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U.S. Energy Information Administration Independent Statistics and Analysis

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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Monthly Energy Review March 2010

U.S. Energy Information Administration Office of Energy Markets and End Use

U.S. Department of Energy Washington, DC 20585

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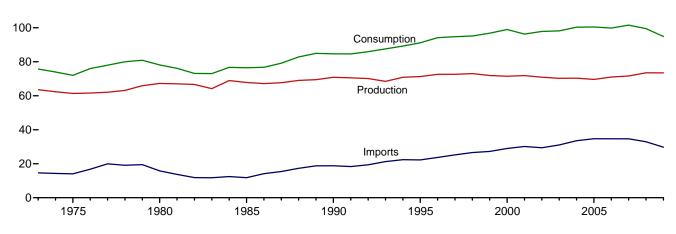
Energy Overview



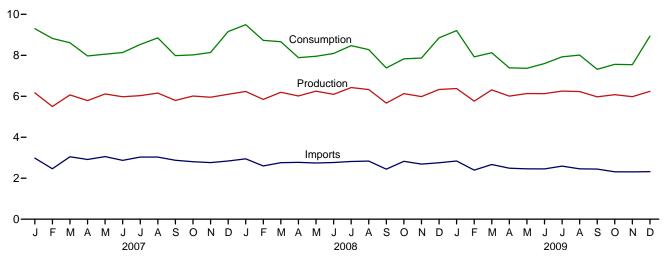
The continental United States at night from orbit. Source: National Oceanic and Atmospheric Administration satellite imagery; mosaic provided by U.S. Geological Survey.

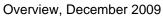
Figure 1.1 Primary Energy Overview (Quadrillion Btu)

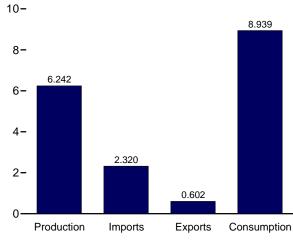
Consumption,	Production,	and Imports,	1973-2009
120-			



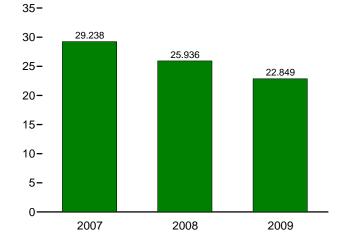
Consumption, Production, and Imports, Monthly







Net Imports, January-December



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

Table 1.1 Primary Energy Overview

(Quadrillion Btu)

		Produ	uction			Trade		0 1111		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
1973 Total	58.241	0.910	4.433	63.585	14.613	2.033	12.580	-0.456	70.316	0.910	4.433	75.708
1975 Total	54.733	1.900	4.723	61.357	14.032	2.323	11.709	-1.067	65.355	1.900	4.723	71.999
1980 Total	59.008	2.739	5.485	67.232	15.796	3.695	12.101	-1.212	69.826	2.739	5.485	78.122
1985 Total	57.539	4.076	^R 6.185	R 67.799	11.781	4.196	7.584	1.107	66.091	4.076	R 6.185	R 76.491
1990 Total	58.560	6.104	^R 6.206	^R 70.870	18.817	4.752	14.065	283	72.333	6.104	^R 6.206	^R 84.651
1995 Total	57.540	7.075	^R 6.701	^R 71.316	22.260	4.511	17.750	R 2.103	R 77.257	7.075	R 6.703	^R 91.169
1996 Total	58.387	7.087	^R 7.165	^R 72.639	23.702	4.633	19.069	^R 2.465	^R 79.782	7.087	^R 7.166	^R 94.172
1997 Total	58.857	6.597	^R 7.177	^R 72.631	25.215	4.514	20.701	^R 1.429	80.874	6.597	^R 7.175	^R 94.761
1998 Total	59.314	7.068	^R 6.655	^R 73.037	26.581	4.299	22.281	^R 140	^R 81.369	7.068	^R 6.654	^R 95.178
1999 Total	57.614	7.610	^R 6.678	^R 71.903	27.252	3.715	23.537	^R 1.372	^R 82.427	7.610	^R 6.677	^R 96.812
2000 Total	57.366	7.862	^R 6.257	^R 71.485	28.973	4.006	24.967	^R 2.517	^R 84.732	7.862	^R 6.260	^R 98.970
2001 Total	58.541	8.029	^R 5.312	^R 71.883	30.157	3.770	26.386	^R -1.953	^R 82.902	8.029	^R 5.311	^R 96.316
2002 Total	56.894	8.145	^R 5.892	^R 70.931	29.407	3.668	25.739	^R 1.183	^R 83.749	8.145	^R 5.888	^R 97.853
2003 Total	56.157	7.959	^R 6.139	^R 70.254	31.061	4.054	27.007	^R .937	^R 84.076	7.959	^R 6.141	_ ^R 98.198
2004 Total	55.914	8.222	^R 6.235	^R 70.371	33.543	4.433	29.110	R.855	^R 85.828	8.222	^R 6.247	^R 100.336
2005 Total	55.056	8.161	^R 6.393	^R 69.610	34.710	4.561	30.149	^R .708	^R 85.815	8.161	^R 6.406	^R 100.467
2006 Total	55.968	8.215	^R 6.834	^R 71.018	34.673	4.868	29.805	^R 973	^R 84.687	8.215	^R 6.885	^R 99.850
2007 January	^R 4.775	.776	^R .616	^R 6.168	2.982	.447	2.536	^R .595	^R 7.895	.776	^R .621	^R 9.299
February	^R 4.308	.684	^R .509	^R 5.501	2.463	.349	2.114	^R 1.207	^R 7.616	.684	^R .512	8.821
March	^R 4.794	.674	^R .596	^R 6.064	3.046	.420	2.626	^R 077	^R 7.334	.674	^R .599	^R 8.613
April	^R 4.600	.601	^R .587	^R 5.787	2.914	.416	2.498	^R 317	^R 6.771	.601	^R .586	^R 7.968
May	^R 4.816	.682	^R .614	^R 6.112	3.056	.448	2.608	^R 666	^R 6.747	.682	^R .614	^R 8.054
June	^R 4.677	.723	^R .576	^R 5.976	2.871	.423	2.448	^R 290	^R 6.822	.723	^R .578	_ 8.134
July	^R 4.685	.763	R.583	^R 6.031	3.030	.498	2.532	^R 034	^R 7.171	.763	^R .582	^R 8.529
August	^R 4.828	.763	^R .563	^R 6.154	3.033	.475	2.558	^R .139	7.513	.763	^R .563	^R 8.851
September	^R 4.585	.709	^R .504	^R 5.797	2.877	.436	2.442	^R 256	^R 6.766	.709	^R .503	^R 7.982
October	^R 4.843	.647	^R .523	^R 6.012	2.806	.439	2.367	^R 362	^R 6.838	.647	^R .526	^R 8.017
November	R 4.747	.680	^R .525	^R 5.953	2.765	.559	2.206	^R 022	^R 6.925	.680	^R .523	^R 8.137
December Total	^R 4.770 ^R 56.428	.755 8.455	^R .571 ^R 6.767	^R 6.095 ^R 71.650	2.841 34.685	.538 5.448	2.303 29.238	^R .761 ^R .678	^R 7.825 ^R 86.223	.755 8.455	^R .573 ^R 6.780	^R 9.160 ^R 101.565
2009 Jonuary	^R 4.875	.739	^R .618	^R 6.233	2.947	.537	2 410	^R .852	^R 8.129	.739	^R .615	^R 9.494
2008 January	^R 4.607	.681	^R .561	^R 5.848	2.947		2.410	R.808	^R 7.476	.739	^R .560	^R 8.728
February	^R 4.894	.676	^R .624	^R 6.195	2.000	.528 .608	2.071 2.151	^R .316	^R 7.361	.676	.500 ^R .617	^R 8.662
April	^R 4.791	.599	^R .626	^R 6.016	2.739	.591	2.131	^R 314	^R 6.651	.599	R.625	^R 7.885
May	^R 4.886	.678	^R .688	^R 6.251	2.742	.622	2.100	^R 421	^R 6.581	.678	R.684	^R 7.950
June	^R 4.664	.735	^R .694	^R 6.093	2.766	.622	2.144	^R - 147	^R 6.653	.735	^R .693	^R 8.090
July	^R 4.984	.777	^R .665	^R 6.426	2.816	.606	2.210	^R - 166	^R 7.013	.777	R.665	^R 8.469
August	^R 4.951	.759	^R .618	^R 6.328	2.836	.584	2.251	^R 303	^R 6.886	.759	^R .617	^R 8.277
September	^R 4.416	.701	^R .551	^R 5.668	2.443	.516	1.927	^R 214	^R 6.117	.701	R.552	^R 7.380
October	^R 4.900	^R .657	^R .572	^R 6.129	2.825	.589	2.236	^R 536	^R 6.592	^R .657	^R .574	^R 7.829
November	^R 4.748	.663	^R .572	^R 5.983	2.689	.593	2.096	^R 213	^R 6.628	.663	^R .570	^R 7.865
December	^R 4.935	.762	^R .636	^R 6.333	2.756	.619	2.137	^R .382	^R 7.443	.762	^R .639	^R 8.852
Total	^R 57.649	8.427	^R 7.425	^R 73.501	32.952	7.016	25.936	^R .044	^R 83.532	8.427	^R 7.410	^R 99.481
2009 January	4.953	.768	^R .656	^R 6.376	^R 2.842	^R .592	^R 2.250	^R .580	^R 7.778	.768	^R .653	^R 9.206
February	^R 4.528	.671	^R .564	^R 5.763	^R 2.396	^R .500	^R 1.896	^R .267	^R 6.692	.671	^R .554	^R 7.926
March	^R 4.966	.700	^R .645	^R 6.311	^R 2.669	^R .556	^R 2.113	^R 302	^R 6.773	.700	^R .646	^R 8.122
April	4.720	.618	^R .668	^R 6.006	^R 2.490	^R .505	^R 1.985	^R 607	^R 6.089	.618	^R .671	^R 7.385
	^R 4.740	.682	^R .712	^R 6.134	^R 2.458	^R .534	^R 1.924	^R 692	^R 5.960	.682	^R .715	^R 7.366
June	^R 4.701	.726	^R .702	^R 6.129	^R 2.452	^R .562	^R 1.890	^R 423	^R 6.156	.726	^R .703	^R 7.596
July	^R 4.830	.763	^R .659	^R 6.252	^R 2.591	^R .616	^R 1.975	^R 301	^R 6.491	.763	^R .659	^R 7.926
August	^R 4.843	.755	^R .633	^R 6.231	^R 2.457	^R .593	^R 1.865	^R 084	^R 6.609	.755	^R .632	^R 8.012
September	^R 4.697	.689	^R .584	^R 5.971	^R 2.448	^R .597	^R 1.851	^R 507	^R 6.032	.689	^R .583	^R 7.315
October	^R 4.831	.603	^R .642	^R 6.077	^R 2.312	^R .643	^R 1.669	^R 187	^R 6.301	.603	^R .643	^R 7.558
November	^R 4.704	^R .617	^R .658	^R 5.980	^R 2.309	^R .595	^R 1.714	^R 153	^R 6.261	^R .617	^R .654	^R 7.541
December	4.798	.736	.708	6.242	2.320	.602	1.717	.979	7.489	.736	.702	8.939
Total	57.311	8.328	7.833	73.472	29.744	6.895	22.849	-1.429	78.631	8.328	7.815	94.892

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

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

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.

Coal, coal coke net imports, natural gas, and petroleum. f

Also includes electricity net imports.

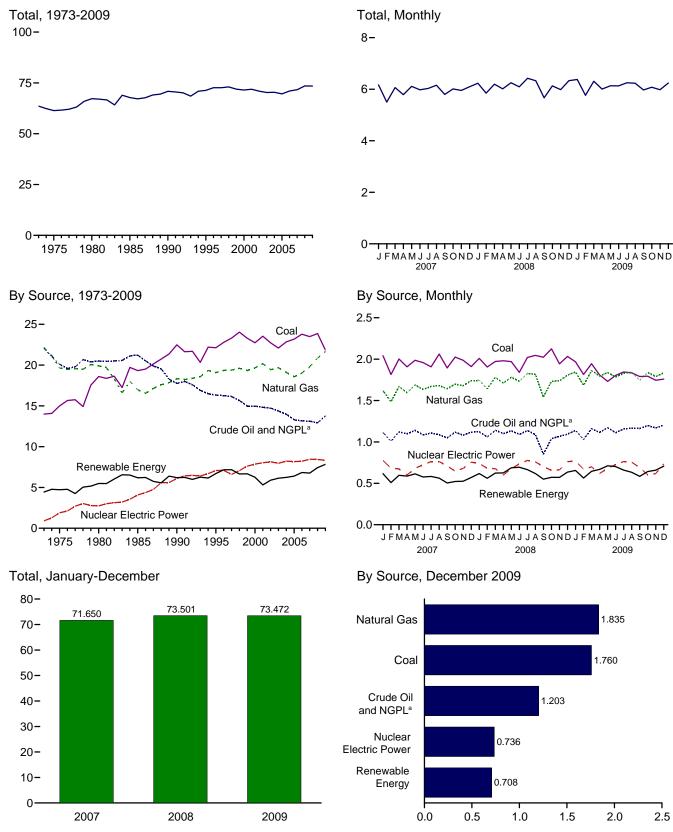
R=Revised.

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.doe.gov/emeu/mer/overview.html for all available

data beginning in 1973. Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports. • Consumption: Table 1.3.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids.

Web Page: http://www.eia.doe.gov/emeu/mer/overview.html Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

(Quadrillion Btu)

		Fo	ssil Fuels						Renewabl	e Energy ^a			
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1072 Total	13.992	22 107	10 402	2 560	50 244	0.010	2 964	0.042	NA	NA	1 5 2 0	4 422	62 696
1973 Total 1975 Total	13.992	22.187 19.640	19.493 17.729	2.569 2.374	58.241 54.733	0.910 1.900	2.861 3.155	0.043 .070	NA NA	NA NA	1.529 1.499	4.433 4.723	63.585 61.357
1980 Total	14.505	19.908	18.249	2.254	59.008	2.739	2.900	.110	NA	NA	2.475	5.485	67.232
1985 Total	19.325	16.980	18.992	2.234	57.539	4.076	2.900	.198	(s)	(s)	R 3.016	^R 6.185	^R 67.799
1990 Total	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.336	.060	.029	^R 2.735	^R 6.206	^R 70.870
1995 Total	22.130	19.082	13.887	2.442	57.540	7.075	3.205	.294	.070	.023	R 3.099	^R 6.701	^R 71.316
1996 Total	22.790	19.344	13.723	2.530	58.387	7.087	3.590	.316	.071	.033	^R 3.155	^R 7.165	^R 72.639
1997 Total	23.310	19.394	13.658	2.495	58.857	6.597	3.640	.325	.070	.034	^R 3.103	^R 7.177	^R 72.631
1998 Total	24.045	19.613	13.235	2.420	59.314	7.068	3.297	.328	.070	.034	^R 2.929	^R 6.655	^R 73.037
1999 Total	23.295	19.341	12.451	2.528	57.614	7.610	3.268	.331	.069	.046	R 2.965	^R 6.678	^R 71.903
2000 Total	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.317	.066	.040	^R 3.006	^R 6.257	^R 71.485
2001 Total	23.547	20.166	12.330	2.547	58.541	8.029	2.242	.311	.065	.070	^R 2.624	^R 5.312	^R 71.883
2002 Total	22.732	19.439	12.163	2.559	56.894	8.145	2.689	.328	.064	.105	R 2.705	^R 5.892	^R 70.931
2002 Total	22.094	19.439	12.103	2.339	56.157	7.959	2.825	.320	.064	.105	R 2.805	^R 6.139	^R 70.254
2003 Total	22.054	19.091	11.503	2.340	55.914	8.222	2.625	.341	.065	.142	^R 2.998	^R 6.235	^R 70.371
2005 Total	23.185	18.574	10.963	2.334	55.056	8.161	2.703	.341	.065	.142	^R 3.104	^R 6.393	^R 69.610
2006 Total	23.790	19.022	10.801	2.356	55.968	8.215	2.869	.343	.072	.264	^R 3.286	^R 6.834	^R 71.018
	0.044	R 4 000	004	100	R 4 775	770	057	004		004	R cor	Rote	
2007 January	2.041	^R 1.620	.921	.192	^R 4.775	.776	.257	.031	.006	.024	^R .297	^R .616	^R 6.168
February	1.814	^R 1.484	.832	.177	^R 4.308	.684	.184	.027	.006	.025	^R .268	^R .509	^R 5.501
March	2.002	^R 1.670	.918	.204	^R 4.794	.674	.239	.029	.007	.030	^R .292	^R .596	^R 6.064
April	1.907	^R 1.595	.903	.195	^R 4.600	.601	.236	.028	.007	.031	^R .285	^R .587	^R 5.787
May	1.986	^R 1.689	.934	.206	^R 4.816	.682	.257	.028	.007	.029	^R .293	^R .614	^R 6.112
June	1.959	^R 1.634	.887	.198	^R 4.677	.723	.226	.029	.007	.026	^R .288	^R .576	^R 5.976
July	1.907	^R 1.670	.903	.205	^R 4.685	.763	.222	.030	.007	.021	^R .302	^R .583	^R 6.031
August	2.062	^R 1.680	.883	.203	^R 4.828	.763	.197	.030	.007	.027	^R .302	^R .563	^R 6.154
September	1.894	^R 1.642	.850	.199	^R 4.585	.709	.146	.029	.007	.028	^R .294	^R .504	^R 5.797
October	2.025	R 1.700	.907	.211	^R 4.843	.647	.146	.030	.007	.033	^R .306	^R .523	^R 6.012
November	1.986	^R 1.679	.873	.209	R 4.747	.680	.155	.029	.006	.031	^R .304	^R .525	^R 5.953
December Total	1.910 23.493	^R 1.741 ^R 19.805	.909 10.721	.210 2.409	^R 4.770 ^R 56.428	.755 8.455	.181 2.446	.030 .349	.006 .081	.034 .341	^R .319 ^R 3.550	^R .571 ^R 6.767	^R 6.095 ^R 71.650
2008 January	^R 2.009	^R 1.743	.917	.206	^R 4.875	.739	^R .205	.029	.007	^R .042	^R .335	^R .618	^R 6.233
February	1.905	^R 1.642	.862	.198	^R 4.607	.681	^R .185	^R .027	.007	^R .038	^R .304	^R .561	^R 5.848
March	^R 1.972	^R 1.781	.926	.215	^R 4.894	.676	^R .214	.030	.008	^R .047	^R .325	^R .624	^R 6.195
April	1.980	^R 1.710	.890	.210	^R 4.791	.599	^R .219	^R .030	.008	^R .051	^R .318	^R .626	^R 6.016
May	^R 1.970	^R 1.782	.917	.217	^R 4.886	.678	^R .268	031	.008	^R .053	328	^R .688	^R 6.251
June	1.840	^R 1.732	.887	.204	^R 4.664	.735	^R .288	^R .030	.008	^R .051	^R .317	^R .694	^R 6.093
July	^R 2.020	^R 1.827	.923	.214	^R 4.984	.777	^R .252	.031	.008	^R .039	^R .335	^R .665	^R 6.426
August	^R 2.046	^R 1.817	.880	.208	^R 4.951	.759	^R .209	.031	.008	^R .032	^R .338	^R .618	^R 6.328
September	2.023	^R 1.541	.684	.168	^R 4.416	.701	^R .159	.030	.008	^R .031	R.323	^R .551	^R 5.668
October	^R 2.125	^R 1.734	.840	.201	^R 4.900	^R .657	^R .152	.031	.008	^R .047	^R .334	^R .572	^R 6.129
November	^R 1.943	^R 1.737	.874	.193	^R 4.748	.663	^R .154	.030	.007	^R .049	^R .331	^R .572	^R 5.983
December	^R 2.033	^R 1.808	.909	.185	^R 4.935	.762	^R .206	^R .031	.007	^R .065	R.327	^R .636	^R 6.333
Total	R 23.867	^R 20.854	10.509	2.419	^R 57.649	8.427	^R 2.511	^R .360	.091	^R .546	^R 3.916	^R 7.425	^R 73.501
2009 January	1.968	^E 1.845	^E .943	^R .197	4.953	.768	^R .235	^R .032	.007	^R .059	^R .323	^R .656	^R 6.376
February	^R 1.816	^E 1.684	E.843	^R .185	^R 4.528	.671	^R .176	^R .029	.007	^R .056	^R .296	^R .564	^R 5.763
March	1.945	E 1.862	E.948	^R .212	^R 4.966	.700	^R .214	^R .032	.008	^R .068	^R .324	^R .645	^R 6.311
April	1.810	E 1.795	E.910	^R .205	4.720	.618	^R .250	^R .029	.008	^R .072	R.309	^R .668	^R 6.006
May	1.732	E 1.837	E.950	R.221	^R 4.740	.682	R .290	^R .030	.008	^R .060	R.324	R.712	^R 6.134
June	1.803	E 1.786	E.902	^R .210	^R 4.701	.726	R.287	R.030	.008	^R .053	R.324	R.702	^R 6.129
July	1.846	E 1.828	E.941	.216	^R 4.830	.763	R.226	R.031	.008	^R .046	R.348	R.659	^R 6.252
August	1.835	E 1.841	E.950	R.217	^R 4.843	.755	R.189	.030	.008	^R .052	.354	R.633	^R 6.231
September	1.791	E 1.744	E.947	^R .215	^R 4.697	.689	^R .170	R.030	.008	R.043	R.334	^R .584	^R 5.971
October	^R 1.794	E 1.839	E.975	R.223	^R 4.831	.603	^R .194	^R .031	.008	^R .062	^R .348	^R .642	^R 6.077
November	^R 1.745	^{RE} 1.789	E.951	R.223	^R 4.704	^R .617	R.206	^R .031	.000	R.063	^R .351	R.658	^R 5.980
December	1.760	E 1.835	E.982	.210	4.798	.736	.200	.032	.007	.062	.363	.708	6.242
Total	21.844	E 21.686	E 11.241	2.541	57.311	8.328	2.682	.366	.007 .091	.002 .697	3.997	7.833	73.472
	21.044	21.000	11.241	2.341	57.511	0.320	2.002	.500	.031	.097	3.331	1.000	13.412

^a Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation. ^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also

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

^c Includes lease condensate.

