 -17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	10,215 -26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	4,040 -4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 007 Total 1 008 Total 1 009 Total 1 0109 January September October November November Total 1 010 January February March April May May May	1,071,753 1,112,099 1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	10,016 11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	25,044 27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	43,014 47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-17,970 -20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	-26,659 -11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	-4,403 6,887 9,092 8,824 4,085 5,740 1,370 626	1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
004 Total 1 005 Total 1 006 Total 1 007 Total 1 008 Total 1 009 January 1 February 1 March 1 April 1 June 1 July 1 October November December 1 Ot10 January 1 February 1 March 4 April 1	1,112,099 1,131,498 1,162,750 1,146,635 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	11,299 13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	27,280 30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	47,998 49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-20,718 -19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	-11,462 -9,702 42,642 5,812 12,354 -2,104 7,901 12,517	6,887 9,092 8,824 4,085 5,740 1,370 626	1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
005 Total 1 006 Total 1 007 Total 1 008 Total 1 008 Total 1 008 Total 1 009 January 1 March April March August June July August September October November December Total Total 1 010 January February March April May May	1,131,498 1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	13,352 14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	30,460 36,246 36,347 34,208 2,329 1,855 2,141 1,303	49,942 49,647 59,163 81,519 4,907 3,822 4,605 3,513	-19,482 -13,401 -22,816 -47,311 -2,578 -1,968 -2,464	-9,702 42,642 5,812 12,354 -2,104 7,901 12,517	9,092 8,824 4,085 5,740 1,370 626	1,125,978 1,112,292 1,127,998 1,120,548 96,449 80,121
006 Total 1 007 Total 1 008 Total 1 1008 Total 1 1008 Total 1 1009 January 1 February March April 1 June July July August September October October November December Total Total 1 1010 January February March April May May	1,162,750 1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	14,409 14,076 14,146 1,272 928 1,121 1,036 1,065	36,246 36,347 34,208 2,329 1,855 2,141 1,303	49,647 59,163 81,519 4,907 3,822 4,605 3,513	-13,401 -22,816 -47,311 -2,578 -1,968 -2,464	42,642 5,812 12,354 -2,104 7,901 12,517	8,824 4,085 5,740 1,370 626	1,112,292 1,127,998 1,120,548 96,449 80,121
1007 Total 1 1008 Total 1 1008 Total 1 1009 January 1 February 1 March April May 1 June 1 July 1 July 1 September 0 October November December 1 1010 January 1 Harch April March April May 1	1,146,635 1,171,809 97,022 89,688 96,062 89,072 85,236	14,076 14,146 1,272 928 1,121 1,036 1,065	36,347 34,208 2,329 1,855 2,141 1,303	59,163 81,519 4,907 3,822 4,605 3,513	-22,816 -47,311 -2,578 -1,968 -2,464	5,812 12,354 -2,104 7,901 12,517	4,085 5,740 1,370 626	1,127,998 1,120,548 96,449 80,121
2008 Total 1 2009 January 1 February 1 March 1 May 1 June 1 July 1 August 2 September 0 October 1 November 1 December 1 Total 1 Rotto 1 March 4 April 4	1,171,809 97,022 89,688 96,062 89,072 85,236	14,146 1,272 928 1,121 1,036 1,065	34,208 2,329 1,855 2,141 1,303	81,519 4,907 3,822 4,605 3,513	-47,311 -2,578 -1,968 -2,464	12,354 -2,104 7,901 12,517	5,740 1,370 626	1,120,548 96,449 80,121
February March April May June July August September October November December Total Tebruary March April May	89,688 96,062 89,072 85,236	928 1,121 1,036 1,065	1,855 2,141 1,303	3,822 4,605 3,513	-1,968 -2,464	7,901 12,517	626	80,121
February March April June July August September October November December Total 1 010 January February March April May	96,062 89,072 85,236	1,121 1,036 1,065	2,141 1,303	4,605 3,513	-2,464	12,517		
March April May June July August September October November December Total 1 010 January February March April May	89,072 85,236	1,036 1,065	1,303	3,513			4 389	77 04 4
April May June July August September October November December Total 1010 January February March April May	85,236	1,065			-2 210			(1.814
May June July August September October November December Total 1 010 January February March April May	85,236	1,065				13,303	2,577	72,019
June July August September October November December Total 1 010 January February March April May					-1,269	7,537	2,231	75,264
July August September October November December Total 1 010 January February March April May		1,118	1,840	5,886	-4,045	2,746	-792	83,827
August September October November December December Total 1 010 January February March April May May	90,847	1,248	2.018	4.477	-2.459	-781	1.282	89,134
September	90,308	1,206	1,568	5,056	-3,488	-4,988	1,282	91,731
October November December 1 Total 1 010 January 1 February 1 March 1 April 1	88,185	1,113	1.854	5,625	-3,771	4.868	1,902	78,757
November 1 December 1 Total 1 010 January 1 February 1 March 1 April 1	88,002	1,142	1,762	6,364	-4,603	4,561	-54	80,035
December	85,564	1,164	1,506	5,586	-4.080	2,724	1.423	78,502
Total 1 010 January February March April May	86,229	1,252	2,179	5,703	-3,524	-8,617	-1.252	93,826
February March April May	1,074,923	13,666	22,639	59,097	-36,458	39,668	14,985	997,478
March April May	85,589	1,201	1,665	5,866	-4,202	-10,728	-3,065	96,381
April May	82,968	903	1,239	5,386	-4,146	-7,969	1,897	85,796
May	96,760	1,165	1,899	6,554	-4,655	8,047	2,819	82,404
May	91,010	1,087	1,812	7,358	-5,545	12,072	1,634	72,845
	85,456	1,163	1,475	7,220	-5,745	1,911	-2,649	81,612
June	88,666	1,193	1,771	7,387	-5,616	-11,636	2,917	92,962
July	91,020	1,288	1,390	6,928	-5,539	-15,359	1,547	100,581
August	93,587	1,295	1,702	7,001	-5,299	-8,656	-2,132	100,372
September	93,597	1,138	1,588	7,145	-5,556	-335	4,319	85,195
October	91,977	1,116	1,775	6,623	-4,849	13,664	-2,323	76,904
November	91,708	1,088	1,473	7,015	-5,542	4,715	3,915	78,624
December	92,942	1,225	1,563	7,232	-5,669	-6,190	69	94,620
Total 1	1,085,281	13,862	19,353	81,716	-62,363	-20,465	8,950	1,048,295
011 January	^R 91,398	^R 1,233	1,014	8,509	-7,496	^R -11,076	^R -195	^R 96,406
February	^R 85,618	^R 1,061	843	8,275	-7,432	^R 5,347	^R 4,949	^R 79,644
March	^R 96,608	^R 1,079	_ 1,524	9,832	8,308	^R 4,386	^R 6,389	^R 78,603
April	86,600	NA	^R 1,136	^R 8,843	^R -7,706	NA	NA	NA
May	84,721	NA	NA	NA	NA	NA	NA	NA
5-Month Total	444,945	NA	NA	NA	NA	NA	NA	NA
010 5-Month Total 009 5-Month Total		5,518 5,422	8,090 9,911	32,385 20,400	-24,294 -10,489	3,333 39,154	637 11,193	419,037 401,666

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

 b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption." ^c Net imports equal imports minus exports. A minus sign indicates exports are greater than imports. ^d A negative value indicates a decrease in stocks; a positive value indicates an increase of the same stocks and the same stocks are same stocks.

^e "Losses and Unaccounted for" is calculated as the sum of production, imports,

and waste coal supplied, minus exports, stock change, and consumption. ^f In 1973, stock change is included in "Losses and Unaccounted for."

¹ In 1973, stock change is included in "Losses and Unaccounted for." R=Revised. NA=Not available. Notes: • For methodology used to calculate production, consumption, and stocks, see Note 1, "Coal Production," Note 2, "Coal Consumption," and Note 3, "Coal Stocks," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthlv/#coal for all

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-l	Jse Sector	S					
			Commerci	al			Industrial					
	Resi-				Coke	0	ther Industria	al		Trans-	Electric Power	
	dential	CHPa	Otherb	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total	4,113	(g)	7,004	7,004	94,101	(<u></u>)	68,038	68,038	162,139	116	389,212	562,584
1975 Total	2,823	(g)	6,587	6,587	83,598	(<u>h</u>)	63,646	63,646	147,244	. 24	405,962	562,640
1980 Total	1,355	(g)	5,097	5,097	66,657	('n)	60,347	60,347	127,004	(^h)	569,274	702,730
1985 Total	1,711	(g)	6,068	6,068	41,056	(^h)	75,372	75,372	116,429	(<u>h</u>)	693,841	818,049
1990 Total	1,345	1,191	4,189	5,379	38,877	27,781	48,549	76,330	115,207	('n)	782,567	904,498
1995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	(h)	850,230	962,104
1996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	(")	896,921	1,006,321
1997 Total	711	1,738	4,015	5,752	30,203	29,853	41,661	71,515	101,718	('') (h)	921,364	1,029,544
1998 Total	534	1,443	2,879	4,322	28,189	28,553	38,887	67,439	95,628	('')	936,619	1,037,103
1999 Total	585 454	1,490	2,803	4,293	28,108	27,763	36,975	64,738 65,208	92,846	{"}	940,922	1,038,647
2000 Total 2001 Total	454 481	1,547 1,448	2,126 2,441	3,673 3.888	28,939 26.075	28,031 25.755	37,177 39.514	65,208	94,147 91.344	{:	985,821 964,433	1,084,095
2001 Total	533	1,440	2,441	3,000 3,912	26,075	25,755	39,514	60,747	91,344 84,403	{h}	964,433 977,507	1,060,146 1,066,355
2002 Total	555	1,405	2,506	3,912	23,050	26,232	36,415	61,261	85,509	{:	1,005,116	1.094.861
2003 Total	512	1,917	2,693	4,610	23,670	26,613	35,582	62,195	85,865	}h{	1,016,268	1,107,255
2005 Total	378	1,922	2,000	4.342	23,434	25,875	34,465	60,340	83,774	2hj	1,037,485	1,125,978
2006 Total	290	1,886	1,050	2,936	22,957	25,262	34,210	59,472	82,429	2h	1,026,636	1,112,292
2007 Total	353	1,927	1,030	3.173	22,715	22,537	34.078	56.615	79.331	}h{	1.045.141	1,127,998
2008 Total	351	2,021	1,134	3,155	22,070	21,902	32,491	54,393	76,463	(h)	1,040,580	1,120,548
2009 January	44	208	148	356	1,390	1,793	2,225	4,018	5,409	(h)	90,640	96,449
February	38	178	126	305	1,330	1,605	2,223	4,010	5,524	}h(74.254	80,443
March	36	170	120	290	1,559	1,692	2,289	3,981	5,540	}h{	71,948	77,814
April	25	128	71	199	1,150	1,487	2,036	3,522	4.673	ζhί	67,123	72.019
May	22	117	65	181	1,118	1,550	1,967	3,517	4,635	ζhί	70,425	75,264
June	26	135	75	211	1,134	1,600	1,903	3,503	4.637	ζh j	78,954	83.827
July	23	137	49	186	1,032	1,659	1,991	3,650	4,682	ζh j	84,243	89,134
August	24	143	51	194	1,168	1,694	2,017	3,710	4,878	(`híj	86,635	91,731
September	21	127	45	172	1,250	1,611	2,136	3,747	4,997	(h)	73,566	78,757
October	27	129	88	216	1,431	1,671	2,170	3,841	5,272	(h)	74,520	80,035
November	31	151	103	255	1,274	1,622	2,257	3,878	5,153	(h)	73,063	78,502
December	36	174	119	293	1,371	1,783	2,088	3,871	5,242	(h)	88,255	93,826
Total	353	1,798	1,059	2,857	15,326	19,766	25,549	45,314	60,641	(^h)	933,627	997,478
2010 January	43	195	150	345	1,472	2,051	2,053	4,104	5,576	(h)	90,418	96,381
February	37	170	132	302	1,584	1,947	2,171	4,118	5,703	(h)	79,754	85,796
March	34	156	120	276	1,801	2,079	2,075	4,155	5,955	(h) (h)	76,139	82,404
April	22	126	49	175	1,786	1,659	2,227	3,886	5,672	('') (h)	66,976	72,845
May	21	125	49	173	1,794	1,929	1,973	3,902	5,696	('') (h)	75,721	81,612
June	24	138	54	192	1,772	1,930	1,946	3,876	5,648	('') (h)	87,097	92,962
July	23	143	42	186	1,783	2,092	1,922	4,014	5,797	('') (h)	94,576	100,581
August	25 23	156 142	46 42	202 184	1,814 1,894	2,163 1,907	1,887 2,155	4,050 4,062	5,864 5,956	() (h)	94,281 79,032	100,372 85,195
September	23 26	142	42 81	213	1,894	1,907	2,155	4,062	5,956 5,826	() (h)	79,032 70,838	76.904
October November	26 27	132	81	213	1,731	1,887	2,209	4,096	5,826 5,898	() (h)	70,838 72,479	76,904 78,624
December	34	169	104	219	1.874	2.161	2,335	4,111	6.036	h	88.277	94.620
Total	339	1,787	954	2,741	21,092	23,581	24,955	48,535	69,628	(h)	975,588	1,048,295
	^R 40		^R 140	,	,	,	,		,	(h)	,	
2011 January	R 37	184 171	^R 140	^R 325 ^R 302	^R 1,746 ^R 1.623	2,184	^R 2,272 ^R 2,509	^R 4,457 ^R 4,428	^R 6,202 ^R 6,052	('') (h)	89,839	^R 96,406 ^R 79,644
February	×37 34	171	131	× 302 278		1,919 1,918		4,428		('') (h)	73,253	
March 3-Month Total	34 112	158 513	120 391	278 905	1,819 5,188	1,918 6,022	2,540 7,321	4,458 13,343	6,276 18,531	(h)	72,015 235,107	78,603 254,654
2010 3-Month Total	114	520	402	923	4,857	6,077	6,300	12,377	17,234	(h)	246,311	264,581
2009 3-Month Total	118	557	394	951	4,398	5,090	6,985	12,075	16,473	(h)	236,842	254,383

^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

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 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-heatand-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. [†] Through 1988, data are for consumption at electric utilities only. Beginning in

1989, data also include consumption at independent power producers

g Included in "Commercial Other."

^h Included in "Industrial Non-CHP."
 R=Revised.

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

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

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors	i			
	Producers and	Residential and		Industrial	1		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	140,39
980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,40
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	201,62
995 Year	34,444	NA	2,632	5,702	8,334	8,334	126,304	169,08
996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,62
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	154,00
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	186,940
007 Year	33,977	NA	1,936	5,624	7,560	7,560	151,221	192,75
008 Year	34,688	498	2,331	6,007	8,338	8,836	161,589	205,112
009 January	38,394	490	2,260	5,788	8,049	8,539	156,075	203,008
February	42,066	483	2,190	5,570	7,760	8,243	160,601	210,909
March	41,257	475	2,119	5,352	7,471	7,946	174,223	223,42
April	43,195	477	2,000	5,266	7,266	7,744	185,790	236,72
May	41,622	480	1,880	5,181	7,061	7,541	195,103	244,266
June	44,018	482	1,760	5,096	6,856	7,338	195,656	247,012
July	45,372	496	1,702	5,099	6,800	7,297	193,563	246,232
August	42,457	510	1,644	5,101	6,745	7,255	191,532	241,244
September	41,690	524	1,585	5,104	6,690	7,214	197,208	246,112
October	43,882	526	1,683	5,106	6,789	7,314	199,477	250,673
November	42,217	527	1,780	5,108	6,888	7,415	203,765	253,397
December	47,718	529	1,957	5,109	7,066	7,595	189,467	244,780
010 January	48,854	510	1,832	4,793	6,625	7,135	178,063	234,052
February	48,286	490	1,708	4,476	6,184	6,674	171,123	226,08
March	50,153	471	1,583	4,159	5,743	6,213	177,763	234,130
April	50,614	482	1,715	4,194	5,909	6,392	189,196	246,202
May	50,248	494	1,846	4,230	6,076	6,570	191,295	248,113
June	48,667	505	1,978	4,265	6,243	6,748	181,062	236,47
July	45,105	509	1,948	4,341	6,289	6,798	169,215	221,118
August	45,808	513	1,918	4,417	6,335	6,848	159,805	212,46
September	42,430	517	1,889	4,492	6,381	6,899	162,798	212,12
October	43,709	529	1,901	4,503	6,404	6,934	175,147	225,790
November	40,688	541	1,913	4,514	6,428	6,969	182,848	230,50
December	42,151	553	1,925	4,525	6,451	7,004	175,160	224,31
011 January	40,848	^R 536	^R 1,937	^R 4,859	^R 6,796	^R 7,332	165,059	^R 213,23
February	38,526	^R 520	^R 1,948	^R 5,194	^R 7,141	^R 7,661	161,705	^R 207,89
March	37,334	503	1,959	5,528	7,487	7,990	166,954	212,278

^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. 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 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, endof-year stocks are taken from reported data. Monthly stocks are estimated by a model.

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

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

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

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

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

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

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

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

Table 6.1 Sources

Production

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

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

Waste Coal Supplied

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

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

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

Quality Report-Manufacturing Plants."

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

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

Imports and Exports

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

Stock Change

Calculated from data in Table 6.3.

Losses and Unaccounted for

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

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

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

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

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

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

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

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

Commercial CHP

Table 7.4c.

Commercial Other

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

Industrial Coke Plants

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

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

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

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

Other Industrial Total

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

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

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

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

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

Other Industrial CHP

Table 7.4c.

Other Industrial Non-CHP

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

Transportation

1973–1976: DOI, BOM, Minerals Yearbook.

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

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

Electric Power

Table 7.4b.

Table 6.3 Sources

Producers and Distributors

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

1980–1997: U.S. Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report," quarterly. 1998–2007: EIA, Form EIA-6A, "Coal Distribution Report," annual.

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

Residential and Commercial

1973–1976: DOI, BOM, Minerals Yearbook.

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

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

Industrial Coke Plants

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*. October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals-Monthly/Annual."

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

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

Industrial Other

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

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

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

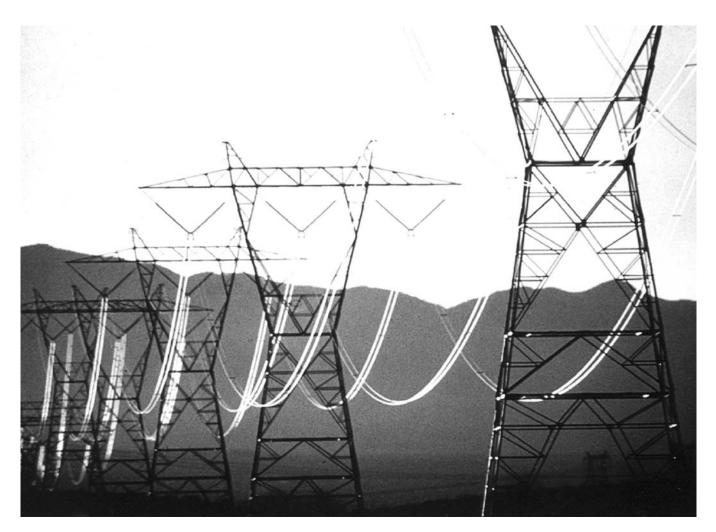
2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Electric Power

Table 7.5.

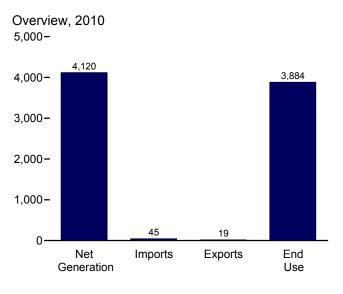


Electricity

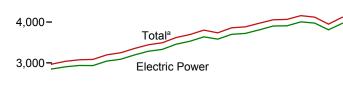


High-tension power lines and towers. Source: U.S. Department of Energy.

Figure 7.1 Electricity Overview (Billion Kilowatthours)

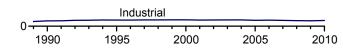


Net Generation by Sector, 1989-2010 5,000-



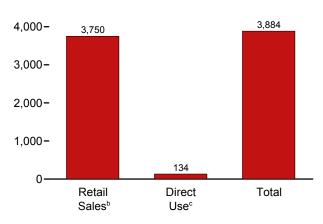
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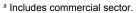
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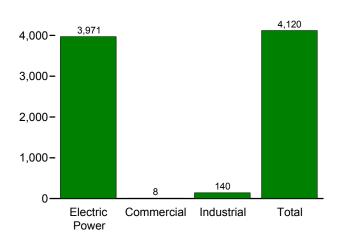




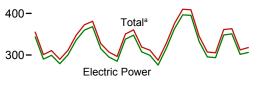




^b Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers. Net Generation, 2010 5,000-

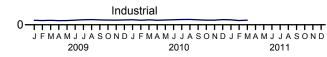


Net Generation by Sector, Monthly 500-

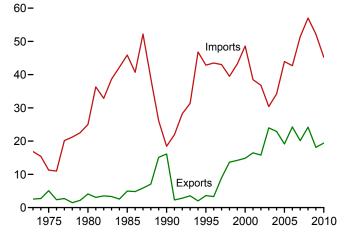


200-

100-



Trade, 1973-2010



° See "Direct Use" in Glossary.

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

Table 7.1 Electricity Overview

(Billion Kilowatthours)

		Net Gen	eration			Trade		TODI		End Use	
	Electric	Com-	Indus-					T&D Losses ^e and			
	Power Sector ^a	mercial Sector ^b	trial Sector ^c	Total	Importsd	Exportsd	Net Imports ^d	Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
973 Total	1,861	NA	3	1,864	17	3	14	165	1,713	NA	1,713
975 Total	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
980 Total	2,286	NA	3	2,290	25	4 5	21 41	216	2,094	NA	2,094
985 Total 990 Total	2,470 2.901	NA 6	3 131	2,473 3.038	46 18	5 16	41	190 203	2,324 2.713	NA 125	2,324 2.837
995 Total	3,194	8	151	3,353	43	4	39	203	3,013	125	3,164
996 Total	3,284	9	151	3,444	43	3	40	231	3,101	153	3,254
997 Total	3,329	9	154	3,492	43	9	34	224	3,146	156	3,302
998 Total	3,457	9	154	3,620	40	14	26	221	3,264	161	3,425
999 Total	3,530	9	156	3,695	43	14	29	240	3,312	172	3,484
000 Total	3,638	8	157	3,802	49	15	34	244	3,421	171	3,592
001 Total	3,580 3,698	7 7	149 153	3,737 3,858	39 37	16 16	22 21	202 248	3,394 3,465	163 166	3,557 3,632
2002 Total	3,696	7	155	3,883	30	24	6	240	3,465	168	3,632
004 Total	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total	3,902	8	145	4,055	44	19	25	269	3,661	150	3,811
006 Total	3,908	8	148	4,065	43	24	18	266	3,670	147	3,817
007 Total	4,005	8	143	4,157	51	20	31	298	3,765	126	3,890
008 Total	3,974	8	137	4,119	57	24	33	287	3,733	132	3,865
009 January	344	1	11	355	4	2	2	25	321	^E 10	332
February	290	1	10	301	4	2	2	7	287	E 10	297
March	299	1	11	311	3	2	1	18	284	E 10	294
April	279	1	10	290	3	1	2	16	266	E 10	275
May	300 336	1	10 11	311 348	4 5	1 2	3 3	29 35	275 305	E 10 E 11	285 315
June July	360	1	12	340 373	5 6	2	3	35 27	305	E 11	315
August	368	1	12	381	6	1	4	29	345	E 12	343
September	315	1	12	327	4	1	3	8	311	⊑ 11	322
October	295	1	11	307	5	1	3	12	287	^E 11	298
November	285	1	11	297	4	1	3	21	268	E 11	278
December	338	1	12	351	5	1	3	33	310	E 11	321
Total	3,810	8	132	3,950	52	18	34	261	3,597	127	3,724
010 January	348	1	12	360	5	1	4	21	332	<u></u> 11	343
February	308	1	11	319	4	1	3	14	298	E 10	309
March	299	1	12	312	4	1	3	11	292	E 11	303
April	276 316	1	11 11	287 328	4 3	1 2	3 1	13 36	266 283	^E 10 ^E 11	277 294
May June	363	1	11	328 376	3	2	2	36	283	E 12	294 341
July	303	1	12	410	4	2	2	32	369	E 12	381
August	395	1	13	409	4	2	2	27	371	E 12	384
September	332	1	12	345	3	2	(s)	6	328	^E 11	340
October	295	1	11	307	3	2	(s)	10	287	E_11	298
November	294	1	11	305	3	2	1	22	274	E 11	285
December	348	1	12	361	4 45	1	3	33	319	E 12	330
Total	3,971	8	140	4,120	45	19	26	261	3,750	^E 134	3,884
011 January	351	1	12	363	4	2	3	21	334	E 11	345
February	302	1	10	312	4	2	2	7	297	E 10	307
March	306	1	11	318	4	2	2	19	291	E 11	301
3-Month Total	958	2	33	994	12	5	7	47	922	^E 32	954
010 3-Month Total	954	2	35	991	14	4	11	46	922	Ē 33	955
009 3-Month Total	933	2	31	966	11	5	6	50	892	^E 30	922

^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 Continential combined near-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.

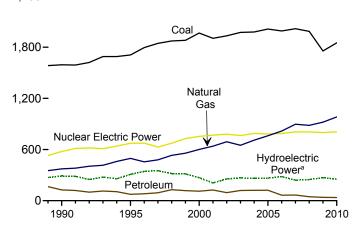
exports. ^e Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 2, "Electrical System Energy Losses," at end of Section 2. ^f Data collection frame differences and nonsampling error.

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

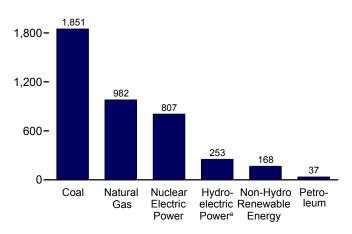
⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers. ^h Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or 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 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.

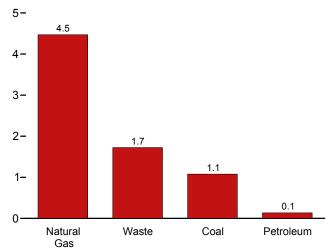
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

Total (All Sectors), Major Sources, 1989-2010 2,400-



Total (All Sectors), Major Sources, 2010 2,400-



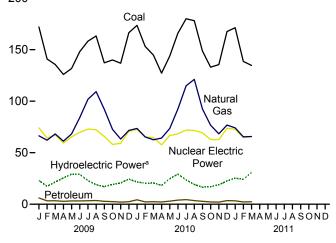


Commercial Sector, Major Sources, 2010

^a Conventional and pumped storage hydroelectric power.

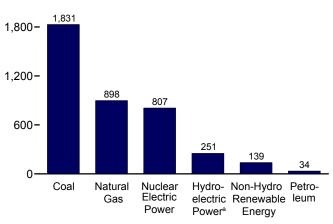
 $^{\rm b}$ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

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



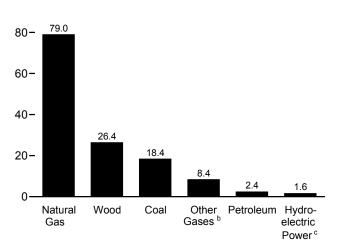
Electric Power Sector, Major Sources, 2010





Industrial Sector, Major Sources, 2010

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)

	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 1995 Total 1997 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total	1,402,128 1,594,011 1,705,196 1,845,016 1,873,516 1,873,516 1,881,087 1,966,265 1,903,956 1,933,130 1,973,737 1,978,301 2,012,873 1,990,511	314,343 289,095 245,994 100,202 126,460 74,554 81,411 92,555 128,800 118,061 111,221 124,880 94,567 119,406 121,145 122,225 64,166 65,739 46,243	340,858 299,778 346,240 291,946 372,765 496,058 495,056 479,399 531,257 556,396 601,038 639,129 691,006 649,908 710,100 760,960 816,441 896,550 862,981	NA NA NA 10,383 13,870 14,356 13,351 13,395 9,039 11,463 15,600 15,252 13,464 14,177 13,453 11,707	83,479 172,505 251,116 383,692 673,402 673,402 674,729 628,644 673,702 728,254 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,425 806,208	(^f) (^{f)})(^{f))}	275,431 303,153 279,182 284,311 292,866 310,833 347,162 356,453 323,336 319,536 275,573 216,961 264,329 275,806 268,417 270,321 289,246 247,510 254,831	130 18 275 743 36,521 36,500 36,948 36,338 37,041 37,595 35,200 38,665 37,529 38,117 38,856 38,762 39,014 37,300	198 174 158 <u>640</u> 20,405 20,411 21,709 22,448 22,572 23,131 14,548 15,044 15,812 15,421 15,421 15,420 16,099 16,525 17,734	1,966 3,246 5,073 9,325 15,434 13,378 14,726 14,774 14,093 13,741 14,491 14,491 14,458 14,568 14,637 14,840	NA NA NA 11 367 521 502 495 543 555 554 555 555 556 508 612 864	NA NA NA 3,164 3,234 3,026 4,488 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450 55,363	$1,864,057\\1,920,755\\2,289,600\\2,473,002\\3,037,827\\3,353,487\\3,444,188\\3,492,172\\3,620,295\\3,694,810\\3,802,105\\3,736,644\\3,858,452\\3,870,555\\4,055,423\\3,883,185\\3,970,555\\4,055,423\\4,064,702\\4,156,745\\4,119,388$
2009 January February April May June July August September October November December Total	171,925 140,916 135,530 125,935 131,673 148,087 158,234 163,260 137,145 139,956 136,810 166,434 1,755,904	6,104 3,318 3,349 2,807 3,209 3,243 3,358 3,642 2,853 2,560 2,072 2,422 2,422 38,937	66,390 62,139 68,203 61,159 68,146 84,205 101,894 109,240 92,127 72,603 63,285 71,590 920,979	807 784 834 773 876 966 1,012 1,022 960 910 930 10,632	74,102 64,227 67,241 59,408 65,395 69,735 72,949 72,245 65,752 58,021 59,069 70,710 798,855	-501 -413 -315 -272 -349 -226 -491 -613 -348 -385 -385 -330 -383 -4,627	23,490 17,812 21,827 25,770 29,560 29,233 23,385 19,580 17,359 19,691 21,008 24,730 273,445	3,030 2,823 2,919 2,664 2,735 2,997 3,227 3,355 3,061 3,032 3,049 3,158 36,050	1,462 1,357 1,553 1,542 1,522 1,558 1,628 1,604 1,503 1,572 1,608 18,443	1,289 1,168 1,300 1,222 1,235 1,209 1,255 1,251 1,217 1,221 1,273 1,368 15,009	7 30 78 99 110 103 121 116 95 68 40 21 891	5,951 5,852 7,099 7,458 6,262 5,599 4,955 5,464 4,651 6,814 6,814 6,875 6,906 73,886	354,993 300,887 310,603 289,537 311,306 347,658 372,542 381,221 327,401 307,040 296,635 350,507 3,950,331
2010 January February March April June July August September October November December Total	173,505 153,073 144,703 127,164 143,686 165,918 179,933 178,101 148,667 135,496 167,548 1,850,750	4,301 2,313 2,436 2,246 2,991 4,026 4,454 3,553 2,817 2,207 2,050 3,532 36,925	73,558 65,345 62,548 64,240 73,427 92,398 114,883 121,127 92,503 76,631 68,332 76,822 981,815	909 829 997 947 992 939 950 1,041 973 782 897 938 11,193	72,569 65,245 64,635 57,611 66,658 68,301 71,913 71,574 69,371 62,751 62,655 73,683 806,968	-537 -96 -49 -303 -197 -227 -466 -533 -349 -374 -429 -530 -4,091	22,156 20,513 20,626 18,630 29,489 24,136 19,748 16,9745 17,382 19,425 23,111 257,052	3,248 2,958 3,170 2,998 3,010 3,198 3,419 3,403 3,173 2,954 3,124 3,319 37,975	1,482 1,315 1,557 1,562 1,562 1,577 1,610 1,600 1,606 1,527 1,518 1,588 1,619 18,557	1,373 1,217 1,332 1,262 1,304 1,294 1,304 1,263 1,263 1,224 1,333 1,412 15,666	10 34 81 124 175 196 182 173 146 75 67 38 1,299	6,965 5,494 8,683 9,838 8,681 7,992 6,631 6,613 7,080 7,963 9,875 8,833 94,647	360,401 319,004 311,601 287,279 328,208 376,100 409,972 408,761 345,064 305,540 361,244 4,120,028
2011 January February March 3-Month Total	171,246 138,590 134,715 444,550	3,288 2,201 2,437 7,926	74,070 65,375 65,679 205,124	923 795 958 2,676	72,743 64,789 65,662 203,193	-426 -247 -350 -1,023	25,746 24,346 31,385 81,476	3,167 2,699 2,878 8,744	1,432 1,325 1,568 4,325	1,435 1,289 1,425 4,150	43 102 110 255	8,888 10,315 10,452 29,654	363,378 312,334 317,835 993,546
2010 3-Month Total 2009 3-Month Total	471,281 448,371	9,050 12,771	201,451 196,732	2,735 2,425	202,449 205,570	-682 -1,230	63,295 63,130	9,376 8,772	4,353 4,373	3,922 3,757	125 116	21,141 18,902	991,006 966,483

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

Anthractle, biturninous coal, subbiturninous coal, lightle, waste coal, and coal synfuel.
 ^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.
 ^c Natural gas, plus a small amount of supplemental gaseous fuels.
 ^d Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