^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

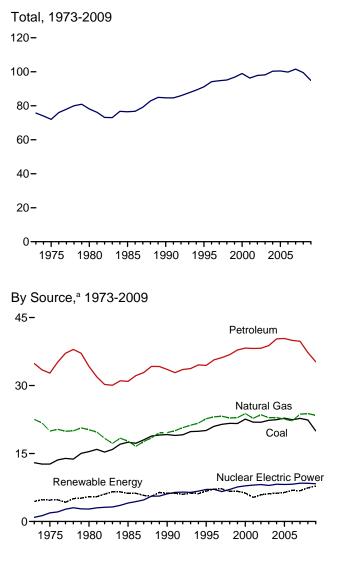
sum of components due to independent rounding. . Geographic coverage is the 50 States and the District of Columbia.

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

data beginning in 1973.
 Sources: • Coal: Tables 6.1 and A5. • Natural Gas (Dry): Tables 4.1 and A4. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1 and A2.
 Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate).

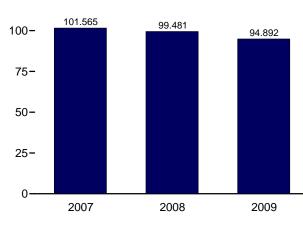
• Renewable Energy: Table 10.1.

Figure 1.3 Primary Energy Consumption (Quadrillion Btu)

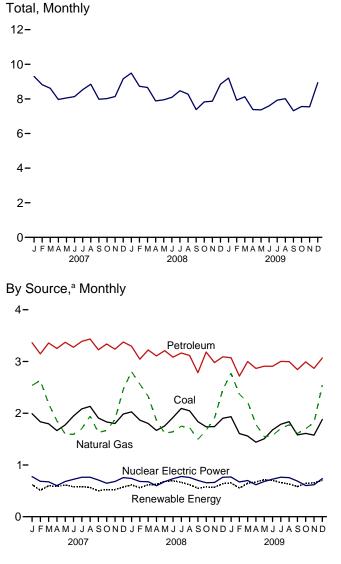


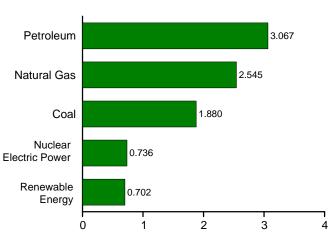


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^a Small quantities of net imports of coal coke and electricity are not shown. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.





By Source,^a December 2009

Source: Table 1.3.

Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

		Fossi	I Fuels					Renewable	e Energy ^a			
	Coal	Natural Gas ^b	Petro- leum ^c	Totald	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total ^f
1973 Total	12.971	22.512	34.840	70.316	0.910	2.861	0.043	NA	NA	1.529	4.433	75.708
1975 Total	12.663	19.948	32.731	65.355	1.900	3.155	.070	NA	NA	1.499	4.723	71.999
1980 Total	15.423	20.235	34.202	69.826	2.739	2.900	.110	NA	NA	2.475	5.485	78.122
1985 Total	17.478	17.703	30.922	66.091	4.076	2.970	.198	(s)	(s)	^R 3.016	^R 6.185	R 76.491
1990 Total	19.173	19.603	33.553	72.333	6.104	3.046	.336	.060	.029	R 2.735	^R 6.206	R 84.651
1995 Total	20.089	22.671	R 34.436	R 77.257	7.075	3.205	.294	.070	.033	^R 3.101	^R 6.703	^R 91.169
1996 Total	21.002	23.085	35.673	R 79.782	7.087	3.590	.316	.071	.033	^R 3.157	^R 7.166	^R 94.172
1997 Total	21.445	23.223	R 36.159	80.874	6.597	3.640	.325	.070	.034	^R 3.105	^R 7.175	^R 94.761
1998 Total	21.656	22.830	R 36.816	R 81.369	7.068	3.297	.328	.070	.031	R 2.928	^R 6.654	^R 95.178
1999 Total	21.623	22.909	R 37.837	R 82.427	7.610	3.268	.331	.069	.046	R 2.963	^R 6.677	R 96.812
2000 Total	22.580	23.824	R 38.263	R 84.732	7.862	2.811	.317	.066	.057	R 3.008	^R 6.260	^R 98.970
2001 Total	21.914	22.773	R 38.185	R 82.902	8.029	2.242	.311	.065	.070	R 2.622	^R 5.311	^R 96.316
2002 Total	21.904	23.558	R 38.225	^R 83.749	8.145	2.689	.328	.064	.105	R 2.701	^R 5.888	R 97.853
2003 Total	22.321	22.897	R 38.808	R 84.076	7.959	2.825	.331	.064	.115	R 2.807	^R 6.141	^R 98.198
2004 Total	22.466	22.931	R 40.292	R 85.828	8.222	2.690	.341	.065	.142	^R 3.010	^R 6.247	R 100.336
2005 Total	22.797	22.583	R 40.391	R 85.815	8.161	2.703	.343	.066	.178	^R 3.117	^R 6.406	R 100.467
2006 Total	22.447	22.224	^R 39.955	^R 84.687	8.215	2.869	.343	.072	.264	^R 3.337	^R 6.885	^R 99.850
2007 January	1.991	^R 2.538	3.363	^R 7.895	.776	.257	.031	.006	.024	^R .302	^R .621	^R 9.299
February	1.835	^R 2.633	3.148	^R 7.616	.684	.184	.027	.006	.025	^R .271	^R .512	8.821
March	1.795	^R 2.182	3.358	^R 7.334	.674	.239	.029	.007	.030	^R .294	^R .599	^R 8.613
April	1.665	^R 1.855	3.250	^R 6.771	.601	.236	.028	.007	.031	^R .284	^R .586	^R 7.968
May	1.775	^R 1.598	3.371	^R 6.747	.682	.257	.028	.007	.029	^R .292	^R .614	^R 8.054
June	1.947	^R 1.593	^R 3.276	^R 6.822	.723	.226	.029	.007	.026	^R .291	^R .578	8.134
July	2.083	^R 1.701	3.389	^R 7.171	.763	.222	.030	.007	.021	^R .302	^R .582	^R 8.529
August	2.134	^R 1.943	3.435	7.513	.763	.197	.030	.007	.027	^R .302	^R .563	^R 8.851
September	1.908	^R 1.629	3.226	^R 6.766	.709	.146	.029	.007	.028	^R .293	^R .503	^R 7.982
October	1.832	^R 1.667	3.339	^R 6.838	.647	.146	.030	.007	.033	R.309	^R .526	^R 8.017
November	1.801	^R 1.879	^R 3.239	^R 6.925	.680	.155	.029	.006	.031	R.303	^R .523	^R 8.137
December	1.984	^R 2.461	^R 3.376	^R 7.825	.755	.181	.030	.006	.034	R.321	R.573	^R 9.160
Total	22.749	^R 23.679	^R 39.769	^R 86.223	8.455	2.446	.349	.081	.341	^R 3.564	^R 6.780	^R 101.565
2008 January	^R 2.027	^R 2.804	3.295	^R 8.129	.739	^R .205	.029	.007	^R .042	^R .331	^R .615	^R 9.494
February	^R 1.868	^R 2.563	^R 3.043	^R 7.476	.681	^R .185	^R .027	.007	^R .038	^R .304	^R .560	^R 8.728
March	^R 1.802	^R 2.329	^R 3.222	^R 7.361	.676	^R .214	.030	.008	^R .047	^R .318	^R .617	^R 8.662
April	^R 1.668	^R 1.867	^R 3.108	^R 6.651	.599	^R .219	^R .030	.008	^R .051	^R .317	^R .625	^R 7.885
May	^R 1.755	^R 1.614	3.209	^R 6.581	.678	^R .268	.031	.008	^R .053	.325	^R .684	^R 7.950
June	^R 1.920	^R 1.641	^R 3.083	^R 6.653	.735	^R .288	^R .030	.008	^R .051	^R .316	^R .693	^R 8.090
July	_ 2.093	^R 1.750	^R 3.164	^R 7.013	.777	^R .252	.031	.008	^R .039	^R .335	^R .665	^R 8.469
August	^R 2.047	^R 1.723	^R 3.116	^R 6.886	.759	R.209	.031	.008	^R .032	^R .336	^R .617	^R 8.277
September	^R 1.837	1.494	^R 2.784	^R 6.117	.701	^R .159	.030	.008	^R .031	^R .324	^R .552	^R 7.380
October	^R 1.737	^R 1.670	^R 3.183	^R 6.592	^R .657	^R .152	.031	.008	^R .047	^R .336	^R .574	^R 7.829
November	^R 1.742	^R 1.906	^R 2.979	^R 6.628	.663	^R .154	.030	.007	^R .049	R.329	^R .570	^R 7.865
December	^R 1.902	^R 2.454	^R 3.090	^R 7.443	.762	^R .206	^R .031	.007	^R .065	R.330	R.639	^R 8.852
Total	^R 22.398	^R 23.814	^R 37.279	^R 83.532	8.427	^R 2.511	^R .360	.091	^R .546	^R 3.902	^R 7.410	^R 99.481
2009 January	1.933	^R 2.773	^R 3.073	^R 7.778	.768	^R .235	^R .032	.007	^R .059	^R .320	^R .653	^R 9.206
February	1.607	^R 2.368	^R 2.718	^R 6.692	.671	^R .176	^R .029	.007	^R .056	^R .287	^R .554	^R 7.926
March	_ 1.559	^R 2.217	^R 2.998	^R 6.773	.700	^R .214	R.032	.008	^R .068	^R .324	^R .646	^R 8.122
April	^R 1.441	^R 1.784	^R 2.866	^R 6.089	.618	^R .250	^R .029	.008	^R .072	^R .312	^R .671	^R 7.385
May	R 1.507	^R 1.546	^R 2.909	^R 5.960	.682	R.290	R.030	.008	R.060	R.327	^R .715	^R 7.366
June	^R 1.679	^R 1.571	^R 2.907	^R 6.156	.726	R.287	^R .030	.008	^R .053	R.326	R.703	^R 7.596
July	1.787	^R 1.703	^R 3.003	^R 6.491	.763	R.226	^R .031	.008	^R .046	^R .348	^R .659	^R 7.926
August	1.838	R 1.777	^R 2.998	^R 6.609	.755	R.189	.030	.008	R.052	R.353	^R .632	^R 8.012
September	1.581	^R 1.609	^R 2.844	^R 6.032	.689	^R .170	^R .030	.008	^R .043	^R .332	^R .583	^R 7.315
October	^R 1.610	^R 1.702	^R 2.993	^R 6.301	.603	^R .194	^R .031	.008	^R .062	^R .348	^R .643	^R 7.558
November	^R 1.576	^R 1.820	^R 2.867	^R 6.261	^R .617	^R .206	^R .031	.007	^R .063	^R .347	^R .654	^R 7.541
December	1.880	2.545	3.067	7.489	.736	.244	.032	.007	.062	.357	.702	8.939
Total	19.996	23.416	35.242	78.631	8.328	2.682	.366	.091	.697	3.980	7.815	94.892

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

^b Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4. ^c Petroleum products supplied, including natural gas plant liquids and crude oil

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

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

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

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

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

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

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

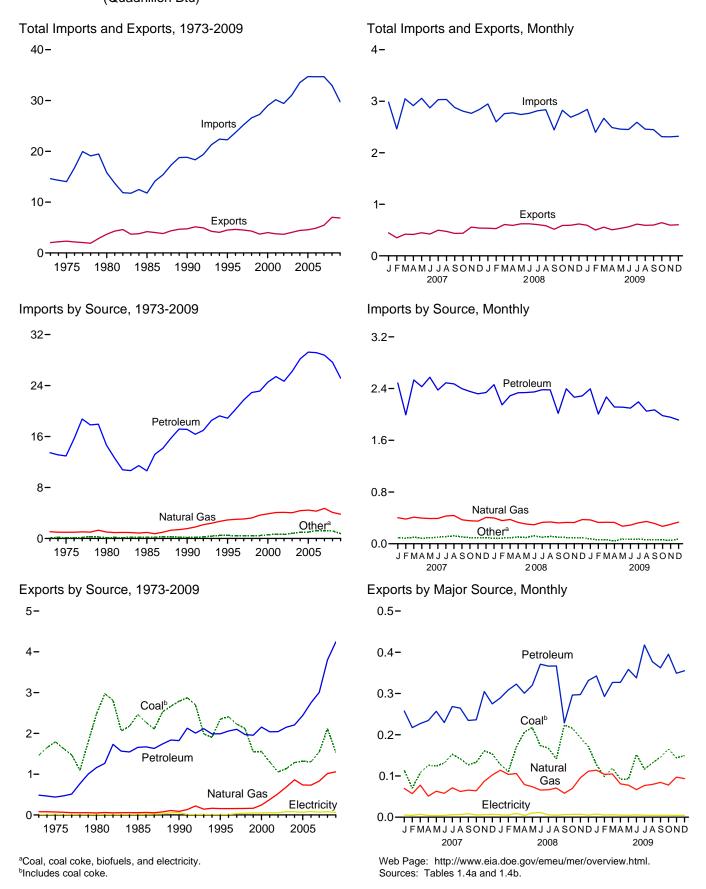


Figure 1.4b Primary Energy Net Imports

(Quadrillion Btu, Except as noted)

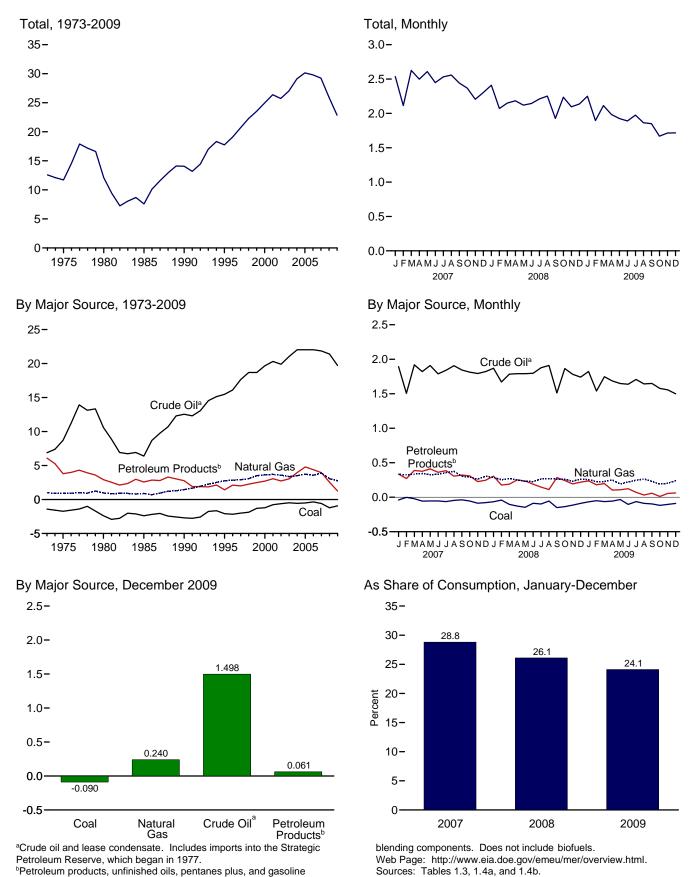


Table 1.4a Primary Energy Imports by Source

(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
95 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
97 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
	.218	.095	3.225		3.992			.135	26.581
98 Total				18.916		22.908	(s)		
99 Total	.227	.080	3.664	18.935	4.198	23.133	(s)	.147	27.252
00 Total	.313	.094	3.869	19.783	4.749	24.531	(s)	.166	28.973
01 Total	.495	.063	4.068	20.348	5.050	25.398	.002	.131	30.157
02 Total	.422	.080	4.104	19.920	4.753	24.673	.002	.125	29.407
03 Total	.626	.068	4.042	21.060	5.158	26.218	.002	.104	31.061
04 Total	.682	.170	4.365	22.082	6.114	28.196	.013	.117	33.543
05 Total	.762	.088	4.450	22.091	7.156	29.247	.013	.152	34.710
06 Total	.906	.101	4.291	22.085	7.077	29.162	^R .068	.146	34.673
07 January	.071	.006	.403	1.894	.591	2.486	.005	.012	2.982
February	.066	.003	.382	1.510	.483	1.993	.004	.014	2.463
March	.082	.003	.412	1.926	.607	2.533	.003	.013	3.046
April	.067	.004	.397	1.824	.604	2.429	.004	.014	2.914
May	.067	.006	.390	1.916	.658	2.575	.003	.016	3.056
June	.076	.007	.391	1.798	.579	2.377	.005	.015	2.871
July	.084	.003	.429	1.844	.644	2.488	.007	.019	3.030
August	.093	.005	.437	1.914	.558	2.472	.008	.018	3.033
September	.087	.005	.370	1.851	.548	2.398	.004	.013	2.877
October	.072	.005	.356	1.815	.539	2.355	.006	.012	2.806
November	.072	.007	.349	1.796	.523	2.319	.003	.015	2.765
December	.070	.008	.407	1.825	.514	2.339	.004	.014	2.841
Total	.909	.061	4.723	21.914	6.849	28.762	.055	.175	34.685
08 January	.060	.007	.399	1.872	.587	2.459	.005	.017	2.947
February	.065	.006	.358	1.674	.474	2.148	.006	.016	2.600
March	.066	.009	.376	1.789	.500	2.290	.003	.016	2.759
April	.075	.011	.330	1.793	.542	2.335	.009	.014	2.774
May	.068	.007	.305	1.795	.544	2.338	.006	.018	2.742
June	.082	.013	.294	1.800	.547	^R 2.347	.008	.021	2.766
July	.064	.010	.331	1.881	.500	2.382	.008	.021	2.816
August	.064	.009	.337	1.917	.463	2.382	.008	.021	2.836
	.079		.337		.403 .498		.012	.020	
September		.006		1.518		2.016			2.443
October	.073	.008	.329	1.873	.523	2.396	.006	.012	2.825
November	.075	.005	.328	1.787	^R .478	2.265	.004	.011	2.689
December	.080	(s)	.374	1.749	.538	2.287	.004	.012	2.756
Total	.855	.089	4.084	21.448	^R 6.195	27.644	.085	.195	32.952
09 January	.058	.001	.369	1.829	^R .567	^R 2.396	.003	.015	^R 2.842
February	.046	(s)	.330	1.544	^R .461	^R 2.005	.001	.013	^R 2.396
March	.054	(s)	.333	1.753	^R .518	^R 2.270	.002	.010	^R 2.669
April	.033	(s)	.330	1.690	^R .425	^R 2.115	.001	.011	R 2.490
May	.057	.001	.271	1.658	^R .454	^R 2.113	.002	.014	R 2.458
June	.046	.001	.289	1.648	^R .450	R 2.098	.002	.016	R 2.452
July	.050	.001	.324	1.713	^R .481	^R 2.194	.003	.019	R 2.591
					^R .401				^R 2.457
August	.039	(s)	.344	1.649	·· .401 B .440	^R 2.050	.004	.020	
September	.046	.001	.314	1.657	^R .413	^R 2.070	.002	.015	^R 2.448
October	.044	(s)	.269	^R 1.590	^R .391	^R 1.981	.002	.016	^R 2.312
November	.038	.001	^R .300	1.565	^R .392	^R 1.956	.002	^R .012	^R 2.309
December	.054	.002	E.334	1.510	.403	1.913	.001	.016	2.320
Total	.566	.009	^E 3.805	19.806	5.354	25.160	.026	.178	29.744

^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(including denaturant) and biodiesel.

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

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

Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975-U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coke and Coal Chemicals" chapter. **1976-1980**—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	Biofuels ^d	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 1985 Total	2.421 2.438	.051 .028	.049 .056	.609 .432	.551 1.225	1.160 1.657	NA NA	.014 .017	3.695 4.196	12.101 7.584
1990 Total	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
1995 Total	2.318	.034	.156	.200	1.791	1.991	NA	.012	4.511	17.750
1996 Total	2.368	.040	.155	.233	1.825	2.059	NA	.011	4.633	19.069
1997 Total	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
1998 Total	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
1999 Total 2000 Total	1.525 1.528	.022 .028	.164 .245	.250 .106	1.705 2.048	1.955 2.154	NA NA	.049 .051	3.715 4.006	23.537 24.967
2000 Total	1.265	.028	.245	.043	1.996	2.034	(s)	.056	3.770	26.386
2002 Total	1.032	.033	.520	.045	2.023	2.030	(s)	.054	3.668	25.739
2003 Total	1.117	.018	.686	.026	2.124	2.150	.001	.082	4.054	27.007
2004 Total	1.253	.033	.862	.057	2.150	2.207	.001	.078	4.433	29.110
2005 Total	1.273	.043	.735	.067	2.373	2.441	.001	.068	4.561	30.149
2006 Total	1.264	.040	.730	.052	2.694	2.747	.004	.083	4.868	29.805
2007 January	.111	.003	.070	.002 .004	.255	.257	.001	.005	.447	2.536
February March	.068 .104	.002 .004	.057 .078	.004	.212 .220	.216 .226	.001 .002	.005 .007	.349 .420	2.114 2.626
April	.123	.004	.051	.000	.220	.220	.002	.004	.416	2.498
May	.121	.003	.063	.006	.247	.254	.003	.004	.448	2.608
June	.130	.001	.058	.009	.218	.227	.002	.004	.423	2.448
July	.148	.005	.071	.005	.259	.264	.005	.006	.498	2.532
August	.139	.002	.062	.008	.253	.261	.003	.007	.475	2.558
September	.125	.002	.066	.006	.226	.232	.003	.008	.436	2.442
October November	.128 .159	.006	.064 .087	.002 .003	.231 .296	.233 .300	.003 .005	.005 .006	.439 .559	2.367 2.206
December	.159	.002 .004	.102	.003	.290	.300	.005	.008	.538	2.200
Total	1.507	.036	.830	.058	2.914	2.972	.035	.069	5.448	29.238
2008 January	.125	.003	.114	.002	.281	.283	.006	.006	.537	2.410
February	.107	.004	.104	.003	.298	.301	.007	.005	.528	2.071
March	.170	.001	.106	.005	.311	.317	.006	.009	.608	2.151
April	.203	.004	.079	.002	.290	.292	.009	.005	.591	2.183
May June	.213 .170	.004 .004	.074 .066	.003 .004	.310 .358	.313 .362	.007 .009	.010 .011	.622 .622	2.120 2.144
July	.163	.004	.066	.004	.354	.352	.009	.006	.606	2.144
August	.134	.008	.071	.007	.351	.358	.009	.005	.584	2.251
September	.220	.004	.058	.007	.214	.221	.008	.006	.516	1.927
October	.209	.007	.070	.008	.281	.289	.007	.007	.589	2.236
November	.189	.004	.096	.005	.286	.291	.006	.007	.593	2.096
December	.169	.003	.111	.008	.319	.327	.004	.005	.619	2.137
Total	2.071	.049	1.015	.061	3.653	3.713	.086	.082	7.016	25.936
2009 January	.125	.003	.114	.007	^R .330 ^R .282	^R .336	.006	.008	^R .592 ^R .500	^R 2.250 ^R 1.896
February March	.097 .117	.001 .002	.104 .105	.005 .005	R.320	^R .286 ^R .326	.006 .001	.005 .006	^R .500	^R 2.113
April	.089	.002	.081	.005	R.322	R.326	.001	.005	^R .505	^R 1.985
May	.090	.002	.078	.009	R.347	^R .356	.002	.005	^R .534	R 1.924
June	.149	.002	.067	.010	^R .326	^R .336	.002	.006	^R .562	^R 1.890
July	.114	.003	.077	.006	^R .409	^R .414	.003	.005	^R .616	^R 1.975
August	.128	.003	.079	.006	^R .368	^R .375	.002	.005	^R .593	^R 1.865
September	.143	.003	.085	.007	^R .354	^R .361	.001	.005	^R .597	^R 1.851
October	.162	.004	.078 B 007	.013	^R .380	R.393	.002	.005	^R .643	R 1.669
November	.142	.002	^R .097 ^E .094	.008	^R .337	^R .345	.004	.004	R .595	R 1.714
December Total	.145 1 501	.004	E 1.094	.012	.341 4 115	.353	.002	.005	.602 6 895	1.717
1 Ulai	1.501	.032	1.030	.093	4.115	4.208	.034	.062	6.895	22.849

^a Net imports equal imports minus exports.

^b Crude oil and lease condensate.

^c Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels. ^d Biodiesel only.

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

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

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

Figure 1.5 Merchandise Trade Value (Billion Nominal Dollars^a)

Imports and Exports, 1974-2009 Imports and Exports, Monthly 2,500-250-2,000-200-**Total Imports Total Imports** 1,500 -150-1,000 -100 Total Exports **Total Exports** 500-50· Energy Energy Exports Imports Energy Imports Energy Exports 0-----. 0 Ч _____ 1975 1980 1985 1990 1995 2000 2005 J FMAMJ J A SOND J FMAMJ J A SOND J FMAMJ J A SOND 2008 2009 2010 Trade Balance, 1974-2009 Trade Balance, Monthly 0 100-0 Energy -100--25 Energy -200 -Non-Energy Non--300-Energy -50 --400-Total -500 --600 --75--700--800-Total -900 -------100 ----****** 1975 1980 1985 1990 1995 2000 2005 J FMAM J J A SOND J FMAM J J A SOND J FMAM J J A SOND 2008 2009 2010

^aSee "Nominal Dollars" in Glossary. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html. Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Nominal Dollars^a)

		Petroleum	р 1		Energy ^c		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
	4.707	50.475	-45,768	9.971	53.917	-43.946	-73,765	218.815	336,526	-117,712
985 Total	4,707 6,901						-73,765			
990 Total		61,583	-54,682	12,233	64,661	-52,428		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 January	2,239	22,693	-20,454	2,833	25,630	-22,797	-42,908	85,128	150,833	-65,705
February	2,006	17,840	-15,834	2,549	20,993	-18,444	-37,552	83,797	139,793	-55,996
March	2,270	23,944	-21,674	2,871	27,170	-24,299	-37,605	99,459	161,363	-61,904
April	2,418	25,189	-22,771	3,167	28,335	-25,168	-40,538	90,877	156,583	-65,706
May	2,566	28,071	-25,505	3,375	31,380	-28,005	-38,592	96,726	163,323	-66,597
June	2,590	27,645	-25,055	3,447	31,110	-27,663	-38,913	97,886	164,462	-66,576
July	2.863	28,578	-25,715	3,517	31,902	-28,385	-47,730	90.650	166,765	-76,115
	3.003	29,762	-26,759	3,720	32,967	-29,247	-41.652	99.867	170,766	-70.899
August										
September	2,715	28,065	-25,350	3,447	30,514	-27,067	-38,839	96,866	162,772	-65,906
October	2,790	30,728	-27,938	3,384	33,428	-30,044	-47,025	104,976	182,044	-77,069
November	3,882	32,440	-28,558	4,569	35,384	-30,815	-42,912	101,936	175,663	-73,727
December	3,952	32,669	-28,717	4,844	36,173	-31,329	-31,234	100,030	162,594	-62,563
Total	33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763
008 January	4,061	36,617	-32,556	5,049	40,206	-35,157	-34,516	98,677	168,350	-69,673
February	4.683	31,609	-26,926	5,508	35.033	-29.525	-30.805	104.740	165,070	-60,330
March	4,477	33,769	-29,292	5,755	37,875	-32,120	-28,142	110,932	171,194	-60,262
April	4,473	39,481	-35,008	5,899	43,440	-37,541	-34,717	109,857	182,115	-72,258
May	5,420	41,344	-35,924	6,861	45,266	-38,405	-31,924	112,627	182,956	-70,329
June	7,365	47,392	-40,027	8,694	51,594	-42,900	-30,430	116,787	190,117	-73,330
July	7,760	53,966	-46,206	8,948	58,841	-49,893	-38,199	114,522	202,614	-88,092
August	7,650	47,473	-39,823	8,791	51,150	-42,359	-31,098	116,418	189,875	-73,457
September	3,916	36,768	-32,852	5,217	39,701	-34,484	-39,633	106,072	180,189	-74,117
October	4.597	38.270	-33.673	5.876	41.064	-35,188	-39,456	111,239	185.882	-74.644
November	3.858	22,661	-18,803	5.084	25,019	-19,935	-30,495	97,085	147,515	-50,430
	- ,	22,661		5,084 4,394			-30,495 -30,974			
December Total	3,439 61,695	20,494 449,847	-17,055 -388.152	4,394 76,075	22,697 491.885	-18,303 -415,810	-30,974 -400.389	88,486 1,287,442	137,763 2,103,641	-49,277 -816,199
	,		,							,
009 January	3,036	16,863	-13,827	3,994	19,192	-15,198	-28,649	78,379	122,226	-43,847
February	2,599	14,042	-11,443	3,636	16,311	-12,675	-16,102	80,503	109,279	-28,777
March	2,860	16,617	-13,757	3,730	18,191	-14,461	-18,747	87,796	121,004	-33,208
April	2,937	17,937	-15,000	3,623	19,431	-15,808	-22,156	80,969	118,933	-37,964
May	3,658	18,201	-14,543	4,262	19,795	-15,533	-17,394	83,786	116,713	-32,927
June	3,582	23,018	-19,436	4,411	24,201	-19,790	-20,348	86,860	126,998	-40,138
	4.476	24,375	-19,430	5.138	25,563	-20.425	-20,348	85.737	135.347	-49,610
July										
August	4,202	22,952	-18,750	4,914	24,226	-19,312	-24,483	87,429	131,224	-43,795
September	4,331	25,289	-20,958	5,162	26,598	-21,436	-28,144	91,418	140,998	-49,580
October	4,372	22,857	-18,485	5,229	24,236	-19,007	-27,501	100,285	146,793	-46,508
November	4,133	23,351	-19,218	4,991	24,644	-19,653	-28,741	94,541	142,935	-48,394
December	4,363	26,118	-21,755	5,270	27,906	-22,636	^R -23,880	^R 99,160	^R 145,676	^R -46,516
Total	44,546	251,620	-207,074	54,358	270,295	-215,937	^R -285,325	^R 1,056,863	^R 1,558,125	^R -501,262
						,				,
010 January	4,093	25,255	-21,162	5,185	27,504	-22,319	-21,069	92,688	136,076	-43,388

^a See "Nominal Dollars" in Glossary.
 ^b Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels.
 ^c Petroleum, coal, natural gas, and electricity.

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

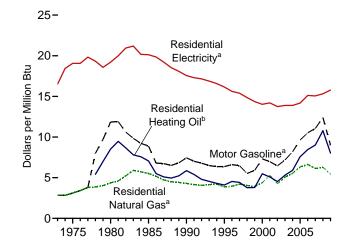
components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

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

Sources: See end of section.

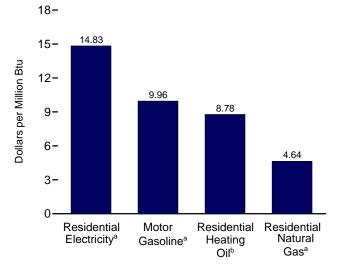
Figure 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars

Costs, 1973-2009



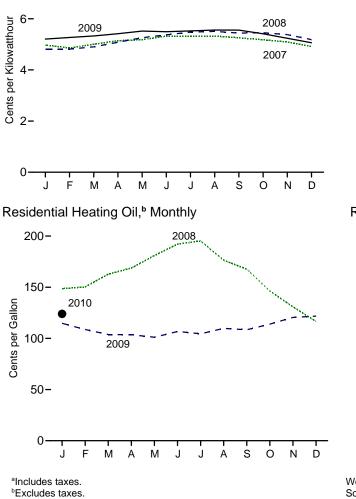
Costs, December 2009

Motor Gasoline,^a Monthly



Residential Electricity,^a Monthly

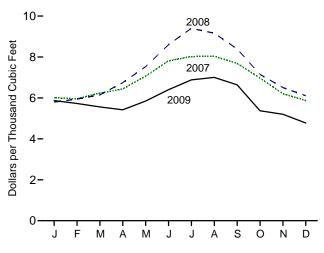
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Note: See "Real Dollars" in Glossary.

200-2008 175-150-Cents per Gallon 125 2010 2000 100-75-50-25-0 F Μ А Μ А S 0 Ν D J J .1

Residential Natural Gas,^a Monthly



Web Page: http://www.eia.doe.gov/emeu/mer/overview.html. Source: Table 1.6.

	Consumer Price Index, All Urban Consumers ^a	Motor G	asoline ^b		dential ng Oil ^c		lential Il Gas ^b		lential ricity ^b
	Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars per Million Btu
1973 Average	44.4	NA	NA	NA	NA	290.5	2.85	5.6	16.50
1975 Average	53.8	NA	NA	NA	NA	317.8	3.12	6.5	19.07
1980 Average	82.4 107.6	148.2 111.2	11.85 8.89	118.2 97.9	8.52 7.06	446.6 568.8	4.36 5.52	6.6	19.21 20.13
1985 Average	130.7	93.1	0.09 7.44	81.3	5.86	443.8	4.31	6.87 5.99	17.56
1995 Average	152.4	79.1	6.37	56.9	4.10	397.6	3.87	5.51	16.15
1996 Average	156.9	82.1	6.61	63.0	4.54	404.3	3.94	5.33	15.62
1997 Average	160.5	80.4	6.48	61.3	4.42	432.4	4.21	5.25	15.39
1998 Average	163.0	68.4	5.51	52.3	3.77	418.4	4.05	5.07	14.85
1999 Average	166.6	73.3	5.91	52.6	3.79	401.6	3.91	4.90	14.36
2000 Average	172.2	90.8	7.32	76.1	5.49	450.6	4.39	4.79	14.02
2001 Average	177.1	86.4	6.97	70.6	5.09	543.8	5.28	4.84	14.20
2002 Average	179.9	80.1	6.46	62.8	4.52	438.6	4.26	4.69	13.75
2003 Average	184.0	89.0	7.18	73.6	5.31	523.4	5.07	4.74	13.89
2004 Average	188.9	101.8	8.20	81.9	5.91	569.1	5.54	4.74	13.89
2005 Average	195.3	119.7	9.64	105.1	7.58	650.3	6.32	4.84	14.18
2006 Average	201.6	130.7	10.52	117.3	8.46	681.1	6.63	5.16	15.12
2007 January	202.416	114.7	9.23	114.2	8.23	^R 601.2	^R 5.84	4.97	14.57
February	203.499	114.6	9.23	117.5	8.47	^R 596.1	^R 5.79	4.86	14.24
March	205.352	128.5	10.34	119.3	8.60	^R 623.8	^R 6.06	5.00	14.66
April	206.686	140.7	11.33	120.0	8.65	^R 644.0	^R 6.26	5.14	15.07
May	207.949	152.7	12.29	119.3	8.60	^R 706.4	^R 6.87	5.18	15.18
June	208.352	148.8	11.97	119.6	8.62	^R 781.4	^R 7.59	5.32	15.60
July	208.299	144.6	11.64	122.4	8.82	^R 802.2	^R 7.80	5.31	15.58
August	207.917	136.3	10.97	120.7	8.70	^R 803.7	^R 7.81	5.32	15.60
September	208.490	136.2	10.96	125.1	9.02	^R 768.9	^R 7.47	5.26	15.41
October	208.936	136.1	10.95	132.1	9.52	^R 697.3	^R 6.78	5.18	15.18
November	210.177	148.4	11.94	144.6	10.43	^R 620.4	^R 6.03	5.09	14.92
December Average	210.036 207.342	146.1 137.4	11.76 11.06	147.5 125.0	10.64 9.01	^R 587.5 ^R 630.8	^R 5.71 ^R 6.13	4.92 5.14	14.41 15.05
-									
2008 January	211.080	146.7	11.81	148.7	10.72	^R 579.9	^R 5.64	^R 4.81	^R 14.09
February	211.693	145.6	11.72	150.3	10.83	^R 594.3	^R 5.78	^R 4.81	^R 14.11
March	213.528	154.9	12.47	162.7	11.73	^R 614.9	^R 5.98	^R 4.90	^R 14.37
April	214.823	162.5	13.08	168.8	12.17	^R 674.5	^R 6.55	^R 5.08	^R 14.90
May	216.632	176.0	14.17	181.0	13.05	^R 752.9	^R 7.32	^R 5.26	^R 15.41
June	218.815	188.1	15.14	192.1	13.85	^R 860.1	^R 8.36	^R 5.37	^R 15.74
July	219.964	188.3	15.16	195.3	14.08	^R 940.2	^R 9.14	^R 5.48	^R 16.06
August	219.086	175.2	14.10	176.5	12.72	^R 916.5	^R 8.91	^R 5.50	^R 16.13
September	218.783	171.4	13.79	167.6	12.09	^R 839.2	^R 8.16	^R 5.44	^R 15.94
October	216.573	148.9	11.99	146.3	10.55	^R 715.2	^R 6.95	^R 5.45	^R 15.98
November	212.425	103.9	8.37	130.8	9.43	^R 650.6	^R 6.32	^R 5.38	^R 15.77
December Average	210.228 215.303	82.9 154.1	6.67 12.40	116.5 149.5	8.40 10.78	^R 610.8 ^R 645.1	^R 5.94 ^R 6.27	^R 5.18 ^R 5.23	^R 15.20 ^R 15.33
	211.143	87.1	7.01	114.7	8.27	586.8	5.70	^R 5.21	^R 15.25
2009 January	211.143	93.3	7.01	108.7	8.27 7.84	^R 573.1	^R 5.57	^R 5.27	^R 15.44
February March	212.193	93.3 94.0	7.51	108.7	7.84 7.48	^R 556.2	^R 5.40	^R 5.33	^R 15.44
April	212.709 213.240	94.0 98.8	7.95	103.8	7.48	^R 542.1	^R 5.40	^R 5.42	^R 15.87
Арлі Мау	213.856	108.2	8.71	103.0	7.47	^R 584.5	5.68	^R 5.52	^R 16.17
		124.3	10.00	101.1	7.29	640.3	5.68 6.22	^R 5.49	^R 16.17
June July	215.693 215.351	124.3	9.70	106.7	7.53	^R 688.2	6.69	^R 5.53	^R 16.20
		120.5	9.70 9.98	104.5	7.53	700.5		^R 5.56	^R 16.20
August	215.834					^R 664.0	6.81 ^R 6.45	^R 5.56	^R 16.29
September	215.969	121.6	9.79	108.4	7.82			5.56 ^R 5.41	^R 15.86
November	216.177 216.330	120.9	9.73	114.0 ^R 120.5	8.22 ^R 8.69	537.5 520.0	5.22 5.05	^R 5.24	^R 15.86
		125.2	10.08	^R 120.5	^R 8.69	520.0 ^R 477.4	⁸ 4.64	5.24 ^R 5.06	^R 14.83
December	215.949	123.7	9.96		^R 8.02	^R 558.4	^R 5.43	^R 5.06	^R 14.83
Average	214.537	111.9	9.01	^R 111.2		556.4	5.43	5.38	15./8
2010 January	216.687	128.2	10.32	^{RE} 124.0	^{RE} 8.94	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.

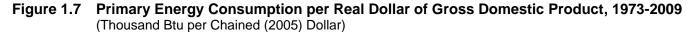
^c Excludes taxes.

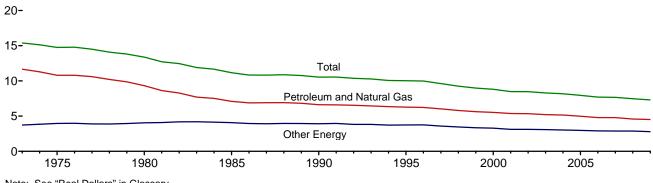
R=Revised. E=Estimate. NA=Not available.

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

Web Page: See http://www.eia.doe.gov/emeu/mer/overview.html for all available data beginning in 1973. Sources: • Fuel Prices: Tables 9.4 (All Types), 9.8c, 9.9, and 9.11,

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.





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

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

	Ene	rgy Consumption	1	Gross	Energy Consum	ption per Real Do	llar of GDF
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total
		Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu	per Chained (200	5) Dollar
973 Year	57.352	18.356	75.708	4,917.0	11.66	3.73	15.40
974 Year	55.187	18.804	73.991	4,889.9	11.29	3.85	15.13
75 Year	52.678	19.321	71.999	4,879.5	10.80	3.96	14.76
76 Year	55.520	20.492	76.012	5,141.3	10.80	3.99	14.78
77 Year	57.053	20.947	78.000	5,377.7	10.61	3.90	14.50
78 Year	57.966	22.021	79.986	5.677.6	10.21	3.88	14.00
79 Year	57.789	23.114	80.903	5.855.0	9.87	3.95	13.82
80 Year	54.438	23.684	78.122	5,839.0	9.32	4.06	13.38
81 Year	51.678	24.490	76.168	5,987.2	8.63	4.00	12.72
82 Year	48.588	^R 24.565	73.153	5.870.9	8.28	4.03	12.46
83 Year	47.275	^R 25.763	^R 73.038	6,136.2	7.70	4.10	11.90
84 Year	49.445	^R 27.269	^R 76.714	6,577.1	7.52	4.15	11.66
85 Year	48.626	^R 27.865	^R 76.491	6,849.3	7.10	4.07	11.17
86 Year	48.787	^R 27.969	^R 76.756	7.086.5	6.88	3.95	10.83
87 Year	50.505	R 28.668	^R 79.173	7,313.3	6.91	3.92	10.83
38 Year	52.670	^R 30.149	^R 82.819	7,613.9	6.92	3.96	10.88
89 Year	53.813	^R 31.131	^R 84.944	7,885.9	6.82	3.95	10.80
	53.156	^R 31.496	^R 84.651	8.033.9	6.62	3.95	10.74
90 Year	52.878	^R 31.728	^R 84.606	8,033.9	6.60	3.92	10.54
91 Year		^R 31.728	^R 85.955	,			
92 Year	54.240			8,287.1	6.55	3.83	10.37
93 Year	54.973	^R 32.629	^R 87.601	8,523.4	6.45	3.83	10.28
94 Year	^R 56.289	^R 32.968	^R 89.257	8,870.7	6.35	3.72	10.06
95 Year	^R 57.107	^R 34.062	^R 91.169	9,093.7	6.28	3.75	10.03
96 Year	^R 58.757	^R 35.415	^R 94.172	9,433.9	6.23	3.75	9.98
97 Year	^R 59.382	^R 35.380	^R 94.761	9,854.3	6.03	3.59	9.62
98 Year	^R 59.646	^R 35.532	^R 95.178	10,283.5	5.80	3.46	9.26
99 Year	^R 60.746	^R 36.066	^R 96.812	10,779.8	5.64	3.35	8.98
00 Year	^R 62.088	^R 36.882	^R 98.970	11,226.0	5.53	3.29	8.82
01 Year	R 60.958	^R 35.358	^R 96.316	11,347.2	5.37	3.12	8.49
02 Year	^R 61.784	^R 36.070	^R 97.853	11,553.0	5.35	3.12	8.47
03 Year	^R 61.705	^R 36.493	^R 98.198	11,840.7	5.21	3.08	8.29
04 Year	^R 63.224	^R 37.112	^R 100.336	12,263.8	5.16	3.03	8.18
05 Year	^R 62.974	^R 37.492	R 100.467	12,638.4	4.98	2.97	7.95
06 Year	^R 62.179	R 37.671	^R 99.850	12,976.2	4.79	2.90	^R 7.69
07 Year	R 63.448	R 38.117	R 101.565	13,254.1	^R 4.79	2.88	7.66
08 Year	^R 61.093	^R 38.388	^R 99.481	13,312.2	4.59	2.88	7.47
09 Year	58.659	36.233	94.892	12,987.4	4.52	2.79	7.31

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

R=Revised.

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

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

Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: 1973-2006—U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, August 2009, Table 2A. 2007 forward—U.S. Department of Commerce, Bureau of Economic Analysis, BEA News Release, March 26, 2010, Table 3, which is available at website http://www.bea.gov/newsreleases/national/gdp/gdpnewsrelease.htm.

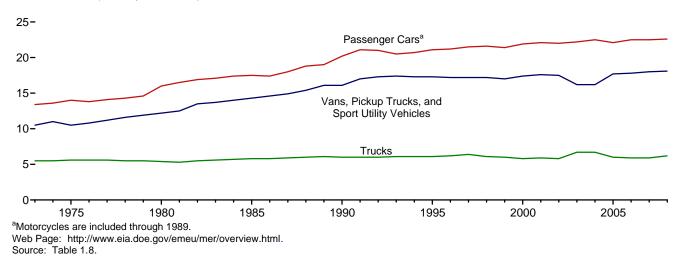


Figure 1.8 Motor Vehicle Fuel Rates, 1973-2008

(Miles per Gallon)

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

		Passenger Cars	a		ns, Pickup Truc Sport Utility Veh			Trucks ^c		А	II Motor Vehicle	s ^d
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)									
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9.118	534	17.1	10,497	767	13.7	21,083	3.769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9.464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9.720	539	18.0	11.114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11.465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	a10,157	a533	^a 19.0	11.676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11.203	530	21.1	12.018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2
2007	12,304	547	22.5	10,962	609	18.0	25,152	4,275	5.9	11,920	693	17.2
2008P	11,788	522	22.6	10,951	605	18.1	25,254	4,075	6.2	11,619	667	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.

a lingle-unit tooks with 2 axies and or increased and or increased and separately.
 R=Revised. P=Preliminary.
 Note: Geographic coverage is the 50 States and the District of Columbia.