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

ⁱ Solar thermal and photovoltaic (PV) energy.
 ^j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^k Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.
 NA=Not available.
 Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973.
 Sources: See sources for Tables 7.2b and 7.2c.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power ^f	Bior Wood ^g	mass Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
	Coal	leum	Gas	Gases	rower	Storage	FOWEI	WOOUS	Waste	uleilliai	ΓV	wind	TOLAP
1973 Total 1975 Total 1980 Total 1985 Total	1,402,128	314,343 289,095 245,994 100,202	340,858 299,778 346,240 291,946	NA NA NA NA	83,479 172,505 251,116 383,691	(f) (f) (f) (f)	272,083 300,047 276,021 281,149	130 18 275 743	198 174 158 640	1,966 3,246 5,073 9,325	NA NA NA 11	NA NA NA 6	1,860,710 1,917,649 2,286,439 2,469,841
1990 Total ^k 1995 Total 1996 Total 1997 Total 1998 Total	1,572,109 1,686,056 1,771,973 1,820,762 1,850,193	118,864 68,146 74,783 86,479 122,211	309,486 419,179 378,757 399,596 449,293	621 1,927 1,341 1,533 2,315	576,862 673,402 674,729 628,644 673,702	-3,508 -2,725 -3,088 -4,040 -4,467	289,753 305,410 341,159 350,648 317,867	7,032 7,597 8,386 8,680 8,608	11,500 17,986 17,816 18,485 19,233	15,434 13,378 14,329 14,726 14,774	367 497 521 511 502	2,789 3,164 3,234 3,288 3,026	2,901,322 3,194,230 3,284,141 3,329,375 3,457,416
1999 Total 2000 Total 2001 Total 2002 Total	1,858,618 1,943,111 1,882,826 1,910,613	111,539 105,192 119,149 89,733	472,996 517,978 554,940 607,683	1,607 2,028 586 1,970	728,254 753,893 768,826 780,064	-6,097 -5,539 -8,823 -8,743	314,663 271,338 213,749 260,491	8,961 8,916 8,294 9,009	19,493 20,307 12,944 13,145	14,827 14,093 13,741 14,491	495 493 543 555	4,488 5,593 6,737 10,354	3,529,982 3,637,529 3,580,053 3,698,458
2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total	1,952,714 1,957,188 1,992,054 1,969,737 1,998,390 1,968,838	113,697 114,678 116,482 59,708 61,306 42,881	567,303 627,172 683,829 734,417 814,752 802,372	2,647 3,568 3,777 4,254 4,042 3,200	763,733 788,528 781,986 787,219 806,425 806,208	-8,535 -8,488 -6,558 -6,558 -6,896 -6,288	271,512 265,064 267,040 286,254 245,843 253,096	9,528 9,736 10,570 10,341 10,711 10,638	13,808 13,062 13,031 13,927 14,294 15,379	14,424 14,811 14,692 14,568 14,637 14,840	534 575 550 508 612 864	11,187 14,144 17,811 26,589 34,450 55,363	3,721,159 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349
2009 January February March May June July August September October November December Total	170,626 139,743 134,314 124,803 130,527 146,845 156,943 161,917 135,950 138,667 135,644 165,146 1,741,123	5,736 2,999 3,077 2,557 2,965 2,994 3,111 3,391 2,607 2,340 1,846 2,190 35,811	59,969 56,164 61,837 55,301 62,125 77,591 94,487 101,636 84,942 65,852 56,735 64,367 841,006	220 213 240 231 234 253 288 278 298 298 280 256 269 3,058	74,102 64,227 67,241 59,408 65,395 69,735 72,949 72,245 65,752 58,021 59,069 70,710 798,855	-501 -413 -315 -272 -349 -226 -491 -613 -348 -348 -385 -330 -383 -4,627	23,316 17,662 21,624 25,570 29,364 29,055 23,243 19,444 17,263 19,552 20,865 24,548 271,506	990 903 862 721 749 928 976 1,021 891 825 866 1,004 10,738	1,256 1,178 1,343 1,334 1,358 1,417 1,395 1,301 1,315 1,345 1,388 15,954	1,289 1,168 1,300 1,222 1,235 1,209 1,255 1,251 1,217 1,221 1,273 1,368 15,009	7 30 78 99 110 103 121 116 95 68 40 21 891	5,951 5,852 7,099 7,458 6,262 5,599 4,955 5,464 4,651 6,814 6,875 6,906 73,886	343,516 290,221 299,257 278,994 300,496 336,011 359,842 368,139 315,163 295,093 285,012 338,095 3,809,837
2010 January February March April June July August September October November December Total	171,811 151,487 142,988 125,900 142,079 164,235 178,103 176,200 147,090 131,361 134,166 165,806 1,831,226	4,053 2,111 2,268 2,779 3,783 4,209 3,335 2,624 2,031 1,887 3,296 34,438	66,354 58,953 55,716 57,804 66,766 85,264 107,406 113,577 85,268 70,141 61,684 69,440 898,373	269 242 259 265 252 254 254 232 224 157 217 205 2,840	72,569 65,245 64,635 57,611 66,658 68,301 71,913 71,574 62,751 62,655 73,683 806,968	-537 -96 -49 -303 -197 -227 -466 -533 -349 -374 -429 -530 -4,091	21,976 20,338 20,435 18,449 24,739 29,335 24,024 19,652 16,840 17,272 19,302 22,966 255,328	1,039 930 931 831 872 978 1,077 1,101 946 837 927 1,041 11,508	1,278 1,146 1,367 1,376 1,378 1,388 1,390 1,383 1,311 1,308 1,388 1,413 16,060	1,373 1,217 1,332 1,262 1,334 1,294 1,304 1,319 1,263 1,224 1,333 1,224 1,333 1,412 15,666	10 34 81 124 174 195 181 172 146 75 66 38 1,295	6,964 5,494 8,683 9,838 8,681 7,992 6,631 6,613 7,080 7,963 9,875 8,833 94,646	347,699 307,583 299,184 275,789 316,096 363,367 396,648 395,249 332,413 295,340 293,670 348,195 3,971,233
2011 January February March 3-Month Total	169,476 137,092 133,261 439,830	3,073 2,041 2,272 7,386	66,967 59,237 59,107 185,311	248 222 253 724	72,743 64,789 65,662 203,193	-426 -247 -350 -1,023	25,601 24,178 31,188 80,967	980 868 877 2,726	1,233 1,149 1,372 3,754	1,435 1,289 1,425 4,150	43 101 110 254	8,888 10,315 10,451 29,653	350,766 301,505 306,200 958,470
2010 3-Month Total 2009 3-Month Total	466,286 444,682	8,427 11,812	181,023 177,969	773 672	202,449 205,570	-682 -1,230	62,750 62,603	2,899 2,755	3,792 3,778	3,922 3,757	124 116	21,141 18,902	954,466 932,994

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

petroleum, and waste oil. ^c Natural gas, plus a small amount of supplemental gaseous fuels. ^d Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels. ^e Pumped storage facility production minus energy used for pumping. ^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power." ^g Wood and wood-derived fuels. ^h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). tire-derived fuels).

Solar thermal and photovoltaic (PV) energy.

¹ Solar thermal and photovoltaic (PV) energy. ¹ Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

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

		Com	mercial Se	ectora		Industrial Sector ^b							
				Biomass						Hydro-			
	Coalc	Petro- leum ^d	Natural Gas ^e	Waste ^f	Totalg	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	electric Power ⁱ	Wood ^j	Waste ^f	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 796	NA	NA	NA	NA	NA	NA 7 009	NA 60.007	NA	3,161	NA	NA 949	3,161
1990 Total 1995 Total	796 998	589 379	3,272 5,162	812 1.519	5,837 8,232	21,107 22,372	7,008 6,030	60,007 71,717	9,641 11,943	2,975 5,304	25,379 28.868	949 900	130,830 151,025
1996 Total	1,051	369	5,249	2,176	9,030	22,172	6,260	71,049	13,015	5,878	28,354	919	151,017
1997 Total	1.040	427	4,725	2,342	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	1,353 1.310	375 235	4,249 4,355	1,657 1,599	8,492 8,371	19,466	5,368 4,223	72,882	9,687 9.923	3,195 2.899	28,271 28,400	733 572	144,739 148.254
2006 Total 2007 Total	1,310	235	4,355 4,257	1,599	8,273	19,464 16.694	4,223	77,669 77,580	9,923	2,699	28,400	631	140,254
2008 Total	1,261	142	4,188	1,535	7,926	15,703	3,219	76,421	8,507	1,676	26,641	821	137,113
2009 January	105	44	362	131	717	1,194	324	6,059	587	165	2,039	75	10,760
February	92	19	333	120	627	1,081	299	5,642	571	144	1,919	59	10,040
March	86	11	344	145	668	1,130	261	6,022	595	193	2,054	65	10,678
April	74	11	324	145	633	1,058	239	5,534	527	191	1,941	63	9,910
May	76	9	310	155	640	1,070	235	5,710	539	187	1,984	44 46	10,170
June	82 96	5 8	345 394	155 156	675 733	1,160 1,195	244 239	6,269 7,013	623 678	169 140	2,068 2,249	46 55	10,973 11,968
July August	109	13	414	150	769	1,195	239	7,013	734	140	2,249	55	12,314
September	89	8	374	148	693	1,105	238	6,810	725	95	2,352	52	11,545
October	85	8	346	146	659	1,204	212	6,405	680	136	2,206	72	11,289
November	94	11	311	151	648	1.072	215	6.239	655	137	2,181	76	10.975
December	107	13	367	143	703	1.181	219	6,855	662	175	2,152	78	11,709
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	119	11	365	142	711	1,574	238	6,839	640	173	2,207	62	11,990
February	105	9 9	324 340	114 134	612	1,481	193	6,068	587 735	168	2,026	55	10,809
March	88 79	9	340 331	134 153	645 656	1,627 1,184	163 170	6,491 6,105	735 688	182 169	2,238 2.165	55 67	11,772 10.834
April May	79 84	13	332	153	670	1,104	199	6,330	727	169	2,105	68	10,634
June	92	15	366	151	712	1,523	228	6,768	687	141	2,130	68	12.021
July	98	18	427	147	767	1,732	227	7,050	696	106	2,341	73	12,558
August	96	14	440	154	783	1,804	203	7,110	808	94	2,301	69	12,728
September	84	12	398	151	724	1,493	181	6,836	748	72	2,225	64	11,927
October	79	9	372	147	684	1,515	167	6,118	624	106	2,115	63	11,030
November	65	7	380	136	656	1,266	156	6,268	680	117	2,196	64	11,014
December	87	11	395	142	712	1,655	226	6,988	733	134	2,276	64	12,336
Total	1,078	136	4,470	1,723	8,334	18,446	2,351	78,972	8,353	1,632	26,445	774	140,461
2011 January	103	12	377	137	706	1,667	203	6,726	675	134	2,185	62	11,906
February	96	8	337	122	634	1,402	152	5,801	572	157	1,829	53	10,195
March	78	7	320	136	629	1,375	158	6,252	705	184	1,999	60	11,006
3-Month Total	276	27	1,034	395	1,969	4,444	513	18,779	1,952	475	6,012	175	33,107
2010 3-Month Total 2009 3-Month Total	312 284	29 75	1,030 1,039	390 397	1,969 2,012	4,683 3,405	594 884	19,398 17,723	1,962 1,753	524 502	6,471 6,011	172 199	34,571 31,477

(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. $^{\rm c}$ Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

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

^e Natural gas, plus a small amount of supplemental gaseous fuels. ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and the solid waste from non-biogenic sources, and the solid waste from non-biogenic sources, and the solid waste from non-biogenic sources. ^g Includes a small amount of conventional hydroelectric power, other gases,

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

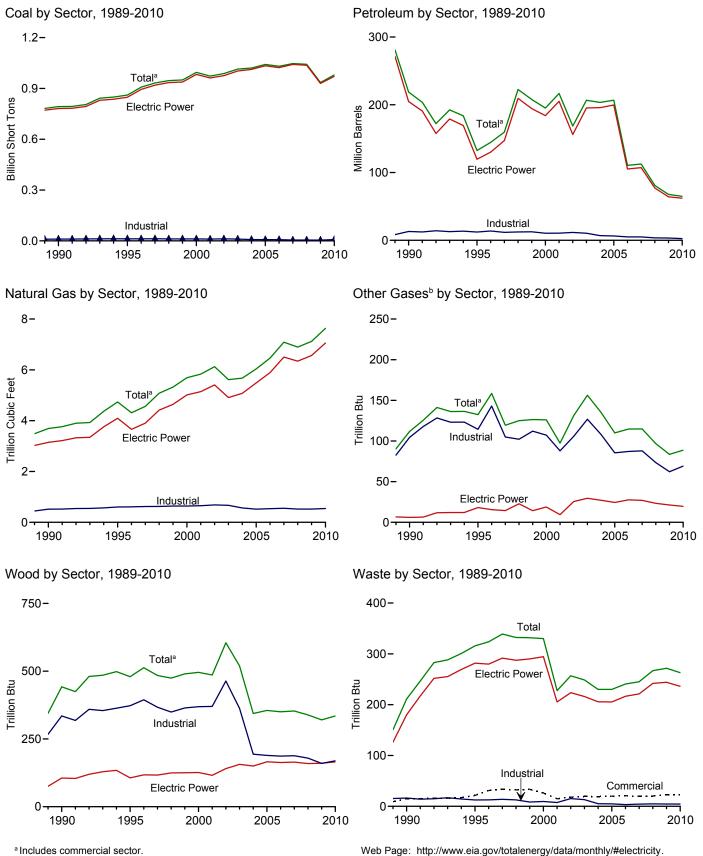
^h Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels. ⁱ Conventional hydroelectric power.

¹ Wood and wood-derived fuels. ^k Includes photovoltaic (PV) energy, 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

routes. • See Note, classification of Power Plants into Energy-Ose Sectios, 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.





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

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Sources: Tables 7.3a-7.3c.

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	TI	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		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	29,051	391,163	NA	179	421,110	3,682	NA	ິ 3	2	NA
1985 Total 1990 Total ^k	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	792,457	18,143	190,652	437	1,914	218,800	3,692	112	442	211	3
1995 Total	860,594	19,615	95,507	680	3,355	132,578	4,738	133	480	316	4
1996 Total	907,209 931,949	20,252 20,309	106,055 118,741	1,712 237	3,322 4,086	144,626 159,715	4,312 4,565	159 119	513 484	324 339	3
1997 Total 1998 Total	946,295	25,062	172,728	549	4,860	222,640	5,081	125	484	339	3
1999 Total	949.802	25,951	158.187	974	4,552	207,871	5,322	125	490	332	4
2000 Total	994,933	31,675	143,381	1,450	3,744	195,228	5,691	126	496	330	4
2001 Total	972,691	31,150	165,312	855	3,871	216,672	5,832	97	486	228	160
2002 Total	987,583	23,286	109,235	1,894	6,836	168,597	6,126	131	605	257	191
2003 Total	1,014,058	29,672	142,518	2,947	6,303	206,653	5,616	156	519	249	193
2004 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 1.046.795	13,174	58,473 63.833	2,174	7,363 6.036	110,634	6,462 7,089	115 115	350	241 245	172 168
2007 Total 2008 Total	1,046,795	15,683 12,832	03,033 38,191	2,917 2,822	5,417	112,615 80,932	6,896	97	353 339	245	172
2009 January	90.639	1.882	6.033	424	426	10.467	505	6	28	21	13
February	74,256	1,002	2,414	256	390	5,823	470	6	25	20	12
March	71,990	1,252	2,045	246	480	5,943	519	7	26	23	14
April	67,209	825	1,691	178	427	4,828	468	6	23	23	14
May	70,508	1,071	2,216	185	432	5,632	533	6	24	23	15
June	79,071	1,001	2,313	150	433	5,628	665	7	26	23	15
July	84,360	934	2,517	134	455	5,859	802	8	29	24	15
August	86,789	1,002	2,976	166	439	6,338	865	8	30	24	15
September	73,705	765 847	1,846 2.062	135 139	438	4,936	713 559	8 7	27	22	14
October November	74,686 73,150	847 827	2,062	139	276 273	4,427 3,551	559 479	7	27 27	22 23	14 14
December	88,320	1.050	1,246	172	353	4,234	544	8	29	23	14
Total	934,683	12,658	28,576	2,328	4,821	67,668	7,121	84	320	272	170
2010 January	90.716	2.473	2.857	210	437	7.723	566	7	29	21	12
February	80,053	817	1,081	167	402	4,076	496	6	26	19	11
March	76,548	743	1,264	114	441	4,326	473	8	28	22	13
April	67,090	681	1,174	104	385	3,882	492	8	26	23	14
May	76,123	1,014	2,024	101	417	5,227	580	8	26	23	14
June	87,451	1,253	3,150 3.735	137 184	489 529	6,983 7.897	729 922	8 7	28 30	22 23	14 14
July	94,992 94,767	1,333 1,090	3,735	184	529 411	6,326	922 971	8	30 31	23	12
August September	94,767 79.350	935	1.832	142	382	4.805	720	o 8	28	23	14
October	71,161	812	1,132	114	355	3,831	587	6	26	22	14
November	72,643	857	1,010	132	303	3,515	513	7	28	22	13
December	88,662	1,883	2,061	258	406	6,230	586	7	30	23	13
Total	979,555	13,892	24,359	1,790	4,956	64,821	7,633	89	335	263	161
2011 January	90,223	1,245	1,746	220	524	5,834	562	7	29	21	12
February	73,570	855	1,033	118	387	3,940	503	6	26	19	11
March	72,330	840	1,143	118	460	4,402	501	7	26	23	13
3-Month Total	236,122	2,940	3,923	456	1,371	14,175	1,566	21	81	63	37
2010 3-Month Total 2009 3-Month Total	247,317 236.885	4,033 4,337	5,202 10,492	491 926	1,280 1,296	16,124 22,234	1,535 1,493	22 19	83 79	62 64	37 40

^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, and waste oil. ^e Petroleum coke is converted from short tons to barrels by multiplying by 5. e f

Patural gas, plus a small amount of supplemental gaseous fuels.
 Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.
 Mood and wood-derived fuels.

¹ Wood and wood-derived rules. ¹ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

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 plants.

NA=Not available. (s)=Less than 0.5 trillion Btu.
 Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants.
 • Totals may not equal sum of components due to independent rounding.
 • Geographic coverage is the 50 States 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	т	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet				
1973 Total	389,212	47.058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total		38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	ົ 3	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	781,301 847,854	16,394 18,066	183,285 88,895	25 441	1,008 2,452	204,745 119,663	3,147 4,094	6 18	106 106	180 282	(s) 2
1995 Total 1996 Total	894.400	18,472	98.795	567	2,452 2,467	130,168	3.660	16	117	282	2
1997 Total		18,646	112,423	130	3,201	147,202	3,903	14	117	292	1
1998 Total		23,166	165,875	411	3,999	209,447	4,416	23	125	287	2
1999 Total		23,875	151,921	514	3,607	194,345	4,644	14	125	290	1
2000 Total		29,722	138,047	403	3,155	183,946	5,014	19	126	294	1
2001 Total 2002 Total		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
2002 Total		27,441	137,361	1,243	5,705	195,336	4,909	25 30	141	224	137
2004 Total		18,793	138,831	2,511	7,135	195.809	5.075	27	150	206	131
2005 Total	1,033,567	19,450	138,337	2,591	7,877	199,760	5,485	24	166	205	116
2006 Total		12,578	56,347	1,783	6,905	105,235	5,891	28	163	216	117
2007 Total		15,135	62,072	2,496	5,523	107,316	6,502	27	165	221	117
2008 Total	1,036,891	12,318	37,222	2,608	5,000	77,149	6,342	23	159	242	122
2009 January	90,224	1,778	5,871	400	398	10,039	460	1	15	19	9
February	73,894	1,084	2,313	234	363	5,445	429	1	13	18	8
March		1,198	1,958	201	455	5,632	475	2	13	20	10
April		769 981	1,623	149 172	403 407	4,557	428	2 2	11	20 21	9
May June		981	2,154 2,264	172	407	5,340 5.357	491 619	2	11 14	21	10 10
July		865	2,204	126	400	5,577	751	2	14	22	10
August		927	2,935	150	409	6,056	812	2	15	21	10
September	73,288	707	1,801	122	407	4,663	664	2	13	20	10
October		809	2,022	129	247	4,195	512	2	13	20	9
November		787	1,173	136	243	3,309	434	2	13	20	9
December Total		1,012 11,848	1,180 27,768	161 2,110	326 4,485	3,982 64,151	494 6,567	2 21	15 160	21 244	10 115
10tal	929,092	11,040	21,100	2,110	4,405	04,151	0,507	21	100	244	113
2010 January	90,034	2,435	2,782	199	409	7,462	516	2	15	18	9
February		789	1,032	162	376	3,861	452	2	13	17	8
March		720 655	1,229 1,141	108 100	415 359	4,134 3.690	425 447	2 2	14 13	20 21	9 10
April May		983	1,141	95	359	3,690 4,999	534	2	13	21	10
June		1.213	3.090	130	458	6.722	680	2	14	20	10
July		1,292	3,665	179	498	7,627	870	2	15	21	10
August	93,918	1,056	2,988	137	382	6,093	919	1	16	20	10
September		904	1,789	122	357	4,602	670	1	13	19	10
October		784 833	1,090 975	105 124	334 283	3,649 3,347	542 468	1 1	12 14	20 20	10 10
November December		1.851	975 1.996	244	283 379	3,347 5,984	468 535	1	14	20 20	10
Total		13,515	23,752	1,705	4,639	62,170	7,056	20	165	236	115
2011 January	89,440	1,224	1.689	215	495	5,602	512	2	14	19	9
February		834	994	215 112	495 365	3,764	457	2	14	19	9
March		822	1,106	111	437	4,222	455	2	13	21	10
3-Month Total		2,880	3,790	438	1,296	13,589	1,425	5	40	57	27
2010 3-Month Total		3,944	5,043	469	1,200	15,457	1,393	6	42	56	26
2009 3-Month Total	235,701	4,061	10,143	834	1,216	21,116	1,364	5	41	58	28

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

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

synfuel. ^b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel. ^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of For 4090-2000, electric utility data also include a small amount of fuel

petroleum. For 1980-2000, electric utility data also include a small amount of fuel

oil no. 4. ^d Jet fuel, kerosene, other petroleum liquids, and waste oil. ^e Petroleum coke is converted from short tons to barrels by multiplying by 5. e f

Patoreal code is converted in anount of supplemental gaseous typels.
 Patural gas, plus a small amount of supplemental gaseous typels.
 Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.
 ^h Wood and wood-derived fuels.

¹ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

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 and independent power producers. ^k Non-warden to have a state of the power producers.

for electric utilities and independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

		Commerci	al Sector ^a				Indu	strial Sector	b		
	Coal ^c	Petroleumd	Natural Gas ^e	Biomass Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Bion Wood ^h	nass Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Gases	Trillior		Other
1989 Total 1990 Total 1995 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2006 Total 2006 Total 2006 Total 2006 Total 2006 Total 2006 Total	414 417 569 656 630 440 481 514 532 477 582 377 377 377 347 361 369	1,165 953 649 645 790 802 931 823 1,023 834 894 766 585 333 258 166	18 28 43 42 39 41 39 37 36 33 33 33 34 35 34 33	9 15 21 34 32 33 26 15 18 19 19 20 21 19 20	9,707 10,740 12,171 12,153 12,311 11,728 11,726 10,636 11,855 10,440 7,687 7,504 7,608 7,408 5,089 5,075	8,482 13,103 12,265 13,813 11,723 12,392 12,595 10,459 10,530 11,608 10,424 6,919 6,440 5,066 5,041 3,617	444 517 601 623 625 639 640 654 668 566 518 536 554 520	83 104 114 143 105 102 112 107 88 106 127 108 85 87 88 73	267 335 373 394 367 349 364 369 370 464 369 370 464 189 187 188 179	15 16 13 13 14 13 8 0 7 15 13 5 5 3 4 5	37 36 35 35 35 35 45 44 43 46 41 46 45 41 39
2009 January February March April June July August September October November December Total	32 28 25 22 24 28 30 26 24 26 30 30 317	54 22 12 11 7 9 15 10 10 10 11 11 16 190	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3	384 334 356 381 412 415 437 391 430 357 396 4,674	374 356 299 259 282 265 273 267 263 223 232 232 236 3,328	42 38 41 39 43 48 50 47 44 43 47 520	5 5 5 4 4 5 6 6 6 6 5 6 6 2	13 12 13 13 13 14 15 14 14 14 14 14 14	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	3 3 3 3 4 4 4 4 3 3 4 4 4 4 2
2010 January February March April June June July August September October November December Total	34 30 26 22 24 28 30 30 26 24 21 27 322	12 12 11 10 14 17 20 16 14 11 8 12 157	3 3 3 3 3 3 3 3 3 3 3 3 3 6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	647 633 730 417 714 678 757 819 641 648 487 739 7,911	248 203 181 182 214 245 250 217 189 172 159 234 2,494	47 42 44 43 46 49 49 47 42 43 48 542	5 5 6 6 6 6 7 6 5 6 6 6 9	14 13 14 14 14 15 15 14 14 14 14 15 169	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 3 3 3 3 3 3 3 3 3 3 2 2 33
2011 January February March 3-Month Total	30 29 27 87	12 9 8 29	3 3 3 9	2 2 2 5	752 650 618 2,020	220 166 171 557	46 43 43 133	6 5 6 16	14 13 14 41	(s) (s) (s) 1	2 2 3 7
2010 3-Month Total 2009 3-Month Total	91 85	36 89	8 8	5 5	2,011 1,099	632 1,029	134 121	16 14	41 38	1 1	7 9

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

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

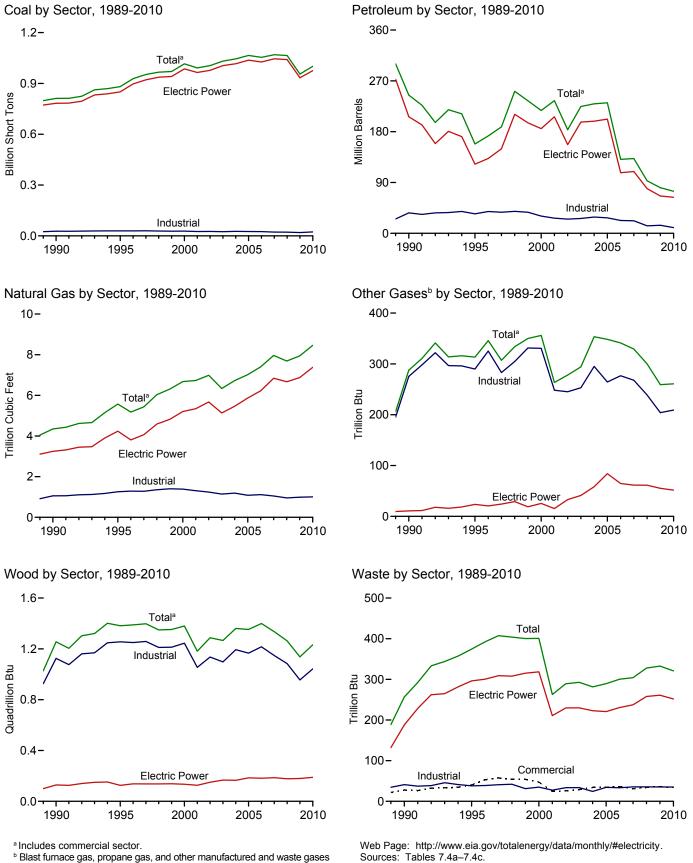
^c Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.
 ^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and the deside fuel of the sources.)

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

technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 (s)=Less than 0.5 trillion Btu. Notes: • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
 Web Page: See tht://www.eia.gov/totalenergy/data/month//ttelenerticity.for all

and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989.
Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator 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." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."



and Useful Thermal Output

Consumption of Selected Combustible Fuels for Electricity Generation

derived from fossil fuels.

Figure 7.4

				Petroleum					Bion	1966	
									БЮП	1033	
	Coal ^a	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		
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	ò	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k 1995 Total	811,538 881,012	20,194 21,697	209,081 112,168	1,332 1,322	2,832 4,590	244,765 158,140	4,346 5,572	288 313	1,256 1,382	257 374	86 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	30,006	189,267	1,230	6,196	251,486	6,030	334	1,349	404	95
1999 Total	970,175	30,616	172,319	1,812	5,989	234,694	6,305	350	1,352	400	101
2000 Total	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2001 Total	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	263	229
2002 Total	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	289	252
2003 Total	1,031,778	31,825 23,520	152,859	4,576 4,764	7,067 8.721	224,593 229.364	6,337	294 353	1,266 1,360	293 282	262 254
2004 Total 2005 Total	1,044,798 1,065,281	23,520	157,478 156,915	4,764	9,113	229,364 231,193	6,727 7,021	353	1,360	282	234
2006 Total	1,053,783	14.655	69.846	3,396	8.622	131.005	7,404	341	1,399	300	247
2007 Total	1.069.606	17,042	74,616	4,237	7.299	132,389	7.962	329	1.336	304	239
2008 Total	1,064,503	14,137	43,477	3,765	6,314	92,948	7,689	300	1,263	328	212
0000	00.044	0.457	0 700	500	500	40.007			05	07	10
2009 January	92,641 76.038	2,157 1,432	6,799 2,913	536 354	509 474	12,037 7,069	575 531	21 20	95 89	27 25	18 17
February March	73,810	1,432	2,913	350	559	7,069	584	20	92	25 30	18
April	68,738	994	2,054	275	494	5,794	531	19	86	27	19
May	72,092	1,238	2,817	270	501	6,827	597	20	89	27	20
June	80,689	1,174	2,706	205	514	6,652	731	21	93	27	20
July	86,039	1,118	2,850	181	545	6,876	874	23	100	28	20
August	88,471	1,158	3,297	215	530	7,322	940	24	103	28	20
September	75,305	923	2,168	199	531	5,946	785	24	96	26	19
October	76,319	980 972	2,380	195	364 366	5,377	628 544	22 22	98 97	28 29	19 19
November December	74,836 90,212	972 1.204	1,546 1,671	194 242	366 441	4,541 5,320	544 618	22	97 101	29 29	19
Total	955,190	14,800	33,672	3,218	5,828	80,830	7,938	259	1,137	333	228
2010 January	92,663	2,661	3,295	293	530	8,900	641	22	105	27	15
February	81,871	896	1,393	235	463	4,840	561	20	95	24	13
March	78,373	809	1,481	157	509	4,991	542	24	105	27	15
April	68,761	743	1,392	136	451	4,525	556	23	99	27	16
May	77,775 89,165	1,138 1,423	2,339 3,528	149 184	479 544	6,018 7,855	647 795	23 22	101 103	28 27	16 16
June July	96,811	1,423	3,528 4,150	217	544 590	7,000 8,809	795 995	22	103	27	16
August	96,600	1,432	3,387	182	455	7,083	1,042	23	107	27	17
September	81,081	1,028	2,124	168	415	5,396	788	21	103	25	16
October	72,857	883	1,426	169	426	4,611	654	19	100	27	16
November	74,391	941	1,260	178	370	4,232	580	21	103	27	15
December	90,607	2,010	2,452	347	470	7,161	660	22	104	28	15
Total	1,000,956	15,265	28,227	2,414	5,703	74,420	8,460	261	1,232	321	186
2011 January	92,207	1,317	2,131	271	581	6,627	642	22	103	27	15
February	75,344	939	1,257	155	462	4,661	567	20	93	25	14
March	74,090	898	1,391	158	538	5,136	569	23	97	27	16
3-Month Total	241,642	3,154	4,779	584	1,581	16,424	1,778	65	293	78	44
2010 3-Month Total 2009 3-Month Total	252,908 242,489	4,367 5,039	6,169 12,185	685 1,241	1,502 1,542	18,731 26,174	1,744 1,690	65 62	305 276	77 83	43 53

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

^a Animatic, bitaninous star, constraints of the start o

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

 For the matrix of the second se Wood and wood-derived fuels.

i Municipal solid waste from biogenic sources, landfill gas, sludge waste, ricultural byproducts, and other biomass. Through 2000, also includes agricultural byproducts, and other biomass.

non-renewable waste (municipal solid waste from non-biogenic sources, and

non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
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 calculate utilities independent power preductors or propagation to the propagation.

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

NA=Not available.

Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all

available data beginning in 1973.

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

				Petroleum					Bion	nass	
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	T	nousand Barre	els	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	29,051	391,163	NA	179	421,110	3.682	NA	(3)	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	
1996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	2
1997 Total	921,364	18,989	113,669	152	3,372	149,668	4,065	24	137	309	1
1998 Total	936,619	23,300	166,528	431	4,102	210,769	4,588	29	137	308	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	29,274	159,504	377	3,427	206,291	5,342	15	126	211	113
2002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	143
2003 Total	1,005,116	27,632	138,279	2,026	5,799	196,932	5,135	41	167	230	140
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	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	182	231	125
2007 Total	1,045,141	15,327 12,547	63,086 38,241	2,594 2,670	5,685 5,119	109,431 79,056	6,841	61 61	186 177	237 258	124 131
2008 Total	1,040,580	12,547	30,241	2,070	5,119	79,056	6,668	01	177	200	131
2009 January	90,640	1,865	5,974	424	410	10,311	487	4	17	21	10
February	74,254	1,106	2,385	256	374	5,614	453	4	15	19	g
March	71,948	1,227	2,023	214	464	5,785	500	4	14	24	10
April	67,123	776	1,709	159	414	4,712	451	4	12	21	10
May	70,425	987	2,230	192	418	5,497	515	5	13	22	11
June	78,954	935	2,345	132	418	5,501	643	5	15	22	11
July	84,243	868	2,558	127	434	5,721	778	5	16	23	11
August	86,635	930	3,021	151	419	6,199	840	5	17	23	11
September	73,566	709	1,885	123	416	4,799	690	5	14	21	10
October	74,520	813	2,123	132	256	4,349	537	5	14	21	10
November	73,063	797	1,260	138	252	3,457	457	4	15	22	10
December Total	88,255	1,023 12,035	1,270 28,782	162 2,210	336 4,611	4,137 66,081	520 6,873	5 55	17 180	22 261	10 124
TOTAL	933,627	12,035	20,702	2,210	4,011	66,06 I	0,073	55	100	201	124
2010 January	90,418	2,451	2,865	204	423	7,636	544	5	17	20	10
February	79,754	806	1,069	186	388	4,001	477	4	16	18	9
March	76,139	725	1,271	111	428	4,247	452	5	16	22	10
April	66,976	661	1,223	102	369	3,830	472	5	14	21	10
May	75,721	988	2,067	96	400	5,151	560	5	14	21	11
June	87,097	1,218	3,177	132	467	6,864	707	4	16	21	11
July	94,576	1,299	3,752	181	507	7,768	900	4	17	22	11
August	94,281	1,061	3,077	139	386	6,210	948	4	18	21	11
September	79,032	909	1,874	124	361	4,712	696	4	15	20	10
October	70,838	796	1,175	107	344	3,799	566	3	14	21	10
November	72,479	876	1,061	126	295	3,536	493	4	16	21	10
December	88,277	1,860	2,085	246	389	6,137	562	4 52	17	22	10
Total	975,588	13,650	24,696	1,755	4,758	63,891	7,378	52	189	252	124
2011 January	89.839	1,236	1,796	217	501	5.755	547	4	16	21	10
February	73,253	861	1,041	114	375	3,891	483	4	15	19	9
March	72,015	827	1,177	111	449	4,359	482	5	14	21	11
3-Month Total	235,107	2,924	4,014	442	1,325	14,005	1,511	13	45	61	29
2010 3-Month Total	246,311	3,981	5,205	502	1,239	15,884	1,473	14	48	60	28
2009 3-Month Total	236,842	4,197	10,382	893	1,233	21,710	1,441	12	40	63	29

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

 Antifiable, bitaline of star, start
 synfuel.
 ^b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.
 ^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

⁶ Jet fuel, kerosene, other petroleum liquids, and waste oil.
 ⁶ Petroleum coke is converted from short tons to barrels by multiplying by 5.
 ^f Natural gas, plus a small amount of supplemental gaseous fuels.
 ^g Blast furnace gas, propane gas, and other manufactured and waste gases by the facel that the supplemental gase of the supplement

derived from fossil 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).