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

Table 1.9	Heating	Degree-Days	by Census	Division
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			February				July	Cumulative		
				Percent	Change				Percent	Change
Census Divisions	Normala	2009	2010	Normal to 2010	2009 to 2010	Normala	2009	2010	Normal to 2010	2009 to 2010
New England Connecticut, Maine, Massachusetts, New Hampshire,				_						_
Rhode Island, Vermont	1,060	1,029	990	-7	-4	4,768	4,923	4,673	-2	-5
Middle Atlantic New Jersey, New York, Pennsylvania	983	931	1,008	3	8	4,332	4,390	4,238	-2	-3
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	1,061	1,021	1,112	5	9	4,835	5,062	4.892	1	-3
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	1,078	1,021	1,223	13	19	5,163	5,246	5,403	5	3
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	507	503	656	29	30	2,233	2,277	2,441	9	7
East South Central Alabama, Kentucky,						_,	_,	_,		
Mississippi, Tennessee	623	586	817	31	39	2,853	2,858	3,172	11	11
West South Central Arkansas, Louisiana, Oklahoma, Texas	414	297	589	42	98	1,912	1,708	2,233	17	31
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	737	699	783	6	12	3,835	3,464	3,848	(s)	11
Pacific ^b California, Oregon, Washington	439	480	427	-3	-11	2,256	2,051	2,141	-5	4
U.S. Average ^b	732	700	810	11	16	3,388	3,376	3,473	3	3

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

^b Excludes Alaska and Hawaii.

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

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

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

historical data.

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

			February					Cumulative / through Fe		
				Percent	Change				Percent	Change
Census Divisions	Normala	2009	2010	Normal to 2010	2009 to 2010	Normala	2009	2010	Normal to 2010	2009 to 2010
New England Connecticut, Maine, Massachusetts, New Hampshire,	0									
Rhode Island, Vermont	0	0	0	NM	NM	0	0	0	NM	NM
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	NM	NM	0	0	0	NM	NM
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	NM	NM	0	0	0	NM	NM
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	0	NM	NM	0	0	0	NM	NM
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, Virginia, South Carolina, Virginia, West Virginia	30	17	7	NM	NM	64	36	23	NM	NM
East South Central	00		,				50	20		
Alabama, Kentucky, Mississippi, Tennessee	4	0	0	NM	NM	12	0	0	NM	NM
West South Central Arkansas, Louisiana, Oklahoma, Texas	15	28	1	NM	NM	29	34	5	NM	NM
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	3	2	0	NM	NM	4	3	0	NM	NM
Pacific ^b California, Oregon, Washington	1	0	0	NM	NM	3	0	0	NM	NM
U.S. Average ^b	8	6	1	NM	NM	17	11	5	NM	NM

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

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

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

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.

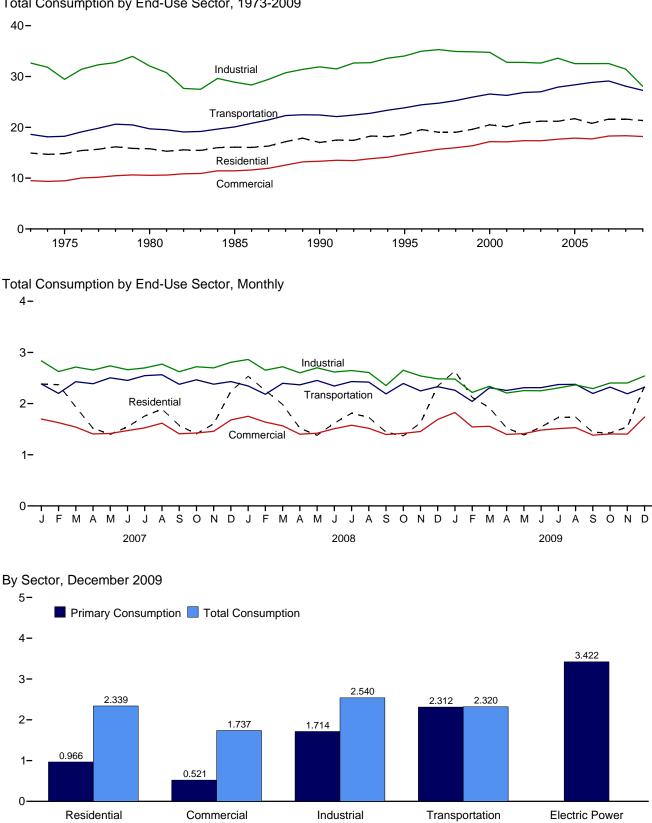




Office buildings, industries, residences, and transport systems, Baltimore, Maryland; east view from the inner harbor. Source: U.S. Department of Energy.

Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2009



Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.1.

Energy Consumption by Sector Table 2.1

(Trillion Btu)

				End-Use	e Sectors				Electric		
	Resid	ential	Comme	erciala	Indus	trial ^b	Transpo	ortation	Power Sector ^{c,d}	Deleveire	
	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Balancing Item ^g	Total ^h
1973 Total	8,250	14,930	4,381	9,507	24,741	32,653	18,576	18,612	19,753	7	75,708
1975 Total	8,006	14,842	4,023	9,466	21,454	29,447	18,209	18,244	20,307	1	71,999
1980 Total	7,453	15,787	4,074	10,563	22,610	32,077	19,658	19,696	24,327	-1	78,122
1985 Total	7,161	16,088	3,695	11,444	^R 19,467	^R 28,876	^R 20,040	^R 20,086	26,132	-4	^R 76,491
1990 Total	6,570	17,015	3,858	13,333	^R 21,207	^R 31,894	^R 22,365	^R 22,419	30,660	-9	^R 84,651
1995 Total	6,946	18,578	4,063	14,698	^R 22,746	^R 34,045	^R 23,790	^R 23,846	33,621	3	^R 91,169
1996 Total	7,471	19,562	4,235	15,181	^R 23,442	^R 34,988	^R 24,382	^R 24,437	34,638	4	^R 94,172
1997 Total	7,040	19,026	^R 4,256	15,694	^R 23,720	^R 35,287	^R 24,694	^R 24,749	35,045	6	^R 94,761
1998 Total	6,424	19,021	3,964	15,979	^R 23,209	^R 34,926	^R 25,200	^R 25,255	36,385	-3	^R 95,178
1999 Total	6,784	19,621	4,007	16,384	R 22,989	^R 34,854	R 25,891	^R 25,948	37,136	6	^R 96,812
2000 Total	7,169	20,488	4,227	17,176	^R 22,869	^R 34,756	^R 26,488	^R 26,548	38,214	2	^R 98,970
2001 Total	6,879	20,105	4,036	17,140	^R 21,833	^R 32,803	^R 26,212	^R 26,275	37,362	-6	^R 96,316
2002 Total	6,938	20,875	4,099	17,368	^R 21,855	^R 32,762	^R 26,783	^R 26,844	38,173	5	^R 97,853
2003 Total	7,252	21,208	4,239	17,351	^R 21,571	^R 32,645	R 26,922	^R 26,996	38,218	-3	^R 98,198
2004 Total	7,020	21,179	4,177	17,661	^R 22,446	R 33,600	R 27,816	R 27,895	38,876	(s)	R 100,336
2005 Total	6,921	21,698	4,014	17,876	^R 21,456	^R 32,535 ^R 32,527	R 28,271	R 28,353	39,800	6	^R 100,467 ^R 99.850
2006 Total	6,191	20,770	3,703	17,725	^R 21,617	,	^R 28,749	^R 28,829	39,590	(s)	
2007 January	^R 1,001	^R 2,382	524	^R 1,699	^R 1,928	^R 2,836	^R 2,374	^R 2,382	3,474	(s)	^R 9,299
February	1,099	2,370	^R 573	^R 1,627	^R 1,807	^R 2,627	^R 2,192	^R 2,200	3,153	-2	8,821
March	^R 805	^R 1,934	^R 445	^R 1,541	^R 1,831	^R 2,714	^R 2,420	^R 2,428	3,116	-4	^R 8,613
April	549	1,518	^R 322	^R 1,407	^R 1,762	^R 2,657	^R 2,382	^R 2,389	2,956	-4	^R 7,968
Мау	339	1,399	^R 221	^R 1,415	^R 1,778	^R 2,738	^R 2,497	^R 2,504	3,220	-2	^R 8,054
June	262	1,546	189	^R 1,472	^R 1,705	^R 2,663	^R 2,445	^R 2,452	3,533	(s)	8,134
July	244	1,757	^R 177	1,526	^R 1,727	^R 2,696	^R 2,540	^R 2,547	3,838	3	^R 8,529
August	245	1,893	186	1,618	^R 1,761	^R 2,772	^R 2,557	^R 2,564	4,099	4	^R 8,851
September	249	_1,572	186	_1,410	^R 1,730	^R 2,623	^R 2,370	^R 2,377	3,448	(s) -2	^R 7,982
October	320	^R 1,409	224	^R 1,426	^R 1,787	^R 2,720	^R 2,458	^R 2,465	3,229		^R 8,017
November	^R 576	^R 1,603	339	^R 1,459	^R 1,787	^R 2,699	^R 2,372	^R 2,379	3,065	-2	^R 8,137
December	^R 942	^R 2,243	^R 507	^R 1,680	^R 1,880	^R 2,808	^R 2,423	^R 2,430	3,409	-1	^R 9,160
Total	^R 6,631	^R 21,624	^R 3,892	^R 18,282	^R 21,484	^R 32,552	^R 29,029	^R 29,117	40,540	-10	^R 101,565
2008 January	1,103	^R 2,534	^R 579	^R 1,753	^R 1,963	^R 2,863	R 2,337	^R 2,345	^R 3,512	(s)	^R 9,494
February	1,025	^R 2,255	^R 556	^R 1,638	R 1,807	^R 2,654	R 2,176	^R 2,183	^R 3,166	-2	^R 8,728
March	838	1,983	^R 461	^R 1,566	R 1,824	^R 2,720	^R 2,389	^R 2,396	^R 3,152	-3	^R 8,662
April	537	^R 1,518	319 ^R 234	^R 1,402 ^R 1,421	R 1,706	R 2,602	2,360	2,366	^R 2,967	-4	^R 7,885 ^R 7,950
May	362 275	1,380 ^R 1,619	189	^R 1,421	^R 1,725 ^R 1,649	^R 2,700 ^R 2,617	^R 2,446 2,337	^R 2,453 2,344	^R 3,186 ^R 3,640	-3 1	^R 8,090
June	275	^R 1,812	^R 182	R 1.577	^R 1,684	^R 2,647	2,337	2,344 2,431	^R 3.927	2	^R 8,469
July August	230	^R 1,732	^R 178	^R 1.517	^R 1,660	R 2.607	^R 2.412	^R 2,431	^R 3.786	2	^R 8.277
September	239	^R 1,441	^R 179	^R 1,396	^R 1,476	R 2,353	2,184	^R 2,419	^R 3,306	(s)	^R 7,380
October	R 353	^R 1,371	^R 242	^R 1,418	^R 1,761	^R 2,353	^R 2,386	^R 2,393	^R 3.091	-4	^R 7,829
November	^R 580	1,622	R 340	^R 1,455	^R 1,676	^R 2,541	2,300	2,393	^R 3.030	-4 -1	^R 7,865
December	^R 967	R 2.344	^R 513	^R 1.690	^R 1,651	R 2.484	2,323	^R 2,331	R 3.395	3	^R 8.852
Total	^R 6,763	R 21,609	^R 3,970	^R 18,343	R 20,582	^R 31,440	28,015	28,098	^R 40,160	-9	^R 99,481
2009 January	1,158	^R 2,637	^R 616	^R 1,826	^R 1,695	^R 2,479	^R 2,252	^R 2,260	^R 3,482	3	^R 9,206
February	936	^R 2,122	508	^R 1,544	^R 1,513	^R 2,218	^R 2,037	^R 2,043	^R 2,934	-1	^R 7.926
March	^R 780	^R 1,919	444	^R 1,557	^R 1,579	^R 2,339	2,302	2,309	^R 3,019	-2	^R 8,122
April	^R 545	^R 1,523	313	^R 1,397	^R 1,450	^R 2,207	2,251	2,257	^R 2,824	1	^R 7,385
May	^R 335	^R 1,387	222	^R 1,412	^R 1,446	^R 2,255	^R 2,303	2,310	^R 3,057	2	^R 7,366
June	^R 265	^R 1,544	182	^R 1,483	^R 1,440	^R 2,251	2,306	2,313	^R 3,398	5	^R 7,596
July	253	^R 1,730	189	^R 1,511	^R 1,500	^R 2,306	2,366	2,373	^R 3,612	7	^R 7,926
August	^R 248	^R 1,735	186	1,530	^R 1,515	^R 2,365	2,369	2,376	^R 3,687	6	^R 8,012
September	^R 259	^R 1,439	192	^R 1,383	^R 1,506	^R 2,293	^R 2,191	2,198	^R 3,164	2	^R 7,315
October	397	^R 1,425	259	^R 1,407	^R 1,603	^R 2,403	^R 2,316	^R 2,322	^R 2,983	^R 1	^R 7,558
November	534	^R 1,542	319	^R 1,404	^R 1,609	^R 2,403	2,185	2,191	^R 2,893	^R 1	^R 7,541
December	966	2,339	521	1,737	1,714	2,540	2,312	2,320	3,422	4	8,939
Total	6,676	21,342	3,952	18,188	18,571	28,061	27,190	27,272	38,474	28	94,892

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

for electric utilities and independent power producers.

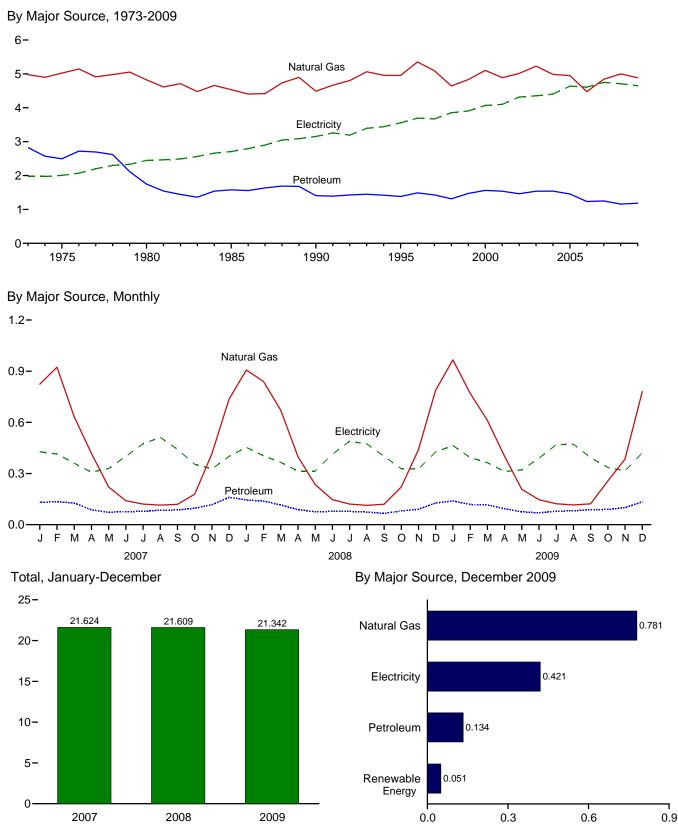
^e See "Primary Energy Consumption" in Glossary.
 ^f Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 2, "Electrical System Energy Losses," at end of section.

^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.doe.gov/emeu/mer/consump.html for all available data bacing in a 1072

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





Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption

(Trillion Btu)

	Primary Consumption ^a											
	Fossil Fuels				Renewable Energy ^b					- -	Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Electricity Retail Sales ^d	System Energy Losses ^e	Total
1973 Total	94	4,977	2,825	7,896	NA	NA	354	354	8,250	1,976	4,703	14,930
1975 Total	63	5,023	2,495	7,580	NA	NA	425	425	8,006	2,007	4,829	14,842
1980 Total	31	4,825	1,748	6,603	NA	NA	850	850	7,453	2,448	5,885	15,787
1985 Total	39	4,534	1,578	6,151	NA	NA	1,010	1,010	7,161	2,709	6,219	16,088
1990 Total	31	4,491	1,407	5,929	6	56	580	641	6,570	3,153	7,291	17,015
1995 Total 1996 Total	17 17	4,954 5,354	1,383 1,488	6,355 6,859	7 7	65 65	520 540	591 612	6,946 7,471	3,557 3,694	8,075 8,397	18,578 19,562
1997 Total	16	5,093	1,400	6,537	8	65	430	503	7,471	3,694	8,315	19,026
1998 Total	12	4,646	1,314	5,971	8	65	380	452	6,424	3,856	8,741	19,020
1999 Total	14	4,835	1,473	6,322	9	64	390	462	6,784	3,906	8,931	19,621
2000 Total	11	5,105	1,563	6,679	9	61	420	490	7,169	4,069	9,250	20,488
2001 Total	12	4,889	1,539	6,440	9	60	370	439	6,879	4,100	9,126	20,105
2002 Total	12	5,014	1,463	6,489	10	59	380	449	6,938	4,317	9,620	20,875
2003 Total	12	5,230	1,539	6,781	13	58	400	471	7,252	4,353	9,603	21,208
2004 Total	11	4,986	1,541	6,538	14	59	410	483	7,020	4,408	9,750	21,179
2005 Total	8	4,951	1,455	6,414	16	61	430	507	6,921	4,638	10,139	21,698
2006 Total	6	4,476	1,233	5,715	18	67	390	475	6,191	4,611	9,968	20,770
2007 January	1	^R 824	131	^R 956	2	6	37	45	^R 1.001	427	954	^R 2,382
February	1	923	134	^R 1,059	2	6	33	40	1,099	414	856	2,370
March	1	632	127	^R 760	2	6	37	45	^R 805	361	768	^R 1,934
April	1	418	87	506	2	6	35	43	549	308	661	1,518
May	1	221	73	294	2	6	37	45	339	329	731	1,399
June	1	141	77	219	2	6	35	43	262	401	884	1,546
July	1	121	78	199	2	6	37	45	244	474	1,039	1,757
August	1	115	85	^R 201	2	6	37	45	245	512	1,136	1,893
September	(s)	119 B 470	86	206 8 070	2	6	35	43	249	442	881	1,572 B 4 400
October	1	^R 179 ^R 416	96	^R 276 ^R 533	2 2	6 6	37 35	45 43	320 ^R 576	354 327	734 699	^R 1,409 ^R 1,603
November December	1	^R 736	116 160	R 898	2	6	35	43 45	^R 942	401	900	^R 2,243
Total	8	^R 4,845	1,251	^R 6,104	22	75	430	527	^R 6,631	4,750	10,242	R 21,624
2008 January	1	^R 907	145	^R 1,053	2	7	42	51	1,103	^R 454	^R 977	^R 2,534
February	1	^R 839	138	^R 978	2	7	39	47	1,025	404	^R 825	R 2,255
March	1	^R 671	116	787	2	7	42	51	838	365	780	1,983
April	^R (s)	399	88	488	2	7	40	49	537	314	^R 668	^R 1,518
May	R (s)	235	76	312	2	7	42	51	362	314	704	1,380
June	1	147	78	226	2	7	40	49	275	413	_ ^R 930	^R 1,619
July	1	121	78	199	2	7	42	51	250	489	^R 1,073	^R 1,812
August	1	113	74	188 R 107	2	7	42	51	239	473	^R 1,019	^R 1,732
September	(s) 1	120 ^R 221	66 81	^R 187 ^R 302	2 2	7 7	40 42	49 51	236 ^R 353	401 328	^R 804 ^R 690	^R 1,441 ^R 1,371
November	1	^R 439	81 91	^R 531	2	7	42 40	51 49	^R 580	328 326	^R 716	1,622
December	1	^R 788	127	^R 916	2	7	40	49 51	^R 967	^R 427	951	^R 2,344
Total	7	^R 4,999	1,158	^R 6,164	26	83	490	599	^R 6,763	R 4,708	10,138	^R 21,609
2009 January	1	^R 967	^R 139	1,107	2	7	42	51	1,158	^R 464	^R 1,016	^R 2,637
February	1	770	119	890	2	6	38	46	936	^R 394	^R 792	^R 2,122
March	1	^R 613	^R 116	730	2	7	42	51	^R 780	363	^R 776	^R 1,919
April	(s)	402	94	_ 496	2	7	40	49	^R 545	312	^R 666	^R 1,523
May	(s)	208	76	^R 284	2	7	42	51	^R 335	_ 321	^R 731	^R 1,387
June	(s)	146	69	216	2	7	40	49	^R 265	^R 390	^R 889	^R 1,544
July	(s)	123	79	^R 202	2	7	42	51	253	469	^R 1,008	^R 1,730
August	(s)	^R 116	^R 81	R 197	2	7	42	51	^R 248	472	^R 1,015	^R 1,735
September	(s)	122	^R 87	R 210	2	7	40	49	^R 259	393	^R 786	^R 1,439
October	1	256 B 205	90	R 346	2	7	42	51	397	336	^R 693	R 1,425
November	1 1	R 385	100	485 915	2	7 7	40	49 51	534 966	316	^R 692	R 1,542
December Total	7	781 4,887	134 1,184	6,077	2 26	83	42 490	599	900 6,676	421 4,650	951 10,015	2,339 21,342
	'	-,007	1,104	0,077	20	00	430	333	0,070	-,050	10,015	21,342

^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.

⁶ 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.

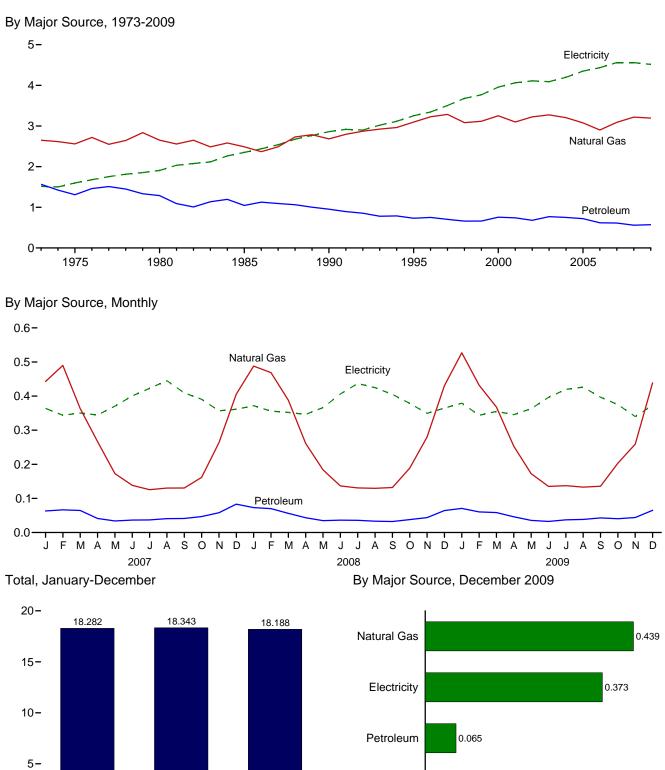
NA=Not available. (s)=Less than 0.5 trillion Btu.

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.doe.gov/emeu/mer/consump.html for all available data beginning in 1973.

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

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)



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

2008

2007

2009

Renewable

Energy

0.011

0.1

0.2

0.3

. 0.4 0.5

0.0

0

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

				Prima	ry Consum	ption ^a						
		Fossil	Fuels			Renewak	ole Energy ^b					
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Bio- mass	Total	Total Primary	Electricity Retail Sales ^f	Electrical System Energy Losses ^g	Total
1973 Total 1975 Total 1980 Total 1980 Total 1990 Total 1995 Total 1996 Total 1996 Total 1997 Total 1998 Total 1998 Total 1997 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total	160 147 115 137 124 117 122 129 93 103 92 97 90 82 103 97 65	2,649 2,558 2,651 2,488 2,682 3,096 3,226 3,285 3,083 3,115 3,252 3,097 3,225 3,097 3,225 3,274 3,204 3,076 2,902	1,565 1,310 1,287 1,045 953 732 751 704 661 661 661 661 756 741 ₹ 680 770 751 721 620	4,374 4,015 4,053 3,670 3,945 4,099 4,118 3,837 3,879 4,099 3,935 3,995 4,126 4,058 3,894 3,586	NA NA NA 1 1 1 1 1 1 (s) 1 1 1 1	NA NA NA 3 5 5 6 7 7 8 8 9 11 12 14 14	7 8 21 24 94 113 129 131 118 121 119 92 95 101 105 105 102	7 8 21 24 98 118 135 138 127 129 128 101 104 113 118 119 117	4,381 4,023 3,695 3,858 4,063 4,235 R 4,256 3,964 4,007 4,227 4,036 4,099 4,239 4,177 4,014 3,703	1,517 1,598 1,906 2,351 2,860 3,252 3,344 3,503 3,678 3,766 3,956 4,062 4,110 4,090 4,198 4,351 4,435	3,609 3,845 4,582 5,398 6,615 7,382 7,603 7,935 8,338 8,610 8,993 9,042 9,159 9,023 9,023 9,028 9,511 9,587	9,507 9,466 10,563 11,444 13,333 14,698 15,181 15,694 15,979 16,384 17,176 17,140 17,368 17,351 17,661 17,876 17,725
2007 January February March April June July August October Docember December Total	7 7 5 5 5 5 5 5 4 6 7 8 70	R 443 R 490 R 363 267 173 R 138 126 R 130 131 162 264 R 406 R 3,091	63 67 65 41 34 37 37 41 41 41 47 58 83 613	514 ^R 564 R 435 313 R 211 R 179 R 167 176 176 R 215 329 R 497 R 3,774	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 4	9 8 9 8 9 9 9 8 9 9 9 9 102	10 9 10 10 10 10 10 10 10 10 10 10 118	524 ^R 573 ^R 445 ^R 322 ^R 221 189 ^R 177 186 186 224 339 ^R 507 ^R 3,892	364 344 350 345 370 400 423 445 409 391 357 361 4,560	812 710 746 823 883 926 987 816 810 763 812 9,831	R 1,699 R 1,627 R 1,541 R 1,407 R 1,415 R 1,472 1,526 1,618 1,410 R 1,426 R 1,459 R 1,680 R 18,282
2008 January February April June July August October December December Total	R 8 7 R 4 R 4 5 5 5 4 5 6 7 67	R 488 R 469 R 388 261 R 184 137 R 131 R 130 R 132 R 189 R 280 R 431 R 3,218	73 70 56 43 35 36 36 33 32 38 44 64 561	^R 569 ^R 546 ^R 451 309 223 ^R 178 171 ^R 168 ^R 169 R 232 R 330 R 502 R 3,846	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 5	9 8 9 9 9 9 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 9 8 9	10 10 10 R 11 R 11 R 11 R 11 10 10 R 124	R 579 R 556 R 461 319 R 234 189 R 182 R 178 R 178 R 179 R 242 R 340 R 513 R 3,970	R 372 R 356 R 352 R 346 R 406 R 437 R 425 R 405 R 379 R 349 R 365 R 3758	R 801 R 727 R 752 R 737 R 821 R 914 R 959 R 915 R 812 R 797 R 766 R 813 R 9,815	R 1,753 R 1,638 R 1,566 R 1,402 R 1,421 R 1,509 R 1,577 R 1,517 R 1,517 R 1,517 R 1,418 R 1,455 R 1,690 R 18,343
2009 January February March April June July August September October November December Total	8 7 6 4 4 4 4 4 4 8 5 6 6 2	R 527 R 432 368 253 172 135 137 133 133 136 203 259 439 3,194	71 60 58 46 33 37 38 43 41 44 65 572	605 499 433 303 212 172 179 176 182 249 309 510 3,828	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 5	9 8 10 9 9 9 9 9 9 9 8 9 9 8 9 9 109	11 9 R 11 10 10 10 R 11 10 10 10 11 124	R 616 508 444 313 222 182 189 186 192 259 319 521 3,952	R 379 R 344 R 355 R 346 R 363 396 R 420 R 426 397 375 340 373 4,514	R 831 R 692 R 758 R 738 R 827 R 905 R 905 R 902 917 R 794 R 773 R 745 843 9,722	R 1,826 R 1,544 R 1,557 R 1,397 R 1,412 R 1,483 R 1,511 1,530 R 1,383 R 1,407 R 1,404 1,737 18,188

^a See "Primary Energy Consumption" in Glossary.

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

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

Conventional hydroelectric power.

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

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

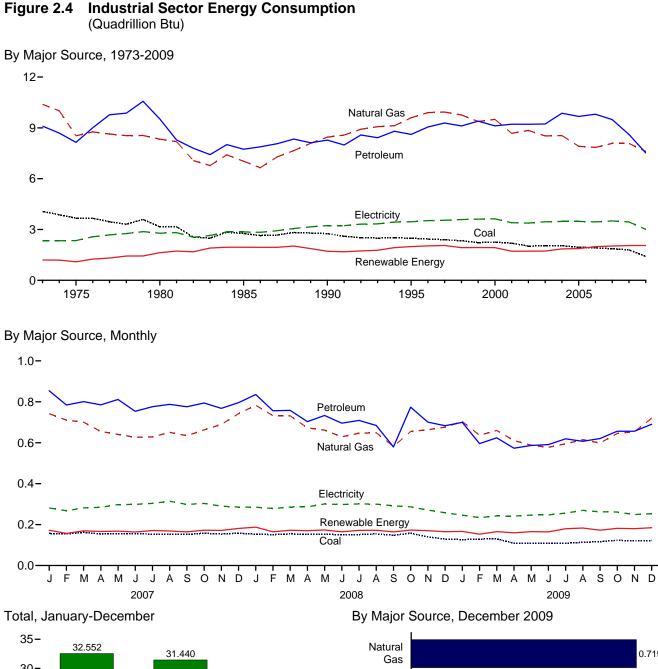
electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section.

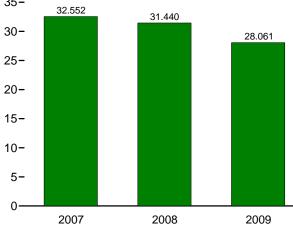
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

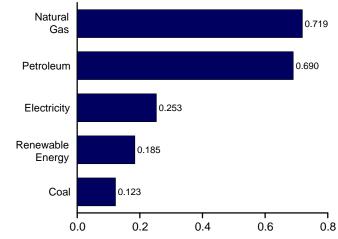
Notes: The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal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

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

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







Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

					Prima	ry Consum	ption ^a						
			Fossil	Fuels			Renewat	ole Energy ^b					
		Coal	Natural Gas ^c	Petro- leum ^d	Total ^e	Hydro- electric Power ^f	Geo- thermal	Bio- mass	Total	Total Primary	Electricity Retail Sales ^g	Electrical System Energy Losses ^h	Total ^e
1973	Total	4,057	10,388	9,104	23,541	35	NA	1,165	1,200	24,741	2,341	5,571	32,653
	Total	3,667	8,532	8,146	20,359	32	NA	1,063	1,096	21,454	2,346	5,647	29,447
	Total	3,155	8,333	9,525	20,977	33	NA	1,600	1,633	22,610	2,781	6,686	32,077
	Total	2,760 2,756	7,032 8,451	7,738 8,278	17,516	33 31	NA 2	^R 1,918 ^R 1,684	^R 1,951 ^R 1,717	^R 19,467 ^R 21,207	2,855 3,226	6,554	^R 28,876 ^R 31,894
	Total Total	2,488	9,592	8,613	19,490 20,754	55	2	^R 1,934	R 1,992	R 22,746	3,220	7,461 7,844	^R 34,045
	Total	2,434	9,901	9,052	21,410	61	3	^R 1,969	R 2,033	R 23,442	3,527	8,018	^R 34,988
	Total	2,395	9,933	9,289	21,663	58	3	^R 1.996	R 2,057	R 23,720	3,542	8,024	R 35,287
	Total	2,335	9,763	9,114	21,280	55	3	^R 1,872	^R 1,929	^R 23,209	3,587	8,131	^R 34,926
	Total	2,227	9,375	9,395	21,054	49	4	^R 1,882	^R 1,934	^R 22,989	3,611	8,254	^R 34,854
	Total	2,256	9,500	9,119	20,941	42	4	^R 1,881	^R 1,928	^R 22,869	3,631	8,256	^R 34,756
	Total	2,192	8,676	9,217	20,115	33	5	^R 1,681	^R 1,719	^R 21,833	3,400	7,569	^R 32,803
	Total	2,019	8,845	9,209	20,135	39	5	^R 1,676 ^R 1,679	^R 1,720 ^R 1,726	R 21,855	3,379	7,529	R 32,762
	Total	2,041 2,047	8,521 8,544	9,232 9,864	19,845 20,593	43 33	3 4	[™] 1,679 ^R 1,817	[™] 1,726 ^R 1,853	^R 21,571 ^R 22,446	3,454 3,473	7,620 7,682	^R 32,645 ^R 33,600
	Total	1.954	7,911	9,673	19,583	32	4	^R 1,837	^R 1,873	^R 21,440	3,473	7,602	^R 32,535
	Total	1,914	7,846	^R 9,805	19,627	29	4	R 1,957	R 1,990	R 21,617	3,451	7,459	R 32,527
2007	January	157	^R 742	854	^R 1,756	2	(s)	^R 170	^R 172	^R 1,928	281	627	^R 2,836
	February	154	^R 711	784	^R 1,650	1	(s)	^R 155	^R 157	^R 1,807	267	553	^R 2,627
	March	162	^R 700	801	^R 1,662	2	(s)	^R 167	R 170	^R 1,831	282	600	^R 2,714
	April	154	R 655	785	R 1,596	2	(s)	^R 164	R 166	R 1,762	284	611	R 2,657
	May	156	^R 640 ^R 627	811	^R 1,611 ^R 1,542	2 1	(s)	^R 166 ^R 162	^R 168 ^R 164	^R 1,778 ^R 1,705	298 299	662	^R 2,738 ^R 2,663
	June	156 153	R 628	753 776	^R 1,556	1	(s) (s)	^R 170	^R 171	^R 1,705	299 304	659 665	R 2,696
	August	152	^R 651	787	^R 1,592	1	(s)	^R 168	^R 169	^R 1,761	314	697	^R 2,772
	September	152	^R 634	776	^R 1,565	1	(s)	^R 163	^R 164	^R 1,730	298	595	R 2,623
	October	158	^R 663	794	^R 1,615	1	(s)	^R 171	^R 173	^R 1,787	303	629	R 2,720
	November	154	^R 689	768	^R 1,616	1	(s)	^R 170	^R 172	^R 1,787	290	621	^R 2,699
	December	158	R 742	796	_ ^R 1,699	2	(s)	_ ^R 179	្ត ^R 181	^R 1,880	286	642	R 2,808
	Total	1,865	^R 8,082	9,486	^R 19,458	16	5	^R 2,005	^R 2,026	^R 21,484	3,507	^R 7,562	^R 32,552
	January	^R 153	^R 783	^R 836	^R 1,776	2	(s)	^R 185	^R 187	^R 1,963	R 285	^R 614	^R 2,863
	February	R 151	^R 733 732	756 758	R 1,642	2 2	(s)	^R 163 ^R 170	^R 165 ^R 172	^R 1,807 ^R 1,824	^R 278 ^R 286	^R 569 ^R 610	^R 2,654 ^R 2,720
	March	155 152	^R 673	^R 703	1,652 1,535	2	(s) (s)	^R 168	^R 172	^R 1,706	R 287	^R 610	R 2,602
	May	153	^R 662	733	^R 1,551	2	(s)	172	170	^R 1,725	R 301	^R 674	R 2,700
	June	^R 150	R 629	696	^R 1,484	1	(s)	^R 163	^R 165	^R 1,649	^R 298	^R 671	^R 2,617
	July	152	^R 646	^R 709	^R 1,512	1	(s)	^R 170	^R 172	^R 1,684	^R 301	^R 661	^R 2,647
	August	^R 154	^R 649	^R 684	^R 1,488	1	(s)	^R 170	^R 172	^R 1,660	^R 300	^R 646	^R 2,607
	September	148	^R 582	^R 580	^R 1,312	1	(s)	^R 163	^R 164	^R 1,476	R 292	^R 585	^R 2,353
	October	158	R 655	774 R 701	^R 1,588 ^R 1,505	1	(s)	^R 172 ^R 169	^R 173 ^R 170	^R 1,761 ^R 1,676	R 287	^R 604 ^R 594	^R 2,651 ^R 2,541
	November December	140 ^R 129	664 ^R 676	^R 701 ^R 683	^R 1,486	1 2	(s)	^R 163	^R 165	^R 1,676	^R 271 ^R 258	^R 575	^R 2,541
	Total	^R 1,796	^R 8,083	^R 8,613	^R 18,532	^R 17	(s) 5	^R 2,029	^R 2,050	^R 20,582	^R 3,444	^R 7,415	^R 31,440
2009	January	^R 126	^R 704	^R 700	^R 1,528	2	(s)	^R 164	^R 167	^R 1,695	246	^R 539	^R 2,479
	February	129	^R 636	^R 596	^R 1,360	1	(s)	^R 151	^R 153	^R 1,513	234	^R 471	^R 2,218
	March	130	^R 660	^R 624	^R 1,413	2	(s)	^R 163	^R 166	^R 1,579	^R 243	^R 518	^R 2,339
	April	109	611	^R 573	^R 1,291	2	(s)	^R 157	^R 160	^R 1,450	241	^R 515	^R 2,207
	May	108	^R 588	R 587	R 1,281	2	(s)	^R 163	^R 166	^R 1,446	247	^R 562	R 2,255
	June	108	^R 578	R 591	R 1,275	2	(s)	R 162	^R 164 ^R 170	^R 1,440	247	^R 564	R 2,251
	July	109 114	^R 595 ^R 615	^R 619 ^R 607	^R 1,321 ^R 1,332	1	(s) (s)	178 ^R 181	^R 179 ^R 183	^R 1,500 ^R 1,515	256 ^R 270	550 ^R 580	^R 2,306 ^R 2,365
	August September	114 117	^R 598	^R 621	^R 1,332	1	(s) (s)	^R 171	^R 172	^R 1,506	262	^R 525	R 2,293
	October	^R 124	^R 645	R 656	^R 1,421	1	(s)	^R 180	R 182	^R 1,603	261	^R 539	R 2,403
	November	R 120	^R 654	^R 656	^R 1,429	1	(s)	^R 178	^R 180	^R 1,609	249	^R 545	^R 2,403
	December	123	719	690	1,530	2	(s)	182	185	1,714	253	572	2,540
	Total	1,416	7,603	7,519	16,515	18	` 5	2,032	2,056	18,571	3,009	6,481	28,061

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

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

are included in "Biomass." ^e Includes coal coke net imports, which are not separately displayed. See

Tables 1.4a and 1.4b.

 ⁹ Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. ^h Total losses are calculated as the primary energy consumed by the electric

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

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

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

Notes: • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/consump.html for all available

data beginning in 1973

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

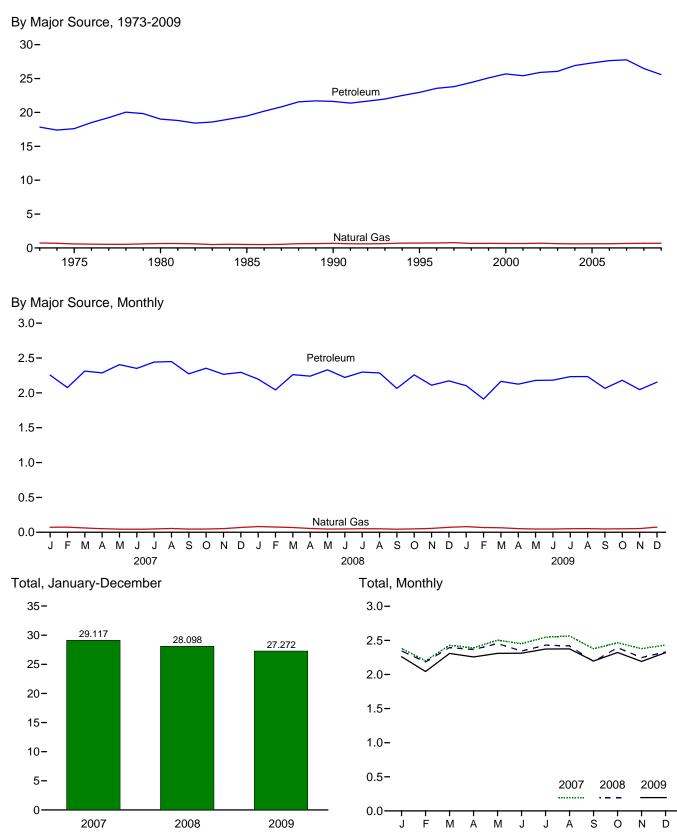


Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)

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

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Co	nsumptiona					
		Fossi	l Fuels		Renewable Energy ^b	Total	Electricity Retail	Electrical System Energy	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Primary	Sales ^e	Losses	Total
1973 Total	3	743	17,831	18,576	NA	18,576	11	25	18,612
1975 Total	1	595	17,614	18,209	NA	18,209	10	24	18,244
1980 Total	(^g).	650	19,009	19,658	NA	19,658	11	27	19,696
1985 Total	(g)	519	19,471	19,990	^R 50	^R 20,040	14	32	^R 20,086
1990 Total	(°)	680	21,625	22,305	^R 60	^R 22,365	16	37	^R 22,419
1995 Total	(g)	724	22,954	23,678	R 113	R 23,790	17	39	R 23,846
1996 Total	(g)	737	R 23.564	R 24,301	^R 81	R 24.382	17	38	R 24,437
1997 Total	(a)	780	R 23,812	R 24,592	R 102	R 24,694	17	38	^R 24,749
1998 Total	(°)	666	R 24,421	R 25.087	R 113	R 25.200	17	38	R 25.255
1999 Total	(g)	675	R 25,097	R 25,773	R 118	R 25,891	17	40	R 25,948
2000 Total	(9)	672	R 25,681	R 26,353	R 135	R 26,488	18	42	^R 26,548
2001 Total	(9)	658	^R 25,412	R 26,070	R 142	R 26.212	20	43	R 26,275
2002 Total	(g)	702	R 25,912	R 26,614	R 170	R 26.783	19	43	R 26,844
2003 Total	(°)	630	R 26,062	R 26.692	R 230	R 26,922	23	51	R 26,996
2003 Total		603	^R 26,924	R 27,526	R 290	R 27,816	25	55	^R 27,895
2005 Total	{g}	625	R 27,307	R 27,932	R 339	R 28.271	25	56	^R 28,353
2006 Total	(9) (9)	625	R 27,649	R 28,274	^R 475	R 28,749	25	54	^R 28,829
2000 10(a)	(3)	025	27,049	20,274	475	20,749	23	54	20,029
2007 January	(g)	72	2.254	2.326	^R 48	^R 2,374	3	6	^R 2,382
February	(g)	R 74	2.075	^R 2,149	43	^R 2,192	2	5	R 2.200
March	(g)	^R 61	2,312	^R 2,373	R 47	^R 2,420	3	5	^R 2,428
April	(9)	52	2,287	2,373	R 43	^R 2,382	2	5	^R 2,389
May	(9)	45	^R 2,405	2,353	⁴³ ^R 47	^R 2,497	2	5	^R 2,503
	(9)	45	2,403	^R 2,395	^R 50	^R 2,445	2	5	^R 2,452
June	(9)	43	2,351	^R 2,489	^R 51	^R 2,540	2	5	^R 2,547
July	(9)	40 55	2,442	^R 2,503	^R 53	^R 2,557	2	5	^R 2,564
August	(9)			~2,503	^R 51	·· 2,557			
September	(9)	46	R 2,273	2,319	1 51 P 50	R 2,370	2	5	^R 2,377
October		47	2,354	^R 2,400	R 58	^R 2,458	2	5	R 2,465
November	(g)	53	2,266	^R 2,318	R 53	R 2,372	2	5	R 2,379
December	(g)	69	^R 2,294	2,364	^R 59	^R 2,423	2	5	^R 2,430
Total	(^g)	^R 665	^R 27,762	^R 28,427	^R 603	^R 29,029	28	60	^R 29,117
2008 January	(g)	^R 82	2.197	^R 2,279	^R 58	^R 2,337	2	5	^R 2,345
February	(g)	R 75	^R 2,042	^R 2,117	^R 59	^R 2,176	2	5	^R 2,183
March	(g)	R 68	^R 2,261	^R 2,329	^R 60	^R 2,389	2	5	^R 2,396
April	(g)	^R 55	^R 2,239	^R 2,294	^R 66	2,360	2	4	2,366
May	(9)	^R 47	^R 2,331	2,378	R 68	^R 2,446	2	5	^R 2,453
June	(9)	R 48	^R 2,222	^R 2,269	^R 68	2,337	2	5	2,344
	(9)	⁴⁰ ^R 51	2,222	^R 2,349	^R 75	2,337	2	5	2,344
July	(9)	^R 50	2,298	^R 2,336	R 77	^{2,424} ^R 2,412	2	5 5	^R 2,419
August September	(9)	R 44	2,285 2,064	^R 2,108	^R 76	2,184	2	5 4	^R 2,190
October	(9)	^R 49	^R 2,258	2,307	^R 79	^R 2,386	2	4 5	^R 2,393
November	(9)	^R 56	^R 2,110	^R 2,307	^R 75	2,386	2	5 5	2,393
	(9)	^R 72	^R 2,172	^R 2,244	^R 79	2,241	2	5	^R 2.331
December		R 696	R 2,172		R 839		26	R 57	
Total	(^g)	. 696	^R 26,480	^R 27,176	~ 839	28,015	26	1. 21	28,098
2009 January	(g)	^R 80	2.103	^R 2.184	^R 68	^R 2,252	3	^R 6	^R 2,260
February	(9)	^R 69	1,911	^R 1,980	^R 57	R 2,037	2	4	R 2,043
March	(9)	^R 65	^R 2,165	^R 2,230	^R 72	2,302	2	5	2,309
	(9)	^R 53	^R 2,125	^R 2,230	^R 73	2,302 2,251	2	5 4	2,309 2,257
April	(9)	^R 46	··· ∠, 1∠0 R 0 470	^R 2,178	R 79	^R 2,303	2	4 R 5	
May	(9)	R 47	^R 2,178		R 77				2,310
June		\`4/	2,182	^R 2,229	"// P 00	2,306	2	5	2,313
July	(g)	R 51	2,233	^R 2,284	R 82	2,366	2	5	2,373
August	(g)	^R 53	2,234	^R 2,286	R 82	2,369	2	5	2,376
September	(g)	^R 48	2,065	^R 2,113	^R 79	^R 2,191	2	4	2,198
October	(g)	^R 50	^R 2,180	^R 2,231	^R 85	^R 2,316	2	4	^R 2,322
November	(g)	^R 54	2,047	^R 2,101	^R 84	2,185	2	4	2,191
December	(9)	74	2,153	2,227	85	2,312	2	5	2,320
Total	(^g)	688	25,578	26,266	923	27,190	26	57	27,272