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 Pae: See http://www.eia.gov/totalenergv/data/monthly/#electricity for all

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

		Commerci	al Sector ^a			Industrial Sector ^b							
			Natural	Biomass			Natural	Other	Biom				
	Coalc	Petroleum ^d	Gas ^e	Wastet	Coalc	Petroleum ^d	Gas ^e	Gases ^g	Wood ^h	Wastef	Other		
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu			
1989 Total	1,125	1,967	30	22	24,867	25,444	914	195	926	35	85		
1990 Total	1,191	2,056	46	28	27,781	36,159	1,055	275	1,125	41	86		
1995 Total	1,419	1,245	78 82	40 53	29,363	34,448	1,258	290 325	1,255	38 39	95 89		
1996 Total 1997 Total	1,660 1.738	1,246 1.584	82 87	53 58	29,434 29.853	38,661 37,265	1,289 1,282	325 283	1,249 1,259	39 41	102		
1997 Total	1,443	1,564	87 87	50	29,853	38,910	1,202	203 305	1,259	41	93		
1999 Total	1,443	1,613	84	54	27,763	37,312	1,333	331	1,213	31	99		
2000 Total	1.547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108		
2001 Total	1,448	1.832	79	25	25,755	26,817	1,310	248	1.054	27	101		
2002 Total	1,405	1,250	74	26	26,232	25,163	1,240	245	1,136	34	92		
2003 Total	1,816	1,449	58	29	24,846	26,212	1,144	253	1,097	34	103		
2004 Total	1,917	2,009	72	34	26,613	28,857	1,191	295	1,193	24	94		
2005 Total	1,922	1,630	68	34	25,875	27,380	1,084	264	1,166	34	94		
2006 Total	1,886	935	68	36	25,262	22,706	1,115	277	1,216	33	102		
2007 Total	1,927	752	70	31	22,537	22,207	1,050	268	1,148	36	98		
2008 Total	2,021	671	66	34	21,902	13,222	955	239	1,084	35	60		
2009 January	208 178	176 70	7 6	3	1,793	1,550	81 71	17	78 74	4 3	6		
February	170	35	6	3 3	1,605 1,692	1,385 1,248	71	16 17	74	3	6		
March April	128	26	5	3	1,092	1,248	79	17	73	4	6		
May	117	19	5	3	1,550	1,000	74	15	76	2	7		
June	135	13	6	3	1,600	1,138	82	16	77	2	7		
July	137	19	7	3	1,659	1,136	89	18	83	2	7		
August	143	38	7	3	1.694	1.086	92	19	86	2	7		
September	127	20	7	3	1,611	1,128	88	19	81	2	7		
October	129	17	6	3	1,671	1,010	85	17	84	4	7		
November	151	35	6	3	1,622	1,049	81	17	82	4	7		
December	174	53	7	3	1,783	1,130	91	17	84	4	7		
Total	1,798	521	76	36	19,766	14,228	990	204	955	35	82		
2010 January	195	41	7	3	2,051	1,222	90	17	88	3	3		
February	170	33	6	3	1,947	807	78	15	79	3	3		
March	156	32	6	3	2,079	712	84	19	89	3	3		
April	126 125	26 36	6 6	3	1,659 1,929	669 831	79 81	18 18	84 86	3	3		
May June	125	30 41	6	3	1,929	950	81	18	86 87	3	3		
July	143	56	7	3	2.092	930	88	17	90	3	4		
August	143	51	7	3	2,052	823	87	19	90	3	4		
September	142	36	6	3	1,907	648	85	17	88	3	4		
October	132	30	6	3	1,887	782	82	16	86	3	4		
November	136	29	7	3	1,776	667	81	17	87	3	3		
December	169	47	7	3	2,161	977	91	18	87	3	3		
Total	1,787	458	75	34	23,581	10,071	1,007	209	1,042	35	41		
2011 January	184	46	7	3	2,184	825	88	18	87	3	3		
February	171	27	6	3	1,919	743	78	16	78	3	3		
March	158	31	6	3	1,918	746	82	19	82	3	3		
3-Month Total	513	105	18	8	6,022	2,314	249	52	247	8	9		
2010 3-Month Total 2009 3-Month Total	520 557	107 281	19 18	8 9	6,077 5,090	2,740 4,183	252 231	52 50	256 229	9 11	10 18		

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

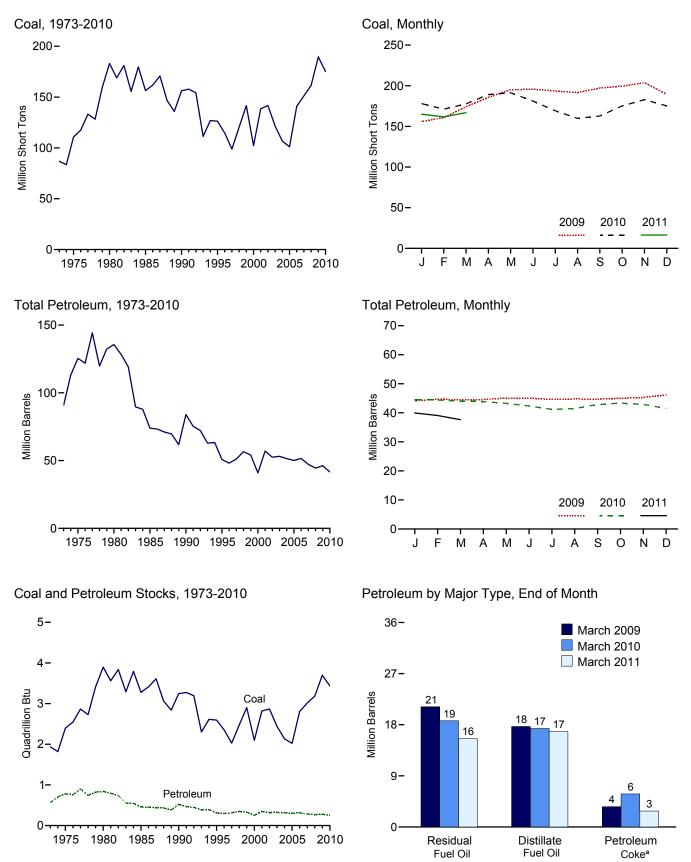
^c Distillate rule oil, residual rule oil, petroleum coke, jet rule, kerosene, other petroleum, and waste oil.
 ^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and the deside for the sources.)

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

^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: - 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.

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—Nonutility." • 2001-2003: 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."





^a Converted from short tons to barrels by multiplying by 5. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.5, A1, and A5 (column 6).

				Petroleum		
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrels
973 Year	86,967	10.095	79,121	NA	312	90,776
975 Year		16,432	108.825	NA	31	125.413
980 Year		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		15,456	33,336	NA	469	51,138
		,	37,451	NA	559	
998 Year	141,604	16,343		NA	372	56,591
999 Year ^f	141,004	17,995	34,256			54,109
000 Year		15,127	24,748	NA	211	40,932
001 Year		20,486	34,594	NA	390	57,031
002 Year		17,413	25,723	800	1,711	52,490
003 Year		19,153	25,820	779	1,484	53,170
004 Year		19,275	26,596	879	937	51,434
005 Year		18,778	27,624	1,012	530	50,062
006 Year		18,013	28,823	1,380	674	51,583
007 Year		18,395	24,136	1,902	554	47,203
008 Year	161,589	17,761	21,088	1,955	739	44,498
009 January	156,075	17,882	20,501	2,061	746	44,175
February	160,601	17,737	21,141	2,102	738	44,668
March	174,223	17,691	21,160	2,118	715	44,544
April	185,790	18,055	20,890	2,129	705	44,598
May	195,103	17,958	21,022	2,195	779	45,072
June	195,656	17,866	21,131	2,234	763	45,048
July		17,971	20,734	2,252	729	44,604
August		18,040	20.093	2,265	876	44,777
September		18,162	19.454	2,292	963	44.726
October		18,009	18,931	2,307	1,152	45,007
November		17.880	18,806	2,316	1,258	45,294
December		17,886	19,068	2,310	1,394	46,181
010 January	178.063	17.190	18.159	2.208	1,380	44.455
February	-,	17,427	18,605	2,232	1,233	44.430
March		17,342	18,692	2,232	1,164	43,962
April		17,341	18,356	2,109	1,190	43,890
May		17,306	17.953	2,240	1,190	43,890
June	,	17,230	17,450	2,211	1,095	42,367
July		17,156	16,473	2,297	1,055	41,202
August		16,993	16,386	2,316	1,155	41,471
September		17,012	17,415	2,346	1,213	42,839
October		16,904	17,839	2,377	1,247	43,357
November		17,283	17,498	2,416	1,137	42,883
December	175,160	17,052	16,702	2,371	1,087	41,563
011 January		16,982	16,160	2,436	876	39,957
February	161,705	16,966	15,723	2,487	781	39,083
March	166.954	16,798	15,554	2.474	563	37.644

 ^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 ^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant stocks of

petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4. ^d Jet fuel and kerosene. Through 2003, data also include a small amount of

waste oil.

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

Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

NA=Not available.

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

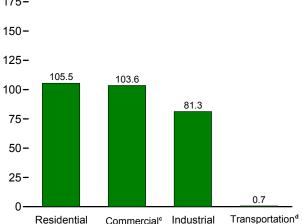
are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

available data beginning in 1973. Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982-1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-866, "Annual Electric Generator Report.—Nonutility." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-920, "Power Plant Operations Report." EIA-923, "Power Plant Operations Report."

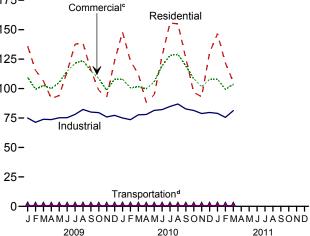
Figure 7.6 **Electricity End Use** (Billion Kilowatthours)

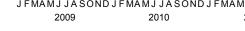
Electricity End Use Overview, 1989-2010 Retail Sales^a by Sector, March 2011 5,000-175-150-4,000-125-Total 3,000-100-Retail Sales^a 2,000-75-50-1,000-25-Direct Useb 0-0 1995 2000 2005 2010 1990 Retail Sales^a by Sector, 1973-2010 1,500-175-Residential 150-125-Industrial 1,000-100-Commercial 75-500 50-25-Transportation 0-1975 1980 1985 1990 1995 2000 2005 2010



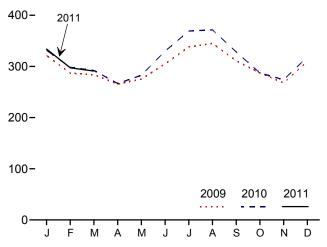
Residential Commercial^c Industrial

Retail Sales^a by Sector, Monthly





Retail Sales^a Total, Monthly



Retail Sales^a Total, January-March

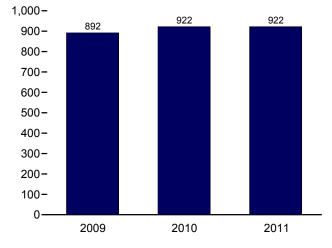


Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercialb	Industrialc	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	Commercial (Old) ^h	Other (Old) ⁱ
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	73,732
985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,279
990 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,988
995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
996 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,539
997 Total	1,075,880	1,026,626	1,038,197	4,907	3,145,610	156,239	3,301,849	928,633	102,901
998 Total	1,130,109	1,077,957	1,051,203	4,962	3,264,231	160,866	3,425,097	979,401	103,518
999 Total	1,144,923	1,103,821	1,058,217	5,126	3,312,087	171,629	3,483,716	1,001,996	106,952
000 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,496
001 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,174
002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552
003 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		
09 January	136,080	109,523	75,003	774	321,379	^E _10,369	331,749		
February	115,536	99,358	71,304	672	286,869	^E 9,637	296,507		
March	106,544	102,646	73,913	671	283,773	E 10,251	294,025		
April	91,473	100,020	73,662	611	265,766	E 9,526	275,292		
May	94,180	105,215	75,198	599	275,193	E 9,767	284,960		
June	114,347	114,752	75,246	611	304,956	E 10,524	315,480		
July	137,681	121,608	78,045	674	338,009	^E 11,475	349,484		
August	138,447	123,662	82,298	644	345,051	E 11,820	356,871		
September	115,372	115,027	80,022	638	311,059	E 11,057	322,116		
October	98,522	108,635	79,584	607	287,348	E 10,795	298,143		
November	92,722	98,646	75,917	592	267,877	E 10,501	278,378		
December	123,570	108,076	77,251	688	309,585	E 11,214	320,800		
Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
010 January	147,895	108,031	74,972	738	331,635	E 11,476	343,111		
February	123,425	100,588	73,602	722	298,337	E 10,319	308,656		
March	112,151	101,603	77,726	657	292,137	E 11,219	303,356		
April	88,175	99,709	77,977	604	266,465	E 10,382	276,846		
May	94,838	105,813	81,482	595	282,728	E 10,943	293,671		
June	127,692	119,394 128.192	82,166	654 658	329,906	E 11,504 E 12.039	341,411		
July	155,554		84,809	608	369,214	E 12,039	381,253 383.625		
August	154,954	128,967 119.324	86,889 82.677	608 628	371,418	E 12,208			
September	125,770 96,755	108.437	82,677 81,373	628 607	328,399 287,172	E 10.584	339,829 297,757		
October		108,437		595		E 10,584			
November	93,170		78,805	595 672	273,969		284,514		
December Total	130,380 1,450,758	107,864 1,329,322	79,688 962,165	7,740	318,605 3,749,985	E 11,789 E 134,438	330,394 3,884,423		
011 January	146.431	107.908	78.934	697	333.969	E 11,395	345,364		
February	121.729	99,357	75,566	650	297,302	E 9,784	307,086		
March	105,476	103.551	81,263	657	290,947	E 10.512	301,459		
3-Month Total	373,636	310,815	235,762	2,004	922,218	^E 31,691	953,909		
010 3-Month Total	383,471	310,221	226,299	2,117	922,109	^E 33,014	955,123		
009 3-Month Total	358,159	311.526	220,220	2.117	892.022	E 30,258	922.280		

Liectricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 ^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 reitreed at the 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 up to previous of facilities. ^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

¹ "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 and of section.

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/cneaf/electricity/forms/eia860/eia860.doc.

Table 7.1 Sources

Net Generation, Electric Power Sector Table 7.2b.

Net Generation, Commercial and Industrial Sectors Table 7.2c.

Imports and Exports, Electricity Trade With Canada and Mexico, 1973–1989

1973–September 1977: Unpublished Federal Power Commission data.

October 1977–1980: Unpublished Economic Regulatory Administration (ERA) data.

1981: U.S. Department of Energy (DOE), Office of Energy Emergency Operations, "Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981," April 1982 (revised June 1982).

1982 and 1983: DOE, ERA, *Electricity Exchanges Across International Borders*.

1984–1986: DOE, ERA, *Electricity Transactions Across International Borders*.

1987 and 1988: DOE, ERA, Form ERA-781R, "Annual Report of International Electrical Export/Import Data."

1989: DOE, Fossil Energy, Form FE-781R, "Annual Report of International Electrical Export/Import Data."

Imports and Exports, Electricity Trade with Canada, 1990 Forward

National Energy Board of Canada, data for total sales (firm and interruptible; which exclude non-revenue, inadvertent, and service) from Canada to the United States, and data for total purchases (which exclude non-revenue, inadvertent, and service) by Canada from the United States.

Imports and Exports, Electricity Trade with Mexico, 1990 Forward

DOE, Fossil Energy, Office of Fuels Programs, Form FE-781R, "Annual Report of International Electrical Export/Import Data." For 2001 forward, data from the California Independent System Operator were used in combination with the Form FE-781R values to estimate electricity trade with Mexico.

T&D Losses and Unaccounted for

Calculated as the sum of total net generation and imports minus end use and exports.

End Use

Table 7.6.

Table 7.2b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1973–1988 1973–September 1977: Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

October 1977–1978: Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FERC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

1979: FERC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and U.S. Energy Information Administration (EIA) estimates for all other plants. 1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

All Data, 1989 Forward

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.3b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001-2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.4b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.6 Sources

Retail Sales, Residential and Industrial

1973–September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

October 1977–February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

March 1980–1982: FERC, Form FPC-5, "Electric Utility Company Monthly Statement."

1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." 1984–1993: EIA, Form EIA-861, "Annual Electric Utility Report."

1994 forward: EIA, *Electric Power Monthly*, June 2011, 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*, June 2011, 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*, June 2011, Table 5.1.

Direct Use, Annual

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

1997–2009: EIA, *Electric Power Annual 2009*, November 2010, Table 7.2.

2010: Sum of monthly estimates.

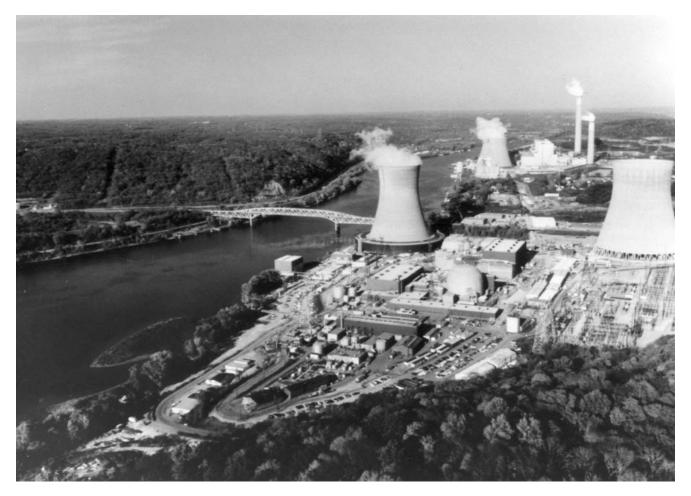
Direct Use, Monthly

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 2010 and 2011, the 2009 annual share is used.

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

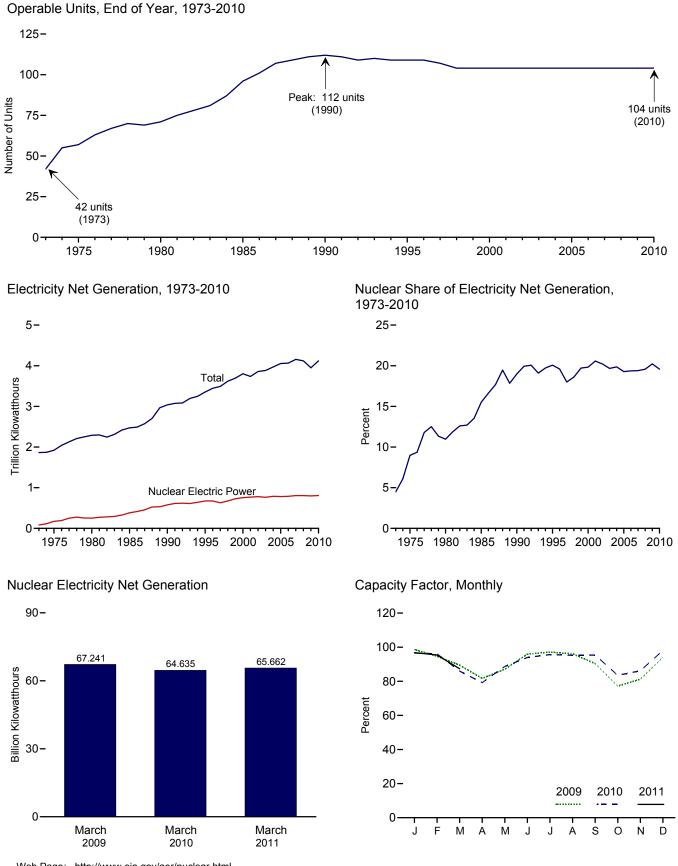
1973-2002: See sources for "Residential" and "Industrial."





Site of Shippingport atomic power station, the first commercial nuclear power plant in the United States (rectangular reactor building and foreground); background, Beaver Valley 1 and 2 nuclear power plants and Bruce Mansfield coal-fired power plant (southwestern Pennsylvania). Source: U.S. Department of Energy.





Web Page: http://www.eia.gov/aer/nuclear.html. Sources: Tables 7.2a and 8.1.

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor ^d
	Number	Million Kilowatts	Million Kilowatthours	Per	cent
973 Total	42	22.683	83,479	4.5	53.5
975 Total	57	37.267	172,505	9.0	55.9
980 Total	71	51.810	251,116	11.0	56.3
	96				58.0
985 Total		79.397	383,691	15.5	
990 Total	112	99.624	576,862	19.0	66.0
995 Total	109	99.515	673,402	20.1	77.4
996 Total	109	100.784	674,729	19.6	76.2
997 Total	107	99.716	628,644	18.0	71.1
998 Total	104	97.070	673,702	18.6	78.2
999 Total	104	97.411	728,254	19.7	85.3
000 Total	104	97.860	753,893	19.8	88.1
001 Total	104	98.159	768,826	20.6	89.4
	104				
002 Total		98.657	780,064	20.2	90.3
003 Total	104	99.209	763,733	19.7	87.9
004 Total	104	99.628	788,528	19.9	90.1
2005 Total	104	99.988	781,986	19.3	89.3
2006 Total	104	100.334	787,219	19.4	89.6
2007 Total	104	100.266	806.425	19.4	91.8
008 Total	104	100.755	806,208	19.6	91.1
009 January	104	101.004	74,102	20.9	98.6
February	104	101.004	64,227	21.3	94.6
March	104	101.004	67,241	21.6	89.5
April	104	101.004	59.408	20.5	81.7
	104			20.5	87.0
May		101.004	65,395		
June	104	101.004	69,735	20.1	95.9
July	104	101.004	72,949	19.6	97.1
August	104	101.004	72,245	19.0	96.1
September	104	101.004	65,752	20.1	90.4
October	104	101.004	58,021	18.9	77.2
November	104	101.004	59,069	19.9	81.2
December	104	101.004	70.710	20.2	94.1
Total	10 4	101.004	798,855	20.2	90.3
010 January	104	101.004	72,569	20.1	96.6
February	104	101.004	65,245	20.5	96.1
	104			20.5	96.1 86.0
March		101.004	64,635		
April	104	101.004	57,611	20.1	79.2
Мау	104	101.004	66,658	20.3	88.7
June	104	101.004	68,301	18.2	93.9
July	104	101.004	71,913	17.5	95.7
August	104	101.004	71,574	17.5	95.2
September	104	101.004	69,371	20.1	95.4
October	104	101.004	62.751	20.4	83.5
	104			20.4	86.2
November		101.004	62,655		
December	104	101.004	73,683	20.4	98.1
Total	104	101.004	806,968	19.6	91.2
011 January	104	101.004	72,743	20.0	96.8
February	104	101.004	64,789	20.7	95.5
March	104	101.004	65,662	20.7	87.4
3-Month Total	104	101.004	203,193	20.5	93.1
2010 3-Month Total	104	101.004	202,449	20.4	92.8
009 3-Month Total	104	101.004	205,570	21.3	94.2

Table 8.1 Nuclear Energy Overview

^a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at end of period. See Note 1, "Operable Nuclear Reactors," at end of section. For additional information on nuclear generating units, see Annual Energy Review 2009, August 2010, Table 9.1, http://www.eia.gov/aer/nuclear.html. 9.1,

^c For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," at end of section. $^{\rm d}$ For an explanation of the method of calculating the capacity factor, see Note

2, "Nuclear Capacity," at end of section.

Notes: • For a discussion of nuclear reactor unit coverage, see Note 1, Notes: • For a discussion or indicear reactor unit coverage, see Note 1, "Operable Nuclear Reactors," at end of section. • Nuclear electricity net generation totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#nuclear for all independent 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," and monthly updates as appropriate. For a list of currently operable units, see http://www.eia.gov/cneaf/nuclear/page/nuc_reactors/operational.xls.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

See Table 7.2a.

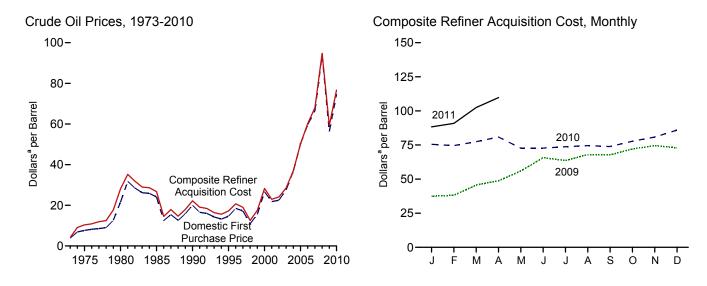
Capacity Factor

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

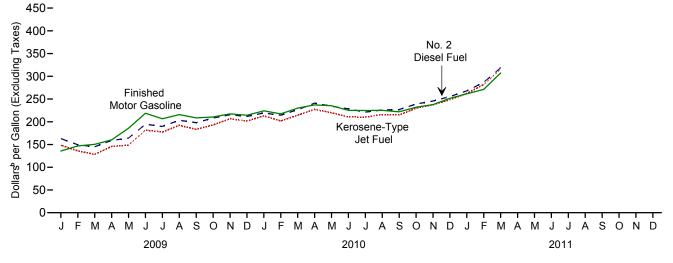


Energy Prices

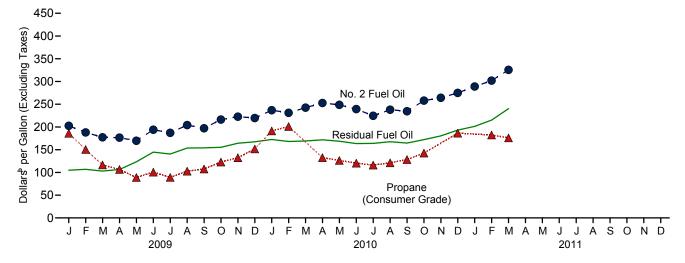




Refiner Prices to End Users: Motor Gasoline, Diesel Fuel, and Jet Fuel, Monthly



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. Sources: Tables 9.1, 9.5, and 9.7. Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices.

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

	Domestic First			Refiner Acquisition Cost ^b					
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite			
973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	^E 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			
	24.09	25.84	26.67	26.66	26.99	26.75			
985 Average									
990 Average	20.03	20.37	21.13	22.59	21.76	22.22			
995 Average	14.62	15.69	16.78	17.33	17.14	17.23			
996 Average	18.46	19.32	20.31	20.77	20.64	20.71			
997 Average	17.23	16.94	18.11	19.61	18.53	19.04			
998 Average	10.87	10.76	11.84	13.18	12.04	12.52			
999 Average	15.56	16.47	17.23	17.90	17.26	17.51			
000 Average	26.72	26.27	27.53	29.11	27.70	28.26			
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			
2004 Average	36.77	33.75	36.07	38.97	35.90	36.98			
005 Average	50.28	47.60	49.29	52.94	48.86	50.24			
006 Average	59.69	57.03	59.11	62.62	59.02	60.24			
007 Average	66.52	66.36	67.97	69.65	67.04	67.94			
2007 Average	94.04	90.32	93.33	98.47	92.77	94.74			
ooo Average	94.04	90.32	93.33	30.47	92.11	34.74			
009 January	35.00	36.87	38.74	38.67	36.84	37.45			
February	34.14	38.08	40.27	37.51	38.56	38.15			
March	42.45	44.34	46.74	44.92	45.96	45.57			
April	45.19	47.67	51.43	47.52	49.58	48.78			
May	52.67	55.61	58.27	54.58	56.77	55.96			
June	63.09	64.82	65.89	64.65	66.37	65.72			
	60.44	62.32	64.78	63.79	63.46	63.58			
July									
August	65.28	67.47	68.53	67.81	68.09	67.99			
September	65.28	65.41	68.50	67.87	67.65	67.74			
October	69.82	70.45	72.58	72.09	72.06	72.08			
November	71.99	73.16	74.41	74.60	74.40	74.48			
December	70.42	71.24	73.50	73.35	72.67	72.95			
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	70.50	70.17	72.62	73.93	71.91	72.66			
July	71.37	71.01	73.43	74.54	73.25	73.73			
	72.07	71.27	73.63	76.21	73.50	74.58			
August									
September	71.23	71.72	74.25	74.87	73.20	73.85			
October	76.02	75.52	77.26	78.88	77.02	77.77			
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			
Average	74.71	74.20	76.49	77.96	75.88	76.69			
011 January	85.66	^R 86.80	^R 89.61	88.73	87.99	88.28			
February	86.69	^R 91.98	^R 93.47	^R 89.50	91.72	^R 90.85			
March	^R 99.21	^R 103.76	^R 102.52	^R 102.36	^R 102.59	^R 102.50			
April	NA	NA	NA	E 110.22	E 109.23	E 109.72			

^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 for the current two months and for F.O.B. and Landed Costs of Imports for the

current three months are preliminary. • F.O.B. and landed costs through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are the averages of the monthly prices, weighted by volume. • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the

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

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

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

(Dollars^a per Barrel)

			S	elected Counti	ries	-		Dereion		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC
1973 Average ^d	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1975 Average	10.97	_	11.44	11.82	10.87	_	11.04	10.88	11.34	10.62
1980 Average	33.45	w	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	-	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
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
1998 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
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2004 Average	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2005 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2006 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
2007 Average	67.80	67.93	61.35	76.64	W	69.96	64.10	69.93	69.58	62.69
2008 Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
009 January	39.50	26.24	36.96	46.26	W	W	36.68	35.24	37.61	36.15
February	40.60	32.55	37.59	45.02	W	_	38.03	36.38	39.71	36.81
March	44.56	46.69	40.94	50.34	48.31	W	41.78	47.66	45.75	42.96
April	50.59	W	46.71	54.00	W	_	45.98	51.05	48.82	46.87
May	55.23	54.17	55.49	59.02	Ŵ	_	54.91	58.05	56.30	55.12
June	66.96	62.94	63.83	69.00	W	_	63.16	64.26	65.37	64.34
July	63.34	58.58	60.42	69.73	Ŵ	_	60.16	63.42	63.25	61.39
August	72.25	64.41	67.20	72.37	66.37	W	65.42	66.14	67.65	67.31
September	67.49	63.68	64.51	69.65	W	_	64.18	67.25	65.91	65.04
October	71.19	69.59	68.71	76.01	W	W	66.95	73.45	70.54	70.38
November	76.89	70.96	72.71	77.58	Ŵ	Ŵ	69.43	72.99	73.60	72.81
December	74.56	66.72	69.75	76.06	W	_	68.32	72.85	72.48	70.01
Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
2010 January	74.62	70.08	72.96	75.91	W	_	70.86	w	73.42	72.49
February	W	68.70	69.16	76.07	W	-	68.83	71.89	71.77	71.14
March	78.11	73.90	72.76	81.27	Ŵ	-	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	Ŵ	_	66.19	72.49	71.39	69.20
July	74.77	70.00	68.53	79.63	Ŵ	-	67.25	71.76	72.16	69.87
August	77.11	69.88	69.53	75.70	Ŵ	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	Ŵ	76.06	73.93	84.59	W	-	72.10	78.28	77.55	73.80
November	85.99	78.92	77.14	86.61	Ŵ	_	75.03	80.99	80.95	78.49
December	W	81.62	81.75	93.68	Ŵ	-	77.78	W	85.72	82.40
Average	78.18	72.56	72.46	80.83	76.44	w	70.30	75.65	75.23	73.24
2011 January	95.97	83.36	84.36	^R 99.86	W	_	^R 81.25	W	^R 89.74	^R 83.92
February	W	^R 87.23	^R 88.77	R 109.07	Ŵ	-	R 85.11	^R 97.32	^R 96.03	R 88.45
March	113.76	100.16	102.81	118.53	Ŵ	_	97.68	107.36	105.83	101.85

^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 Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974-1995, also includes Gabon (although Gabon was a member of OPEC for only 1975-1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."
 ^d Based on October, November, and December data only.
 R=Revised. — =No data reported. W=Value withheld to avoid disclosure of

R=Revised. - =No data reported. W=Value withheld to avoid disclosure of individual company data.

Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all costs related to insurance and transportation. See "F.O.B." in Glossary, and Note 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. U.S. geographic. data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars^a per Barrel)

		_		Selected	Countries		_		Dension		
	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		12.84		12.61	12.70	12.50	_	12.36	12.64	12.70	12.70
1980 Average		30.11	w	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
		25.71		25.63	28.96	29.00	28.36	23.92	25.50	26.86	26.53
1985 Average			-								
1990 Average		20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average		16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average		19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
1997 Average		17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 Average		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		20.72	25.88	19.37	26.55	20.98	25.32	19.81	20.73	21.52	22.17
2002 Average		22.98	25.28	22.09	26.45	24.77	26.35	21.93	24.13	23.83	23.97
2003 Average		26.76	30.55	25.48	31.07	27.50	30.62	25.70	27.54	27.70	27.68
2004 Average		34.51	39.03	32.25	40.95	37.11	39.28	33.79	36.53	36.84	35.29
2005 Average		44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
		53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2006 Average											
2007 Average		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 January	43.58	34.17	32.08	38.08	48.98	39.78	W	39.12	39.41	40.26	36.96
February		35.83	34.49	38.16	47.00	44.46	W	39.58	43.17	42.75	38.08
March		44.22	46.70	41.76	53.02	52.14	47.76	43.87	50.54	48.55	45.09
April		47.60	46.43	47.26	59.03	57.32	52.41	48.40	57.10	54.22	48.78
May		54.42	54.90	56.22	63.48	62.40	60.43	56.78	62.11	60.06	56.79
June		63.97	65.65	64.39	69.29	66.27	68.54	64.52	66.28	66.63	65.19
		62.18	63.24	60.99	71.46	66.14	W	62.11	66.20	66.27	63.23
July											
August		64.23	66.71	67.71	73.94	69.37	73.66	67.23	69.23	70.00	66.96
September		66.59	66.27	65.00	71.98	72.77	W	65.85	72.05	70.02	66.84
October		70.28	71.24	69.40	77.72	74.20	W	68.85	74.18	73.71	71.46
November		71.95	72.70	73.29	79.00	73.92	W	71.41	73.99	75.18	73.67
December		70.01	70.18	70.20	78.63	73.08	78.33	70.46	74.54	75.01	71.88
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		73.37	73.11	69.48	79.25	77.29	77.84	70.91	77.27	76.24	73.33
March		76.82	76.08	73.07	83.68	77.57	79.07	72.92	77.55	78.40	76.84
April		78.36	76.33	75.03	86.80	79.53	80.25	75.21	79.15	80.07	78.61
May		69.16	66.52	68.71	76.90	77.52	W	68.53	76.20	73.95	70.20
June		69.14	69.64	68.02	78.14	76.01	77.67	68.30	75.14	74.55	70.92
July		70.25	71.61	69.31	81.07	75.46	76.60	69.59	74.75	74.81	72.03
August		70.10	71.49	69.95	79.15	76.06	79.52	70.14	75.81	75.42	71.81
September		68.66	70.85	70.47	81.58	77.15	W	68.88	76.64	76.39	71.89
October		69.23	76.72	74.73	86.01	81.81	W	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		80.76	82.76	82.37	95.44	90.45	92.50	80.79	89.99	89.25	83.97
Average		72.80	74.25	72.86	83.15	79.25	80.12	72.43	78.58	78.27	74.67
2011 January	99.58	^R 81.43	^R 85.88	85.00	^R 101.24	^R 96.59	W	^R 84.70	^R 96.57	^R 94.03	^R 85.02
		^R 80.14	^R 90.14	^R 89.08	^R 101.24	^R 100.43	RW	R 89.88	^R 99.54	^R 98.96	R 88.80
February											
March	116.00	86.22	105.28	103.22	120.03	107.07	115.48	101.45	106.34	107.83	98.73

 ^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, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973-2008, also includes Indonesia; for 1973-1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974-1995, also includes Gabon (although Gabon was a member of OPEC for only 1975-1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC." ^d Based on October, November, and December data only.