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

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

beginning in 1996, other energy service providers. ¹ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are 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 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.doe.gov/emeu/mer/consump.html for all available

data beginning in 1973

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

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)

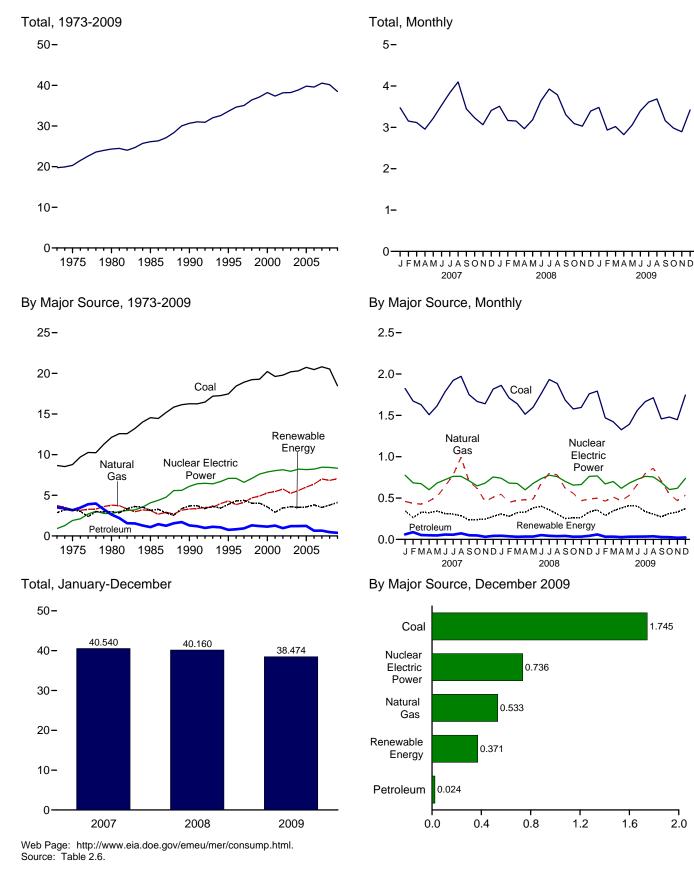


Table 2.6 **Electric Power Sector Energy Consumption**

(Trillion Btu)

						Prima	ry Consum	ption ^a				_	
		Fossil	Fuels	1	-		1	Renewabl	e Energy ^b	[1	Elec-	
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	tricity Net Imports	Total Primary
1973 Total	8,658	3,748	3,515	15,921	910	2,827	43	NA	NA	3	2,873	49	19,753
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	70	NA	NA	2	3,194	21	20,307
1980 Total 1985 Total	12,123 14,542	3,778 3,135	2,634 1,090	18,534 18,767	2,739 4,076	2,867 2,937	110 198	NA (s)	NA (s)	4 14	2,982 3,150	71 140	24,327 26,132
1990 Total ^e	16,261	3,309	1,289	20,859	6,104	3,014	326	4	29	317	3,689	8	30,660
1995 Total	17,466	4,302	755	22,523	7,075	3,149	280	5	33	422	3,889	134	33,621
1996 Total	18,429	3,862	817	23,109	7,087	3,528	300	5	33	438	4,305	137	34,638
1997 Total 1998 Total	18,905 19,216	4,126 4,675	927 1,306	23,957 25,197	6,597 7,068	3,581 3,241	309 311	5 5	34 31	446 444	4,375 4,032	116 88	35,045 36,385
1999 Total	19,210	4,075	1,300	25,393	7,610	3,241	312	5	46	444	4,032	99	30,385
2000 Total	20,220	5,293	1,144	26,658	7,862	2,768	296	5	57	453	3,579	115	38,214
2001 Total	19,614	5,458	1,277	26,348	8,029	2,209	289	6	70	337	2,910	75	37,362
2002 Total	19,783	5,767	961	26,511	8,145	2,650	305	6	105	380	3,445	72	38,173
2003 Total 2004 Total	20,185 20,305	5,246 5,595	1,205 1,212	26,636 27,112	7,959 8,222	2,781 2,656	303 311	5 6	115 142	397 388	3,601 3,503	22 39	38,218 38,876
2005 Total	20,303	6,015	1,212	27,112	8,161	2,656	309	6	142	406	3,568	39 84	39,800
2006 Total	20,462	6,375	648	27,485	8,215	2,839	306	5	264	412	3,827	63	39,590
2007 January	1,825	459	60	2,345	776	256	27	(s)	24	39	346	6	3,474
February	1,673	436	88	2,196	684	182	24	(s)	25	32	263	10	3,153
March April	1,629 1,508	426 464	53 50	2,108 2,022	674 601	237 234	25 24	(s) 1	30 31	35 33	328 324	6 10	3,116 2,956
May	1,615	519	48	2,183	682	256	24	1	29	34	344	12	3,220
June	1,786	643	58	2,487	723	224	26	1	26	35	312	11	3,533
July	1,922	778	56	2,757	763	221	26	1	21	36	306	13	3,838
August	1,973	993	73	3,038	763	196	26	1	27	36	286	12	4,099
September	1,750 1,669	699 618	50 48	2,500 2,335	709 647	145 145	26 27	1 (c)	28 33	35 35	235 241	5 7	3,448 3,229
October November	1,640	459	40 31	2,335	680	145	27	(s) (s)	33	36	241	9	3,229
December	1,817	510	42	2,369	755	180	27	(s)	34	37	278	7	3,409
Total	20,808	7,005	657	28,470	8,455	2,430	308	6	341	423	3,508	107	40,540
2008 January	^R 1,863	^R 546	^R 44	^R 2,453	739	^R 203	^R 26	(s)	^R 42	37	^R 308	11	^R 3,512
February	^R 1,709	^R 450	37	^R 2,195	681	^R 184	23	(s)	^R 38 ^R 47	R 35	R 279	10	^R 3,166
March	^R 1,642 ^R 1,514	^R 472 ^R 481	31 ^R 34	^R 2,145 ^R 2,029	676 599	^R 212 ^R 217	26 26	1	^R 51	^R 38 34	^R 324 ^R 330	7 9	^R 3,152 ^R 2,967
May	^R 1,599	^R 487	R 35	R 2,120	678	R 267	20	1	^R 53	R 34	^R 381	8	R 3,186
June	^R 1,762	^R 681	52	^R 2,495	735	^R 286	27	1	^R 51	^R 36	^R 401	9	^R 3,640
July	^R 1,934	801	43	2,778	777	^R 251	27	1	^R 39	^R 39	^R 357	15	^R 3,927
August	^R 1,886	781 8 c 1 c	39	R 2,705	759	R 208	27	1	^R 32 ^R 31	R 38 R 36	R 307	15	R 3,786
September October	^R 1,684 ^R 1,578	^R 616 558	42 ^R 33	^R 2,343 ^R 2,168	701 ^R 657	^R 158 ^R 151	26 27	1	^R 47	^R 36 ^R 35	^R 252 ^R 261	10 6	^R 3,306 ^R 3,091
November	^R 1,596	^R 468	^R 34	^R 2,098	663	^R 153	26	(s)	R 49	^R 36	^R 265	4	R 3,031
December	^R 1.761	^R 488	^R 44	^R 2,292	762	^R 204	^R 27	(s)	^R 65	^R 38	^R 334	7	^R 3.395
Total	^R 20,526	^R 6,829	^R 468	^R 27,823	8,427	^R 2,494	^R 314	^R 9	^R 546	^R 435	^R 3,798	112	^R 40,160
2009 January	^R 1,794	^R 497	60 8 22	^R 2,351	768	^R 233	^R 28	(s)	^R 59	^R 36	^R 356	7	^R 3,482
February	1,470 1,423	^R 463 ^R 513	^R 33 34	^R 1,965 ^R 1,969	671 700	^R 175 ^R 212	^R 25 ^R 28	(s) 1	^R 56 ^R 68	^R 33 ^R 37	^R 289 ^R 346	8 4	^R 2,934 ^R 3,019
March April	1,423	^R 467	^R 28	1,820	618	^R 249	25	1	^R 72	R 33	R 379	4 6	^R 2,824
May	^R 1.391	^R 532	32	^R 1,956	682	R 288	^R 26	1	^R 60	^R 34	^R 409	9	R 3,057
June	^R 1,561	^R 665	33	^R 2,259	726	^R 285	^R 26	1	^R 53	^R 37	^R 402	11	^R 3,398
July	1,667	^R 798	34	^R 2,499	763	R 225	R 27	1	^R 46	R 37	^R 336	14	^R 3,612
August	1,713	R 860	37	R 2,611	755	R 188 R 160	^R 27 ^R 26	1	^R 52 ^R 43	^R 38 ^R 34	R 305	15	R 3,687
September October	1,457 ^R 1,479	^R 705 ^R 548	29 26	^R 2,191 ^R 2,054	689 603	^R 169 192	R 26	1	R 62	R 33	^R 273 ^R 315	11 12	^R 3,164 ^R 2,983
November	^R 1,479	^R 469	20	^R 1,937	^R 617	R 205	R 27	(s)	R 63	R 35	R 330	R 8	R 2,893
December	1,745	533	24	2,303	736	242	28	(s)	62	39	371	11	3,422
Total	18,474	7,052	390	25,916	8,328	2,663	320	8	697	426	4,113	116	38,474

^a See "Primary Energy Consumption" in Glossary.
 ^b See Table 10.2c for notes on series components.
 ^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels, See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

Conventional hydroelectric power.

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

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

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

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

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

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

Energy Consumption by Sector

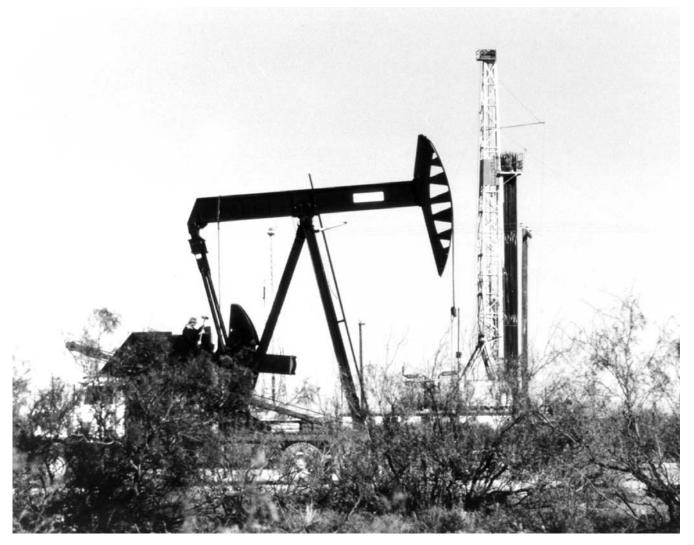
Note 1. Energy Consumption Data and Surveys. Most of the data in this section of the *Monthly Energy Review* (*MER*) are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the U.S. Energy Information Administration (EIA). Supply surveys are directed to suppliers 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.

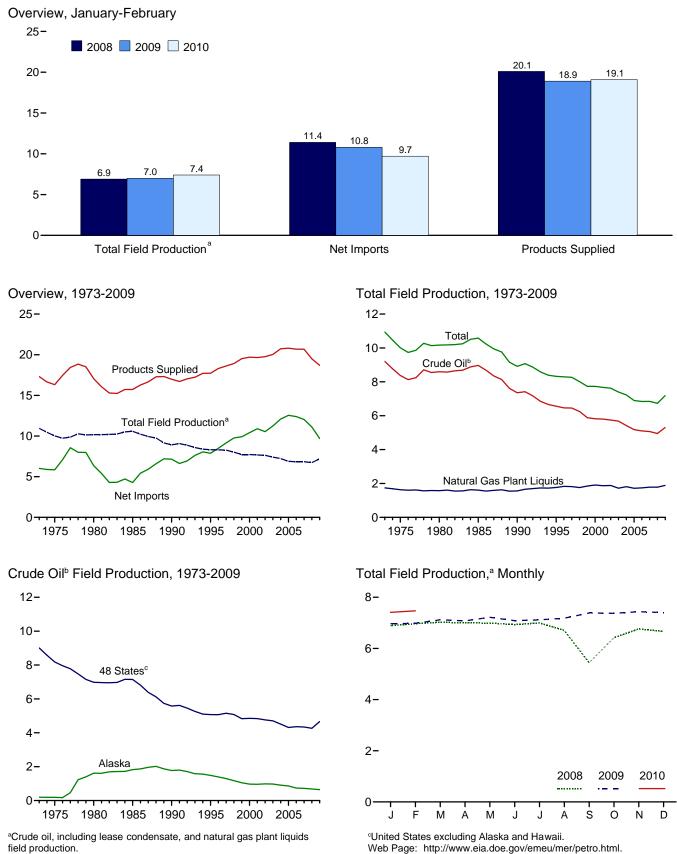


Petroleum



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

Figure 3.1 Petroleum Overview (Million Barrels per Day)



^bIncludes lease condensate.

Source: Table 3.1.

Table 3.1 **Petroleum Overview**

(Thousand Barrels per Day)

		Fie	eld Produc	tion ^a		Banaw			Trade				
	48 States ^c	Crude Oil 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		198	9,208	1,738	10,946	NA	453	6,256	231	6,025	135	18	17,308
1975 Average		191	8,375	1,633	10,007	NA	460	6,056	209	5,846	32	41	16,322
1980 Average		1,617	8,597	1,573	10,170	NA	597	6,909	544	6,365	140	64	17,056
1985 Average		1,825	8,971	1,609	10,581	NA	557	5,067	781	4,286	-103	200	15,726
1990 Average		1,773	7,355	1,559	8,914	NA	683	8,018	857	7,161	107	338	16,988
1995 Average		1,484 1,393	6,560 6,465	1,762 1,830	8,322 8,295	NA NA	774 837	8,835 9,478	949 981	7,886 8,498	-246 -151	496 528	17,725 18,309
1996 Average 1997 Average		1,393	6,465	1,817	8,269	NA	850	^{9,478} 10,162	1,003	9,158	143	487	18,620
1998 Average		1,175	6,252	1,759	8.011	NA	886	10,708	945	9,764	239	495	18,917
1999 Average		1,050	5,881	1,850	7,731	NA	886	10,852	940	9,912	-422	567	19,519
2000 Average		970	5,822	1,911	7,733	NA	948	11,459	1,040	10,419	-69	532	19,701
2001 Average		963	5,801	1,868	7,670	NA	903	11,871	971	10,900	325	501	19,649
2002 Average	4,761	984	5,746	1,880	7,626	NA	957	11,530	984	10,546	-105	527	19,761
2003 Average	4,706	974	5,681	1,719	7,400	NA	974	12,264	1,027	11,238	56	478	20,034
2004 Average		908	5,419	1,809	7,228	NA	1,051	13,145	1,048	12,097	209	564	20,731
2005 Average		864	5,178	1,717	6,895	NA	989	13,714	1,165	12,549	145	513	20,802
2006 Average		741	5,102	1,739	6,841	NA	994	13,707	1,317	12,390	60	522	20,687
2007 Average	4,342	722	5,064	1,783	6,847	NA	996	13,468	1,433	12,036	-148	653	20,680
2008 January	4,389	711	5,100	1,791	6,891	NA	1,071	13,568	1,620	11,949	361	699	20,247
February	4,416	706	5,122	1,845	6,967	NA	962	12,660	1,848	10,812	-446	841	20,029
March		726	5,151	1,875	7,026	NA	929	12,598	1,807	10,791	-287	799	19,831
April		701	5,117	1,885	7,002	NA	938	13,331	1,739	11,593	389	672	19,815
May		685	5,102	1,885	6,987	NA	1,067	12,902	1,793	11,109	248	883	19,798
June		655 640	5,098	1,836	6,934	NA	1,014 1,031	13,398	2,146 2,051	11,252	397 390	875	19,678
July		640 544	5,133 4,894	1,861 1,815	6,994 6,708	NA NA	1,031	13,124 13,118	2,051	11,073 11,064	390 403	849 859	19,557 19,272
August September		681	3,930	1,514	5,444	NA	865	11,562	1,323	10,239	-206	1,084	17,839
October		716	4,669	1,749	6,418	NA	1,016	13,202	1,658	11,545	213	932	19,698
November		728	5,024	1,740	6,764	NA	1,000	12,881	1,720	11,160	700	827	19,052
December		702	5,056	1,607	6,663	NA	970	12,607	1,856	10,751	152	910	19,142
Average		683	4,950	1,784	6,734	NA	993	12,915	1,802	11,114	195	852	19,498
2009 January	^E 4,567	^E 679	^E 5,246	1,721	^E 6,967	664	954	13,173	1,927	11,246	879	174	19,125
February	^E 4,483	^E 708	^E 5,191	1,792	^E 6,983	682	934	12,190	1,822	10,369	288	26	18,706
March	^E 4,561	E 709	^E 5,270	1,850	E 7,120	676	906	12,474	1,838	10,636	790	124	18,672
April	E 11 1 1 1 1	E 653	^E 5,228	1,851	^E 7,078	677	990	11,973	1,900	10,073	559	212	18,471
May		E 678	^E 5,283	1,934	E7,217	706	979	11,596	2,015	9,581	558	251	18,176
June		E 571	E 5,183	1,901	E7,084	731	1,031	11,902	1,963	9,939	332	309	18,762
July		E 551	E 5,233	1,884	E7,117	763	987	12,053	2,348	9,704	81	282	18,771
August		^E 572 ^E 652	^E 5,286 ^E 5,444	1,896 1,941	^E 7,182 ^E 7,385	764 756	1,002 1,012	11,243 11,721	2,119 2,105	9,124 9,616	-426 541	234 134	18,732 18,362
September October		E 658	= 5,444 E 5,422	1,941	E 7,385	756	997	10,856	2,105	9,616 8,633	-735	218	18,362
November	E 11 1 1 1 1	E 658	E 5,422	1,955	E7,436	815	997 948	11.080	2,223	0,033 9.051	-273	210	18,727
December		RE 655	^{RE} 5,460	^R 1,937	^{RE} 7,397	^R 815	^R 1,029	^R 10,487	^R 1,996	^R 8,490	^R -1,206	R 226	^R 19,163
Average		E 645	^{RE} 5,310	R 1,886	^{RE} 7,196	R 735	R 981	11,726	R 2,026	R 9,700	R 112	R 186	^R 18,686
2010 January	^E 4,796	^E 639	^E 5,435	^E 1,974	^E 7,409	NA	^E 932	^E 11.272	^E 1.740	^E 9,532	E-71	NA	^E 18,799
February		E 643	E 5,499	E 1,970	E7,469	NA	E 946	E 11,532	E 1,707	E 9,825	E -90	NA	E 19,356
2-Month Average	- '	^E 641	^E 5,465	E 1,972	^E 7,437	NA	E 939	E 11,395	^E 1,724	^E 9,671	E -80	NA	E 19,063
2009 2-Month Average 2008 2-Month Average		693 708	5,220 5,110	1,754 1,817	6,975 6,928	672 NA	945 1,018	12,706 13,129	1,877 1,730	10,830 11,399	598 -29	104 768	18,926 20,142

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

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

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 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. NA=Not available. E=Estimate.

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 neu/mer/petro.html. • For related information, see http://www.eia.doe.gov/emeu/mer/petro.html.

 http://www.eia.doe.gov/emeu//mer/petro.html.
 For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.
 Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports.
 • 1976-1980: EIA, Energy Data Reports, Petroleum Statement, Annual, annual reports.
 • 1981-2008: EIA, Petroleum Supply Annual, annual reports.
 • 2009 and 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum State, surtem and Monthly. Enorgy Data surtem supply elevations. 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, 1973-2009 Net Inputs and Net Production, Monthly 20-**Total Net Production** 20-Total Net Production 15-15 Crude Oil Net Inputs Total Total Net Net Crude Oil Net Inputs^a 10-10-Inputs Inputs 5-5-Other Net Inputs^b Other Net Inputs^b 0 0 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D 1975 1980 1985 1990 1995 2000 2005 2008 2009 2010 Net Production, Selected Products, 1973-2009 Net Production, Selected Products, Monthly 10-10-Motor Gasoline^a 8-8-Motor Gasoline 6-6-Distillate Fuel Oild 4-Distillate Fuel Oild 2 2-Jet Fuel^e Jet Fuel^e Residual Fuel Oil Residual Fuel Oil J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D 0 0 1980 1985 1990 1995 2000 2005 1975 2008 2009 2010 Net Production, Selected Products 10-February 2008 E February 2009 February 2010 8.6 8.5 8.4 8-6-4.2 4.0 4-3.6 2-1.5 1.4 1.3 0.6 0.6 0.6 0.5 0.5 0.5 0 Jet Fuel Residual Fuel Oil Motor Distillate Propane^f Gasoline Fuel Oild eBeginning in 2005, includes kerosene-type jet fuel only. ^aIncludes lease condensate. ^bNatural gas plant liquids and other liquids.

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

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

Source: Table 3.2.