^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. Costs, at end of section. • Values for the current two months are preluminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.
 Sources: • October 1973-September 1977: Federal Energy Administration,
 Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977-December 1977:
 U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 22. • 2010 and 2011: EIA, Petroleum Marketing Monthly, June 2011, 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
75 Average	0.567	NA	NA	NA
	1.191	1.245	NA	1.221
0 Average				
5 Average	1.115	1.202	1.340	1.196
00 Average	1.149	1.164	1.349	1.217
95 Average	NA	1.147	1.336	1.205
96 Average	NA	1.231	1.413	1.288
07 Average	NA	1.234	1.416	1.291
8 Average	NA	1.059	1.250	1.115
99 Average	NA	1.165	1.357	1.221
00 Average	NA	1.510	1.693	1.563
01 Average	NA	1.461	1.657	1.531
02 Average	NA	1.358	1.556	1.441
3 Average	NA	1.591	1.777	1.638
04 Average	NA	1.880	2.068	1.923
	NA	2.295	2.000	2.338
05 Average	NA	2.295	2.491	2.635
06 Average				
07 Average	NA	2.801	3.033	2.849
08 Average	NA	3.266	3.519	3.317
09 January	NA	1.787	2.036	1.838
February	NA	1.928	2.182	1.979
March	NA	1.949	2.197	2.000
April	NA	2.056	2.309	2.107
May	NA	2.265	2.511	2.314
June	NA	2.631	2.883	2.681
July	NA	2.543	2.806	2.594
	NA	2.627	2.887	2.677
August				
September	NA	2.574	2.845	2.626
October	NA	2.561	2.826	2.613
November	NA	2.660	2.917	2.709
December	NA	2.621	2.882	2.671
Average	NA	2.350	2.607	2.401
10 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
Мау	NA	2.869	3.124	2.915
	NA	2.009	3.000	2.783
June				
July	NA	2.736	2.997	2.783
August	NA	2.745	3.015	2.795
September	NA	2.704	2.968	2.754
October	NA	2.795	3.055	2.843
November	NA	2.852	3.109	2.899
December	NA	2.985	3.234	3.031
Average	NA	2.788	3.047	2.836
11 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

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

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

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

Notes: • See Note 5, "Motor Gasoline Prices," at end of section. • In September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. From September 1981 forward, gasohol is included in the average for all types, and unleaded premium is weighted more heavily. • Geographic coverage for 1973-1977 is 56 urban areas. Geographic coverage for 1978 forward is 85 urban areas.

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

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

Table 9.5 Refiner Prices of Residual Fuel Oil

(Dollars^a per Gallon, Excluding Taxes)

	Sulfur Co	II Fuel Oil ntent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	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
	0.382	0.405	0.329	0.362	0.354	0.374
999 Average 000 Average	0.627	0.708	0.529	0.566	0.566	0.602
000 Average	0.523	0.642	0.428	0.492	0.300	0.531
001 Average	0.525	0.640	0.428	0.544	0.530	0.569
	0.546	0.840	0.508	0.651	0.661	0.569
003 Average	0.728	0.804	0.560	0.692	0.681	0.698
004 Average						
005 Average	1.115	1.168	0.842	0.974	0.971	1.048
006 Average	1.202	1.342	1.085	1.173	1.136	1.218
007 Average	1.406	1.436	1.314	1.350	1.350	1.374
008 Average	1.918	2.144	1.843	1.889	1.866	1.964
009 January	1.035	1.164	0.861	0.953	0.926	1.049
February	1.011	1.200	0.918	0.974	0.954	1.068
March	1.019	1.183	0.917	0.952	0.952	1.030
April	1.077	1.174	0.992	1.027	1.017	1.066
May	1.205	1.213	1.191	1.245	1.195	1.234
June	1.401	1.440	1.373	1.451	1.381	1.447
July	1.417	1.488	1.400	1.369	1.405	1.404
August	1.584	1.641	1.567	1.488	1.572	1.536
September	1.531	1.689	1.556	1.491	1.549	1.540
October	1.619	1.717	1.549	1.501	1.560	1.552
November	1.743	1.739	1.700	1.602	1.711	1.642
December	1.723	1.813	1.673	1.614	1.685	1.674
Average	1.337	1.413	1.344	1.306	1.342	1.341
010 Jonuary	1 767	1 950	1 705	1 660	1 701	1 705
D10 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
	2.344	2.650	2.309	2.245	2.322	2.403

 $^{\rm a}\,$ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. NA=Not available.

6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

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 and 2011: EIA, Petroleum Marketing Monthly, June 2011, 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
			0.794	0.874	0.803		
985 Average	0.835 0.786	1.130 1.063	0.794	0.874	0.697	0.772 0.694	0.398 0.386
990 Average							
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
004 Average	1.288	1.627	1.208	1.271	1.125	1.187	0.751
005 Average	1.670	2.076	1.723	1.757	1.623	1.737	0.933
006 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
007 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
008 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
009 January	1.246	1.851	1.472	1.810	1.548	1.480	0.974
February	1.333	2.040	1.352	1.607	1.427	1.326	0.890
March	1.397	2.031	1.266	1.456	1.358	1.315	0.805
April	1.482	2.225	1.425	1.480	1.397	1.456	0.719
May	1.763	2.478	1.460	1.540	1.468	1.531	0.728
June	2.022	2.743	1.780	1.849	1.744	1.828	0.838
July	1.867	2.548	1.759	1.773	1.658	1.745	0.760
August	2.026	2.759	1.894	1.951	1.804	1.937	0.837
September	1.915	2.592	1.822	1.857	1.774	1.848	0.923
October	1.975	2.611	1.917	2.053	1.918	1.978	1.004
November	2.039	2.701	2.060	2.067	2.004	2.037	1.088
December	1.999	2.655	2.000	2.148	1.989	1.997	1.178
	1.767	2.000 2.480	1.719	1.844	1.657	1.713	0.921
Average	1.707	2.400	1.719	1.044	1.057	1.713	0.921
010 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	2.093	2.325	1.253
November	2.190	2.868	2.203	2.364 NA	2.308	2.325	1.253
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	^R 2.974	^R 2.737	^R 2.820	1.401
March	2.934	3.607	3.097	3.196	2.996	3.136	1.404

 $^{a}\,$ 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.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy

Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

available data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 4.
• 2010 and 2011: EIA, Petroleum Marketing Monthly, June 2011, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Dollars^a per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
978 Average	0.484	0.516	0.387	0.421	0.400	0.377	0.335
980 Average	1.035	1.084	0.868	0.902	0.788	0.818	0.482
985 Average	0.912	1.201	0.796	1.030	0.849	0.789	0.717
990 Average	0.883	1.120	0.766	0.923	0.734	0.725	0.745
995 Average	0.765	1.005	0.540	0.589	0.562	0.560	0.492
996 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
997 Average	0.839	1.128	0.613	0.745	0.636	0.642	0.552
998 Average	0.673	0.975	0.452	0.501	0.482	0.494	0.405
999 Average	0.781	1.059	0.543	0.605	0.558	0.584	0.458
	1.106	1.306	0.899	1.123	0.927	0.935	0.603
000 Average	1.032	1.323	0.899	1.045	0.829	0.842	0.506
001 Average	0.947				0.829		
002 Average		1.288	0.721	0.990		0.762	0.419
003 Average	1.156	1.493	0.872	1.224	0.933	0.944	0.577
004 Average	1.435	1.819	1.207	1.160	1.173	1.243	0.839
005 Average	1.829	2.231	1.735	1.957	1.705	1.786	1.089
006 Average	2.128	2.682	1.998	2.244	1.982	2.096	1.358
007 Average	2.345	2.849	2.165	2.263	2.241	2.267	1.489
008 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
009 January	1.358	1.857	1.483	2.626	2.026	1.630	1.861
February	1.468	1.974	1.360	2.627	1.879	1.495	1.505
March	1.503	1.977	1.281	2.565	1.772	1.450	1.166
April	1.601	2.150	1.458	2.540	1.765	1.589	1.065
May	1.856	2.423	1.486	2.497	1.697	1.640	0.889
June	2.187	2.707	1.818	2.490	1.939	1.945	1.008
July	2.067	2.607	1.774	2.462	1.871	1.897	0.891
August	2.157	2.764	1.922	2.545	2.041	2.032	1.029
September	2.086	2.684	1.834	NA	1.972	1.980	1.075
October	2.104	2.693	1.930	2.738	2.163	2.082	1.229
November	2.173	2.845	2.064	2.875	2.227	2.155	1.323
December	2.144	2.799	2.016	2.894	2.197	2.100	1.517
Average	1.888	2.442	1.704	2.675	1.962	1.834	1.220
	2.240	2.914	2.129	2.986	2.369	2.192	1.913
D10 January	2.240	2.855	2.018	2.900	2.309	2.192	2.009
February	2.301		2.018	2.974	2.310	2.144	2.009 NA
March		3.103					
April	2.370	3.201	2.272	3.040	2.527	2.410	1.326
May	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
September	2.219	2.893	2.148	2.898	2.346	2.269	1.283
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
011 January	2.615	3.323	2.623	3.358	2.889	2.681	NA
February	2.712	3.374	2.818	3.506	3.020	2.867	1.823
March	3.072	3.762	3.161	3.697	3.256	3.189	1.760

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.

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

valiable data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 2.
2010 and 2011: EIA, Petroleum Marketing Monthly, June 2011, Table 2.

NA=Not available.

Table 9.8a No. 2 Distillate Prices to Residences: Northeastern States

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
1079 Average	0.486	0.503	0.508	0.488	0.507	0.501	0.501	0.496	0.488
1978 Average	0.486	1.004	1.015	0.488	1.011	0.983	0.982	0.496	0.488
1980 Average 1985 Average	0.963	1.004	1.015	1.070	1.067	1.080	1.113	1.059	1.023
	0.989	1.024	1.077	1.084	1.086	1.098	1.125	1.039	1.023
1990 Average	0.989	0.779	0.853	0.844	0.874	0.864	0.955	0.888	0.826
1995 Average	0.972	0.940	0.855	0.976	0.986	0.986	1.063	1.024	0.953
1996 Average	0.972	0.940	0.969	0.976	0.989	0.963	1.065	1.024	0.953
1997 Average	0.942	0.942		0.818	0.969	0.983	0.948	0.892	
1998 Average			0.873						0.814
1999 Average	0.813	0.770	0.854	0.836	0.858	0.852	0.969	0.913	0.815
2000 Average	1.297	1.281	1.255	1.273	1.259	1.291	1.442	1.404	1.224
2001 Average	1.217	1.256	1.261	1.221	1.236	1.239	1.363	1.314	1.159
2002 Average	1.129	1.119	1.172	1.141	1.124	1.118	1.218	1.220	1.064
2003 Average	1.314	1.312	1.309	1.386	1.344	1.355	1.436	1.489	1.304
2004 Average	1.511	1.497	1.505	1.559	1.511	1.518	1.627	1.662	1.489
2005 Average	1.986	1.972	1.987	2.064	2.000	2.012	2.105	2.166	1.974
2006 Average	2.294	2.283	2.408	2.355	2.360	2.357	2.458	2.467	2.286
2007 Average 2008 Average	2.540 3.199	2.535 3.207	2.679 3.323	2.576 3.197	2.602 3.210	2.615 3.195	2.674 3.293	2.664 3.267	2.508 3.157
2009 January	2.506	2.537	2.774	2.356	2.346	2.576	2.543	2.389	2.427
February	2.404	2.426	2.693	2.226	2.209	2.429	2.447	2.288	2.268
March	2.237	2.283	2.545	2.166	2.127	2.362	2.334	2.166	2.202
April	2.250	2.246	2.437	2.192	2.143	2.314	2.338	2.187	2.177
May	2.175	2.151	2.370	2.142	2.169	2.225	2.300	2.187	2.190
June	2.295	2.201	2.376	2.371	2.385	2.413	2.428	2.381	2.211
July	2.268	2.077	2.324	2.312	2.285	2.354	2.291	2.322	2.137
August	2.350	2.243	2.378	2.432	2.454	2.490	2.523	2.454	2.257
September	2.333	2.272	2.403	2.386	2.357	2.349	2.455	2.437	2.196
October	2.391	2.373	2.484	2.470	2.537	2.516	2.574	2.541	2.315
November	2.461	2.484	2.604	2.619	2.685	2.645	2.747	2.710	2.520
December	2.486	2.523	2.640	2.634	2.718	2.665	2.733	2.731	2.536
Average	2.382	2.377	2.593	2.358	2.376	2.487	2.504	2.404	2.330
2010 January	2.583	2.611	2.753	2.762	2.856	2.764	2.893	2.928	2.692
February	2.536	2.600	2.705	2.729	2.777	2.730	2.845	2.871	2.697
March	2.560	2.632	2.747	2.795	2.800	2.758	2.801	2.929	2.755
April	2.565	2.651	2.771	2.868	2.959	2.815	2.845	2.946	2.752
May	2.511	2.636	2.710	2.811	2.921	2.736	2.781	2.873	2.680
June	2.479	2.574	2.649	2.716	2.829	2.705	2.691	2.747	2.561
July	2.478	2.532	2.614	2.656	2.728	2.653	2.651	2.715	2.519
August	2.469	2.513	2.619	2.651	2.735	2.634	2.668	2.701	2.543
September	2.539	2.543	2.657	2.686	2.745	2.647	2.721	2.754	2.583
October	2.677	2.642	2.784	2.860	2.942	2.822	2.848	2.912	2.759
November	2.774	2.772	2.924	2.969	3.044	2.946	2.969	3.077	2.892
December	2.910	2.904	3.032	3.126	3.197	3.106	3.147	3.278	3.061
Average	2.639	2.680	2.795	2.850	2.927	2.835	2.894	2.973	2.780
2011 January	3.071	3.102	3.186	3.313	3.368	3.268	3.281	3.458	3.237
February	3.188	3.269	3.330	3.493	3.536	3.200	3.428	3.624	3.369
March	NA	NA	NA	NA	NA	NA	NA	NA	NA

(Dollars^a per Gallon, Excluding Taxes)

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

NA=Not available.

Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

Petroleum Prices," at end of section.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978. Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.

• 2010 and 2011: EIA, Petroleum Marketing Monthly, June 2011, Table 15.

Due to recent budget cuts, EIA is adjusting its data programs. Beginning with the June 2011 Monthly Energy Review, No. 2 distillate fuel oil prices to residences (Tables 9.8a–9.8c) will not be available for March 2011 forward.

		District									
	Delaware	of Columbia	Maryland	Virginia	West Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
1978 Average	0.478	0.507	0.492	0.491	0.462	0.474	0.479	0.485	0.465	0.447	0.478
1980 Average	0.954	1.026	0.979	0.985	0.922	0.919	0.978	0.996	0.958	0.915	0.999
1985 Average		1.143	1.088	1.063	0.980	0.997	1.021	0.991	0.975	0.983	1.019
1990 Average	. 1.058	1.078	1.119	1.106	0.991	0.981	1.009	0.993	0.961	0.942	1.014
1995 Average		1.010	0.936	0.844	0.815	0.808	0.860	0.816	0.785	0.812	0.801
1996 Average	. 0.984	1.178	1.063	0.952	0.960	0.921	0.977	0.912	0.893	0.899	0.909
1997 Average	. 0.984	1.174	1.057	0.948	0.962	0.913	0.942	0.865	0.870	0.933	0.899
1998 Average	. 0.858	1.022	0.902	0.856	0.818	0.767	0.804	0.748	0.735	0.801	0.738
1999 Average	. 0.884	1.011	0.907	0.870	0.789	0.820	0.883	0.793	0.716	0.847	0.774
2000 Average	. 1.270	w	1.351	1.269	1.251	1.220	NA	1.207	1.095	1.171	1.156
2001 Average	. 1.234	1.431	1.342	1.202	1.139	1.160	NA	1.133	1.121	1.180	1.122
2002 Average	. 1.164	w	1.201	1.057	1.054	1.058	1.109	1.025	0.975	1.073	1.051
2003 Average	. 1.433	w	1.455	1.311	1.304	1.284	1.321	1.202	1.198	1.269	1.218
2004 Average	. 1.570	w	1.632	1.462	1.493	1.475	1.539	1.537	1.405	1.465	1.433
2005 Average	. 2.075	w	2.127	2.044	2.043	2.009	2.053	2.017	2.021	1.993	1.987
2006 Average	. 2.381	w	2.398	2.268	2.261	2.244	2.329	2.317	2.312	2.297	2.268
2007 Average	. 2.584	w	2.668	2.407	2.478	2.494	2.588	2.557	2.528	2.571	2.587
2008 Average	. 3.187	w	3.273	3.124	3.221	3.147	3.067	3.105	3.152	3.088	3.065
2009 January		W	2.470	2.225	2.329	2.041	1.991	2.062	2.069	2.004	1.974
February	. 2.310	W	2.407	2.145	2.188	1.888	1.866	1.912	1.869	1.854	1.813
March	. 2.253	W	2.275	1.999	2.042	1.826	1.806	1.822	1.836	1.781	1.735
April	. 2.267	W	2.263	NA	2.035	1.917	1.810	1.922	1.983	1.870	1.890
May	. 2.253	W	2.224	1.824	2.008	1.941	1.807	1.972	NA	1.975	1.872
June	. 2.289	W	2.320	2.037	2.119	2.180	2.095	2.176	2.060	2.200	2.156
July	. 2.253	W	2.307	2.055	2.122	2.103	1.964	2.181	NA	2.166	2.092
August		W	2.397	2.140	2.217	2.279	2.153	2.321	2.147	2.284	2.297
September		W	2.396	2.118	2.253	2.205	2.179	2.318	NA	2.262	2.232
October		W	2.561	2.322	2.397	2.364	2.336	2.391	2.386	2.331	2.301
November		W	2.707	2.408	2.504	2.479	2.485	2.520	2.483	2.421	2.388
December	. 2.724	W	2.763	2.495	2.496	2.493	2.447	2.507	2.427	2.395	2.394
Average	. 2.421	w	2.473	2.193	2.265	2.130	2.096	2.189	2.155	2.105	2.124
2010 January		W	2.861	2.594	2.681	2.572	2.526	2.565	2.526	2.466	2.505
February		W	2.833	2.561	2.714	2.533	2.501	2.510	2.516	2.421	W
March		W	2.894	2.587	2.712	2.585	2.640	2.614	2.660	2.537	2.580
April	. NA	W	2.858	NA	2.676	2.566	2.731	2.679	2.777	2.640	2.668
May		W	2.808	2.435	2.583	2.574	2.669	NA	2.783	2.567	2.581
June		W	2.705	2.356	2.501	2.436	2.505	2.482	NA	2.478	2.557
July	. 2.655	W	2.636	2.345	2.499	2.436	2.481	2.510	2.582	2.508	2.466
August		W	2.669	2.351	2.547	2.511	2.508	2.550	W	2.514	2.559
September		W	2.692	2.397	2.577	2.554	2.596	2.607	2.732	2.562	2.596
October		W	2.822	2.567	2.720	2.695	2.734	2.701	NA	2.702	2.719
November		W	2.985	2.754	2.834	2.802	2.830	2.864	2.915	2.788	2.866
December		W	3.195	2.920	3.024	2.923	2.933	2.979	3.030	2.894	2.965
Average	. 2.951	w	2.925	2.621	2.724	2.653	2.657	2.670	2.749	2.610	2.470
2011 January		W	3.377	3.093	3.204	3.039	3.041	3.109	3.098	3.008	3.031
February		W	3.508	^R 3.222	3.365	^R 3.189	3.196	3.246	3.286	3.169	^R 3.184
March	. NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 9.8b No. 2 Distillate Prices to Residences: Selected South Atlantic and Midwestern States (Dollars^a per Gallon, Excluding Taxes)

 $^{\rm a}$ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

Petroleum Prices," at end of section. 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 15. • 2010 and 2011: EIA, Petroleum Marketing Monthly, June 2011, Table 15.

Due to recent budget cuts, EIA is adjusting its data programs. Beginning with the June 2011 Monthly Energy Review, No. 2 distillate fuel oil prices to residences (Tables 9.8a–9.8c) will not be available for March 2011 forward.

Table 9.8c No. 2 Distillate Prices to Residences: Selected Western States

	Idaho	Washington	Oregon	Alaska	U.S. Average
		-	-		
978 Average	0.436	0.486	0.458	0.532	0.490
980 Average	0.916	1.008	0.973	0.978	0.974
985 Average	0.972	1.011	0.971	1.083	1.053
990 Average	0.974	1.029	0.970	1.101	1.063
995 Average	0.839	0.962	0.894	0.834	0.867
996 Average	0.933	1.080	0.989	0.909	0.989
997 Average	0.953	1.139	1.031	0.973	0.984
998 Average	0.784	0.978	0.861	0.852	0.852
	0.762	1.065	0.938	0.966	0.876
999 Average	1.170	1.445	1.368	1.337	1.311
000 Average					
001 Average	1.038	1.336	1.211	1.377	1.250
002 Average	0.919	1.204	1.060	1.087	1.129
003 Average	1.188	1.487	1.303	1.243	1.355
004 Average	1.495	1.749	1.594	1.524	1.548
005 Average	2.123	2.385	2.146	2.061	2.052
006 Average	2.391	2.681	2.411	2.395	2.365
007 Average	2.598	2.909	2.500	2.518	2.592
008 Average	3.078	3.401	3.060	3.485	3.219
009 January	1.879	2.388	1.939	2.160	2.426
February	1.762	2.253	1.819	NA	2.309
March	1.674	2.124	1.727	1.946	2.210
April	1.863	2.414	1.986	2.140	2.211
May	1.878	2.473	2.050	2.256	2.167
June	2.148	2.544	2.278	2.506	2.307
July	2.123	2.335	2.149	2.362	2.219
	2.123	2.335	2.326	2.554	2.219
August					
September	2.273	2.658	2.357	NA	2.334
October	2.333	2.737	2.469	NA	2.458
November	2.459	2.871	2.551	NA	2.608
December	2.354	2.830	2.475	NA	2.628
Average	2.048	2.491	2.132	2.503	2.386
010 January	2.392	2.918	2.583	NA	2.763
February	2.412	2.817	2.536	2.790	2.658
March	2.569	2.924	2.664	2.884	2.757
April	2.747	3.105	2.817	2.965	2.787
May	2.675	3.053	2.685	2.958	2.723
June	NA	2.892	2.653	2.891	2.623
July	2.540	NA	NA	2.878	2.584
August	2.598	2.757	2.625	2.901	2.597
September	2.676	NA	2.760	2.944	2.641
October	2.853	3.174	2.871	3.041	2.795
November	2.053	3.174	2.935	3.070	2.795
December	2.980	3.242	2.991	3.134	3.089
Average	2.716	3.039	2.776	2.951	2.798
011 January	3.005	3.350	3.079	3.210	3.251
February	3.173	3.537	3.295	3.366	3.409
March	NA	NA	NA	NA	NA

and U.S. Average (Dollars^a per Gallon, Excluding Taxes)

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

NA=Not available.

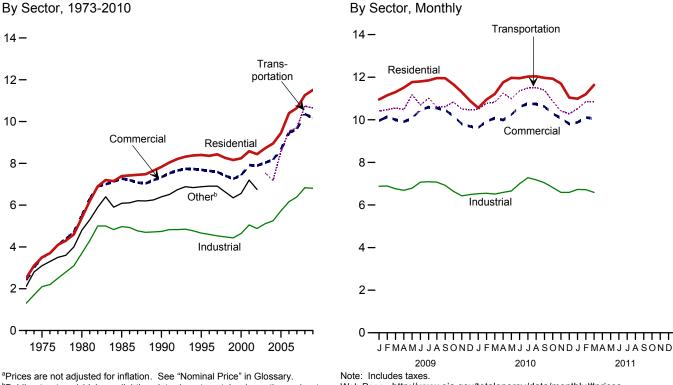
Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

Petroleum Prices," at end of section. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

available data beginning in 1978. Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15. • 2010 and 2011: EIA, Petroleum Marketing Monthly, June 2011, Table 15.

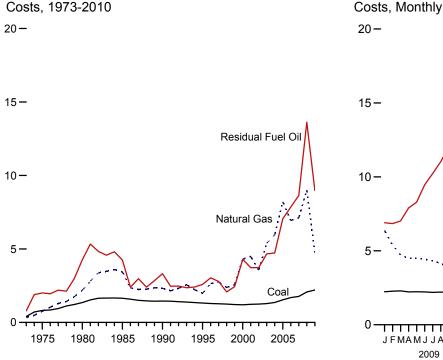
Due to recent budget cuts, EIA is adjusting its data programs. Beginning with the June 2011 Monthly Energy Review, No. 2 distillate fuel oil prices to residences (Tables 9.8a–9.8c) will not be available for March 2011 forward.

Figure 9.2 Average Retail Prices of Electricity (Cents^a per Kilowatthour)



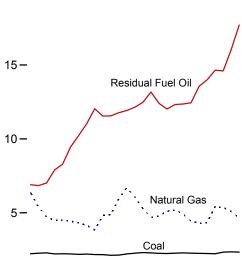
^aPrices are not adjusted for inflation. See "Nominal Price" in Glossary. No ^bPublic street and highway lighting, interdepartmental sales, other sales to public authorities, agricultural and irrigation, and transportation including railroads and railways.

Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollars^a per Million Btu, Including Taxes)



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

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



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2009 2010 2011 Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.10.

Table 9.9 Average Retail Prices of Electricity

1973 Average 1975 Average 1980 Average 1980 Average 1980 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 1998 Average 1999 Average 1998 Average	2.5 3.5 5.4 7.39 7.83 8.40 8.36 8.43 8.26 8.16 8.16	2.4 3.5 5.5 7.27 7.34 7.69 7.64 7.59 7.41	1.3 2.1 3.7 4.97 4.74 4.66 4.60 4.53	NA NA NA NA NA	2.1 3.1 4.8 6.09 6.40 6.88	2.0 2.9 4.7 6.44 6.57
975 Average	3.5 5.4 7.39 7.83 8.40 8.36 8.43 8.26 8.16	3.5 5.5 7.27 7.34 7.69 7.64 7.59	2.1 3.7 4.97 4.74 4.66 4.60	NA NA NA NA NA	3.1 4.8 6.09 6.40	2.9 4.7 6.44 6.57
980 Averaĝe 985 Average 990 Average 995 Average 997 Average 997 Average 998 Average	5.4 7.39 7.83 8.40 8.36 8.43 8.26 8.16	5.5 7.27 7.34 7.69 7.64 7.59	3.7 4.97 4.74 4.66 4.60	NA NA NA NA	4.8 6.09 6.40	4.7 6.44 6.57
985 Average 990 Average 995 Average 996 Average 997 Average 998 Average	7.39 7.83 8.40 8.36 8.43 8.26 8.16	7.27 7.34 7.69 7.64 7.59	4.97 4.74 4.66 4.60	NA NA NA	6.09 6.40	6.44 6.57
990 Average 1995 Average 996 Average 997 Average 997 Average 998 Average	7.83 8.40 8.36 8.43 8.26 8.16	7.34 7.69 7.64 7.59	4.74 4.66 4.60	NA NA	6.40	6.57
995 Average 996 Average 997 Average 998 Average	8.40 8.36 8.43 8.26 8.16	7.69 7.64 7.59	4.66 4.60	NA		
996 Averaĝe 997 Average 998 Average	8.36 8.43 8.26 8.16	7.64 7.59	4.60			6.89
997 Average 998 Average	8.43 8.26 8.16	7.59		NA	6.91	6.86
998 Average	8.26 8.16			NA	6.91	6.85
	8.16					
333 Average		7.26	4.48 4.43	NA NA	6.63 6.35	6.74 6.64
00 4						
000 Average	8.24	7.43	4.64	NA	6.56	6.81
001 Average	8.58	7.92	5.05	NA	7.20	7.29
002 Average	8.44	7.89	4.88	NA	6.75	7.20
003 Average	8.72	8.03	5.11	7.54		7.44
004 Average	8.95	8.17	5.25	7.18		7.61
005 Average	9.45	8.67	5.73	8.57		8.14
006 Average	10.40	9.46	6.16	9.54		8.90
007 Average	10.65	9.65	6.39	9.70		9.13
008 Average	11.26	10.36	6.83	10.74		9.74
009 January	10.95	9.96	6.88	10.42		9.66
February	11.15	10.14	6.89	10.47		9.74
March	11.30	10.00	6.76	10.55		9.65
April	11.51	9.91	6.69	10.48		9.57
May	11.77	10.07	6.79	11.18		9.76
June	11.80	10.47	7.07	10.69		10.13
July	11.85	10.59	7.09	11.02		10.30
August	11.96	10.55	7.07	10.61		10.28
September	11.95	10.46	6.92	10.61		10.10
October	11.66	10.17	6.64	10.84		9.70
November	11.30	9.81	6.43	10.50		9.37
December	10.89	9.69	6.49	10.47		9.38
Average	11.51	10.17	6.81	10.65		9.82
010 January	10.56	9.63	6.53	10.49		9.34
February	10.95	9.93	6.55	10.78		9.52
March	11.21	10.08	6.51	10.82		9.57
April	11.76	9.99	6.59	11.25		9.58
May	11.97	10.24	6.66	10.99		9.79
June	11.95	10.61	7.00	11.36		10.23
July	12.03	10.76	7.28	11.49		10.50
August	12.00	10.74	7.18	11.51		10.45
September	11.97	10.62	7.04	11.39		10.43
October	11.93	10.29	6.82	10.86		9.86
November	11.70	10.29	6.59	10.88		9.62
December	11.04	9.81	6.59	10.42		9.51
Average	11.58	10.26	6.79	10.96		9.88
11 January	10.99	9.88	6.73	10.52		9.62
February	11.20	10.11	6.72	10.85		9.70
March	11.64	10.05	6.59	10.85		9.66
3-Month Average	11.24	10.01	6.68	10.73		9.66
010 3-Month Average 009 3-Month Average	10.88 11.12	9.87 10.03	6.53 6.84	10.69 10.48		9.47 9.68

(Cents^a per Kilowatthour, Including Taxes)

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

 ^a Prices are not adjusted for inflation. See "Nominal Price" in Giossary.
 ^b Commercial sector. For 1973-2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.
 ^c Industrial sector. For 1973-2002, prices exclude agriculture and irrigation.
 ^d Transportation sector, including railroads and railways.
 ^e Public street and highway lighting, interdepartmental sales, other sales to public authorities and irrigation. and transportation including railroads public authorities, agriculture and irrigation, and transportation including railroads and railways.

and railways. NA=Not available. --=Not applicable. Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes energy or demand charges customer service charges 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 available data beginning in 1973.

available data beginning in 1973. Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • October 1977-February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March 1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement."
1983: U.S. Energy Information Administration (EIA), Form EIA-866, "Electric Utility Company Monthly Statement." • 1984-1992: EIA, Form EIA-866, "Annual Electric Utility Report." • 1993 forward: EIA, *Electric Power Monthly*, June 2011, Table 5.3.

Table 9.10 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars^a per Million Btu, Including Taxes)

			Petrole	um			
	Coal	Residual Fuel Oil ^b	Distillate Fuel Oilc	Petroleum Coke	Totald	Natural Gas ^e	All Fossil Fuels ^f
1973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
1975 Average	.81	2.01	NA	NA	2.02	.75	1.04
1980 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
1985 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
1990 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
1995 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
1996 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52
1997 Average	1.27	2.79	4.49	.91	2.73	2.76	1.52
1998 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44
1999 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
2002 Average ^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
2004 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
2005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25
2006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02
2007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23
2008 Average	2.07	13.62	21.46	2.11	10.87	9.01	4.12
2009 January	2.23	6.90	11.67	2.06	6.76	6.38	3.42
February	2.27	6.84	11.36	1.82	6.28	5.38	3.14
March	2.29	7.02	10.75	1.63	5.83	4.73	2.98
April	2.22	7.90	11.54	1.20	5.82	4.48	2.85
May	2.23	8.29	12.00	1.68	6.30	4.48	2.93
June	2.22	9.46	13.66	1.58	7.43	4.44	3.01
July	2.19	10.23	14.00	1.63	7.59	4.32	3.02
August	2.21	11.02	14.94	1.81	7.83	4.15	2.99
September	2.18	12.04	15.22	1.36	6.81	3.84	2.80
October	2.17	11.54	15.79	1.55	7.50	4.82	3.04
November	2.13	11.56	15.50	1.30	8.01	4.87	2.96
December	2.14	11.77	15.88	1.61	8.37	5.96	3.40
Average	2.21	8.98	13.22	1.61	7.02	4.74	3.04
010 1	0.00	44.00	45 74	4.00	0.07	0.70	0.70
2010 January	2.22 2.27	11.92	15.71 15.60	1.69	9.87 9.61	6.70 6.06	3.73 3.43
February	2.27	12.14 12.47	16.52	1.79 2.05	9.61	5.28	3.43 3.14
March							
April	2.29	13.17 12.41	17.05	2.13	7.76	4.70 4.77	3.00 3.12
May	2.26		16.54	2.17	9.57	4.77 5.11	
	2.25	12.02	16.13	2.09	9.36		3.35
July	2.27	12.32	15.89	2.36	9.68	5.18	3.51
August	2.29	12.36	16.22	2.59	9.32	4.92 4.44	3.40
September	2.27	12.44	16.53	2.61	9.62		3.11
October	2.26	13.56	17.09	2.36	9.14	4.29	2.94
November	2.25	13.99	17.50	2.14	11.11	4.34	2.94
December	2.23	14.64	18.51	2.50	11.30	5.41	3.31
Average	2.26	12.60	16.59	2.23	9.62	5.08	3.25
2011 January	2.34	14.60	19.48	2.85	11.74	5.37	3.37
February	2.36	16.04	20.92	2.61	12.18	5.09	3.27
March	2.34	17.70	23.32	2.88	13.96	4.64	3.13
3-Month Average	2.34	16.04	21.07	2.79	12.59	5.04	3.25
2010 3-Month Average	2.27	12.12	15.85	1.84	9.52	6.05	3.43
2009 3-Month Average	2.26	6.91	11.32	1.84	6.38	5.49	3.18

 ^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 ^c For 1973-2001, electric utility data are for light oil (fuel oil nos. 1 and 2).

 $^{\rm C}$ For 19/3-2001, electric utility data are for light on rule on rols. Lang 2). $^{\rm d}$ 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

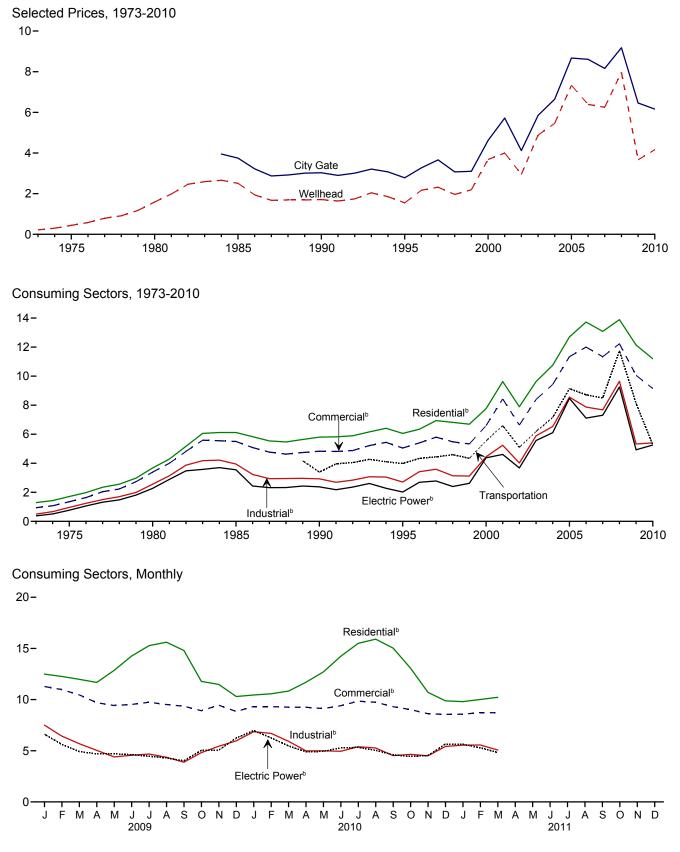
 ^e Natural gas, plus a small amount of supplemental gaseous fuels. For 1973-2000, data also include a small amount of blast furnace gas and other gases derived from fossil fuels. f Weighted average of costs shown under "Coal," "Petroleum," and "Natural

Gas.'

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



^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 9.11.

Table 9.11 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

						C	onsuming	Sectorsb			
		City	Res	idential	Com	mercial ^c	Ind	ustriald	Transportation	Electr	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		NA	1.29	NA	0.94	NA	0.50	NA	NA	0.38	92.1
1975 Average	.44	NA	1.71	NA	1.35	NA	.96	NA	NA	.77	96.1
1980 Average	1.59	NA	3.68	NA	3.39 5.50	NA NA	2.56	NA	NA NA	2.27	96.9
1985 Average 1990 Average	2.51 1.71	3.75 3.03	6.12 5.80	NA 99.2	5.50 4.83	86.6	3.95 2.93	68.8 35.2	3.39	3.55 2.38	94.0 76.8
1995 Average	1.55	2.78	6.06	99.0	5.05	76.7	2.71	24.5	3.98	2.02	71.4
1996 Average	2.17	3.27	6.34	99.0	5.40	77.6	3.42	19.4	4.34	2.69	68.4
1997 Average	2.32	3.66	6.94	98.8	5.80	70.8	3.59	18.1	4.44	2.78	68.0
1998 Average	1.96	3.07	6.82	97.7	5.48	67.0	3.14	16.1	4.59	2.40	63.7
1999 Average	2.19	3.10	6.69	95.2	5.33	66.1	3.12	18.8	4.34	2.62	58.3
2000 Average	3.68 4.00	4.62 5.72	7.76 9.63	92.6 92.4	6.59 8.43	63.9 66.0	4.45 5.24	19.8 20.8	5.54 6.60	4.38 4.61	50.5 40.2
2001 Average	2.95	4.12	9.63 7.89	92.4 97.9	6.63	77.4	5.24 4.02	20.8	5.10	e3.68	83.9
2003 Average	4.88	5.85	9.63	97.5	8.40	78.2	5.89	22.1	6.19	5.57	91.2
2004 Average	5.46	6.65	10.75	97.7	9.43	78.0	6.53	23.7	7.16	6.11	89.8
2005 Average	7.33	8.67	12.70	98.2	11.34	82.1	8.56	24.1	9.14	8.47	91.3
2006 Average	6.39	8.61	13.73	98.1	12.00	80.8	7.87	23.4	8.72	7.11	93.4
2007 Average	6.25	8.16	13.08	98.0	11.34	80.4	7.68	22.2	8.50	7.31	92.2
2008 Average	7.97	9.18	13.89	97.5	12.23	79.9	9.65	20.5	11.75	9.26	101.1
2009 January	4.60	7.98	12.49	^R 97.6	11.28	82.4	7.50	20.1	NA	6.62	100.9
February	3.70 3.38	7.25	12.26	^R 97.7 ^R 97.4	10.98	81.1 80.7	6.43 5.69	19.9 19.4	NA NA	5.62 4.92	101.1
March	3.38	6.83 5.68	11.98 11.68	^R 97.2	10.46 9.70	80.7 77.7	5.69 5.04	19.4	NA	4.92	101.8 101.6
April May	3.18	5.47	12.86	^R 97.2	9.42	74.4	4.40	19.0	NA	4.70	101.5
June	3.38	5.53	14.26	R 96.8	9.53	73.3	4.56	18.7	NA	4.62	101.0
July	3.45	5.67	15.27	^R 96.9	9.74	70.5	4.68	18.6	NA	4.47	100.8
August	3.37	5.58	15.61	^R 96.9	9.52	68.5	4.37	18.3	NA	4.30	100.7
September	2.98	5.32	14.80	^R 96.6	9.35	69.3	3.88	18.0	NA	4.02	100.6
October	3.83	5.62	11.78	^R 96.8	8.92	73.3	4.82	17.8	NA	5.04	102.4
November	4.20	6.31	11.48	^R 97.2	9.45	75.8	5.44	17.8	NA	5.06	101.0
December Average	4.66 3.67	6.23 6.46	10.30 12.14	^R 97.6 97.4	8.84 10.06	80.1 77.8	5.97 5.33	18.9 18.8	NA 8.13	6.24 4.93	100.7 101.1
-											
2010 January	E 5.14	6.82	10.45	^R 96.5	9.32	76.0	6.86	17.6	NA	6.97	100.8
February		6.61 6.41	10.57	^R 96.6 ^R 96.3	9.31 9.26	76.6 73.8	6.70 5.92	17.2 17.0	NA NA	6.26 5.47	100.5 101.0
March April		5.85	10.83 11.70	^R 95.8	9.26 9.25	68.4	5.92 4.99	16.9	NA	5.47 4.89	101.0
May		5.81	12.71	^R 96.8	9.13	65.4	4.99	17.0	NA	4.94	100.9
June	^E 4.25	6.07	14.24	^R 96.6	9.40	63.9	4.95	16.8	NA	5.29	100.6
July	E 4.36	6.30	15.50	^R 96.4	9.85	62.2	5.39	17.6	NA	5.33	100.5
August	^E 4.22	6.21	15.91	^R 96.0	9.74	60.9	5.27	17.1	NA	5.05	100.3
September	E 3.76	5.71	15.03	^R 96.3	9.31	60.0	4.52	16.6	NA	4.60	100.6
October November	^E 3.69 ^E 3.34	5.74 5.49	13.07 10.71	^R 96.3 ^R 97.0	9.02 8.62	63.9 71.2	4.65 4.51	15.8 16.6	NA NA	4.44 4.54	101.3 100.9
December	E 3.96	5.49 5.74	9.88	^R 97.4	8.56	74.3	5.42	16.7	NA	4.54 5.66	100.9
Average		6.16	11.20	96.6	9.15	71.1	5.42 5.40	16.9	NA	5.26	101.2
2011 January	^E 4.08	5.70	9.80	^R 97.4	8.57	76.0	5.55	16.3	NA	5.63	101.4
February	E 4.23	5.66	10.01	^R 97.4	8.73	74.6	5.56	16.3	NA	5.29	102.0
March	E 3.90	5.65	10.22	97.1	8.71	72.6	5.07	16.1	NA	4.83	103.8
3-Month Average	^E 4.07	5.67	9.98	97.3	8.66	74.6	5.40	16.3	NA	5.26	102.3
2010 3-Month Average 2009 3-Month Average	^E 4.80 3.89	6.65 7.45	10.59 12.28	96.5 97.6	9.30 10.96	75.6 81.5	6.50 6.58	17.3 19.8	NA NA	6.28 5.71	100.8 101.3

^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 NALCS 22 category whereas

^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage. Includes taxes.

⁹ The percentage of the sector's consumption in Table 4.3 for which price data are available. For details on how the percentages are derived, see Table 9.11 Sources at end of section.

^h Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the cost of gas in the operation of fleet vehicles.

Process are oncentrated exercised to 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. 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.cia.gov/http://doc/moeth.//doc/moeth.//

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: EIA, *Petroleum Marketing Monthly*, June 2011, Table 1.

F.O.B. and Landed Cost of Imports

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."

October–December 1977: EIA, Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 1.

2010: EIA, *Petroleum Marketing Monthly*, June 2011, Table 1.

Refiner Acquisition Cost

1973: EIA estimates. The domestic price was derived by adding estimated transportation costs to the reported domestic first purchase price. The imported price was derived by adding an estimated ocean transport cost to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census.

1974–1976: DOI, BOM, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: January–September, FEA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report." October–December, EIA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 1.

2010: EIA, *Petroleum Marketing Monthly*, June 2011, 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: EIA, *Petroleum Marketing Monthly*, June 2011, Table 21.

Table 9.10 Sources

1973–September 1977: Federal Power Commission, Form FPC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

October 1977–December 1977: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1978 and 1979: U.S. Energy Information Administration (EIA), Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1980–1989: EIA, Electric Power Monthly, May issues.

1990–2000: EIA, *Electric Power Monthly*, March 2003, Table 26.

2001–2007: EIA, *Electric Power Monthly*, October 2008, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: EIA, *Electric Power Monthly*, May 2011, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.11 Sources

All Prices Except Vehicle Fuel and Electric Power

1973–2002: U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports.

2003 forward: EIA, *Natural Gas Monthly (NGM)*, May 2011, Table 3.

Vehicle Fuel Price

EIA, NGA, annual reports.

Electric Power Sector Price

1973–1998: EIA, NGA 2000, Table 96. 1999–2002: EIA, NGM, October 2004, Table 4. 2003–2007: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report." 2008 forward: Form EIA-923, "Power Plant Operations Report."

Percentage of Residential Sector

1989–2008: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

2009 and 2011: Estimated by EIA as the average of the three previous annual values.

Percentage of Commercial Sector

1987–2002: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to commercial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to commercial consumers.

2003 forward: EIA, NGM, May 2011, Table 3.

Percentage of Industrial Sector

1982–2002: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers. 2003 forward: EIA, NGM, May 2011, Table 3.

Percentage of Electric Power Sector

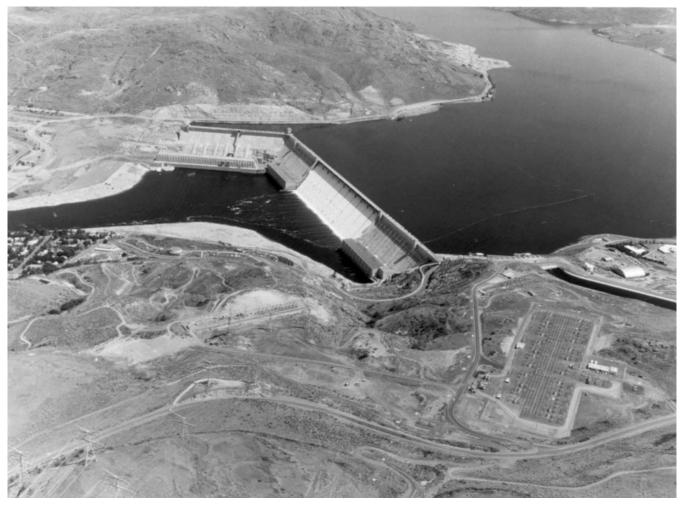
1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973-1988,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

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

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



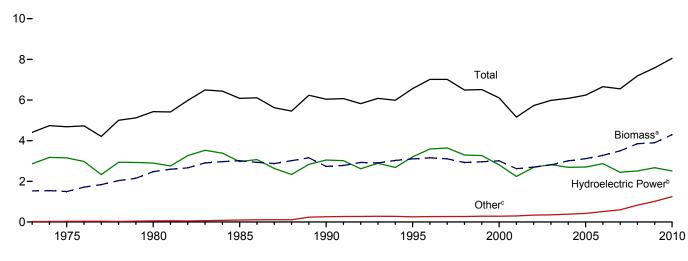
Renewable Energy

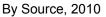


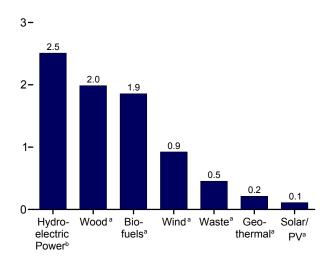
Grand Coulee Dam, Washington State. Source: U.S. Bureau of Reclamation.

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

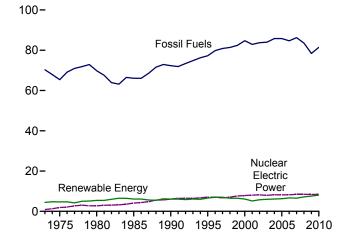
Total and Major Sources, 1973-2010



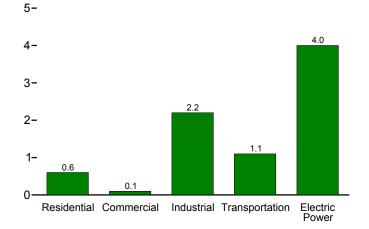




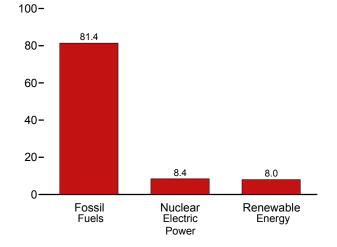
Compared With Other Resources, 1973-2010



By Sector, 2010



Compared With Other Resources, 2010



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

Sources: Tables 1.3 and 10.1-10.2c.

^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

° Geothermal, solar/PV, and wind.

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

		Production	а					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/ PV9	Wind ^h	Wood ⁱ	Wastej	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	33	2,437	577	143	3,157	7,014
1997 Total	186	3,108	7,018	3,640	167	70	34	2,371	551	184	3,105	7,016
1998 Total	202	2,929	6,494	3,297	168	69	31	2,184	542	201	2,927	6,493
1999 Total	211	2,965	6,517	3,268	171	68	46	2,214	540	209	2.963	6,516
2000 Total	233	3.006	6,104	2.811	164	65	57	2.262	511	236	3.008	6,106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5,163
2002 Total	308	2,705	5,734	2,689	171	63	105	1,995	402	303	2,701	5,729
2003 Total	402	2,805	5,982	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	2,136	403	577	3,116	6.242
2006 Total	720	3.226	6,608	2.869	181	68	264	2,109	397	771	3.276	6.659
2007 Total	978	3,489	6,537	2.446	186	76	341	2.098	413	991	3,502	6,551
2008 Total	1,387	3,867	7,205	2,511	192	89	546	2,044	436	1,372	3,852	7,190
2009 January	120	315	627	229	17	8	58	158	37	115	310	622
February	111	291	545	174	16	7	57	146	34	102	283	537
March	120	316	624	213	17	8	69	155	40	118	314	621
April	116	300	649	252	16	8	73	147	37	120	304	653
May	126	315	690	289	17	9	61	152	37	131	319	694
June	127	318	683	285	16	8	55	154	37	129	320	685
July	139	340	643	228	17	9	48	163	39	139	340	643
August	141	345	615	191	17	9	53	166	38	141	346	615
September	136	329	568	169	16	8	45	157	36	134	327	567
October	144	343	627	192	16	8	67	161	38	145	344	627
November	149	345	642	205	17	8	67	158	39	144	340	637
December	154	357	692	241	18	8	67	164	39	148	352	686
Total	1,583	3,915	7,603	2,669	200	98	721	1,881	452	1,567	3,899	7,587
2010 January	151	358	669	216	18	8	68	169	38	145	352	662
February	140	326	604	200	16	8	54	153	34	135	322	600
March	157	364	677	201	18	9	85	169	38	152	359	672
April	149	348	652	182	17	9	96	161	38	148	347	652
May	156	360	716	243	18	10	85	165	39	155	358	714
June	152	355	748	288	18	10	78	165	38	155	358	752
July	158	368	696	236	18	10	65	171	39	161	371	699
August	160	371	656	193	18	10	65	172	39	161	372	657
September	154	355	616	165	17	9	69	165	36	154	355	616
October	162	364	637	170	17	9	78	164	38	162	364	637
November	163	366	678	190	18	9	96	165	38	160	363	675
December	167	375	714	226	19	9	86	168	39	167	375	714
Total	1,870	4,310	8,064	2,509	212	109	924	1,986	454	1,855	4,295	8,049
2011 January	169	374	740	251	19	9	87	167	38	154	359	724
February	151	336	700	238	17	8	101	150	35	144	329	693
March	170	368	805	306	19	9	102	161	38	159	358	795
3-Month Total	490	1,079	2,245	795	55	26	289	478	111	457	1,046	2,212
2010 3-Month Total	448	1,049	1,951	618	53	25	206	490	110	432	1,032	1,934
2009 3-Month Total	351	922	1,795	616	50	23	184	459	112	336	907	1,780

^a Production equals consumption for all renewable energy sources except biofuels.

Total biomass inputs to the production of fuel ethanol and biodiesel.

^c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel. ^d Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and

^e Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

¹ Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and direct use energy. ⁹ 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, cost Date A6).

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). $$^{\rm k}$ Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and

co-products from the production of fuel ethanol and biodiesel. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1973. Sources: Tables 10.2a-10.4.

Beginning with the April 2011 Monthly Energy Review, the fossil-fuels heat rate is used as the thermal conversion factor for geothermal electricity net generation in order to treat geothermal electricity net generation similarly to electricity net generation from other non-combustible renewable energy sources—hydroelectric power, wind, photovoltaic, and solar thermal energy. The technology-

based geothermal heat rates are no longer used in Btu calculations in this report. See Table A6.

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

Total NA NA S25 NA NA <th< th=""><th></th><th></th><th>Reside</th><th>ntial Sector</th><th></th><th></th><th></th><th></th><th>Co</th><th>ommercial</th><th>Sector^a</th><th></th><th></th><th></th></th<>			Reside	ntial Sector					Co	ommercial	Sector ^a			
				Biomass		Hydro					Bio	omass		
1975 Total NA				Wood ^d	Total	electric			Wind ^g	Wood ^d	Wasteh		Total	Total
1975 Total NA NA 425 425 NA NA <td>1973 Total</td> <td>NA</td> <td>NA</td> <td>354</td> <td>354</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>7</td> <td>NA</td> <td>NA</td> <td>7</td> <td>7</td>	1973 Total	NA	NA	354	354	NA	NA	NA	NA	7	NA	NA	7	7
1985 Total NA	1975 Total	NA		425	425	NA	NA	NA	NA		NA	NA		8
1930 Total 6 56 580 641 1 3 - - 66 28 (s) 94 1935 Total 7 64 520 591 1 5 - - 76 63 (s) 129 131 1 1936 Total 8 64 430 502 1 6 - - 76 63 (s) 131 1 1936 Total 8 64 380 451 1 7 - - 67 53 (s) 111 1 1936 Total 9 59 370 438 1 8 - - 67 256 (s) 192 1 2001 Total 10 57 380 448 (s) 9 - - 69 26 (s) 95 95 1001 11 2001 101 1 2003 Total 18 430 504 1 14 - - 65 1 105 1 1001 1 2005														21
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3-Month Total 9 24 104 136 (s) 5 (s) (s) 17 8 1 26	March		-											11
2010 3-Month Total 9 24 104 136 (s) 5 (s) 17 8 1 27	3-Month Total	9	24	104	136	(s)	5	(s)	(s)	17	8	1	26	31
2009 3-Month Total 8 22 106 136 (s) 4 (s) (s) 18 9 1 27	2010 3-Month Total	9	24	104	136	(s)	5	(s)	(s)	17	8	1	27	31 31

 ^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 small amounts of distributed solar thermal and PV energy used in the commercial industria power sectors. commercial, industrial, and electric power sectors.

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. ⁹ 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).

ⁱ The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the commercial sector.

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

Notes:
 Data are estimates, except for commercial sector solar/PV, hydroelectric power, wind, and waste.
 Totals may not equal sum of components due to independent rounding. . Geographic coverage is the 50 States and the District of Columbia.

Web Page: 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)

				l	ndustrial S	ectora				Trans	sportation S	ector
						Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Wood ^e	Waste ^f	Fuel Ethanol ^g	Losses and Co- products ^h	Total	Total	Fuel Ethanol ⁱ	Bio- diesel	Total
1973 Total	35	NA	NA	1,165	NA	NA	NA	1,165	1,200	NA	NA	NA
1975 Total	32	NA	NA	1,063	NA	NA	NA	1,063	1,096	NA	NA	NA
1980 Total	33	NA	NA	1,600	NA	NA	NA	1,600	1,633	NA	NA	NA
1985 Total	33	NA	NA	1,645	230	1	42	1,918	1,951	50	NA	50
1990 Total	31	2	-	1,442	192	1	49	1,684	1,717	60	NA	60
1995 Total	55	3	-	1,652	195	2 1	86	1,934	1,992	112	NA	112
1996 Total 1997 Total	61 58	3	_	1,683 1.731	224 184	1	61 80	1,969 1.996	2,033 2.057	81 102	NA NA	81 102
1998 Total	55	3	-	1,603	180	1	86	1,872	1,929	113	NA	113
1999 Total	49	4	_	1.620	171	1	90	1.882	1,929	118	NA	118
2000 Total	42	4	_	1,636	145	i	99	1,881	1,928	135	NA	135
2001 Total	33	5	-	1,443	129	3	108	1,681	1,719	141	1	142
2002 Total	39	5	-	1,396	146	3	130	1,676	1,720	168	2	170
2003 Total	43	3	-	1,363	142	4	169	1,679	1,726	228	2	230
2004 Total	33	4	-	1,476	132	6	203	1,817	1,853	286	3	290
2005 Total	32	4	-	1,452	148	7	230	1,837	1,873	327	12	339
2006 Total	29	4	-	1,472	130	10	285	1,897	1,930	442	33	475
2007 Total 2008 Total	16 17	5 5	_	1,413 1,344	144 144	10 12	377 532	1,944 2,031	1,964 2,053	557 786	46 40	602 826
2000 10181	17	5	_	1,544	144	12	552	2,031	2,055	700	40	020
2009 January	2	(s)	_	98	14	1	46	159	161	67	(s)	67
February	1	(s)	-	93	12	1	43	149	151	58	(s)	58
March	2	(s)	-	98	14	1	48	160	162	67	3	70
April	2	(s)	-	93	12	1	46	153	155	70	3	73
May	2	(s)	-	96	12	1	50	160	162	77	2	79
June	2	(s)	-	97	12	1	50	160	162	75	3	78
July	1	(s) (s)	_	104 107	12 12	1	54 55	172 175	173 177	80 81	3 4	83 85
August September	1	(S) (S)	_	107	12	1	53	167	168	75	6	80
October	1	(S)	_	101	14	1	56	175	177	82	6	88
November	1	(s)	_	101	14	1	57	174	175	81	4	85
December	2	(s)	_	104	14	1	60	179	181	82	5	87
Total	18	4	-	1,198	154	13	617	1,982	2,005	894	40	934
2010 January	2	(s)	(s)	110	14	1	59	185	187	83	1	84
February	2	(s)	(s)	100	13	1	55	168	170	76	4	79
March	2	(s)	(s)	111	14	1	62	188	190	87	2	89
April	2	(s)	(s)	106	14	1	59	180	182	85	3	88
May	2	(s)	(s)	109	14	1	62	186	188	89	2	91
June	1	(s)	(s)	109	14	1	60	184	186	91	2	93
July	1	(s)	(s)	113	14	1	62	191	192	93	3	97
August	1	(s)	(s)	113	14	1	63	192	193	93	2	96
September October	1	(s) (s)	(s) (s)	109 108	13 14	1	61 64	185 188	186 189	89 94	3 2	92 96
November	1	(S) (S)	(S) (S)	108	14	1	65	189	109	94	2	96 94
December	1	(S) (S)	(S)	109	14	1	67	192	191	97	2	94 99
Total	16	4	(s)	1,307	168	16	738	2,229	2,249	1,070	28	1,098
2011 January	1	(s)	(s)	110	14	1	66	191	193	83	3	86
February	2	(S) (S)	(S) (S)	98	14	1	59	171	193	81	3	84
March	2	(S) (S)	(s) (s)	105	13	1	65	185	173	87	5	92
3-Month Total	5	1	(s)	312	41	4	190	548	554	252	11	262
2010 3-Month Total 2009 3-Month Total	5 5	1 1	(s)	321 289	41 40	4 3	176 137	542 469	548 474	245 191	6 4	252 195

^a Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^b Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^c Geothermal heat pump and direct use energy.
 ^d Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 megawatt or greater.
 ^e Wood and wood-derived fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^g The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

consumed by the industrial sector.

consumed by the industrial sector. ^h 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. ⁱ The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector. 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, and solar/PV. • 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.

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro-	0				Biomass		
	electric Power ^a	Geo- thermal ^b	Solar/PV ^c	Windd	Wood ^e	Wastef	Total	Total
973 Total	2,827	20	NA	NA	1	2	3	2,851
975 Total	3,122	34	NA	NA	(s)	2	2	3,158
980 Total	2,867	53	NA	NA	3	2	4	2,925
	2,007	97			8	27	14	2,925
985 Total			<u>(s)</u>	<u>(s)</u>				
990 Total ^g	3,014	161	4	29	129	188	317	3,524
995 Total	3,149	138	5	33	125	296	422	3,747
996 Total	3,528	148	5	33	138	300	438	4,153
997 Total	3,581	150	5	34	137	309	446	4,216
998 Total	3,241	151	5	31	137	308	444	3,872
999 Total	3,218	152	5	46	138	315	453	3,874
000 Total	2,768	144	5	57	134	318	453	3.427
001 Total	2,209	142	6	70	126	211	337	2,763
002 Total	2,650	147	6	105	150	230	380	3,288
003 Total	2,030	148	5	115	167	230	397	3,445
	2,781	148	5	142	167	230	388	3,445
004 Total								
2005 Total	2,670	147	6	178	185	221	406	3,406
006 Total	2,839	145	5	264	182	231	412	3,665
007 Total	2,430	145	6	341	186	237	423	3,345
008 Total	2,494	146	9	546	177	258	435	3,630
009 January	228	13	(s)	58	17	21	37	336
February	172	11	(s)	57	15	19	34	276
March	211	13	`1´	69	14	24	38	332
April	250	12	1	73	12	21	33	369
May	287	12	1	61	13	22	34	395
June	284	12	1	55	15	22	37	388
July	204	12	1	48	16	23	39	328
			1					
August	190	12		53	17	23	39	296
September	168	12	1	45	14	21	36	262
October	191	12	1	67	14	21	35	305
November	204	12	(s)	67	15	22	37	320
December	240	13	(s)	67	17	22	40	360
Total	2,650	146	9	721	180	261	441	3,967
010 January	214	13	(s)	68	17	20	37	333
February	198	12	(s)	54	16	18	34	298
March	199	13	`1´	85	16	22	37	335
April	180	12	1	96	14	21	36	325
May	241	13	2	85	14	21	35	376
June	286	13	2	78	16	21	37	416
	234	13	2	65	17	21	38	352
July								
August	192	13	2	65	18	21	39	310
September	164	12	1	69	15	20	35	283
October	169	12	1	78	14	21	35	294
November	188	13	1	96	16	21	37	335
December	224	14	(s)	86	17	22	39	363
Total	2,492	153	13	924	189	252	440	4,022
011 January	250	14	(s)	87	16	21	37	388
February	236	13	`1´	101	15	19	34	384
March	304	14	1	102	14	21	36	457
3-Month Total	790	41	2	289	45	61	106	1,229
010 3-Month Total	612	38	1	206	48	60	109	967
009 3-Month Total	611	37	1	184	46	63	110	943

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

^b Geothermal electricity net generation (converted to Btu using the fossil-fuels

heat rate—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).

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

⁹ Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

 NA=Not available. (s)=Less than 0.5 trillion Btu.
 NAeNot 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 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/#renewable for all available data beginning in 1973.

Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

Beginning with the April 2011 Monthly Energy Review, the fossil-fuels heat rate is used as the thermal conversion factor for geothermal electricity net generation in order to treat geothermal electricity net generation similarly to electricity net generation from other non-combustible renewable energy sources—hydroelectric power, wind, photovoltaic, and solar thermal energy. The technologybased geothermal heat rates are no longer used in Btu calculations in this report. See Table A6.