Table 3.2 Refinery and Blender Net Inputs and Net Production

(Thousand Barrels per Day)

	Refine	ery and Ble	ender Net I	nputs ^a			Refinery	and Blen	der Net Proc	duction ^D		
	0		011		Discillato	1.7	LPC	S c				
	Crude Oil ^d	NGPL ^e	Other Liquids ^f	Total	Distillate Fuel Oil ^g	Jet Fuel ^h	Propane ⁱ	Total	Motor Gasoline ^j	Residual Fuel Oil	Other Products ^k	Total
1973 Average	12,431	815	155	13,401	2,820	859	271	375	6,527	971	2,301	13,854
1975 Average	12,442	710	72	13,225	2,653	871	234	311	6,518	1,235	2,097	13,685
1980 Average	13,481	462	81	14,025	2,661	999	269	330	6,492	1,580	2,559	14,622
1985 Average	12,002	509	681	13,192	2,686	1,189	295	391	6,419	882	2,183	13,750
1990 Average	13,409	467	713	14,589	2,925	1,488	404	499	6,959	950	2,452	15,272
1995 Average	13,973	471	775	15,220	3,155	1,416	503	654	7,459	788	2,522	15,994
1996 Average	14,195	450	843	15,487	3,316	1,515	520	662	7,565	726	2,541	16,324
1997 Average	14,662	416	832	15,909	3,392	1,554	565	691	7,743	708	2,671	16,759
1998 Average	14,889	403	853	16,144	3,424	1,526	550	674	7,892	762	2,753	17,030
1999 Average	14,804	372	927	16,103	3,399	1,565	569	684	7,934	698	2,709	16,989
2000 Average	15,067	380	849	16,295	3,580	1,606	583	705	7,951	696	2,705	17,243
2001 Average	15,128	429	825	16,382	3,695	1,530	556	667	8,022	721	2,651	17,285
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	441	1,149	16,811	3,954	1,546	540	573	8,318	628	2,782	17,800
2006 Average	15,242	501	1,238	16,981	4,040	1,481	543	627	8,364	635	2,827	17,975
2007 Average	15,156	505	1,337	16,999	4,133	1,448	562	655	8,358	673	2,728	17,994
2008 January	14,804	540	1,414	16,758	4,130	1,535	569	478	8,516	588	2,582	17,829
February	14,625	502	1,538	16,665	3,980	1,467	535	507	8,495	643	2,536	17,627
March	14,364	461	1,901	16,727	3,953	1,475	526	676	8,373	662	2,518	17,656
April	14,799	449	2,279	17,527	4,287	1,492	520	809	8,560	710	2,607	18,465
May	15,263	445	2,211	17,919	4,459	1,558	546	878	8,700	734	2,658	18,986
June	15,417	435	2,183	18,036	4,587	1,605	544	867	8,564	695	2,731	19,050
July	15,255	439	2,144	17,838	4,523	1,647	534	837	8,523	584	2,754	18,869
August	14,947	413	2,236	17,596	4,466	1,609	526	814	8,513	579	2,660	18,641
September	12,759	409	2,040	15,208	3,681	1,312	420	513	7,855	485	2,227	16,073
October	14,552	563	2,162	17,277	4,435	1,401	503	460	8,889	575	2,533	18,293
November	14,606	576	1,925	17,107	4,489	1,425	515	369	8,722	588	2,516	18,108
December	14,352	589	2,178	17,119	4,511	1,383	489	341	8,850	597	2,406	18,089
Average	14,648	485	2,019	17,153	4,294	1,493	519	630	8,548	620	2,561	18,146
2009 January	14,112	554	1,793	16,459	4,276	1,419	479	382	8,445	582	2,309	17,413
February	14,116	497	1,922	16,535	4,222	1,395	483	480	8,429	572	2,371	17,469
March	14,091	449	2,147	16,688	3,937	1,372	519	626	8,668	584	2,407	17,594
April	14,354	418	2,321	17,092	4,133	1,433	544	791	8,761	476	2,490	18,082
May	14,459	435	2,231	17,125	4,086	1,378	556	808	8,742	606	2,484	18,104
June	14,845	434	2,294	17,573	4,044	1,405	567	850	9,042	614	2,649	18,604
July	14,633	439	2,240	17,312	3,929	1,514	555	818	8,903	588	2,546	18,298
August	14,568	406	2,147	17,121	3,962	1,391	554	842	8,755	632	2,539	18,122
September	14,684	488	1,818	16,990	4,099	1,396	561	633	8,779	606	2,490	18,002
October	14,053 13.861	547 617	1,924 2.071	16,525 16,550	3,984 4,019	1,291 1,311	529 552	486 388	8,752 8,897	673 626	2,335 2.257	17,521 17,497
November December	^R 13,979	^R 587	^R 2,071	^R 16,615	^R 3,878	^R 1,465	552 ^R 554	^R 443	^{8,697} ^R 8,987	^R 623	^R 2,257	^R 17,644
	^R 14,313	R 489	^R 2,049	16,883	R 4,046	^R 1,398	^R 538	R 630	^R 8,765	R 599	R 2,427	R 17,864
2010 Ιορμοτι	E 13.715	^{RF} 541	^{RE} 1.915	^{RF} 16,172	E 3.568	^E 1,349	^E 488	^F 419	E 8,491	^E 592	^{RE} 2,685	^{RE} 17.104
	E 13,715 E 13,922	F 476	E 2,002		E 3,568	E 1,349	E 513	F 419	E 8,491	E 592	E 2,685	E 17,104
		F 510	E 1,957	^F 16,400 F 16,280	E 3,588	E 1,281	E 513	F 488	E 8,577	E 555	E 2,857	E 17,346
2-Month Average	E 13,813	510	-1,957	10,200	- 3,577	-1,317	- 200	452	- 0,002	- 5/4	- 2,700	-17,219
2009 2-Month Average 2008 2-Month Average	14,114 14,718	527 522	1,854 1,474	16,495 16,713	4,250 4,057	1,408 1,502	481 553	429 492	8,437 8,506	577 615	2,338 2,560	17,440 17,731

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

с Liquefied petroleum gases.

d Includes lease condensate.

е

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

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

^g Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in

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

Includes propylene.

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

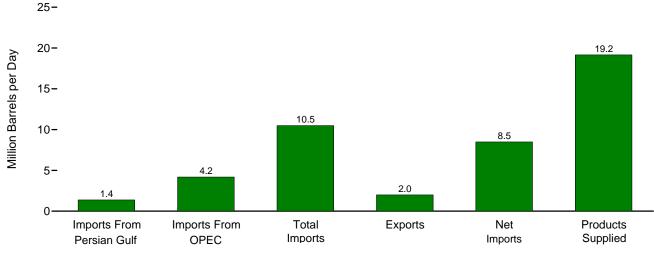
^k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast.

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.doe.gov/emeu/mer/petro.html. • For related information, see

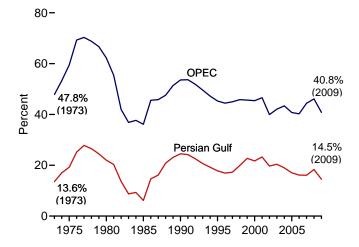
 http://www.eia.doe.gov/emeu//mer/petro.html.
 For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.
 Sources:
 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports.
 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports.
 1981-2008: Petroleum Supply Annual, reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Depters and the petroleum Status Report data system. Forecasting System, and Monthly Energy Review data system calculations

Figure 3.3a Petroleum Trade: Overview

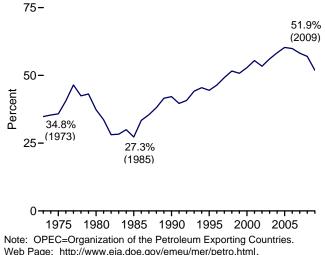
Overview, December 2009



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

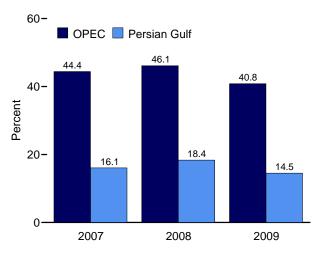


Net Imports as Share of Products Supplied, 1973-2009

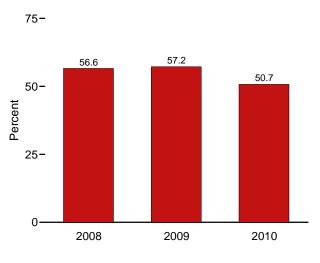


Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Source: Table 3.3a.

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



Net Imports as Share of Products Supplied, January-February



									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	arrels per Day	y				Pei	rcent		
1973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1975 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
1980 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
1985 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
1990 Average 1995 Average 1996 Average 1997 Average 1998 Average	1,966	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
	1,573	4,002	8,835	949	7,886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
	1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
	1,755	4,569	10,162	1,003	9,158	18,620	9.4	24.5	54.6	49.2	17.3	45.0
	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
1999 Average 2000 Average 2001 Average 2002 Average 2003 Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
	2,488	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
	2,269	4,605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9
	2,501	5,162	12,264	1,027	11,238	20,034	12.5	25.8	61.2	56.1	20.4	42.1
2004 Average	2,493	5,701	13,145	1,048	12,097	20,731	12.0	27.5	63.4	58.4	19.0	43.4
	2,334	5,587	13,714	1,165	12,549	20,802	11.2	26.9	65.9	60.3	17.0	40.7
	2,211	5,517	13,707	1,317	12,390	20,687	10.7	26.7	66.3	59.9	16.1	40.2
	2,163	5,980	13,468	1,433	12,036	20,680	10.5	28.9	65.1	58.2	16.1	44.4
2008 January February March April June July August	2,307 2,663 2,518 2,323 2,450 2,363 2,507 2,438	6,415 5,834 5,934 6,262 5,931 6,054 6,125 6,391	13,568 12,660 12,598 13,331 12,902 13,398 13,124 13,118	1,620 1,848 1,807 1,739 1,793 2,146 2,051 2,053	11,949 10,812 10,791 11,593 11,109 11,252 11,073 11,064	20,247 20,029 19,831 19,815 19,798 19,678 19,557 19,272	11.4 13.3 12.7 11.7 12.4 12.0 12.8 12.7	31.7 29.1 29.9 31.6 30.0 30.8 31.3 33.2	67.0 63.2 63.5 67.3 65.2 68.1 67.1 68.1	59.0 54.0 54.4 58.5 56.1 57.2 56.6 57.4	17.0 21.0 20.0 17.4 19.0 17.6 19.1 18.6	47.3 46.1 47.1 47.0 46.0 45.2 46.7 48.7
August	2,438 2,086 2,304 2,283 2,208 2,370	5,127 5,875 5,799 5,679 5,954	11,562 13,202 12,881 12,607 12,915	1,323 1,658 1,720 1,856 1,802	10,239 11,545 11,160 10,751 11,114	17,839 19,698 19,052 19,142 19,498	12.7 11.7 11.7 12.0 11.5 12.2	28.7 29.8 30.4 29.7 30.5	64.8 67.0 67.6 65.9 66.2	57.4 57.4 58.6 58.6 56.2 57.0	18.0 17.5 17.7 17.5 18.4	44.3 44.5 45.0 45.0 46.1
2009 January February April May June July August October December December December December	2,218 1,972 1,823 1,700 1,480 1,586 1,955 1,466 1,718 1,545 1,593 R 1,378 R 1,378	5,676 4,956 5,215 4,754 4,471 4,814 4,623 4,567 5,021 4,581 8,589 R 4,187 R 4,786	13,173 12,190 12,474 11,973 11,596 11,902 12,053 11,243 11,721 10,856 R 10,487 11,726	1,927 1,822 1,838 1,900 2,015 1,963 2,348 2,119 2,105 2,223 2,029 R 1,996 R 2,026	11,246 10,369 10,636 10,073 9,581 9,939 9,704 9,616 8,633 9,051 R 8,490 R 9,700	19,125 18,706 18,672 18,471 18,176 18,762 18,771 18,732 18,362 18,727 18,550 R 19,163 R 19,163	11.6 10.5 9.8 9.2 8.1 8.5 10.4 7.8 9.4 8.3 8.6 R 7.2 R 9.1	29.7 26.5 27.9 25.7 24.6 24.4 27.3 24.6 24.4 27.3 24.5 24.7 R 21.8 R 25.6	68.9 65.2 66.8 64.8 63.8 63.4 64.2 60.0 63.8 58.0 59.7 ^R 54.7 62.8	58.8 55.4 57.0 54.5 52.7 53.0 51.7 48.7 52.4 46.1 48.8 8 44.3 51.9	16.8 16.2 14.6 14.2 12.8 13.3 16.2 13.0 14.7 14.2 14.4 R 13.1 R 14.5	43.1 40.7 41.8 39.7 38.6 40.5 38.4 40.6 42.8 42.2 41.4 R 39.9 R 40.8
2010 January	NA	NA	^E 11,272	^E 1,740	^E 9,532	^E 18,799	NA	NA	^E 60.0	^E 50.7	NA	NA
February	NA	NA	^E 11,532	^E 1,707	^E 9,825	^E 19,356	NA	NA	^E 59.6	^E 50.8	NA	NA
2-Month Average	NA	NA	^E 11,395	^E 1,724	^E 9,671	^E 19,063	NA	NA	^E 59.8	^E 50.7	NA	NA
2009 2-Month Average	2,101	5,334	12,706	1,877	10,830	18,926	11.1	28.2	67.1	57.2	16.5	42.0
2008 2-Month Average	2,479	6,134	13,129	1,730	11,399	20,142	12.3	30.5	65.2	56.6	18.9	46.7

Table 3.3a Petroleum Trade: Overview

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

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

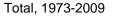
R=Revised. E=Estimate. NA=Not available. Notes: • Readers of this table may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 Monthly Energy Review. See http://www.eia.doe.gov/emeu/mer/pdf/pages/imported_oil.pdf. · Beginning in October 1977,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

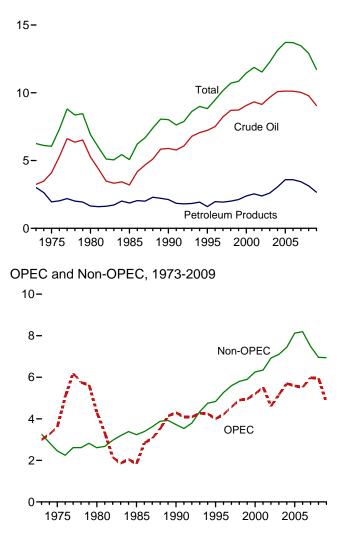
Web Pages: For all available data beginning in 1973, see • http://www.eia.doe.gov/emeu/mer/petro.html. • For related information, see

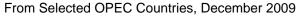
http://www.eia.doe.gov/eineu/merpero.html. • For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1981-2008: EIA, Petroleum Supply Annual, annual reports. • 2009 and 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

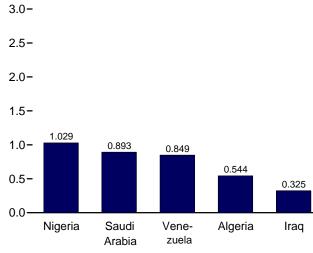
Figure 3.3b Petroleum Trade: Imports

(Million Barrels per Day)

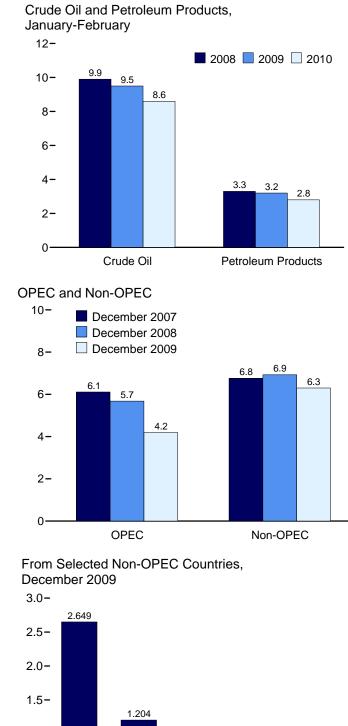








Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Sources: Tables 3.3b-3.3d.



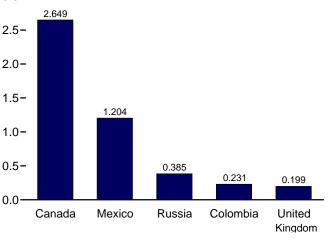


Table 3.3b Petroleum Trade: Imports and Exports by Type

(Thousand Barrels per Day)

					Imp	orts						Exports	
	Crud	le Oil ^a	Distillate	Jet	LPG	b	Motor	Residual			Crude	Petroleum	
	SPR ^{c,d}	Total	Fuel Oil	Fuele	Propane ^f	Total	Gasoline ^g	Fuel Oil	Other ^h	Total	Oila	Products	Total
1973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
1975 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
1980 Average	44	5,263	142	80	69	216	140	939	130	6,909	287	258	544
1985 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	577	781
1990 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
1995 Average	0	7,230	193	106	102	146	265	187	708	8,835	95	855	949
1996 Average	0	7,508	230	111	119	166	336	248	879	9,478	110	871	981
1997 Average	0	8,225 8,706	228 210	91 124	113 137	169 194	309 311	194 275	945 888	10,162	108 110	896 835	1,003 945
1998 Average	8	8,706	210	124	137	194	382	275	943	10,708 10.852	118	822	945 940
1999 Average	8	9,071	295	162	161	215	427	352	943 938	11,459	50	990	1,040
2000 Average	11	9,328	344	148	145	206	454	295	1,095	11,871	20	951	971
2002 Average	16	9,140	267	107	145	183	498	249	1.085	11,530	0	975	984
2003 Average	Ö	9,665	333	109	168	225	518	327	1.087	12,264	12	1.014	1.027
2004 Average	77	10,088	325	127	209	263	496	426	1,419	13,145	27	1,021	1,048
2005 Average	52	10,126	329	190	233	328	603	530	1,609	13,714	32	1,133	1,165
2006 Average	8	10,118	365	186	228	332	475	350	1,881	13,707	25	1,292	1,317
2007 Average	7	10,031	304	217	182	247	413	372	1,885	13,468	27	1,405	1,433
2008 January	17	10,082	309	156	263	327	381	435	1,879	13,568	12	1,608	1,620
February	0	9,636	249	106	214	288	354	308	1,719	12,660	20	1,828	1,848
March	35	9,636	249	110	218	252	374	416	1,561	12,598	29	1,778	1,807
April	17	9,979	266	180	155	232	386	361	1,927	13,331	14	1,725	1,739
May	94	9,664	188	140	164	225	383	351	1,951	12,902	19	1,774	1,793
June	43 26	10,018 10.132	180 181	91 72	99 130	186 194	461 323	383 282	2,080 1.940	13,398	22 29	2,124 2.022	2,146 2.051
July August	20 0	10,132	101	72	186	194 306	323 205	282 334	1,940	13,124 13.118	40	2,022 2,013	2,051
September	0	8,447	195	88	186	268	203	289	2,023	11,562	39	1,283	1,323
October	0	10.086	166	98	179	225	239	355	2.033	13,202	43	1,615	1,658
November	Ő	9.944	203	47	196	250	115	285	2.036	12,881	31	1.690	1,720
December	Õ	9,419	262	68	229	281	148	383	2,045	12,607	46	1,810	1,856
Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,802
2009 January	-	9,852	368	89	210	239	236	424	1,965	13,173	36	1,890	1,927
February	-	9,205	327	69	195	211	252	372	1,754	12,190	30	1,792	1,822
March	221	9,441	268	92	209	233	263	384	1,793	12,474	30	1,807	1,838
April	130	9,406	166	90	108	133	227	396	1,555	11,973	27	1,874	1,900
May	34 90	8,931 9,172	206 244	66 65	103 68	160 87	244 218	387 384	1,601 1,731	11,596 11,902	53 57	1,962 1,906	2,015 1,963
June	90	9,172 9,227	244 191	115	98	118	218	384 286	1,731	12,053	31	2,317	2,348
July August	- 16	9,227 8.883	166	92	98 62	89	230 304	260	1,000	12,053	35	2,317 2.084	2,348
September	32	9,223	205	92 91	94	116	142	326	1,618	11,721	42	2,064	2,115
October	_ 02	8,566	177	84	142	167	161	303	1,397	10,856	72	2,151	2,223
November	35	8,709	163	71	206	231	149	282	1,474	11,080	46	1,983	2,029
December	^R 26	^R 8,133	^R 217	^R 55	^R 212	R 230	^R 232	^R 307	^R 1,312	^R 10,487	^R 65	^R 1,931	^R 1,996
Average	R 49	^R 9,060	R 224	R 82	R 142	^R 168	R 222	^R 343	^R 1,627	11,726	R 44	^R 1,982	^R 2,026
2010 January	NA	^E 8,423	^E 491	^E 112	E 183	NA	E 221	E 387	NA	E 11,272	E 33	E 1,707	E 1,740
February	NA	E 8,819	^E 401	E 83	E 191	NA	E 204	E 445	NA	^E 11,532	E 33	^E 1,674	E 1,707
2-Month Average	NA	^E 8,611	^E 448	^E 98	^E 187	NA	^E 213	^E 415	NA	^E 11,395	^E 33	E 1,691	^E 1,724
2009 2-Month Average 2008 2-Month Average	- 9	9,545 9,866	349 280	79 132	203 239	226 308	243 368	399 374	1,865 1,802	12,706 13,129	33 16	1,844 1,714	1,877 1,730

^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 jet fuel only; naphtha-type jet fuel is included in "Other."

f Includes propylene.

^g Finished motor gasoline. Through 1980, also includes motor gasoline

 ^h Asphalt and road oil, finished aviation gasoline, 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. NA=Not available. - - =Not applicable. - =No data reported. E=Estimate.

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.doe.gov/emeu/mer/petro.html. • For related information, see

http://www.eia.doe.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. • **1981-2008**: EIA, *Petroleum Supply Annual,* annual reports. • **2009** and **2010**: EIA, *Petroleum Supply Monthly,* monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system and *Monthly Energy* Review data system calculations.