Feed- stock* and Co- products Dena- trant products TBu Mbbi Mbbi MMga TBu Mbbi			Losses					Traded						Consump- tion
Image: Second			and Co-		P	roduction ^d			Stocks ^{d,f}		Co	nsumption	d	Minus Denaturant
1985 Total 93 42 294 14,693 617 52 NA NA<		TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1985 Total 93 42 224 14,693 617 52 NA NA<	1981 Total	13	6	40	1.978	83	7	NA	NA	NA	1.978	83	7	7
1990 Total 111 49 356 17,802 748 63 NA														51
1995 Total 198 86 647 32,325 1,358 115 387 2,186 -207 32,919 1,383 117 1996 Total 186 80 613 30,674 1,288 109 85 2,925 860 23,839 1,256 107 1998 Total 200 86 669 33,463 1,405 119 666 3,406 481 33,308 1,388 118 1999 Total 223 399 773 38.3 116 3,400 624 39,367 1,653 144 2000 Total 223 108 641 42,028 1,656 150 316 4,024 618 3,350 1,433 2065 1,443 1,741 146 2001 Total 444 203 1,659 9,2061 3,940 3,234 5,563 -439 9,6613 4,065 3,44 206 1,055 5,481 465 2007 10,555 5,481 465 2008 14,214 226 3,917 13,0505 5,481 465 21,637														62
1996 Total 141 61 464 23,178 973 83 313 2,065 -121 23,612 992 64 1998 Total 202 86 669 33,453 1,465 119 66 3,406 481 33,038 1,388 118 1999 Total 213 99 773 38,627 1,622 138 116 3,400 -624 39,367 1,653 1443 2000 Total 233 99 773 38,627 1,622 138 116 4,208 81,745 1,443 122 2001 Total 307 130 1,615 65,956 2,140 182 3,986 6,200 1,902 49,360 2,073 176 2003 Total 400 163 153,956 5,968 3,904 3,234 5,956 3,496 6,441 465 244 465 200 13,050 54,814 465 200 13,055 5,777 163,945 5,868 584 584 596 3,696 3405 3,842 70 3,862														114
1997 Total 186 80 613 30,674 1,288 109 85 2,925 860 29,899 1,256 107 1999 Total 201 86 669 33,453 1,405 119 66 3,006 481 33,038 1,433 122 2000 Total 233 99 773 38,627 1,765 150 315 4,024 618 34,381 1,443 122 2001 Total 253 108 841 42,028 1,765 150 315 4,298 898 41,445 1,741 148 2002 Total 400 1627 81,058 3,044 238 2525 5,78 -222 67,286 2,828 240 2005 Total 552 230 1,621 81,064 233 3,234 5,563 -439 96,634 4,059 3,443 2005 Total 914 376 3,103 155,263 6,521 553 10,457 150,55 5,481 465 2006 Total 1914 376 3,103 155,		141	61	464			83	313	2.065	-121			84	82
1998 Total 202 86 669 33,453 1,405 119 666 3,406 481 33,038 1,388 118 2000 Total 233 99 773 38,627 1,622 138 116 3,400 -624 39,367 1,653 144 2000 Total 2307 130 1,019 50,956 2,140 182 306 6,200 1,902 49,360 2,073 176 2003 Total 400 169 1,335 66,772 2,240 238 49,360 2,073 176 2004 Total 484 203 1,621 81,058 3,404 289 3,542 6,002 24 84,576 3,552 301 2005 Total 688 285 2,226 116,294 4,884 414 17,408 4,634 130,055 5,481 465 2006 Total 914 376 5,516 553 10,457 10,535 1,775 153,945 6,868 584 2008 January 114 46 403 19,561 822	1997 Total	186	80	613	30,674	1,288	109	85	2,925	860	29,899	1,256	107	104
1999 Total 211 90 688 34,881 1,465 124 87 4,024 618 34,350 1,443 122 2000 Total 233 99 773 38,627 1,622 138 116 3,400 524 39,367 1,653 140 2001 Total 253 108 841 42,028 1,765 150 315 4,298 898 41,445 1,741 148 2004 Total 400 166 1,335 66,772 2,604 238 292 5,578 -222 67,286 2,826 240 2005 Total 652 230 1,859 92,961 3,904 331 3,234 5,663 -439 96,634 4,059 344 2005 Total 113.00 531 4,631 155,283 6,521 553 10,457 10,355 1,775 163,945 6,866 584 169 166 15,224 1,089 230,555 9,633 821 70 146,471 448 146 146 146 146 147,471 146		202	86	669	33,453	1,405	119	66	3,406	481	33,038	1,388	118	115
2000 Total 233 99 773 38,627 1,622 138 116 3,400 -624 39,367 1,653 140 2001 Total 307 130 1,019 50,956 2,140 182 306 6,200 1,902 49,360 2,073 176 2003 Total 464 203 1,621 81,058 3,404 229 5,778 -222 67,286 2,826 2,420 2005 Total 668 285 2,326 116,294 4,884 414 17,408 8,760 3,197 130,505 5,481 465 2006 Total 914 376 3,105 155,223 6,521 553 10,457 10,555 1,775 163,344 3,201 3,691 314 6,886 584 2009 January 114 46 403 19,561 822 70 368 14,514 228 19,661 826 70 March 117 48 452 20	1999 Total	211	90	698	34,881	1,465	124	87	4,024	618	34,350	1,443	122	119
2001 Total 253 108 841 42,028 1,765 150 315 4,298 898 41,445 1,741 148 2002 Total 400 169 1,335 66,772 2,804 238 222 5,778 -222 67,286 2,073 3,552 301 2005 Total 552 230 1,659 3,904 331 3,224 5,663 -439 96,634 4,059 344 2005 Total 552 230 1,859 92,961 3,904 331 3,224 5,663 -439 96,634 4,059 344 2005 Total 914 376 3,105 155,263 6,521 553 10,457 10,535 1,775 163,945 6,886 584 2007 Total 1,300 531 4,433 221,637 9,309 790 12,610 14,256 3,691 230,556 9,683 821 2009 January 114 46 400 18,255 767 75 705 14,11 577 19,623 824 70 388		233	99	773	38,627	1,622	138	116	3,400	-624	39,367	1,653	140	137
2003 Total 400 169 1,335 66,772 2,804 238 292 5,978 -222 67,286 2,285 3,04 2004 Total 552 230 1,689 92,961 3,904 331 3,234 5,563 -439 96,634 4,059 3,44 2005 Total 688 282 2,326 6,521 553 10,457 10,535 1,775 163,945 6,886 584 2009 January 114 46 403 19,561 822 70 388 14,514 288 19,661 826 70 March 117 48 452 20,121 845 72 79 166 11,320 16,991 714 61 March 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 74 May 123 50 459 21,125 887 75 10,117,13 4,1223	2001 Total													144
2004 Total 484 203 1,621 81,058 3,044 289 3,542 6,002 24 84,576 3,552 301 2005 Total 658 2,326 116,294 4,884 414 17,408 8,760 3,197 130,505 5,481 465 2007 Total 914 376 3,105 155,263 6,521 10,535 11,755 163,945 6,866 584 2008 Total 1,300 531 4,433 221,637 9,309 790 12,610 14,226 3,691 230,556 9,683 821 2009 January 116 46 403 19,561 822 70 388 14,514 288 19,661 826 70 February 106 43 409 18,255 767 765 560 16,1322 -1,089 20,629 866 74 March 117 48 450 22,1024 883 75 705 13,974 -1,49 22,629 925 78 June 123 50 455	2002 Total													171
2005 Total 552 230 1,859 92,961 3,004 331 3,234 5,563 -439 96,634 4,059 344 2006 Total 914 376 3,105 155,263 6,521 553 10,457 10,535 1,775 163,945 6,886 584 2009 January 114 46 403 19,561 822 70 388 14,514 228 19,661 826 70 April 117 48 452 20,121 845 72 79 16,814 1,577 19,623 824 70 March 117 48 452 20,121 845 72 79 16,411 577 19,623 824 70 March 117 48 452 20,121 845 72 79 16,411 577 19,623 824 70 June 123 50 455 21,122 883 75 705 14,173 -1,149 22,089 93 81 July 133 54	2003 Total													233
2006 Total 688 285 2,236 116,294 4,884 414 17,408 8,760 3,197 130,505 5,481 465 2008 Total 1,300 531 4,433 221,637 9,309 753 10,435 10,457 10,535 16,394 6,886 584 2009 January 114 46 403 19,561 822 70 388 14,514 288 19,661 826 70 March 117 48 452 20,121 845 72 79 16,411 577 19,623 824 70 March 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 70 June 123 50 455 21,125 887 75 705 13,974 -1199 22,029 925 78 July 133 54 503 22,879 961 82 960 14,223 23,588 991 84 August 135 55 494 </td <td></td> <td>293</td>														293
2007 Total 914 376 3,105 155,263 6,521 553 10,457 10,535 1,775 163,945 6,886 584 2009 January 114 46 403 19,561 822 70 388 14,514 228 18,961 826 70 April 117 48 452 20,121 845 72 79 16,411 577 163,991 714 61 March 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 74 March 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 74 May 133 54 503 22,867 961 82 960 14,223 249 23,598 991 84 September 129 53 479 22,218 933 79 310 15,283 612 21,916 920 78 October 137 555														335
2008 Total 1,300 531 4,433 221,637 9,309 790 12,610 14,226 3,691 230,556 9,683 821 2009 January 114 46 403 19,561 822 70 388 14,514 288 19,661 826 70 February 106 43 409 18,255 767 65 56 15,332 1,023 864 74 April 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 74 May 113 50 459 21,125 887 75 705 13,974 -1,99 22,029 925 78 Jule 133 55 494 22,189 933 79 310 15,283 612 21,916 920 78 October 137 55 515 23,467 986 84 269 14,933 -350 24,086 10,12 86 November 144 57 553 <t< td=""><td>2006 Total</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>453</td></t<>	2006 Total													453
2009 January 114 46 403 19,561 822 70 388 14,514 288 19,661 826 70 March 117 48 452 20,121 845 72 79 16,411 577 19,623 824 70 April 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 74 May 123 50 459 21,024 883 75 507 14,173 -1,149 22,680 953 81 July 133 54 503 22,887 961 82 960 14,223 249 23,588 991 84 August 135 55 494 23,166 972 82 983 14,671 448 23,671 994 84 September 129 53 479 22,180 983 85 24,046 10,101	2007 Total													569
February 106 43 409 18.255 767 65 56 15.834 1,320 16.991 714 61 March 117 48 452 20.121 845 72 79 16.411 577 19.823 824 70 April 113 46 427 19.374 814 69 166 15.322 -1.089 20.629 866 74 May 123 50 455 21.125 887 75 507 14.173 -1.149 22.680 953 81 July 133 54 503 22.887 961 82 960 14.223 249 23.598 991 84 September 129 53 479 22.218 933 79 310 15.283 612 21.916 920 78 October 137 516 5.688 26.0424 10.938 928 4,720 16.594 2.368<	2008 Total	1,300	531	4,433	221,637	9,309	790	12,610	14,226	3,691	230,556	9,683	821	800
March 117 48 452 20.121 845 72 79 16,411 577 19,623 824 70 April 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 74 June 123 50 455 21,124 883 75 705 13,974 -199 22,029 925 78 July 133 54 503 22,887 961 82 960 14,223 249 23,598 991 84 August 135 55 449 23,136 972 82 983 14,671 448 23,671 994 84 September 137 55 515 23,467 986 84 269 14,933 -500 24,086 1,012 86 November 146 59 569 25,134 1,056 90 34 17,800 1,089 24,311 1,013 86 Total 1,517 616 5,688 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>68</td></t<>														68
April 113 46 427 19,374 814 69 166 15,322 -1,089 20,629 866 74 May 123 50 459 21,024 883 75 507 14,173 -1,149 22,029 92,029 82,02,029 92,029,029 92,029 92,029 92,029 92,029 92,029 92,00,029 92,011 92,0112														59
May 123 50 459 21 024 883 75 507 14 173 -1 149 22 680 953 81 June 123 50 455 21,125 887 75 705 13,974 -199 22,029 925 78 August 133 54 503 22,887 961 62 960 14,223 249 948 44 23,671 994 84 September 129 53 479 22,218 933 79 310 15,283 612 21,916 920 78 October 137 55 515 23,467 986 84 269 14,933 -350 24,086 1,012 86 November 146 59 569 25,134 1,056 90 12 16,594 1,016 24,311 1,021 87 Total 1,517 616 5,688 260,424 10,938 928 4,720 16,594 2,088 262,776 11,037 936 57 94 35 <td></td> <td>68</td>														68
June 123 50 455 21,125 887 75 705 13,074 1-199 22,029 925 78 July 133 54 503 22,887 961 82 960 14,223 249 23,598 991 84 August 135 55 494 23,136 972 82 983 14,671 448 23,671 994 84 September 129 53 479 22,218 933 79 310 15,283 612 21,916 920 78 October 137 55 523 24,122 1,013 86 285 15,578 645 23,762 998 85 December 146 59 569 25,134 1,056 90 12 16,594 2,068 262,776 11,037 936 2010 January 147 59 533 25,366 1,065 90 34 17,800 ¹ 1,089 24,311 1,021 87 March 153 62														71
July 133 54 503 22,887 961 82 960 14,223 249 23,588 991 84 August 135 55 494 23,136 972 82 983 14,671 448 23,671 994 84 September 129 53 479 22,218 933 79 310 15,283 612 21,916 920 78 October 137 55 515 23,467 986 84 269 14,933 -350 24,086 1,012 86 November 141 57 568 260,424 10,938 928 4,720 16,594 2,368 262,776 11,037 936 2010 January 147 59 533 25,366 1,065 90 34 17,800 10,089 24,311 1,021 87 February 135 55 488 23,228 980 83 27 18,897 1097 22,503 1,071 91 April 145 58														79
Arýust 135 55 494 23,136 972 82 983 14,671 448 23,671 994 84 September 129 53 479 22,218 933 79 310 15,283 612 21,916 920 78 November 137 55 515 23,467 986 84 269 14,933 -350 24,086 1,012 86 November 1441 57 523 24,122 1,013 86 285 15,578 645 23,762 998 85 December 146 59 563 260,424 10,938 928 4,720 16,594 1,016 24,311 1,013 86 2010 January 147 59 533 25,366 1,065 90 34 17,800 ¹¹ ,089 24,311 1,021 87 February 135 62 527 26,270 1,103 94 27 18,897 1,097 22,258 935 79 March 152 61 <td></td> <td>76</td>														76
September 129 53 479 22,218 933 79 310 15,283 612 21,916 920 78 October 137 55 515 23,467 986 84 269 14,933 -350 24,086 1,012 86 November 141 57 559 25,134 1,056 90 12 16,594 1,016 24,086 1,013 86 December 146 59 569 25,134 1,056 90 12 16,594 2,368 262,776 11,037 936 2010 January 147 59 533 25,366 1,065 90 34 17,800 10,99 24,311 1,021 87 February 135 55 488 23,328 980 83 27 18,897 1,097 22,258 935 79 March 153 62 527 26,270 1,103 94 27 19,691 794 25,503 1,071 91 April 1,495 61														82
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December 146 59 569 25,134 1,056 90 12 16,594 1,016 24,130 1,013 86 2010 January 147 59 533 25,366 1,065 90 34 17,800 1,089 24,311 1,021 87 February 135 55 488 23,328 980 83 27 18,897 1,097 22,258 935 79 March 153 62 527 26,270 1,013 94 27 19,691 794 25,503 1,071 91 April 145 58 512 24,962 1,048 89 36 19,682 -9 25,007 1,050 89 May 152 61 534 26,861 1,116 95 18 17,784 -826 27,425 1,152 98 Jule 154 62 540 26,661 1,095 93 5 17,40														82
Total 1,517 616 5,688 260,424 10,938 928 4,720 16,594 2,368 262,776 11,037 936 2010 January 147 59 533 25,366 1,065 90 34 17,800 1,089 24,311 1,021 87 February 135 55 488 23,328 980 83 27 18,897 1,097 22,258 935 79 March 153 62 527 26,270 1,013 94 27 19,691 794 25,503 1,071 91 April 1445 58 512 24,962 1,048 89 36 19,682 9 25,007 1,050 89 May 152 61 534 26,244 1,102 93 39 19,721 39 26,244 1,102 93 June 149 60 521 25,631 1,116 95 18														83
February 135 55 488 23,328 980 83 27 18,897 1,097 22,258 935 79 March 153 62 527 26,270 1,013 94 27 19,691 794 25,503 1,071 91 April 145 58 512 24,962 1,048 89 36 19,682 -9 25,007 1,050 89 May 152 61 534 26,244 1,102 93 39 19,721 39 26,244 1,102 93 June 149 60 521 25,631 1,107 91 40 18,610 -1,111 26,782 1,125 98 August 154 62 540 26,663 1,116 95 18 17,784 -424 27,417 1,152 98 September 151 61 530 26,061 1,095 93 5 17,408 68 25,998 1,092 93 0ctober 151 64 563 27,745														910
February 135 55 488 23,328 980 83 27 18,897 1,097 22,258 935 79 March 153 62 527 26,270 1,013 94 27 19,691 794 25,503 1,071 91 April 145 58 512 24,962 1,048 89 36 19,682 -9 25,007 1,050 89 May 152 61 534 26,244 1,102 93 39 19,721 39 26,244 1,102 93 June 149 60 521 25,631 1,116 95 18 17,784 -826 27,425 1,152 98 August 154 62 540 26,663 1,116 95 18 17,784 -444 27,417 1,152 98 August 157 63 538 26,061 1,095 93 5 17,408 68 25,998 1,992 93 0ctober 159 64 563 27,745	2010 January	147	50	533	25 366	1 065	90	34	17 800	i1 080	2/ 311	1 021	87	84
March 153 62 527 26,270 1,103 94 27 19,691 794 25,503 1,071 91 April 145 58 512 24,962 1,048 89 36 19,682 -9 25,007 1,050 89 May 152 61 534 26,244 1,102 93 39 19,721 39 26,244 1,102 93 June 149 60 521 25,631 1,077 91 40 18,610 -1,111 26,782 1,125 95 July 154 62 540 26,581 1,116 95 18 17,784 -826 27,425 1,152 98 August 157 63 538 26,963 1,132 96 10 17,340 -444 27,417 1,152 98 September 151 61 530 26,061 1,095 93 5 17,408 68 25,998 1,092 93 October 161 65 5767														77
April 145 58 512 24,962 1,048 89 36 19,682 -9 25,007 1,050 89 May 152 61 534 26,244 1,102 93 39 19,721 39 26,244 1,102 93 June 149 60 521 25,631 1,077 91 40 18,610 -1,111 26,782 1,125 95 July 154 62 540 26,581 1,116 95 18 17,784 -826 27,425 1,152 98 August 157 63 538 26,963 1,132 96 10 17,340 -444 27,417 1,152 98 September 151 61 530 26,061 1,095 93 5 17,408 444 27,417 1,152 98 November 159 64 563 27,410 1,151 98 1 17,295 -113 27,524 1,156 98 December 165 67 592														88
May 152 61 534 26,244 1,102 93 39 19,721 39 26,244 1,102 93 June 149 60 521 25,631 1,077 91 40 18,610 -1,111 26,782 1,125 95 July 154 62 540 26,681 1,116 95 18 17,784 -826 27,425 1,152 98 August 157 63 538 26,963 1,095 93 5 17,408 68 25,998 1,092 93 October 159 64 563 27,457 1,151 98 1 17,295 -113 27,524 1,156 98 November 161 65 586 27,745 1,165 99 - 18,029 734 27,011 1,134 96 December 165 67 592 28,457 1,195 101 6 17,940 -89 28,552 1,199 102 Total 1,830 738 6,464 <td></td> <td>87</td>														87
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July 154 62 540 26,581 1,116 95 18 17,784 -826 27,425 1,152 98 August 157 63 538 26,963 1,132 96 10 17,340 -444 27,417 1,152 98 September 151 61 530 26,061 1,095 93 5 17,408 68 25,998 1,092 93 October 159 64 563 27,410 1,151 98 1 17,295 -113 27,524 1,156 98 November 161 65 586 27,745 1,165 99 - 18,029 734 27,011 1,134 96 December 165 67 592 28,457 1,195 101 6 17,940 *1,229 314,032 13,189 1,118 2011 January 165 66 581 28,524 1,198 102 -1,359 20,672 2,732 24,433 1,026 87 February 147<														93
August 157 63 538 26,963 1,132 96 10 17,340 -444 27,417 1,152 98 September 151 61 530 26,061 1,095 93 5 17,408 68 25,998 1,092 93 October 159 64 563 27,410 1,151 98 1 17,295 -113 27,524 1,156 98 November 161 65 586 27,745 1,165 99 - 18,029 734 27,011 1,134 96 December 165 67 592 28,457 1,195 101 6 17,940 -89 28,552 1,199 102 Total 1,830 738 6,464 315,018 13,231 1,122 243 17,940 -14,23 13,189 1,118 2011 January 165 66 581 28,524 1,198 102 -1,359 20,672 2,732 24,433 1,026 87 February 147 59														95
September 151 61 530 26,061 1,095 93 5 17,408 68 25,998 1,092 93 October 159 64 563 27,410 1,151 98 1 17,295 -113 27,524 1,156 98 November 161 65 586 27,745 1,165 99 - 18,029 734 27,011 1,134 96 December 165 67 592 28,457 1,195 101 6 17,940 -89 28,552 1,199 102 Total 1,830 738 6,464 315,018 13,231 1,122 243 17,940 ¹ 1,229 314,032 13,189 1,118 2011 January 165 66 581 28,524 1,198 102 -1,359 20,672 2,732 24,433 1,026 87 February 147 59 535 25,400 1,067 90														95
October 159 64 563 27,410 1,151 98 1 17,295 -113 27,524 1,156 98 November 161 65 586 27,745 1,165 99 - 18,029 734 27,011 1,134 96 December 165 67 592 28,457 1,195 101 6 17,940 -89 28,552 1,199 102 Total 1,830 738 6,464 315,018 13,231 1,122 243 17,940 1,229 314,032 13,189 1,118 2011 January 165 66 581 28,524 1,198 102 -1,359 20,672 2,732 24,433 1,026 87 February 147 59 535 25,400 1,067 90 -1,425 20,809 137 23,838 1,001 85 March 163 65 548 28,194 1,184 100 -2,00														90
November 161 65 586 27,745 1,165 99 - 18,029 734 27,011 1,134 96 December 165 67 592 28,457 1,195 101 6 17,940 -89 28,552 1,199 102 Total 1,830 738 6,464 315,018 13,231 1,122 243 17,940 -1,329 314,032 13,189 1,118 2011 January 165 66 581 28,524 1,198 102 -1,359 20,672 2,732 24,433 1,026 87 February 147 59 535 25,400 1,067 90 -1,425 20,809 137 23,838 1,001 85 March 163 65 548 28,194 1,184 100 -2,003 21,440 631 25,560 1,074 91 3-Month Total 475 190 1,664 82,118 3,449 292														95
December 165 67 592 28,457 1,195 101 6 17,940 -89 28,552 1,199 102 Total 1,830 738 6,464 315,018 13,231 1,122 243 17,940 -89 28,552 1,199 102 2011 January 165 66 581 28,524 1,198 102 -1,359 20,672 2,732 24,433 1,026 87 February 147 59 535 25,400 1,067 90 -1,425 20,809 137 23,838 1,001 85 March 163 65 548 28,118 3,449 292 -4,787 21,440 631 25,560 1,074 91 3-Month Total 475 190 1,664 82,118 3,449 292 -4,787 21,440 3,500 73,831 3,101 263														94
Total 1,830 738 6,464 315,018 13,231 1,122 243 17,940 1,229 314,032 13,189 1,118 2011 January 165 66 581 28,524 1,198 102 -1,359 20,672 2,732 24,433 1,026 87 February 147 59 535 25,400 1,067 90 -1,425 20,809 137 23,838 1,001 85 March 163 65 548 28,194 1,184 100 -2,003 21,440 631 25,560 1,074 91 3-Month Total 475 190 1,664 82,118 3,449 292 -4,787 21,440 3,500 73,831 3,101 263	December			592	28,457	1,195				-89	28,552	1,199		99
February 147 59 535 25,400 1,067 90 -1,425 20,809 137 23,838 1,001 85 March 163 65 548 28,194 1,184 100 -2,003 21,440 631 25,560 1,074 91 3-Month Total 475 190 1,664 82,118 3,449 292 -4,787 21,440 3,500 73,831 3,101 263		1,830	738	6,464	315,018	13,231	1,122	243	17,940	ⁱ 1,229	314,032	13,189	1,118	1,089
February 147 59 535 25,400 1,067 90 -1,425 20,809 137 23,838 1,001 85 March 163 65 548 28,194 1,184 100 -2,003 21,440 631 25,560 1,074 91 3-Month Total 475 190 1,664 82,118 3,449 292 -4,787 21,440 3,500 73,831 3,101 263	2011 January				28,524		102		20,672	2,732		1,026		85
3-Month Total 475 190 1,664 82,118 3,449 292 -4,787 21,440 3,500 73,831 3,101 263	February													83
3-Month Total 475 190 1,664 82,118 3,449 292 -4,787 21,440 3,500 73,831 3,101 263														89
2010 2 Month Total 425 176 1 549 74 064 2 149 267 99 40 504 2 090 73 070 2 007 057		475	190	1,664	82,118	3,449	292	-4,787	21,440	3,500	73,831	3,101	263	256
2010 3-Month Total 435 176 1,948 74,964 3,148 267 88 19,691 2,980 72,072 3,027 257 2009 3-Month Total 338 137 1,264 57,937 2,433 206 523 16,411 2,185 56,275 2,364 201	2010 3-Month Total	435	176	1,548	74,964	3,148	267	88	19,691	2,980	72,072	3,027	257	250 195

Table 10.3 Fuel Ethanol Overview

^a Total corn and other biomass inputs to the production of undenatured ethanol used for fuel ethanol.

Losses and co-products from the production of fuel ethanol. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol—these are included in the industrial sector consumption statistics for the appropriate energy source.

The amount of denaturant in fuel ethanol produced. Minus denaturant. d

 ^e Through 2010, data are for fuel ethanol imports only; data for fuel ethanol exports are not available. Beginning in 2011, data are for fuel ethanol imports minus fuel ethanol exports. f Stocks are at end of period.

^g A negative value indicates a decrease in stocks and a positive value indicates

A negative value inside a minute 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 December 2009 stocks value (16,711 thousand

barrels), not the final December 2009 value (16,594 thousand barrels) that is shown under "Stocks." NA=Not available. – =No data reported.

NA=Not available. -=No data reported. Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by the approximate heat content of fuel ethanol—see Table A3. • Through 1980, data are not available. For 1981-1992, data are estimates. For 1993-2008, only data for 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," 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				_			
	Feed- stock ^a	Losses and Co- products ^b	Р	roduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	onsumptio	on
	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	1
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	2
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	1	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 January	5	(s)	1,011	42	5	261	1,150	-889	664	664	621	79	3	(s)
February	4	(s)	780	33	4	158	1,166	-1,009	424	-240	61	73	3	(s)
March	3	(s)	599	25	3	383	203	180	665	241	0	538	23	3
April	3	(s)	624	26	3	52	154	-102	632	-33	0	554	23	3
May	4	(s)	689	29	4	117	417	-300	600	-32	0	421	18	2
June	4	(s)	761	32	4	138	366	-228	581	-19	0	552	23	3
July	6	(s)	1,030 1.070	43 45	6	58 126	581 397	-523 -271	511 511	-70	0	576 799	24 34	3
August	6 6	(s)		45 49	6 6	120	224	-271	511	0 16	0	1.041	34 44	4
September	6 7	(s)	1,158 1,364	49 57	6 7	123	424	-265	527	26	0	1.074	44 45	6
November	8	(s) (s)	1,504	63	8	105	819	-203	531	-22	0	819	43 34	4
December	8	(S) (S)	1,455	61	8	165	431	-265	711	180	0	1,010	42	5
Total	65	(3)	12,054	506	65	1,844	6,332	-4,489	711	711	682	7,537	317	40
2010 January	4	(s)	764	32	4	41	296	-256	834	⁹ 328	0	181	8	1
February	4	(s)	797	33	4	31	139	-108	844	10	0	679	29	4
March	4	(s)	812	34	4	60	433	-374	969	125	0	314	13	2
April	4	(s)	735	31	4	45	227	-182	931	-38	0	591	25	3
May	4	(s)	688	29	4	80	251	-171	1,060	129	0	387	16	2
June	3	(s)	554	23	3	54	304	-249	968	-92	0	397	17	2
July	4	(s)	670	28	4	32	199	-167	830	-138	0	641	27	3
August	3	(s)	543	23	3	52	225	-173	771	-59	0	429	18	2
September	3	(s)	556	23	3	69	131	-62	682	-89	0	582	24	3
October	3	(s)	497	21	3	18	132	-114	650	-32	0	415	17	2
November	2	(s)	376	16	2	30	57	-27	676	26	0	323	14	2
December Total	2 40	(s) 1	409 7,401	17 311	2 40	34 546	109 2,503	-75 -1,958	662 662	-14 9 156	0 0	348 5,288	15 222	2 28
2011 January	4	(s)	740	31	4	49	217	-169	738	76	0	496	21	3
February	4	(S) (S)	740	30	4	37	88	-109	869	131	0	536	23	3
March	7	(s)	1,220	51	7	53	197	-144	984	115	0	961	40	5
3-Month Total	15	(s) (s)	2,678	112	14	139	503	-364	984	322	ŏ	1,993	84	11
2010 3-Month Total 2009 3-Month Total	13 13	(s) (s)	2,373 2,391	100 100	13 13	131 802	868 2,520	-737 -1,718	969 665	463 665	0 682	1,173 690	49 29	6 4

Table 10.4 **Biodiesel Overview**

^a Total vegetable oil and other biomass inputs to the production of biodiesel.
 ^b Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.
 ^c Net imports equal imports minus exports.
 ^d Stocks are at end of period.

d

 ^d Stocks are at end of period.
 ^e A negative value indicates a decrease in stocks and a positive value indicates an increase.

¹ Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition. ⁹ Derived from the preliminary December 2009 stocks value (506 thousand barrels), not the final December 2009 value (711 thousand barrels) that is shown

under "Stocks."

under "Stocks." NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A3). • Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. 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 Consump-

tion. 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

U.S. Energy Information Administration (EIA) estimates based on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Residential Sector, Wood

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

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

Commercial Sector, Hydroelectric Power

1989 forward: Commercial sector conventional hydroelectricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, are converted to Btu by multiplying by the fossil-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, 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: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus and conventional motor gasoline.

2010 and 2011: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

Production

1981–1992: Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption."

1993–2004: Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data from EIA, Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance.

2005–2008: EIA, Form EIA-819, "Monthly Oxygenate Report."

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

2010 and 2011: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

1992–2009: EIA, PSA, annual reports, Table 1.

2010 and 2011: EIA, PSM, monthly reports, Table 1.

Consumption

1981–1989: EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 10; and interpolated values for 1982, 1983, 1985, 1986, and 1988.

1990–1992: EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, Table D2; and interpolated value for 1991.

1993–2004: EIA, PSA, annual reports, Tables 2 and 16. Calculated as 10 percent of oxygenated finished motor gasoline field production (Table 2), plus fuel ethanol refinery input (Table 16).

2005–2008: EIA, PSA, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15).

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

2010 and 2011: EIA, PSM, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

Consumption Minus Denaturant

Calculated as fuel ethanol consumption minus the amount of denaturant in fuel ethanol consumed. Denaturant in fuel ethanol consumed is estimated by multiplying denaturant in fuel ethanol produced by the fuel ethanol consumption-toproduction ratio.

Table 10.4 Sources

Feedstock

Calculated as biodiesel production in thousand barrels multiplied by 5.433 million Btu per barrel (the biodiesel feedstock factor—see Table A3).

Losses and Co-products

Calculated as biodiesel feedstock minus biodiesel production.

Production

2001–2005: U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. Monthly data are estimated by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month.

2006: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, the U.S. Energy Information Administration (EIA) estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007 and January 2010 forward: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel).

January 2008–December 2009: EIA, *Monthly Biodiesel Production Report*, December 2009 (release date October 2010), Table 11. Monthly data for 2008 are estimated based on U.S. Department of Commerce, Bureau of the Census, M311K data, multiplied by the EIA 2008 annual value's share of the M311K 2008 annual value.

Trade

U.S. Department of Agriculture, imports data for Harmonized Tariff Schedule codes 3824.90.40.20, "Fatty Esters Animal/Vegetable/Mixture" (for data through June 2010), and 3824.90.40.30, "Biodiesel/Mixes" (for data beginning in July 2010); and exports data for Schedule B code 3824.90.40.00, "Fatty Substances Animal/Vegetable/Mixture" (for data through December 2010), and 3824.90.40.30, "Biodiesel <70%" (for data beginning in January 2011). Although these categories include products other than biodiesel (such as biodiesel coprocessed with petroleum feedstocks; and products destined for soaps, cosmetics, and other items), biodiesel is the largest component. In the absence of other reliable data for biodiesel trade, EIA sees these data as good substitutes.

Stocks and Stock Change

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

2010 and 2011: EIA, *Petroleum Supply Monthly*, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports.

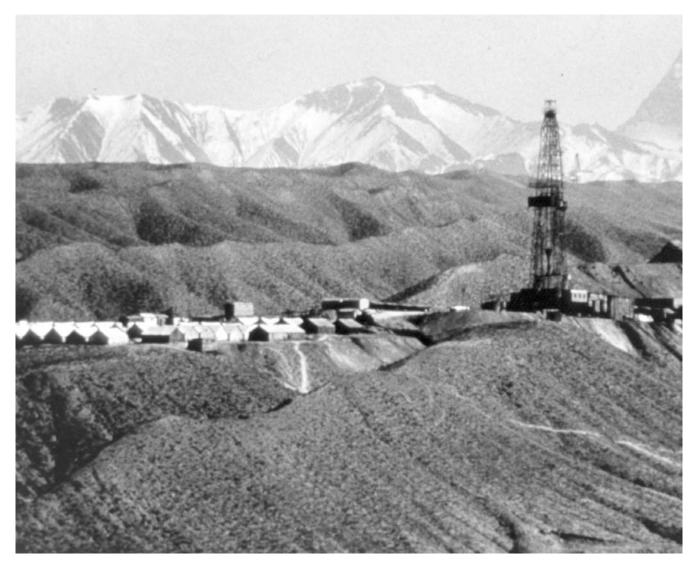
Consumption

2001–2008: Calculated as biodiesel production plus biodiesel net imports.

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

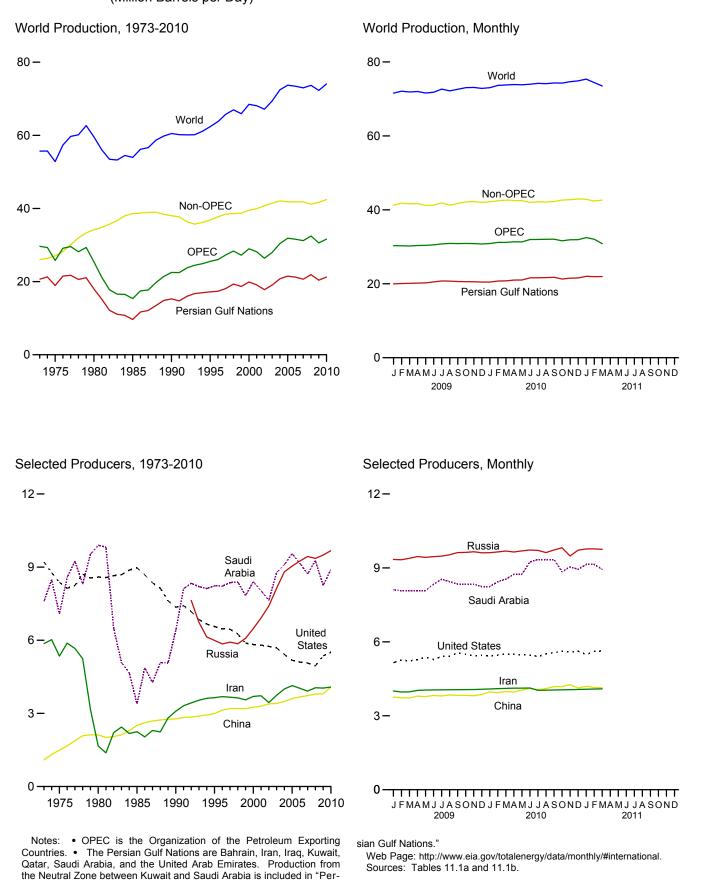
March 2009 forward: Calculated as biodiesel production plus biodiesel net imports minus biodiesel stock change.



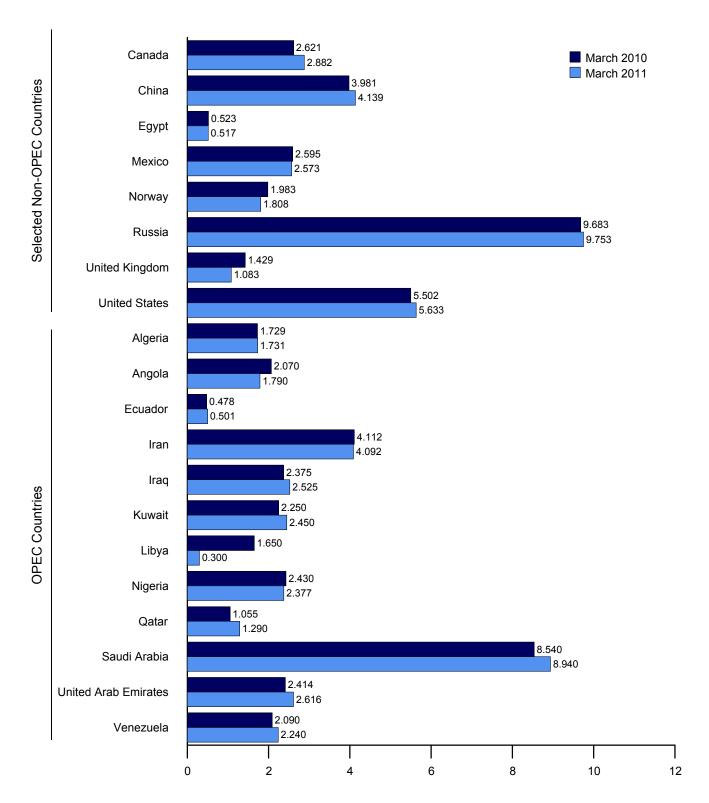


Drilling rig, Gansu Province, People's Republic of China. Source: U.S. Department of Energy.

Figure 11.1a World Crude Oil Production Overview (Million Barrels per Day)



U.S. Energy Information Administration / Monthly Energy Review June 2011



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

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

	Algeria	Angola	Ecuador	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Vene- zuela	Total OPEC ^t
973 Average	1,097	162	209	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,661
975 Average	983	165	161	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	25,790
980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
985 Average	1,037	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,368
990 Average	1,175	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,493
995 Average	1,202	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,540
996 Average	1,242	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,018
997 Average	1,277	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,292
998 Average	1,246	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,366
999 Average	1,202	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,224
000 Average	1,254	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,980
001 Average	1,310	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,159
002 Average	1,306	896	393	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,392
003 Average	1,611	903	411	3,743	1,308	2,136	1,421	2,275	715	8,775	2,348	2,335	27,980
004 Average	1,677	1,052	528	4,001	2,011	2,376	1,515	2,329	783	9,101	2,478	2,557	30,408
005 Average	1,797	1,250	532	4,139	1,878	2,529	1,633	2,627	835	9,550	2,535	2,565	31,871
006 Average	1,814	1,413	536	4,028	1,996	2,535	1,681	2,440	850	9,152	2,636	2,511	31,591
007 Average	1,834	1,744	511	3,912	2,086	2,464	1,702	2,350	851	8,722	2,603	2,433	31,210
008 Average	1,825	1,981	505	4,050	2,375	2,586	1,736	2,165	924	9,261	2,681	2,394	32,483
009 January	1,758	1,915	504	4,007	2,212	2,350	1,650	2,192	860	8,113	2,411	2,340	30,312
February	1,757	1,840	498	3,963	2,313	2,350	1,650	2,162	935	8,068	2,412	2,340	30,288
March	1,757	1,840	497	3,970	2,365	2,350	1,650	2,060	910	8,072	2,412	2,340	30,223
April	1,757	1,840	495	4,030	2,366	2,350	1,650	2,217	910	8,077	2,412	2,240	30,344
May	1,757	1,840	486	4.044	2,418	2,350	1,650	2,212	910	8.081	2,412	2,240	30,399
June	1,756	1,840	491	4,050	2,419	2,350	1,650	2,059	910	8,335	2,412	2,240	30,514
July	1,726	1,890	483	4,053	2,470	2,350	1,650	2,051	910	8,540	2,413	2,240	30,777
August	1,726	1,950	477	4,056	2,472	2,350	1,650	2,193	945	8,440	2,413	2,240	30,912
September	1,726	1,950	475	4,060	2,473	2,350	1,650	2,240	945	8,340	2,413	2,240	30,862
October	1,726	1,990	475	4,063	2,425	2,350	1,650	2,290	951	8.340	2,413	2,240	30,913
November	1,726	1,990	477	4,067	2,375	2,350	1,650	2,370	962	8,340	2,413	2,140	30,860
December	1,726	1,990	470	4,076	2,375	2,350	1,650	2,450	974	8,240	2,414	2,040	30,754
Average	1,741	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	2,239	30,599
Average	1,741	1,307	400	4,037	2,331	2,330	1,050	2,200	521	0,230	2,415	2,255	50,555
010 January	1,730 1,729	2,040 2,060	464 470	4,088 4,100	2,475 2,475	2,250 2,250	1,650 1,650	2,480 2,420	969 1,036	8,240 8,440	2,414 2,414	2,090 2,140	30,889 31,184
February			470										
March	1,729 1,729	2,070 2,070	478 480	4,112 4,120	2,375 2,375	2,250 2,250	1,650	2,430 2,360	1,055 1,072	8,540	2,414 2,414	2,090 2,110	31,193 31,371
April							1,650			8,740			
May	1,729	2,030	478	4,120	2,375	2,250	1,650	2,310	1,091	8,740	2,415	2,140	31,327
June	1,728	1,980	491	4,127	2,425	2,250	1,650	2,410	1,113	9,240	2,415	2,140	31,968
July	1,728	1,970	492	4,033	2,325	2,350	1,650	2,410	1,136	9,340	2,415	2,140	31,989
August	1,728	1,890	485	4,040	2,325	2,350	1,650	2,510	1,164	9,340	2,415	2,140	32,037
September	1,728	1,790	490	4,047	2,375	2,350	1,650	2,550	1,193	9,340	2,415	2,140	32,068
October	1,728	1,790	497	4,053	2,375	2,350	1,650	2,580	1,216	8,840	2,415	2,140	31,634
November	1,728	1,790	508	4,060	2,375	2,350	1,650	2,510	1,235	9,040	2,415	2,240	31,901
December	1,728	1,790	499	4,068	2,525	2,350	1,650	2,490	1,235	8,940	2,415	2,240	31,930
Average	1,729	1,939	486	4,080	2,399	2,300	1,650	2,455	1,127	8,900	2,415	2,146	31,626
011 January	1,728	1,790	500	4,076	2,625	2,350	1,650	2,590	1,280	9,140	2,515	2,240	32,484
February	1,731	1,790	509	4,084	2,525	2,350	1,340	2,560	1,280	9,140	2,516	2,240	32,065
March	1,731	1,790	501	4,092	2,525	2,450	300	2,377	1,290	8,940	2,616	2,240	30,852
3-Month Average	1,730	1,790	503	4,084	2,559	2,384	1,089	2,507	1,283	9,071	2,550	2,240	31,792
010 3-Month Average	1,729	2,057	471	4,100	2,440	2,250	1,650	2,444	1,020	8,406	2,414	2,106	31,086
009 3-Month Average	1,757	1,866	500	3,981	2,296	2,350	1,650	2,137	900	8,085	2,412	2,340	30,274

^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 March 2011, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 570 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.

for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years. Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not

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.

example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC"

day from the Abu Safah field produced on behalf of Bahrain. ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For

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	Non-OPE	C ^a Produce	s				
	Persian Gulf Nations ^b	Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Total Non- OPEC ^a	World
1973 Average	20.668	1,798	1,090	165	465	32	8,324	NA	2	9,208	26,018	55,679
1975 Average		1,430	1,490	235	705	189	9,523	NA	12	8,375	27,039	52,828
1980 Average		1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	34,175	59,558
1985 Average		1,471	2,505	887	2,745	773	11,585	NA	2,530	8,971	38,598	53,966
1990 Average		1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,492
1995 Average	17,208	1,805	2,990	920	2,618	2,766		5,995	2,489	6,560	36,845	62,385
1996 Average		1,837	3,131	922	2,855	3,091		5,850	2,568	6,465	37,733	63,752
1997 Average	18,095	1,922	3,200	856	3,023	3,142		5,920	2,518	6,452	38,452	65,744
1998 Average		1,981	3,198	834	3,070	3,011		5,854	2,616	6,252	38,599	66,966
1999 Average	18,667	1,907	3,195	852	2,906	3,019		6,079	2,684	5,881	38,698	65,923
2000 Average	19,892	1,977	3,249	768	3,012	3,222		6,479	2,275	5,822	39,513	68,492
2001 Average		2,029	3,300	720	3,127	3,226		6,917	2,282	5,801	39,936	68,095
2002 Average		2,171	3,390	715	3,177	3,131		7,408	2,292	5,746	40,764	67,156
2003 Average		2,306	3,409	713	3,371	3,042		8,132	2,093	5,681	41,450	69,430
2004 Average		2,398	3,485	673	3,383	2,954		8,805	1,845	5,419	42,063	72,471
2005 Average		2,369	3,609	658	3,334	2,698		9,043	1,649	5,178	41,842	73,712
2006 Average		2,525	3,673	633	3,256	2,491		9,247	1,490	5,102	41,837	73,428
2007 Average	20,672	2,628	3,729	637	3,076	2,270		9,437	1,498	5,064	41,775	72,985
2008 Average		2,579	3,790	581	2,792	2,182		9,357	1,391	4,950	41,187	73,670
2009 January	19,989	2,592	3,755	553	2,685	2,195		9,343	1,425	5,154	41,250	71,563
February		2,684	3,733	550	2,663	2,260		9,331	1,449	5,260	41,796	72,085
March		2,579	3,726	547	2,652	2,238		9,388	1,451	5,227	41,655	71,878
April		2,459	3,795	547	2.642	2.072		9,459	1.468	5,273	41.663	72,007
May	-, -	2,436	3,775	544	2,609	1,890		9,429	1,390	5,379	41,204	71,603
June		2,559	3,824	541	2,519	1,850		9,457	1,359	5,281	41,302	71,815
July		2,667	3,801	538	2,561	2,147		9,476	1,342	5,402	41,871	72,648
August		2,575	3,844	535	2,542	1,970		9,532	993	5,418	41,271	72,183
September		2,528	3,826	532	2,599	1,923		9,623	1,119	5,547	41,739	72,601
October		2,594	3,828	529	2,602	2,077		9,629	1,266	5,501	42,137	73,050
November		2,725	3,813	526	2,553	2,123		9,654	1,372	5,427	42,243	73,103
December		2,564	3,863	523	2,593	2,073		9,614	1,310	5,451	42,084	72,838
Average		2,579	3,799	539	2,601	2,067		9,495	1,328	5,361	41,683	72,282
2010 January	20,471	2,497	3,968	523	2,615	2,060		9,615	1,379	^E 5,433	42,155	73,044
February		2,712	3,938	523	2,610	2,038		9,648	1,274	^E 5,465	42,459	73,644
March		2,621	3,981	523	2,595	1,983		9,683	1,429	E 5,502	42,589	73,782
April		2,695	3,961	523	2,593	1,967		9,646	1,378	E 5,496	42,506	73,877
May		2,745	4,040	523	2,593	1,921		9,691	1,297	^E 5.468	42,497	73,824
June		2,772	4.108	523	2,546	1,611		9,727	1.076	E 5,465	42.010	73.978
July	,	2,765	4,056	522	2,573	1,864		9,710	1,055	E 5,406	42,216	74,205
August		2,783	4,104	522	2,559	1,648		9,623	1,070	E 5,506	42,095	74,132
September		2,648	4,183	522	2,570	1,637		9.725	1,194	E 5,567	42.242	74,310
October		2,690	4,181	522	2,571	1,952		9,816	1,195	E 5,616	R 42,642	^R 74,277
November		2,942	4,263	525	2,512	1,868		9,484	1,248	E 5,595	42,758	74,659
December		2,933	4,126	525	2,574	1,886		9,719	1,207	E 5.624	R 42,942	^R 74,872
Average		2,734	4,076	523	2,576	1,869		9,674	1,233	E 5,512	^R 42,426	^R 74,072
2011 January	22,021	2,850	4,195	522	2,584	1,905		9,769	1,316	^E 5,483	^R 42,865	^R 75,349
February		^R 2,657	4,147	521	2,556	1,861		9,773	1,085	E 5,612	R 42,371	^R 74,435
March	,	2,882	4,139	517	2,573	1,808		9,753	1,083	E 5,633	42.645	73,497
3-Month Average	,	2,801	4,161	520	2,572	1,858		9,765	1,164	E 5,575	42,635	74,427
2010 3-Month Average	20,664	2,607	3,963	523	2,607	2,027		9,649	1,363	^E 5,466	42,399	73,485
2009 3-Month Average	,	2,616	3,738	550	2,667	2,230		9,355	1,441	5,212	41,560	71,834

^a See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

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

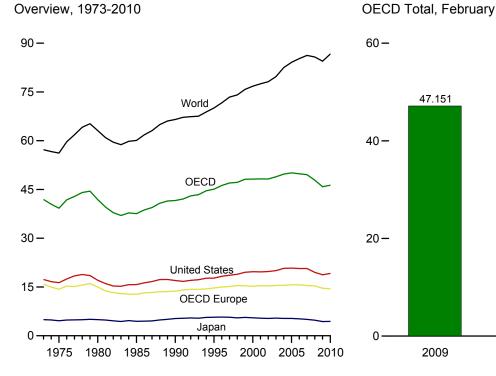
R=Revised. NA=Not available. --=Not applicable. E=Estimate.

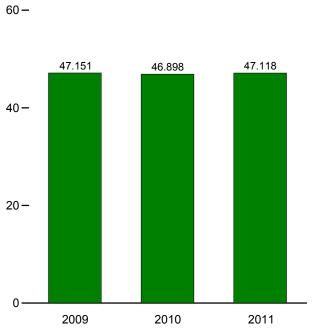
Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

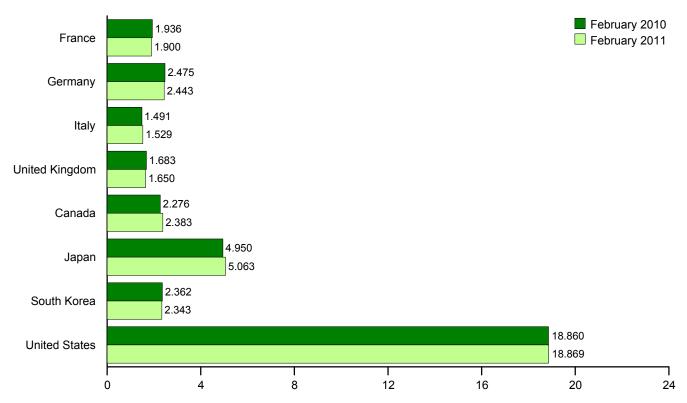
Sources: See end of section.

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





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
		,,	,									
973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
975 Average	2,252	2,957	1,855	1,911	14,314	1,779	4,621	311	16,322	1,885	39,232	56,198
980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,449	41,870	63,113
985 Average	1,753	2,651	1,705	1,617	12,770	1,526	4,436	552	15,726	2,564	37,575	60,083
990 Average	1,826	2,682	1,868	1,776	13,729	1,737	5,315	1,048	16,988	2,784	41,601	66,533
995 Average	1,920	2,882	1,942	1,816	14,714	1,817	5,693	2,008	17,725	3,135	45,092	70,067
996 Average	1,949	2,922	1,920	1,852	14,998	1,871	5,739	2,101	18,309	3,206	46,224	71,665
997 Average	1,969	2,917	1,934	1,810	15,140	1,959	5,702	2,255	18,620	3,322	46,999	73,436
998 Average	2,043	2,923	1,943	1,792	15,447	1,949	5,507	1,917	18,917	3,443	47,180	74,079
999 Average	2,031	2,838	1,891	1,811	15,364	2,036	5,642	2,084	19,519	3,512	48,157	75,791
2000 Average	2,000	2,772	1,854	1,765	15,219	2,035	5,515	2,135	19,701	3,591	48,197	76,772
2001 Average	2,054	2,815	1,832	1,747	^R 15,392	2,066	5,412	2,132	19,649	3,605	^R 48,256	^R 77,511
2002 Average	1,985	2,722	1,870	1,739	15,342	2,087	5,319	2,149	19,761	3,558	48,217	78,160
2003 Average	2,001	2,679	1,860	1,759	^R 15,462	2,217	5,429	2,175	20,034	3,598	^R 48,914	R 79,723
2004 Average	2,009	2,665	1,794	1,785	15,531	2,310	5,319	2,155	20,731	3,687	49,733	82,511
2005 Average	1,991	2,647	1,755	1,823	15,667	2,341	5,328	2,191	20,802	3,800	50,129	84,105
2006 Average	1,991	2,692	1,743	1,804	15,684	2,253	5,198	2,180	20,687	3,816	49,818	85,255
2007 Average	1,979	^R 2,422	1,688	1,738	^R 15,407	2,307	5,037	2,241	20,680	3,874	^R 49,547	^R 86,242
2008 Average	1,945	2,550	1,633	1,729	15,336	2,242	4,788	2,142	19,498	3,846	47,853	^R 85,755
009 January	1,990	2,419	1,491	1,744	^R 14,854	2,231	4,850	2,297	19,040	3,578	^R 46,850	NA
February	1,998	2,648	1,568	1,698	^R 15,204	2,220	4,721	2,455	18,822	3,729	^R 47,151	NA
March	1,920	2,789	1,506	1,739	^R 15,150	2,154	4,615	2,187	18,719	3,700	^R 46,524	NA
April	1,799	2,509	1,510	1,708	^R 14,644	2,049	4,231	2,209	18,672	3,657	^R 45,461	NA
May	1,669	2,339	1,465	1,614	^R 13,939	2,053	3,823	2,128	18,211	3,677	^R 43,830	NA
June	1,817	2,376	1,525	1,692	^R 14,649	2,142	4,068	2,077	18,828	3,788	^R 45,551	NA
July	1,839	2,415	1,676	1,660	^R 14,775	2,170	4,000	2,005	18,626	3,813	^R 45,390	NA
August	1,577	2,267	1,400	1,656	^R 13,861	2,157	4,176	2,066	18,949	3,773	^R 44,983	NA
September	1,884	2,554	1,580	1,674	^R 15,073	2,138	4,146	2,034	18,594	3,715	^R 45,700	NA
October	1,845	2,510	1,583	1,654	^R 14,862	2,103	4,302	2,188	18,803	3,827	^R 46,086	NA
November	1,714	2,357	1,484	1,637	^R 14,257	2,151	4,400	2,227	18,753	3,854	^R 45,642	NA
December	1,894	2,303	1,547	1,532	^R 14,384	^R 2,201	5,089	2,367	19,237	3,981	^R 47,259	NA
Average	1,828	2,456	1,528	1,667	^R 14,633	^R 2,147	4,367	2,185	18,771	3,758	^R 45,861	^R 84,478
2010 January	1,739	2,180	1,328	1,582	^R 13,354	^R 2,141	4,731	2,342	18,528	3,560	^R 44,656	NA
February	1,936	2,475	1,491	1,683	^R 14,550	2,276	4,950	2,362	18,860	3,900	^R 46,898	NA
March	1,896	2,524	1,523	1,678	^R 14,673	2,163	4,690	2,234	19,070	3,802	^R 46,632	NA
April	1,827	2,280	1,478	1,642	^R 14,094	^R 2,154	4,324	2,229	18,910	3,854	^R 45,564	NA
May	1,676	2,373	1,411	1,611	^R 13,757	^R 2,184	3,838	2,150	18,827	3,814	^R 44,571	NA
June	1,818	2,529	1,536	1,594	^R 14,526	^R 2,286	3,964	2,157	19,314	3,918	^R 46,166	NA
July	1,811	2,590	1,618	1,627	^R 14,789	^R 2,205	4,167	2,092	19,278	3,835	^R 46,366	NA
August	1,724	2,566	1,466	1,639	^R 14,366	^R 2,362	4,385	2,201	19,692	3,679	^R 46,686	NA
September	1,927	2,767	1,583	1,636	^R 15,240	^R 2,285	4,438	2,172	19,507	3,765	^R 47,407	NA
October	1,735	2,641	1,492	1,663	14,765	^R 2,216	4,032	2,206	18,939	3,727	^R 45,886	NA
November	1,770	2,604	1,525	1,643	14,843	^R 2,280	4,592	2,371	19,074	3,900	^R 47,059	NA
December	1,922	2,343	1,590	1,522	^R 14,477	^R 2,297	^R 5,002	2,476	19,758	3,930	^R 47,939	NA
Average	1,814	2,489	1,503	1,626	^R 14,450	^R 2,237	^R 4,423	2,249	19,148	3,806	^R 46,312	^R 86,672
011 January	^R 1,759	2,230	^R 1,329	1,598	^R 13,516	^R 2,244	^R 4,896	2,424	19,121	^R 3,531	^R 45,732	NA
February	1,900	2,443	1,529	1,650	14,562	2,383	5,063	2,343	18,869	3,899	47,118	NA
2-Month Average	1,826	2,331	1,424	1,623	14,012	2,310	4,975	2,386	19,002	3,706	46,390	NA
2010 2-Month Average	1,833	2,320	1,405	1,630	13,922	2,205	4,835	2,351	18,686	3,722	45,720	NA
2009 2-Month Average	1.994	2,528	1,528	1,722	15,020	2,226	4,788	2,372	18,936	3,649	46,993	NA

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

Germany. ^b "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark, ^b "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark, Lucany Leeland, Ireland, Italy, Luxembourg, ^D "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. ^c "Other OECD" consists of Australia, Chile, Mexico, New Zealand, and the U.S. Territories. ^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD." R=Revised. NA=Not available

R=Revised. NA=Not available.

Totals may not equal sum of components due to independent Notes: •

rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

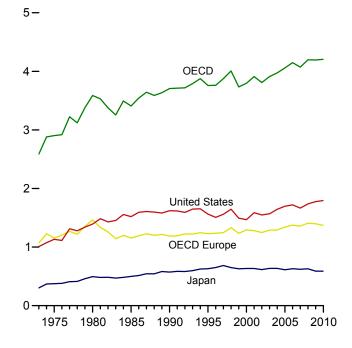
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for

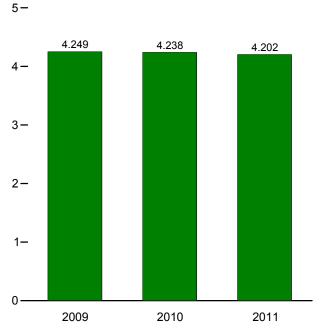
Web Page: See http://www.eia.gov/totalenergy/data/montnly/#international for all available data beginning in 1973. Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslavakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980-2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, IES. • World: 2009—EIA, Short Term Energy Outlook, June 07, 2011, Table 3a. • All Other Data:—International Energy Agency (IEA). Quarterly Oil Statistics and Energy Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

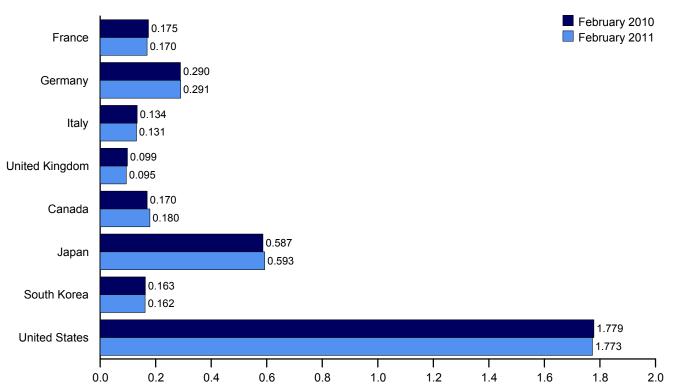
Overview, End of Year, 1973-2010

OECD Stocks, End of Month, February





By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD
		1									
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	143	103	1,188	143	572	64	1,621	117	3,706
995 Year	155	302	141	101	1,228	132	631	92	1,563	113	3,758
996 Year	154	303	135	103	1,235	127	651	123	1,507	118	3,762
997 Year	161	299	129	100	1,246	144	685	124	1,560	115	3,875
998 Year	169	323	135	104	1,331	139	649	129	1,647	111	4,006
999 Year	160	290	130	101	1,233	142	629	132	1,493	105	3,733
000 Year	170	272	140	100	1,294	^R 143	634	140	1,468	117	_ 3,796
001 Year	165	273	134	113	1,281	^R 155	634	143	1,586	112	^R 3,911
002 Year	170	253	138	104	1,247	^R 155	615	140	1,548	103	^R 3,809
003 Year	179	273	135	100	1,290	^R 166	636	155	1,568	96	^R 3,911
004 Year	177	267	136	101	1,292	^R 154	635	149	1,645	99	^R 3,974
005 Year	185	283	132	95	1,342	^R 168	612	135	1,698	103	^R 4,058
006 Year	182	283	133	103	1,374	^R 169	631	152	1,720	103	^R 4,149
007 Year	180	275	133	90	1,358	^R 176	621	143	1,665	108	^R 4,072
008 Year	179	279	128	99	1,407	^R 175	630	135	1,737	114	^R 4,197
009 January	179	282	136	100	1,413	^R 177	618	149	1,766	115	^R 4,237
February	178	281	128	98	1,412	^R 177	619	157	1,777	107	^R 4,249
March	178	280	131	100	1,415	^R 175	611	155	1,803	109	^R 4,269
April	173	281	132	98	1,405	^R 178	606	152	1,816	114	^R 4,272
Мау	176	286	133	92	1,403	^R 179	609	149	1,831	112	^R 4,282
June	173	285	129	92	1,403	^R 177	611	149	1,844	110	^R 4,295
July	174	283	127	97	1,398	^R 181	607	157	1,850	108	^R 4,301
August	178	287	130	96	1,415	^R 183	610	160	1,834	111	^R 4,312
September	174	280	129	94	1,400	^R 178	607	167	1,848	117	^R 4,317
October	173	281	130	96	1,382	^R 179	604	167	1,825	109	^R 4,266
November	179	286	130	96	1,408	^R 177	606	162	1,814	109	^R 4,275
December	175	284	126	94	1,398	^R 170	589	155	1,776	105	^R 4,194
010 January	182	295	127	95	1,437	^R 173	593	162	1,781	111	^R 4,258
February	175	290	134	99	1,422	^R 170	587	163	1,779	117	^R 4,238
March	172	289	129	93	1,403	^R 172	581	164	1,779	114	^R 4,213
April	172	284	135	95	1,414	^R 174	590	166	1,804	111	^R 4,260
May	173	286	131	99	1,421	^R 177	599	166	1,823	108	^R 4,294
June	170	280	133	96	1,403	^R 176	597	167	1,839	120	^R 4,302
July	168	282	127	96	1,389	^R 185	598	170	1,853	116	^R 4,311
August	171	289	133	93	1,405	^R 194	597	169	1,857	115	^R 4,337
September	163	286	127	95	1,365	^R 186	582	174	1,857	^R 111	^R 4,274
October	161	285	129	94	1,374	^R 188	599	170	1,846	^R 112	^R 4,288
November	170	287	126	92	1,366	^R 187	604	171	1,826	108	^R 4,261
December	168	287	133	89	1,370	^R 183	^R 588	165	1,794	105	^R 4,205
011 January	^R 173	295	140	96	^R 1,414	^R 179	^R 598	168	1,803	105	^R 4,267
February	170	291	131	95	1,386	180	593	162	1,773	108	4,202

^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.

Germany Grig. Degiming with Sanday 1964, the data of Germany are to the 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, and, for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia. ^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, and, for 1984 forward, Mexico. ^d The Organization for Economic Cooperation and Development (OECD)

^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 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, May 12, 2011.

International Petroleum

Tables 11.1a and 11.1b Sources

United States Table 3.1.

All Other Countries and World, Annual Data

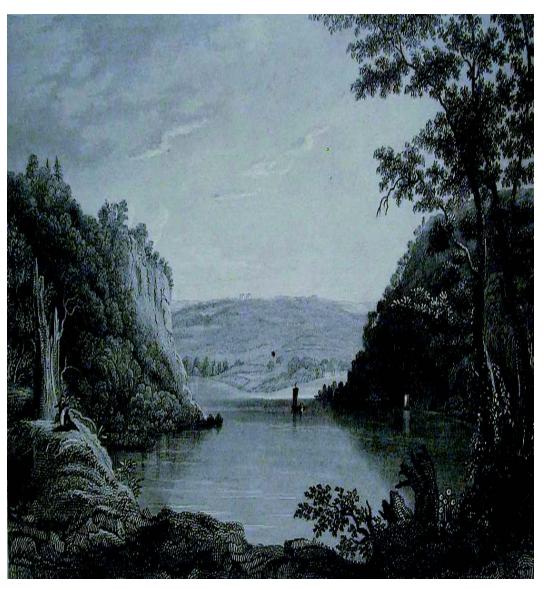
1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, June 2011.

All Other Countries and World, Monthly Data

1973–1980: Petroleum Intelligence Weekly (PIW), Oil & Gas Journal (OGJ), and EIA adjustments.
1981–1993: PIW, OGJ, and other industry sources.
1994 forward: EIA, International Petroleum Monthly, and International Energy Database, June 2011.



Environment



"Harpers Ferry, Junction of the Rivers Shenandoah and Potomac." Engraving by W. Goodacre and James Archer, published in *The History and Topography of the United States of North America*, by John Howard Hinton, 1852. From the collection of the National Park Service, Harpers Ferry National Historical Park, Accession #1297.

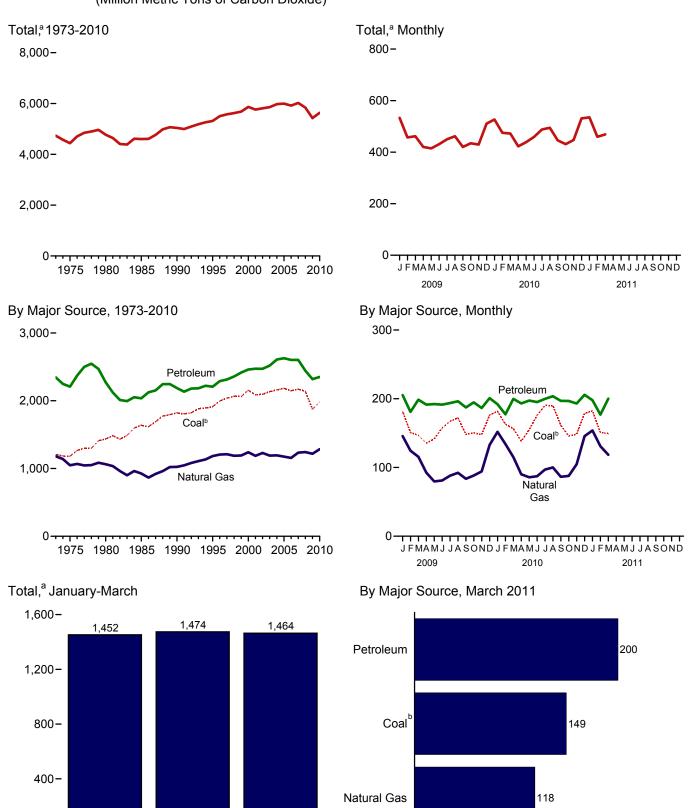


Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)

2010

2009

50

0

Source: Table 12.1.

100

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

150

200

250

2011

0.

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

Table 12.1 Carbon Dioxide Emissions From Energy Consumption by Source

(Million Metric	Tons of	Carbon	Dioxide ^a)
-----------------	---------	--------	------------------------

								Petrole	um					
	Coalb	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oil ^d	Jet Fuel	Kero- sene	LPG ^e	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Other ^g	Total	Total ^{h,i}
1973 Total	1,207	1,181	6	480	155	32	91	13	911	51	508	100	2,346	4,733
1975 Total	1,181 1.436	1,047 1.063	5 4	443 446	146 156	24 24	82 87	11 13	911 900	48 46	443 453	97 142	2,209 2.272	4,437 4,770
1980 Total 1985 Total	1,436	926	4	446	178	24 17	86	13	900	40 55	453	93	2,272	4,770
1990 Total	1.821	1,025	3	440	223	6	69	13	988	67	220	127	2,033	5,039
1995 Total	1,913	1,184	3	498	222	8	78	13	1.044	75	152	114	2.207	5.314
1996 Total	1,995	1,205	3	524	232	9	84	12	1,063	78	152	132	2,290	5,501
1997 Total	2,040	1,211	3	534	234	10	85	13	1,075	79	142	138	2,313	5,575
1998 Total	2,064	1,189	2	538	238	12	75	14	1,107	89	158	125	2,358	5,622
1999 Total	2,062	1,192	3	555	245	11	91	14	1,127	93	148	130	2,417	5,682
2000 Total	2,155	1,241	3	580	254	10	102	14	1,135	84	163	117	2,461	5,867
2001 Total	2,088 2.095	1,187 1,229	2 2	598 587	243 237	11 6	92 98	13 12	1,151 1,183	88 94	145 125	132 127	2,473 2.472	5,759 5,809
2002 Total 2003 Total	2,095	1,229	2	507 610	237	8	90 95	11	1,103	94 94	125	140	2,472	5,809
2003 Total	2,130	1,191	2	632	231	10	95	12	1,100	105	155	140	2,518	5,857
2005 Total	2,182	1,175	2	640	246	10	94	12	1,214	105	164	141	2,628	5,996
2006 Total	2,147	1,157	2	648	240	8	93	11	1,224	104	122	150	2,603	5,918
2007 Total	2,172	1,235	2	652	238	5	94	12	1,227	98	129	148	2,603	6,022
2008 Total	2,139	1,243	2	615	226	2	89	11	1,166	92	111	130	2,444	5,838
2009 January	181	146	(s)	54	16	1	9	1	95	7	12	11	205	533
February	151	124	(s)	46	15	(s)	8	1	88	7	6	10	181	457
March	147 135	116 92	(s)	49 44	18 17	(s)	8 7	1	98 96	7 8	9 10	9 8	199	462 420
April May	142	92 80	(s) (s)	44 45	17	(s) (s)	6	1	96 99	o 9	7	o 9	191 192	420
June	158	81	(s)	45	17	(S)	6	1	97	9	8	8	192	431
July	167	88	(S)	45	19	(s)	7	1	101	ĕ	5	10	194	450
August	172	92	(s)	45	18	(s)	7	1	101	7	7	9	196	462
September	148	84	(s)	45	17	(s)	7	1	94	8	5	10	187	420
October	150	88	(s)	48	17	(s)	8	1	98	6	8	9	195	434
November	148	94	(s)	46	16	(s)	10	1	94	6	7	8	187	430
December	176	133	(s)	51	17	(s)	10	1	97	7	9	9	201	511
Total	1,876	1,218	2	564	204	3	91	10	1,157	87	91	111	2,320	5,425
2010 January	182 163	152 134	(s)	48 46	17 15	(s)	10 9	1 1	92 85	5 5	9 7	9 9	192 177	527 475
February March	156	134	(s) (s)	46 51	15	(s) (s)	8	1	60 95	5	8	9 11	200	475
April	138	90	(S)	47	17	(s)	6	1	95	7	8	11	193	423
May	155	86	(S)	48	18	(s)	ő	1	100	6	8	10	197	439
June	176	87	(s)	48	18	(s)	6	1	97	7	7	10	195	459
July	190	97	(s)	47	18	(s)	7	1	101	7	9	10	200	488
August	190	100	(s)	50	19	(s)	7	1	101	8	7	11	204	495
September	161	86	(s)	50	17	(s)	7	1	96	7	8	10	197	446
October	146	88	(s)	50	18	(s)	7	1	98	6	8	9	197	431
November	148 179	105	(s)	49 55	17 17	1	7 10	1	93	7 6	9 9	9	193 206	447 531
December Total	179 1,985	146 1,285	(s) 2	55 589	209	1 3	10 92	1 11	96 1,1 50	77	98 98	10 121	206 2,351	531 5,632
2011 January	182	154	(s)	52	17	(s)	10	1	91	6	9	10	198	535
February	151	131	(s)	46	15	(0)	8	1	84	4	9	.0	177	^R 460
March	149	118	(s)	53	17	(s)	8	1	95	6	8	12	200	469
3-Month Total	483	403	(s)	151	49	1	27	3	270	17	26	30	575	1,464
2010 3-Month Total	501	401	(s)	145	50	1	27	2	272	17	25	29	569	1,474
2009 3-Month Total	479	386	(s)	149	49	1	24	2	280	21	27	30	585	1,452

^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.

с Natural gas, excluding supplemental gaseous fuels. d

е

Distillate fuel oil, excluding biodiesel. Liquefied petroleum gases. Finished motor gasoline, excluding fuel ethanol.

⁹ Aviation gasoline, excluding rule emanol.
 ⁹ Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.
 ^h Includes electric power sector use of geothermal energy and non-biomass

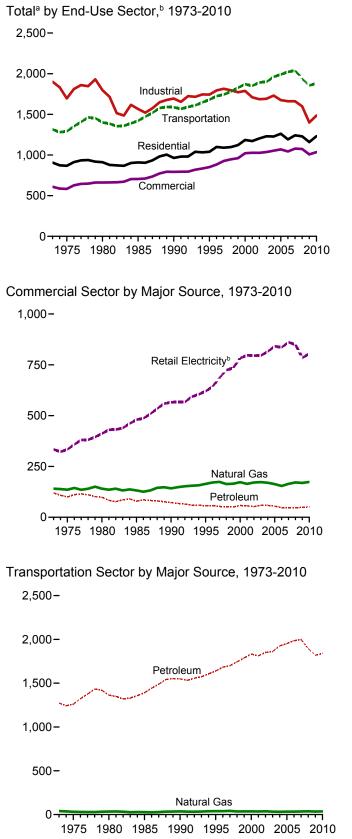
waste. See Table 12.6. ⁱ Excludes emissions from biomass energy consumption. See Table 12.7.

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 Cases," 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.

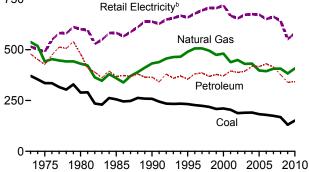
and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973.

Sources: See end of section.

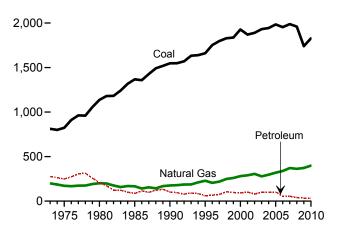




Residential Sector by Major Source, 1973-2010 1,000-750-Retail Electricity^b 0 Natural Gas 250-Petroleum 0 1975 1980 1985 1990 1995 2000 2005 2010 Industrial Sector by Major Source, 1973-2010 1,000-750-Retail Electricity^b



Electric Power Sector by Major Source, 1973-2010 2,500-



^a Excludes emissions from biomass energy consumption.

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

total electricity retail sales.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Sources: Tables 12.2–12.6.

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

				Detail				
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Retail Elec- tricity ^e	Total ^f
973 Total	9	264	147	16	36	199	435	907
975 Total	Ğ	266	132	12	32	176	419	867
980 Total	3 3	256	96	1	20	124	529	911
985 Total	4	241	80	11	20	111	553	909
990 Total	3	238	72	5	20	98	624	963
90 Total	2	263	66	5	25	96	678	1.039
95 Total	2							
96 Total		284	68	<u>6</u>	30	104	710	1,099
97 Total	2	270	64	7	29	99	719	1,090
98 Total	1	247	56	8	27	91	759	1,097
99 Total	1	257	61	8	33	102	762	1,122
00 Total	1	271	66	7	35	108	805	1,185
01 Total	1	259	66	7	33	106	805	1,172
02 Total	1	266	63	4	34	101	835	1,204
03 Total	1	276	66	5	34	106	847	1,230
04 Total	1	264	68	6	32	106	856	1,228
005 Total	1	262	62	6	32	101	897	1.261
06 Total	1	237	52	5	28	85	869	1,192
07 Total	1	257	53	3	31	87	897	1,242
08 Total	1	266	49	2	35	85	878	1,229
09 January	(s)	51	6	(s)	3	9	85	146
February	(s)	41	5	(s)	3	8	67	116
March	(S)	33	5	(s)	3	8	62	102
April	(S)	21	4	(S)	3	6	53	80
	(S)	11	3	(S)	3	5	56	72
May			3		3	5		
June	(s)	8	2	(s)	2	5	70	82
July	(s)	6	3	(s)	3	5	83	95
August	(s)	6	3	(s)	3	6	85	97
September	(s)	6	3 3 3	(s)	3	6	66	78
October	(s)	14	3	(s)	3	6	59	79
November	(s) (s)	20	3	(s)	3	7	57	84
December	(s)	41	5	(s)	4	9	78	129
Total	`í	259	44	2	35	81	819	1,159
	(0)	53	7	(0)	4	10	91	154
10 January	(s)	45	6	(s)	3	10	74	128
February	(s)			(s)				
March	(s)	33	4	(s)	3	7	65	105
April	(s)	18	3	(s)	2	5	51	74
May	(s)	11	3	(s)	3	6	59	76
June	(s)	7	3	(s)	3	6	80	93
July	(s)	6	3 2 2 3	(s)	3	6	97	109
August	(s) (s)	6	2	(s)	3	5	97	108
September	(s)	7	2	(s)	3	5	72	84
October	(s)	11		(s)	3	6	56	74
November	(s)	25	4	(s)	3	7	56	88
December	(s)	47	6	(s)	4	10	82	139
Total	`1	268	46	2	35	84	878	1,231
11 January	(s)	53	5	(s)	4	9	88	150
February	(s)	42	5	(s)	3	8	68	119
March	(s)	33	4	(s)	3	7	60	100
3-Month Total	(s)	128	14	1	10	25	216	369
10 3-Month Total	(s)	130	16	1	10	27	230	387
09 3-Month Total	(s) (s)	125	16	1	9	27	230	365

^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.
 ⁱ 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)

				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 1985 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	15 14 11 12 12 12 9 10 9 9 9 8 10 9 6 7 7	141 136 141 132 164 171 174 165 173 164 173 163 173 163 164 154 164	47 43 38 46 39 35 32 31 32 36 37 32 35 34 33 29 28 27	5 4 3 2 1 2 2 2 2 2 2 1 1 1 2 1 1 (s)	9 8 6 6 7 8 8 7 9 9 9 9 9 9 10 10 8 8 8 10	6 6 8 7 8 1 2 3 3 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3	NA NA NA S S S S S S S S S S S S S S S S	52 39 44 18 11 11 9 7 6 9 7 6 9 6 6 9 10 9 6 6 6	120 100 98 79 73 56 57 54 51 51 58 57 52 59 58 55 59 58 55 48 47 46	334 333 412 480 566 620 643 686 724 735 783 797 795 796 816 842 836 841 850	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,027 1,027 1,026 1,054 1,054 1,069 1,043 1,079
2009 January February March April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) 1 6	28 23 19 14 9 7 7 7 7 11 14 23 169	4 3 2 2 2 2 2 2 2 2 2 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	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	(s) (s) (s) 0 0 (s) (s) (s) (s) (s) (s) (s)	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) 1 6	6 5 5 4 3 3 3 3 4 4 4 6 9	69 58 60 58 62 70 73 76 66 65 60 68 785	103 87 85 75 75 80 84 86 77 80 78 98 98 1,008
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)	28 25 19 12 9 7 7 7 7 10 16 26 174	4 3 2 2 2 2 2 2 1 2 3 4 32	(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) (5)	1 (s) (s) (s) (s) (s) (s) (s) (s) 1 7	7 6 4 3 4 3 3 4 4 6 51	66 60 59 66 74 80 81 69 63 61 68 805	102 92 83 73 79 86 90 91 79 77 82 101 1,035
2011 January February March 3-Month Total	1 1 1 2	28 24 20 72	4 3 3 9	(s) (s) (s) (s)	1 1 1 3	(s) (s) (s) 1	(s) (s) (s) (s)	1 1 1 2	6 5 4 15	65 56 58 179	100 85 83 267
2010 3-Month Total 2009 3-Month Total	2 2	72 71	11 11	(s) (s)	3 2	1 1	(s) (s)	2 2	17 16	186 186	277 275

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 ^b Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.
 ^d Liquefied petroleum gases.
 ^e Finished motor gasoline, excluding fuel ethanol.
 ^f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
 ^g Excludes emissions from biomass energy consumption. See Table 12.7. 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

Coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

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

		Coal						Petroleun	ı				Detail	
	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 1980 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total	371 336 289 256 258 233 227 224 219 208 211 208 211 208 190	-1 2 -4 -2 1 7 3 5 8 7 7 3 7 6	538 442 431 360 432 490 506 506 495 474 481 439 449 449	106 97 96 81 84 82 86 88 88 88 88 88 88 88 88 88 88 83	11 9 13 1 1 1 1 2 1 2 1 2	43 39 61 58 39 45 46 48 39 48 56 49 54 50	7 6 7 6 7 7 6 7 7 7 6 6 6 6 6	18 16 11 15 13 14 14 15 14 14 15 14 11 11 21 22 23	49 48 45 54 64 67 70 68 77 81 74 77 76 76	144 117 105 57 31 24 24 21 16 14 17 14 13 15	100 97 142 93 127 114 132 138 125 130 117 132 127 140	478 427 480 369 366 355 381 386 368 378 370 395 388 370 395 388	515 490 601 583 638 659 678 694 706 704 719 667 654 672	1,902 1,696 1,797 1,566 1,695 1,743 1,743 1,745 1,745 1,776 1,772 1,788 1,779 1,686 1,692
2004 Total 2005 Total 2006 Total 2007 Total 2008 Total	191 183 179 175 168	16 5 7 3 5	431 398 394 406 407	88 92 92 92 93	2 3 2 1 (s)	55 51 56 54 42	6 6 6 6	26 25 26 21 17	82 80 82 80 76	17 20 16 13 14	142 141 150 148 130	419 417 430 415 377	675 673 650 662 642	1,731 1,675 1,661 1,662 1,598
2009 January February April May June August September October November December Total	12 12 10 10 10 11 11 11 11 11 11 13	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	36 32 33 30 29 30 31 30 32 33 36 383	11 8 5 6 4 4 6 7 8 8 80	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	5 4 4 3 3 3 3 3 3 4 5 5 46	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 7	6 6 7 7 8 5 6 7 5 5 6 7 3	1 1 1 (s) 1 (s) 1 1 7	11 10 9 8 10 9 10 9 8 9 111	36 30 29 26 27 25 25 25 28 28 28 28 31 339	47 41 43 45 46 47 50 46 47 46 49 551	130 115 117 109 111 112 117 115 119 118 127 1,401
2010 January February March April June July September October November December Total	12 12 12 12 12 13 13 13 13 13 13 13 13	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	38 35 32 33 32 33 32 33 32 33 34 38 408	6 9 7 6 5 4 7 9 7 8 9 84	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	5 5 4 3 3 3 3 3 3 4 4 5 46	(s) (s) (s) (s) 1 1 (s) (s) (s) (s) (s) (s) 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	34655656565 66565 62	1 1 1 1 1 1 1 1 1 8	9 9 11 10 10 10 11 10 9 9 10 121	26 26 33 27 27 26 30 31 27 30 32 343	46 44 45 51 51 53 54 48 47 48 50 583	121 118 127 119 123 122 124 130 124 120 124 133 1,485
2011 January February March 3-Month Total	13 13 14 40	(S) (S) (S) (S)	39 35 37 111	10 ^R 7 10 28	(s) (s) (s) (s)	5 4 4 14	(s) (s) 1 1	1 1 1 4	5 3 5 13	1 1 1 2	10 9 12 30	33 26 33 93	48 42 46 136	^R 134 117 130 380
2010 3-Month Total 2009 3-Month Total	37 36	(s) (s)	108 101	21 27	(s) (s)	14 13	1 1	4 4	14 18	2 2	29 30	85 95	135 131	365 362

^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.

c d

^c Distillate fuel oil, excluding biodiesel.
 ^d Liquefied petroleum gases.
 ^e Finished motor gasoline, excluding fuel ethanol.
 ^f Aviation gasoline blending components, crude oil, motor gasoline blending components, pertalens plus, petrochemical fedstocks, 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 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

R=Revised. (S)=Less than 0.5 million metric tons and greater than -0.5 million metric tons.
 Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
 See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
 Web Pace: See http://www.eia.gov/totalenergv/data/monthly/#environment for

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

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

						Petr	oleum				Detell	
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total	(((((((((((((((((((39 32 34 28 36 39 41 35 36 35 37 33 33 33 33 33 33 35 37	6 5 4 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2	163 155 204 232 268 307 342 352 366 378 387 394 414 434 444 469 472 440	152 145 155 178 222 234 238 245 254 243 237 231 240 246 240 238 226	3 3 1 2 1 1 1 1 1 1 1 1 1 1 1 2 2 1 3	6666766677766666565 565	886 889 908 907 1,029 1,047 1,057 1,105 1,121 1,127 1,158 1,161 1,185 1,186 1,194 1,201 1,146	57 56 110 62 80 72 67 53 52 70 46 53 45 58 66 71 78 72	1,273 1,258 1,363 1,391 1,548 1,639 1,683 1,699 1,743 1,789 1,833 1,813 1,813 1,851 1,926 1,923 1,984 1,999 1,895	2 2 2 3 3 3 3 3 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,828 1,872 1,852 1,852 1,899 1,962 1,991 2,022 2,040 1,937
2009 January February April May July August September October November December Total	(h)	4 3 3 2 2 2 3 2 2 3 4 34	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	32 29 33 35 35 36 36 36 34 35 33 33 33 404	16 15 18 17 17 19 18 17 16 17 204	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	93 86 94 98 95 100 92 96 92 95 1,137	7 4 7 8 4 6 3 5 3 6 5 7 6 4	149 135 154 152 154 157 159 147 155 147 153 153 1 ,818	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	153 139 158 155 157 160 162 150 158 150 158 1,857
2010 January February April June July August September October November December Total		4 3 3 2 2 3 3 2 3 3 4 36	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	31 29 35 36 36 37 39 37 37 37 34 35 421	17 15 18 17 18 18 18 19 17 17 17 209	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	91 83 94 98 95 99 100 94 96 91 95 1,130	6 5 6 7 6 5 6 6 7 6 7 6 7 1	145 133 154 153 159 155 161 162 156 157 150 154 1,840	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	150 138 157 162 158 164 166 158 160 154 158 1,881
2011 January February March 3-Month Total	(h) (h) (h) (h)	4 4 3 11	(s) (s) (s) (s)	33 30 36 98	17 15 17 49	(s) (s) (s) 1	(s) (s) 1 1	89 83 93 265	7 7 6 20	147 135 153 435	(s) (s) (s) 1	152 139 157 448
2010 3-Month Total 2009 3-Month Total	(^h) (^h)	11 11	(s) (s)	95 94	50 49	1 (s)	1 1	267 276	18 17	432 438	1 1	445 450

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 ^b Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.
 ^d Liquefied petroleum gases.
 ^e Finished motor gasoline, excluding fuel ethanol.
 ^f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
 ^g Excludes emissions from biomass energy consumption. See Table 12.7.
 ^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.

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

	Coal				Petro		Non-		
		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
	1,137	200	12		194	240	NA	NA	1,544
980 Total				1					
985 Total	1,367	166	6	1	79	86	NA	NA	1,619
990 Total	1,548	176	7	3	92	102	(s)	6	1,831
995 Total	1,661	228	8	8	45	61	(s)	10	1,960
996 Total	1,752	205	8	8	50	66	(s)	10	2,033
997 Total	1.797	219	8	10	56	75	(s)	10	2,101
998 Total	1,828	248	10	13	82	105	(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
2003 Total	1,931	278	12	18	69	98	(s)	11	2,319
2004 Total	1.943	297	8	23	69	100	(s)	11	2.352
005 Total	1,984	319	8	25	69	102	(s)	11	2,417
2006 Total	1,954	338	5	22	28	56	(s)	12	2,359
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 January	169	26	1	1	3	5	(s)	1	201
February	138	25	(s)	1	1	3	(s)	1	167
March	134	27	1	1	1	3	(s)	1	165
April	125	24	(s)	1	1	2	(s)	1	153
May	131	28	(s)	1	1	3	(s)	1	163
June	147	35	(s)	1	1	3	(s)	1	186
July	157	42	(s)	1	1	3	(s)	1	203
August	162	46	(s)	1	1	3	(s)	1	211
September	137	37	(s)	1	1	3	(s)	1	178
October	139	29	(S)	1	1	2	(S)	1	171
								-	
November	136	25	(s)	1	1	2	(s)	1	164
December	165	28	(s)	1	1	2	(s)	1	196
Total	1,741	373	5	14	14	34	(s)	11	2,159
010 January	169	29	1	1	1	4	(s)	1	204
February	149	26	(s)	1	1	2	(s)	1	178
March	143	24	(S)	1	1	2	(s)	1	170
	143	24		1	1	2		1	154
April			(s)		-		(s)		
May	142	30	(s)	1	1	3	(s)	1	176
June	163	38	1	1	2	4	(s)	1	206
July	177	49	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	133	31	(S)	1	1	2	(s)	1	166
		27			1	2			
November	136		(s)	1			(s)	1	165
December	165	30	1	1	1	3	(s)	1	200
Total	1,828	399	6	15	12	33	(s)	11	2,271
011 January	168	30	1	2	1	3	(s)	1	202
February	137	26	(s)	1	1	2	(s)	1	166
March	135	26	(S)	1	1	2	(s)	1	164
3-Month Total	440	20 82	(5)	4	2	2 7	(s) (s)	3	532
010 3-Month Total 009 3-Month Total	461 442	80 78	2	4	3 5	8 11	(s)	3 3	552 533

^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	143	(s)	NA	NA	143	33	1	109	NA	(s)	143	
1975 Total	140	(s)	NA	NA	141	40	1	100	NA	(s)	141	
1980 Total	232	(s)	NA	NA	232	80	2	150	NA	(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	32	6	NA	266	51	10	170	6	30	266	
1997 Total	222	30	7	NA	259	40	10	172	7	30	259	
1998 Total	205	30	8	NA	242	36	9	160	8	30	242	
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	200	37	23	1	261	40	10	150	23	37	261	
2006 Total	198	36	31	2	267	37	9	151	33	38	267	
2007 Total	197	37	39	3	277	40	9	146	41	39	277	
2008 Total	192	40	55	3	289	42	10	140	57	40	289	
2009 January	15	3	5	(s)	23	3	1	11		3	23	
February	14	3	4	(s)	21	3	1	10	4	3	21	
March	15	4	5	(s)	23	3		10	5	3	23	
April	14	3	5	(s)	22	3	1	10	5	3	22	
May	14	3	5	(s)	23	3	1	10	5	3	23	
June	14	3	5	(s)	23	3	1	10	5	3	23	
July	15	4	6	(s)	25	3	1	11	6	4	25	
August	16	3	6	(s)	25	3	1	11	6	4	25	
September	15	3	5	(s)	24	3	1	11	6	3	24	
October	15	3	6	(s)	25	3	1	11	6	3	25	
November	15	4	6	(s)	24	3	1	11	6	3	24	
December	15	4	6	(s)	25	3	1	11	6	4	25	
Total	176	41	62	3	283	40	10	127	64	41	283	
2010 January	16	3	6	(s)	25	3	1	12	6	3	25	
February	14	3	5	(s)	23	3	1	11	5	3	23	
March	16	3	6	(s)	25	3	1	12	6	3	25	
April	15	3	6	(s)	25	3	1	11	6	3	25	
May	15	4	6	(s)	25	3	1	12	6	3	25	
June	16	3	6	(s)	25	3	1	12	6	3	25	
July	16	4	7	(S)	26	3	1	12	7	4	26	
August	16	4	7	(S)	26	3	1	12	7	4	26	
September	15	3	6	(S)	25	3	1	12	6	3	25	
October	15	3	7	(s)	25	3	1	12	7	3	25	
November	15	3	6	(s)	25	3	1	12	6	3	25	
December	16	4	7	(s)	26	3	1	12	7	4	26	
Total	186	41	75	2	304	39	10	139	75	41	304	
2011 January	16	3	6	(s)	25	3	1	12	6	3	25	
February	14	3	6	(s)	23	3	1	10	6	3	23	
March	15	3	6	(s)	25	3	1	11	6	3	25	
3-Month Total	45	10	1 8	1	73	10	2	33	18	10	73	
2010 3-Month Total	46	10	17	(s)	74	10	2	34	17	10	74	
2009 3-Month Total	43	10	13	(s)	67	10	2	31	13	10	67	

(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, agricultural byproducts, and other biomass.
 ^d Fuel ethanol minus denaturant.
 ^e Commercial sector, including commercial combined-heat-and-power (CHP) and commercial sector, including transf.
 ^f Industrial sector, including tomburget, combined-heat-and-power (CHP) and industrial electricity-only plants.

industrial electricity-only plants. 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. and

NA=Not available. (s)=Less than 0.5 million metric tons. Notes: • Carbon dioxide emissions from biomass energy consumption are excluded from the energy-related carbon dioxide emissions reported in Tables 12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "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 fossil-based petroleum denaturant, to make the fuel ethanol undrinkable. For 1993-2008, petroleum denaturant is double counted in the PSA product supplied statistics, in both the original product category-e.g., pentanes plus-and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

The following fuels have industrial nonfuel uses as chemical feedstocks and other products: coal, natural gas, asphalt and road oil, distillate fuel oil, liquefied petroleum gases (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene), lubricants (which have industrial and transportation nonfuel uses), naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, petroleum coke, residual fuel oil, special naphthas, still gas, waxes, and miscellaneous petroleum products. In the nonfuel use of these fuels, some of the carbon is sequestered, and is thus subtracted from the fuel consumption values in Steps 1 and 2.

Estimates of annual nonfuel use and associated carbon sequestration are developed by EIA using the methodology

detailed in "Documentation for *Emissions of Greenhouse Gases in the United States 2008*" at http://www.eia.gov/oiaf/1605/ggrpt/documentation/pdf/0638(2008).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—CO₂ emissions are calculated for each petroleum product. Total petroleum emissions are the sum of the product emissions. Total LPG emissions are the sum of the emissions for the component products (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene); residential, commercial, and transportation sector LPG emissions are estimated by multiplying consumption values in trillion Btu from MER Tables 3.8a and 3.8c by the propane emissions factor; industrial sector LPG emissions are estimated as total LPG emissions minus emissions by the other sectors.

Geothermal and Non-Biomass Waste—Annual 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—CO₂ 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.



Appendix

British Thermal Unit Conversion Factors

The thermal conversion factors presented in the following tables can be used to estimate the heat content in British thermal units (Btu) of a given amount of energy measured in physical units, such as barrels or cubic feet. For example, 10 barrels of asphalt has a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu per barrel = 66.36 million Btu).

The heat content rates (i.e., thermal conversion factors) provided in this section represent the gross (or higher or upper) energy content of the fuels. Gross heat content rates are applied in all Btu calculations for the *Monthly Energy Review* and are commonly used in energy calculations in the United States; net (or lower) heat content rates are typically used in European energy calculations. The difference between the two rates is the amount of energy that is consumed to vaporize water that is created during the combustion process. Generally, the difference ranges from 2 percent to 10 percent, depending on the specific fuel and its hydrogen content. Some fuels, such as unseasoned wood, can be more than 40 percent different in their gross

and net heat content rates. See "Heat Content" and "British Thermal Unit (Btu)" in the Glossary for more information.

Thermal conversion factors for hydrocarbon mixes (Table A1) are weighted averages of the thermal conversion factors for each hydrocarbon included in the mix. For example, in calculating the thermal conversion factor for a 60-40 butane-propane mixture, the thermal conversion factor for butane is weighted 1.5 times the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products (Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Pentanes Plus	4.620
Aviation Gasoline	5.048	Petrochemical Feedstocks	
Butane	4.326	Naptha Less Than 401°F	5.248
Butane-Propane Mixture ^a	4.130	Other Oils Equal to or Greater Than 401°F	5.825
Distillate Fuel Oil ^b	5.825	Still Gas	6.000
Ethane	3.082	Petroleum Coke	6.024
Ethane-Propane Mixture ^c	3.308	Plant Condensate	5.418
Isobutane	3.974	Propane	3.836
Jet Fuel, Kerosene Type	5.670	Residual Fuel Oil	6.287
Jet Fuel, Naphtha Type	5.355	Road Oil	6.636
Kerosene	5.670	Special Naphthas	5.248
Lubricants	6.065	Still Gas	6.000
Motor 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.

 $^\circ$ 70 percent ethane and 30 percent propane.

^d See Table A3 for motor gasoline weighted heat contents beginning in 1994, and for fuel ethanol heat contents.

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

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

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

Table A2. Approximate Heat Content of Petroleum Production, Imports, and Exports (Million Btu per Barrel)

	Production			Imports			Exports	
-	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total
1973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774
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
980	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	5.903	5.599	5.820	5.800	5.860	5.858
988	5.800 5.800	3.800 3.826	5.900 5.906	5.618 5.641	5.820 5.833	5.800 5.800	5.842 5.869	5.840 5.857
989								
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
996	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736
997	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
004	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
006	5.800	3.712	5.980	5.454	5.842	5.800	5.723	5.724
007	5.800	3.701	5.985	5.503	5.862	5.800	5.749	5.750
008	5.800	3.706	5.990	5.479	5.866	5.800	5.762	5.762
009	5.800	3.692	5.988	5.525	5.882	5.800	5.737	5.738
2010 ^P	5.800	3.677	5.989	5.566	5.896	5.800	5.696	5.698
2011 ^E	5.800	3.677	5.989	5.566	5.896	5.800	5.696	5.698

^a Includes lease condensate.

P=Preliminary. E=Estimate. Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary. Web 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	troleum ^a C	onsumption b	y Sector		Liquefied Petroleum	Motor		Fuel Ethanol		Biodiesel
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Gases Con- sumption ^f	Gasoline Con- sumption ^g	Fuel Ethanol ^h	Feed- stock Factor ⁱ	Biodiesel	Feed- stock Factor
1973	5.258	5.689	5.557	5.396	6.245	5.515	3.746	5.253	NA	NA	NA	NA
1973	5.253	5.683	5.525	5.394	6.238	5.504	3.730	5.253	NA	NA	NA	NA
1975	5.253	5.649	5.513	5.392	6.250	5.494	3.715	5.253	NA	NA	NA	NA
1976	5.277	5.672	5.523	5.396	6.251	5.504	3.711	5.253	NA	NA	NA	NA
1977	5.285	5.682	5.539	5.401	6.249	5.518	3.677	5.253	NA	NA	NA	NA
1978	5.287	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
1984	5.307	5.657	5.207	5.418	6.251	5.395	3.599	5.253	3.563	6.492	NA	NA
1985	5.263	5.598	5.199	5.423	6.247	5.387	3.603	5.253	3.563	6.469	NA	NA
1986	5.268	5.632	5.269	5.426	6.257	5.418	3.640	5.253	3.563	6.446	NA	NA
1987	5.239	5.594	5.233	5.429	6.249	5.403	3.659	5.253	3.563	6.423	NA	NA
1988	5.257	5.597	5.228	5.433	6.250	5.410	3.652	5.253	3.563	6.400	NA	NA
1989	5.194	5.549	5.219	5.438	^d 6.240	5.410	3.683	5.253	3.563	6.377	NA	NA
1990	5.145	5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA	NA
1991	5.094	5.528	5.167	5.441	6.246	5.384	3.614	5.253	3.563	6.332	NA	NA
1992	5.124	5.513	5.168	5.443	6.238	5.378	3.624	5.253	3.563	6.309	NA	NA
1993	5.102	^b 5.505	^b 5.178	^b 5.436	6.230	^b 5.379	3.606	5.253	3.563	6.287	NA	NA
1994	5.098	5.515	5.150	5.424	6.213	5.361	3.635	^f 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	4.998	5.433	5.114	5.420	6.195	5.336	3.613	5.216	3.563	6.220	NA	NA
1997	4.989	5.391	5.120	5.416	6.199	5.336	3.616	5.213	3.563	6.198	NA	NA
1998	4.975	5.365	5.137	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA	NA
1999	4.902	5.291	5.092	5.413	6.205	5.328	3.616	5.211	3.563	6.167	NA	NA
2000	4.908	5.316	5.057	5.422	6.189	5.326	3.607	5.210	3.563	6.159	NA	NA
2001	4.937	5.325	5.142	5.412	6.199	5.345	3.614	5.210	3.563	6.151	5.359	5.433
2002	4.886	5.293	5.093	5.411	6.173	5.324	3.613	5.208	3.563	6.143	5.359	5.433
2003	4.907	5.307	5.142	5.409	6.182	5.340	3.629	5.207	3.563	6.116	5.359	5.433
2004	4.953	5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	5.433
2005	4.916	5.364	5.178	5.427	6.188	5.365	3.620	5.218	3.563	6.063	5.359	5.433
2006	4.894	5.310	5.160	5.431	6.143	5.353	3.605	5.218	3.563	6.036	5.359	5.433
2007	4.850	5.298	5.127	5.434	6.151	5.346	3.591	5.219	3.563	6.009	5.359	5.433
2008	4.732	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	^E 4.701	^E 5.280	^E 5.014	^E 5.420	^P 6.085	^P 5.300	^P 3.558	^P 5.218	^P 3.561	5.930	5.359	5.433
2011	^E 4.701	^E 5.280	^E 5.014	^E 5.420	^E 6.085	^E 5.300	^E 3.558	^E 5.218	^E 3.561	5.904	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.

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.

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

factor—quantity-weighted averages of the major components of motor gasoline, including fuel ethanol, are calculated by using heat content values shown in Table A3. ^h Includes denaturant (petroleum added to ethanol to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The factor for 2009 is used as the estimated factor for 1980-2008.

¹ Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the production of undenatured ethanol. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

^j Soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel), used as the factor to estimate total biomass inputs to the production of biodiesel. It is assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. Soybean oil is assumed to have a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel. Biodiesel is assumed to have a gross heat content of 17,253 Btu per pound, or 5.359 million Btu per barrel.

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/monthly/#appendices.

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

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Produ	ction		Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
974	1,097	1,024	1,024	1,022	1,024	1,027	1,016
975	1,095	1,021	1,020	1,026	1,021	1,026	1,014
976	1,093	1,020	1,019	1,023	1,020	1,025	1,013
77	1,093	1,021	1,019	1,029	1,021	1,026	1,013
78	1,088	1,019	1,016	1,034	1,019	1,030	1,013
79	1,092	1,021	1,018	1,035	1,021	1,037	1,013
80	1,098	1,026	1,024	1,035	1,026	1,022	1,013
81	1,103	1,027	1,025	1,035	1,027	1,014	1,010
82	1,107	1,028	1,026	1,036	1,028	1,018	1,011
83	1,115	1,031	1,031	1,030	1,031	1,024	1,010
)84	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	1,010
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1,112	1,030	1,023	1,032	1,030	999	1,000
88	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1,103	1,023	1,023	^c 1,028	1,023	1,002	1,010
90	1,105	1,029	1,030	1,027	1,029	1,012	1,018
90	1,103	1,029	1,030	1,025	1,029	1,012	1,018
992	1,110	1,030	1,031	1,025	1,030	1,011	1,022
992	1,106	1,027	1,028	1,025	1,030	1,020	1,018
93	1,105	1,027	1,028	1,025	1,027	1,020	1,010
995	1,105	1,028	1,029	1,025	1,028	1,022	1,011
996 997	1,109 1,107	1,026 1,026	1,027 1,027	1,020 1,020	1,026	1,022 1,023	1,011 1,011
					1,026		
98	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
	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
02	1,106	1,027	1,029	1,020	1,027	1,022	1,008
003	1,106	1,028	1,029	1,025	1,028	1,025	1,009
04	1,104	1,026	1,026	1,027	1,026	1,025	1,009
05	1,104	1,028	1,028	1,028	1,028	1,025	1,009
06	1,103	1,028	1,028	1,028	1,028	1,025	1,009
	1,104	1,029	1,030	1,027	1,029	1,025	1,009
800	1,100	1,027	1,027	1,027	1,027	1,025	1,009
009	_1,101	_1,025	1,025	1,025	1,025	1,025	_1,009
010	^E 1,101	^E 1,024	^E 1,025	P1,022	^E 1,024	^E 1,025	^E 1,009
)11	^E 1,101	^E 1,024	^E 1,025	^E 1,022	^E 1,024	^E 1,025	^E 1,009

^a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels.

^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
1977	22.597	NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1978	22.248	NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979	22.454	NA	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1980	22.415	NA	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800
1981	22.308	NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1982	22.239	NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
1983	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984	22.002	NA	22.844	26.799	22.543	21.100	21.573	25.000	26.402	24.800
1985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986	21.913	NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	21.913	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.292	24.800
1988	21.823	NA	23.571	26.799	22.361	20.900	21.317	25.000	26.291	24.800
1989	21.765	^b 10.391	23.650	26.800	22.300	^d 20.898	21.307	25.000	26.160	24.800
1989	21.822	9.303	23.050	26.799	22.347	20.898	21.307	25.000	26.202	24.800
1991	21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
1992	21.682	10.396	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800
1993	21.418	10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800
1994	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	23.118	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996	21.322	12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
1997	21.296	12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
1998	21.418	12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999	21.070	12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000	21.072	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
2006	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	19.969	11.862	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010 ^P	20.192	11.755	21.254	26.296	21.909	19.612	19.858	25.000	25.713	24.800
2011 ^E	20.192	11.755	21.254	26.296	21.909	19.612	19.858	25.000	25.713	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 ^c 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 Electric power 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/monthly/#appendices. Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity

	Approximate I			
	Fossil Fuels ^{b,c}	Nuclear ^d	Geothermal ^e	Heat Content ^f of Electricity ^g
973	10.389	10.903	21.674	3.412
1973	10,389	11,161	21,674	3,412
975	10,442	11.013	21,674	3,412
	10,406	11,047	<i>y</i> -	3,412
976			21,611	,
977	10,435	10,769	21,611	3,412
978	10,361	10,941	21,611	3,412
979	10,353	10,879	21,545	3,412
980	10,388	10,908	21,639	3,412
981	10,453	11,030	21,639	3,412
982	10,454	11,073	21,629	3,412
983	10,520	10,905	21,290	3,412
984	10,440	10,843	21,303	3,412
985	10,447	10,622	21,263	3,412
986	10,446	10,579	21,263	3,412
987	10,419	10,442	21,263	3,412
988	10,324	10,602	21,096	3,412
989	10,432	10,583	21,096	3,412
990	10,402	10,582	21,096	3,412
991	10,436	10,484	20,997	3,412
992	10,342	10,471	20,914	3,412
993	10,309	10,504	20,914	3,412
994	10,316	10,452	20,914	3,412
995	10,312	10,507	20,914	3,412
996	10,340	10,503	20,960	3.412
997	10,213	10,494	20,960	3,412
998	10,197	10,491	21,017	3.412
999	10,226	10,450	21,017	3.412
000	10,201	10,429	21.017	3,412
001	^c 10.333	10.443	21.017	3.412
002	10,173	10,442	21.017	3.412
003	10,241	10,421	21.017	3.412
004	10.022	10,427	21.017	3.412
005	9,999	10,436	21,017	3,412
006	9,939	10,436	21,017	3,412
007	9,884	10,485	21,017	3,412
	9,8854	10,485	,	, ,
008			21,017	3,412
009	9,760	10,460 E 40,400	21,017 F 21,017	3,412
010	^E 9,760	E 10,460	E 21,017	3,412
011	^E 9,760	^E 10,460	^E 21,017	3,412

(Btu per Kilowatthour)

^a The values in columns 1–3 of this table are for net heat rates. See "Heat Rate" in Glossary.

^b Used as the thermal conversion factor for hydro, geothermal, solar thermal/photovoltaic, and wind electricity net generation to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste at electric utilities are available from surveys.

^c Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and electricity-only independent power producers.

^d Used as the thermal conversion factor for nuclear electricity net generation.

e Technology-based thermal conversion factors for geothermal electricity net generation. Beginning with the April 2011 Monthly Energy Review, the technology-based geothermal heat rates are no longer used in Btu calculations in this report, but they are retained on this table for purposes of comparison.

^f See "Heat Content" in Glossary.

^g 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.

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

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

Beginning with the April 2011 *Monthly Energy Review*, the fossil-fuels heat rates are used as the thermal conversion factors for geothermal electricity net generation in order to treat geothermal electricity net generation similarly to electricity net generation from other non-combustible renewable energy sources – hydroelectric power, wind, photovoltaic, and solar thermal energy. **The technology-based geothermal heat rates are no longer used in Btu calculations in this report**.

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 **Petroleum Products Exports**.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume 3, 1977*.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume 2, 1981*.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of Biofuels

Biodiesel. EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, or 17,253 Btu per pound.

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds

of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). 1981–2008: 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, Fossil-Fueled Plants. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydroelectric power, wind, photovoltaic, solar thermal, and geothermal energy. 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. By using that factor, it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu. 1973–1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 9. 1989–2000: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steamelectric plants using fossil fuels. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for all electric utilities and electricityonly independent power producers using fossil fuels.

Electricity Net Generation, Geothermal Energy Plants. 1973–1981: Calculated annually by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12, "Power System Statement." 1982 forward: Estimated annually by EIA on the basis of an informal survey of relevant plants. Beginning with the April 2011 *Monthly Energy Review*, the technology-based geothermal

heat rates are no longer used in Btu calculations in this report, but they are retained on Table A6 for purposes of comparison.

Electricity Net Generation, Nuclear Plants. 1973–1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1, "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms), and the generation reported on Form EIA-923, "Power Plant Operations Report" (and predecessor forms).



Appendix

Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other U.S. Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
111233	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (Ib U_3O_8)	=	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
	Tource, avoiroupois (avop oz)	-	20.349 52	granis (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m ³)
	1 cubic yard (yd ³)	=	0.764 555	cubic meters (m ³)
	1 cubic foot (ft ³)	=	0.028 316 85	cubic meters (m ³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in ³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
0	1 yard (yd)	=	0.914 4ª	meters (m)
	1 foot (ft)	=	0.304 8ª	meters (m)
	1 inch (in)	=	2.54ª	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km ²)
	1 square yard (yd ²)	=	0.836 127 4	square meters (m ²)
	1 square foot (ft ²)	=	0.092 903 04ª	square meters (m ²)
	1 square inch (in ²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu) ^c	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8ª	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	0ª	degrees Celsius (°C)
·	212 degrees Fahrenheit (°F)	=	100ª	degrees Celsius (°C)

Table B1. Metric Conversion Factors

^aExact conversion.

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

^cThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. ^dTo convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

Web Page: http://www.eia.gov/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.

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 sov 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 ther-mal 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.

City Gate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term **"global warming"**; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See **Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal,** and **Coal Synfuel**.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke, Coal**.

Combined-Heat-and-Power (**CHP**) **Plant:** A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious,

social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see http://www.eia.gov/neic/datadefinitions/Guideforwebcom.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 **hydroe-lectric 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 megawat-thours (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 geothermal plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and 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 geothermal plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; and biofuels feedstock.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C_3H_6) recovered from refinery or petrochemical processes.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials, hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished **petroleum products** produced at a **refinery** or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to **unfinished oils** or blending components.

Refinery (**Petroleum**): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the **fossil fuels**, of which there is a finite supply). Renewable sources of energy include **conventional hydrolectric power**, **biomass**, **geothermal**, **solar**, and **wind**.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. *Note:* Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.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.