Table 3.3c Petroleum Trade: Imports From OPEC Countries

(Thousand Barrels per Day)

	Algeria	Angolaa	Ecuador ^b	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Total OPEC
973 Average	136	(^a)	48	4	47	164	459	486	1,135	514	2.993
975 Average	282	(a)	57	2	16	232	762	715	702	832	3,601
980 Average	488	(a)	27	28	27	554	857	1,261	481	577	4,300
985 Average	187	(a)	67	46	21	4	293	168	605	439	1,830
990 Average	280	(a)	49	518	86	Ō	800	1,339	1,025	199	4,296
995 Average	234	(a)	(^b)	0	218	ŏ	627	1,344	1,480	98	4,002
996 Average	256	(a)	(b)	1	236	Ő	617	1,363	1,676	62	4,211
997 Average	285	() (^a)	(b)	89	253	Ő	698	1,303	1,773	64	4,569
998 Average	205	() (a)	(b)	336	301	0	696	1,491	1,719	73	4,303
999 Average	259	() (^a)	(b)	725	248	Ő	657	1,478	1,493	93	4,953
000 Average	235	() (a)	(b)	620	240	0	896	1,572	1,546	53 72	5,203
	278	(a)	(b)	795	250	0	885	1,662	1,540	105	5,528
001 Average	278	(a)	(b)	459	230	0	621	1,552	1,398	83	4,605
002 Average	382	(ª)	(^b)	439	220	0	867	1,552	1,396	61	4,003
003 Average	452	(a)	(b)	656	220	20	1,140	1,774	1,576	70	5,102
004 Average	452	(ª)	(^b)	531		20 56		,	,	47	,
005 Average	478 657	(~) (a)	(^b)	553	243 185	56 87	1,166	1,537	1,529	47 38	5,587
006 Average		(^a)	(~)				1,114	1,463	1,419		5,517
007 Average	670	508	(^b)	484	181	117	1,134	1,485	1,361	39	5,980
08 January	651	578	260	543	239	105	1,191	1,503	1,276	70	6,415
February	380	351	186	780	272	87	1,025	1,608	1,131	14	5,834
March	441	388	238	773	203	124	1,174	1,542	1,033	18	5,934
April	632	591	170	679	181	133	1,221	1,462	1,189	4	6,262
May	620	476	162	583	263	116	918	1,604	1,171	19	5,931
June	492	649	184	693	183	117	1,016	1,464	1,215	43	6,054
July	456	652	227	696	122	128	822	1,690	1,329	5	6,125
August	530	495	298	663	203	113	1,166	1,573	1,305	47	6,391
September	657	416	233	543	110	63	591	1,431	1,051	32	5,127
October	558	539	200	577	240	132	963	1,487	1,162	16	5,875
November	677	450	229	476	292	79	827	1,514	1,236	20	5,799
December	484	562	258	519	219	43	939	1,471	1,159	27	5,679
Average	548	513	221	627	210	103	988	1,529	1,189	26	5,954
009 January	720	543	278	568	242	64	509	1,362	1,353	38	5.676
February	372	671	243	554	251	60	498	1,115	1,139	51	4,956
March	463	657	215	587	181	61	891	967	1,106	88	5,215
April	612	462	237	484	105	118	733	1,021	891	90	4,754
May	272	505	193	263	93	92	600	1,079	1,341	33	4,471
June	458	447	154	374	179	103	830	959	1,237	75	4,814
July	329	320	122	365	261	59	879	1,153	959	176	4,623
August	551	364	131	500	148	68	917	766	1,070	51	4,567
September	641	414	153	428	246	54	894	1,045	1,146	_	5,021
October	491	450	180	499	104	91	869	943	955	_	4,581
November	400	431	155	458	287	140	980	848	890	_	4,589
December	544	278	86	325	160	23	1,029	893	849	_	4,187
Average	488	460	178	450	187	78	804	1,012	1,078	50	4.786

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

^b Ecuador was a member of OPEC from 1973-1992, and rejoined OPEC in November 2007. For 1993-2007, Ecuador is included in "Total Non-OPEC" on Table 3.3d. $^{\rm c}$ Imports from the Neutral Zone are reported as originating in either Saudi

Arabia or Kuwait depending on the country reported to U.S. Customs.

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

- =No data reported.

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.

For all available data beginning in 1973, see Web Pages: • http://www.eia.doe.gov/emeu/mer/petro.html. • For related information, see http://www.eia.doe.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. • 1981-2008: EIA, Petroleum Supply Annual, annual reports.

• 2009 and 2010: 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	13	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
	49	934	182	755	55	102	45	189	282	1,128	3,721
1990 Average	49	1,332	219	1,068	15	273	4J 25	383	278	1,120	4,833
1995 Average	9	1,332	219	,	19	313	25	303	313	1,233	,
1996 Average	5	1,424	234	1,244	25	309	13	226	300	1,377	5,267
1997 Average				1,385						,	5,593
1998 Average	26	1,598	354	1,351	31	236	24	250	293	1,640	5,803
1999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1,828	296	1,440	43	341	90	324	268	1,631	6,343
2002 Average	116	1,971	260	1,547	66	393	210	478	236	1,649	6,925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8,190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 January	225	2,654	198	1,308	94	86	392	213	383	1,600	7,153
February	172	2,530	240	1,328	141	100	451	155	351	1,357	6,826
March	191	2,563	165	1,359	129	80	402	218	289	1,268	6,664
April	235	2,582	170	1,382	185	137	402	229	340	1,406	7,069
May	338	2,367	278	1,220	199	183	460	237	340	1,347	6,971
June	315	2,430	180	1,256	262	122	764	286	314	1,416	7,344
July	275	2,417	192	1,292	152	94	572	187	294	1,524	6,999
August	208	2,247	257	1,401	143	84	490	222	298	1,378	6,727
September	271	2,399	149	1,003	197	74	433	281	345	1,282	6,435
October	354	2,585	200	1,434	176	70	394	386	267	1,463	7,328
November	286	2,534	176	1,406	138	114	445	245	338	1,403	7,082
December	225	2,604	198	1,228	203	80	382	176	289	1,543	6,928
Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 January	450	2,544	269	1,430	127	90	516	147	367	1,556	7,496
February	381	2,515	241	1,364	186	74	478	285	333	1,379	7,235
March	338	2,438	283	1,199	141	192	650	208	264	1,546	7,259
April	278	2,281	347	1,289	117	112	779	424	290	1,301	7,219
May	386	2,206	243	1,186	150	171	813	250	313	1,407	7,125
June	299	2,200	313	1,183	157	173	578	268	268	1,320	7,088
July	392	2,529	305	1,316	118	119	637	188	200	1,443	7,000
	275	2,039	269	1,159	160	52	512	225	223	1,443	6,676
August September	275	2,324	301	1,139	122	52	486	225	223	1,277	6,700
		,		,		59 97				,	,
October	174	2,360	292	1,136	84		385	266	215	1,265	6,275
November	268	2,527	237	1,083	227	110	425	190	205	1,218	6,491
December	184	2,649	231	1,204	99	65	385	199	289	996	6,300
Average	307	2,464	278	1,234	140	110	554	245	276	1,331	6,939

^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.

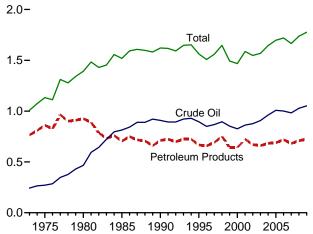
Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products 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.doe.gov/emeu/mer/petro.html. • For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

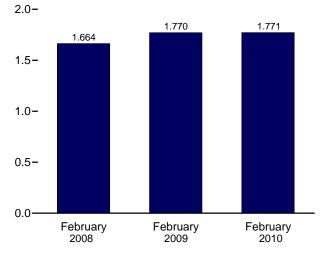
Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1981-2008: EIA, *Petroleum Supply Annual,* annual reports. • 2009 and 2010: EIA, *Petroleum Supply Monthly,* monthly reports.

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

Overview, 1973-2009



Total Stocks (Crude Oil and Petroleum Products)





235

231

216

Motor

Gasoline

250-

200-

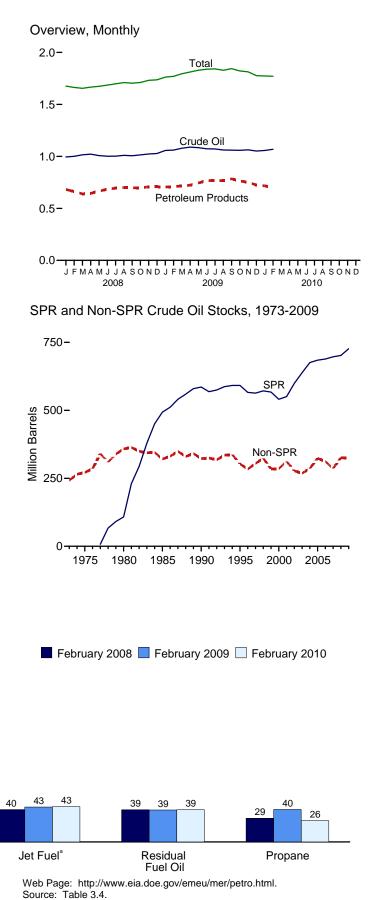
150-

100-

50-

0-

Million Barrels



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

TOI Source. Table 3.4.

151

146

Distillate Fuel Oil

118

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oil ^a			• •	LPG	b				
	SPRc	Non-SPR ^{d,e,f}	Total ^{e,f}	Distillate Fuel Oil ^{f,g}	Jet Fuel ^h	Propane ^{f,i}	Total ^f	Motor Gasoline ^{f,j}	Residual Fuel Oil ^f	Other ^k	Total ^f
1973 Year		242	242	196	29	65	99	209	53	179	1.008
1975 Year		271	271	209	30	82	125	235	74	188	1,133
1980 Year	108	358	466	205	42	65	120	261	92	205	1,392
1985 Year	493	321	814	144	40	39	74	223	50	174	1,519
1990 Year	586	323	908	132	52	49	98	220	49	162	1,621
1995 Year	592	303	895	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	43	43	89	193	36	157	1,493
	541	286	826	125	41	43	83	195	36	164	1,493
2000 Year											,
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 January	698	296	995	131	41	39	77	233	39	160	1,677
February	699	302	1,001	118	40	29	65	235	39	165	1,664
March	700	315	1,015	108	39	26	64	222	40	167	1,655
April	701	320	1,021	107	39	30	77	211	39	171	1,666
	704	304	1,008	114	40	38	92	208	40	172	1,674
June	706	296	1,002	122	40	43	103	211	41	168	1,686
July	707	295	1,002	131	41	48	113	207	37	167	1,698
August	707	303	1.010	133	41	54	127	196	39	165	1.711
September	702	304	1.006	128	38	59	137	190	39	167	1.704
October	702	313	1,014	128	38	60	133	195	39	163	1,711
November	702	322	1,023	136	38	61	126	204	39	166	1,732
December	702 702	326	1,023	146	38	55	113	204 214	36	162	1,737
2009 January	704	353	1.057	143	41	46	96	218	35	173	1.762
February	704	355	1,060	145	43	40	89	216	39	177	1,770
March	713	366	1,000	140	42	40	90	210	39	185	1,795
April	713	370	1,079	144	42	40	90	217	35	185	1,812
	719	362	1,089	140	43	44 55	116	213	39	187	1.829
May	724		,			55 65	132	206			
June		349	1,073	160	44				37	179	1,839
July	724	347	1,071	161	46	70	143	210	35	175	1,842
August	724	337	1,061	165	45	71	152	206	33	166	1,828
September	725	335	1,060	172	46	75	156	212	35	164	1,845
October	725	333	1,058	170	43	73	146	209	35	161	1,822
November	726	337	1,063	171	42	64	124	218	37	158	1,814
December	727	^R 325	^R 1,052	^R 165	^R 43	^R 51	^R 103	^R 223	^R 38	^R 153	1,776
2010 January	E 727	E 330	^E 1,057	^E 156	^E 43	E 33	^{RF} 80	E 229	E 40	^{RE} 169	^E 1,773
February	E 727	E 342	E 1,069	E 151	E 43	E 26	F 69	E 231	E 39	E 169	E 1,771

^a Includes lease condensate.

^b Liquefied petroleum gases.

^c "SRR" 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.

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

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

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

Includes propylene.

Includes finished motor gasoline, motor gasoline blending components, and gasohol; 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 includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast. – –=Not applicable.

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

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

http://www.etal.adve.gov/on_gas/petroleum/inflo_giance/petroleum/inflo_ 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. • 1981-2008: Petroleum Supply Annual, annual reports. • 2009 and 2010: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Economic a Suptom, and Monthly, Energy Parlow data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

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

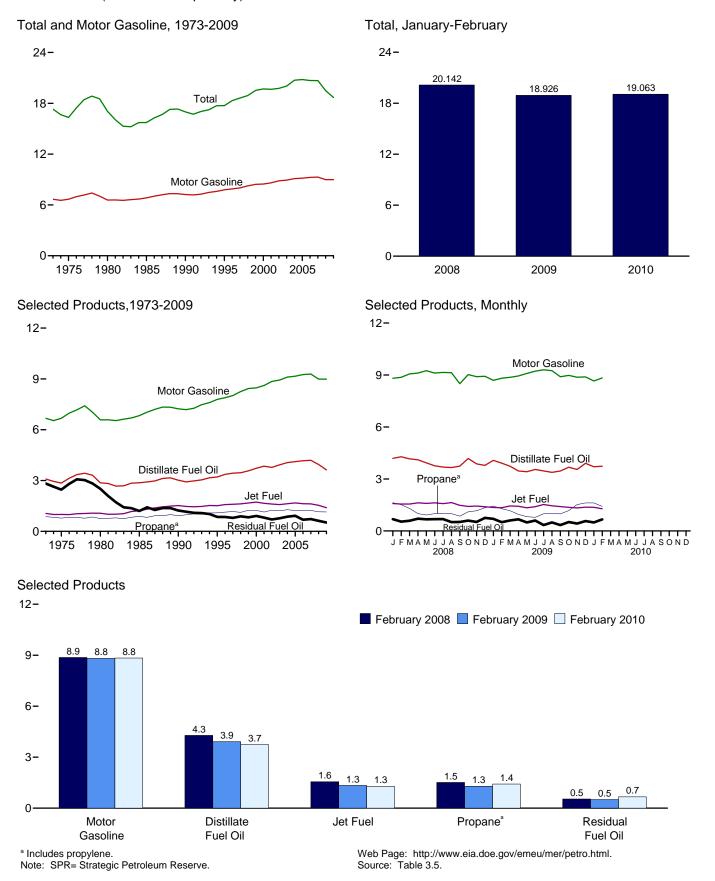


Table 3.5 Petroleum Products Supplied by Type

(Thousand Barrels per Day)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil		Fuel Oil ^b	Fuelc	sene	Propane ^d	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	396 425	35 27	2,866 2,868	1,068 1,218	158 114	754 883	1,469 1,599	159 145	6,579 6,831	237 264	2,508 1,202	1,581 1,032	17,056 15,726
1985 Average 1990 Average	423	24	3,021	1,522	43	917	1,556	143	7,235	339	1,202	1,373	16,988
1995 Average	486	21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725
1996 Average		20	3,365	1,578	62	1,136	2,012	151	7,891	379	848	1,518	18,309
1997 Average	505	22	3,435	1,599	66	1,170	2,038	160	8,017	377	797	1,605	18,620
1998 Average	521	19	3,461	1,622	78	1,120	1,952	168	8,253	447	887	1,508	18,917
1999 Average	547	21	3,572	1,673	73	1,246	2,195	169	8,431	477	830	1,532	19,519
2000 Average		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	503 537	16 17	3,927 4.058	1,578 1,630	55 64	1,215 1,276	2,074 2,132	140 141	8,935 9,105	455 524	772 865	1,579 1,657	20,034 20,731
2004 Average 2005 Average	546	19	4,058	1,630	70	1,270	2,132	141	9,105	524	920	1,605	20,731
2006 Average	521	18	4,169	1,633	54	1,215	2,050	137	9,253	522	689	1,640	20,687
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 January	354	13	4,192	1,581	14	1,630	2,399	137	8,810	501	683	1,564	20,247
February	301	12	4,281	1,553	29	1,514	2,320	131	8,866	425	539	1,570	20,029
March	295	16	4,161	1,552	25	1,301	2,166	144	9,066	473	589	1,345	19,831
April		17	4,106	1,622	1	1,001	1,860	145	9,112	482	707	1,403	19,815
May	461	19	3,931	1,590 1,623	7 5	919 998	1,845 1,914	143 138	9,251	456 451	673 683	1,422 1,405	19,798 19,678
June July	570 556	16 16	3,763 3,688	1,623	5 -1	998 1,017	1,914	138	9,110 9,150	538	684	1,405	19,678
August		18	3,659	1,639	3	1,000	1,915	157	9,134	471	511	1,249	19,272
September	531	16	3,740	1,478	12	857	1,429	97	8,497	353	520	1,167	17,839
October	465	12	4,182	1,417	10	1,106	1,832	146	9,024	466	597	1,547	19,698
November	314	15	3,872	1,440	20	1,167	1,899	91	8,904	438	521	1,540	19,052
December	271	14	3,783	1,395	47	1,343	1,931	104	8,927	503	753	1,414	19,142
Average	417	15	3,945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
2009 January	230	17	4,075	1,357	36	1,438	2,166	111	8,690	430	700	1,313	19,125
February	271 337	7 11	3,915 3,732	1,341 1,441	39 19	1,286 1,165	2,028 2,019	99 112	8,816 8,866	422 420	506 605	1,263 1,110	18,706 18,672
March April	262	18	3,460	1,441	19	958	1,872	131	8,948	420 500	673	1,169	18,471
May	394	13	3,421	1,338	14	823	1,751	102	9,087	503	490	1,061	18,176
June	524	18	3,550	1,403	11	785	1,662	137	9,224	536	600	1,097	18,762
July	412	19	3,464	1,527	1	989	1,858	114	9,300	371	338	1,368	18,771
August	534	16	3,383	1,450	6	1,011	1,889	141	9,250	409	493	1,160	18,732
September	464	19	3,459	1,404	-1	987	1,875	123	8,897	472	341	1,309	18,362
October	368	11	3,677	1,364	17	1,173	2,143	123	8,978	349	516	1,180	18,727
November	285 R 004	9 R 4 5	3,549	1,326	23 R 05	1,520	2,485	109 R 100	8,871	375 R 254	425 R 574	1,093	18,550 B 40 400
December	^R 204 ^R 357	^R 15 14	^R 3,902 ^R 3,631	^R 1,372 ^R 1,396	^R 25 ^R 17	^R 1,619 ^R 1,146	^R 2,489 ^R 2,020	^R 123 ^R 119	^R 8,888 ^R 8,986	^R 351 ^R 428	^R 571 ^R 522	^R 1,223 ^R 1,195	^R 19,163 R 19 696
Average			-	-					-				^R 18,686
2010 January	F 232	F 10	^E 3,704	^E 1,363	^{RF} 53	^E 1,619	F2,363	^{RF} 113	^E 8,655	F 461	^E 493	^{RE} 1,351	^E 18,799
February	F 267	F 14	E 3,738	E 1,282	F 52	^E 1,419	F 2,262	F 103	E 8,832	F 471	E 668	E 1,667	E 19,356
2-Month Average	^F 248	F 12	^E 3,720	^E 1,325	۶53 ⊦	^E 1,524	^F 2,315	^F 108	^E 8,739	^F 466	^E 576	^E 1,501	^E 19,063
2009 2-Month Average 2008 2-Month Average	249 328	12 13	3,999 4,235	1,349 1,567	38 21	1,366 1,574	2,100 2,361	105 134	8,750 8,837	426 464	608 613	1,289 1,567	18,926 20,142

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.

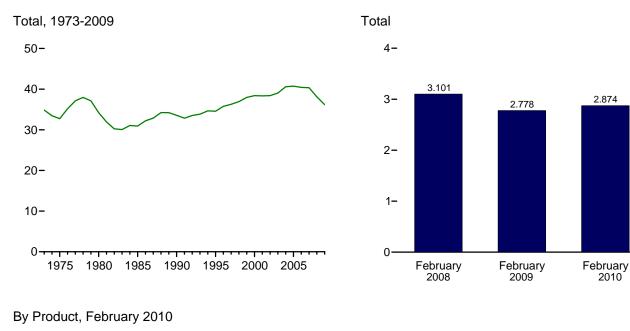
^e Finished motor gasoline. Beginning in 1993, also includes ethanol blended

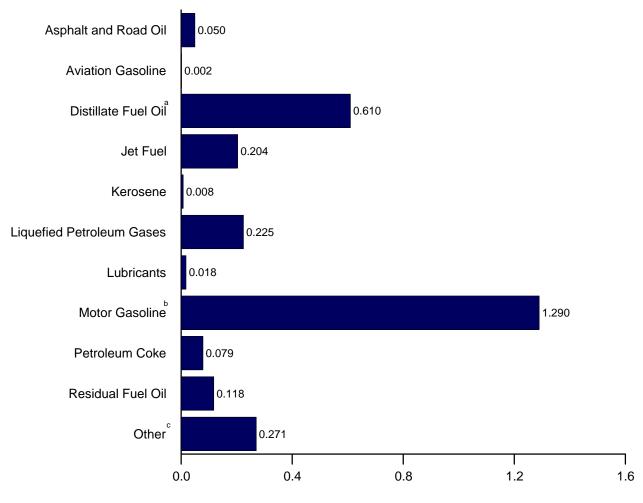
into motor gasoline. ^f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as <u>casoline blending components</u>. Beginning in 1983, also includes crude oil burned 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-c and 3.8a-c. • 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.doe.gov/emeu/mer/petro.html. • For related information, see http://www.eia.doe.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. • 1981-2008: EIA, *Petroleum Supply Annual*, annual reports. • 2009 and 2010: EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

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





 $^{\rm a}$ Includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^b Includes ethanol blended into motor gasoline.

All petroleum products not shown above.
 Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
 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	2,117	34,840
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,107	32,731
980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,275	34,202
985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,149	30,922
990 Total	1,170	45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,840	33,553
995 Total	1,178	40	6,818	3,132	112	1,534	2,512	346	14,825	802	1,955	2,834	34,553
996 Total	1,176	37	7,175	3,274	128	1,594	2,660	335	15,064	837	1,952	3,119	35,757
997 Total	1,224	40	7,304	3,308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,266
998 Total	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,934
999 Total	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,128	37,960
2000 Total	1,276	36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,981	38,404
2001 Total	1,257	35	8,179	3,426	150	1,598	2,697	338	16,373	961	1,861	3,056	38,333
2002 Total	1,240	34	8,028	3,340	90	1,747	2,852	334	16,819	1,018	1,605	3,041	38,401
2003 Total	1,220	30	8,349	3,265	113	1,701	2,747	309	16,981	1,000	1,772	3,260	39,047
2004 Total	1,304	31	8,652	3,383	133	1,791	2,824	313	17,379	1,156	1,990	3,429	40,594
2005 Total	1,323	35	8,755	3,475	144	1,721	2,682	312	17,444	1,133	2,111	3,320	40,735
2006 Total	1,261	33	8,864	3,379	111	1,701	2,701	303	17,622	1,148	1,581	3,416	40,420
2007 Total	1,197	32	8,921	3,358	67	1,729	2,733	313	17,689	1,077	1,659	3,308	40,353
2008 January	73	2	757	278	2	194	268	26	1,425	93	133	294	3,351
February	58	2	723	255	5	168	242	23	1,342	74	98	278	3,101
March	61	2	751	273	4	155	242	27	1,467	88	115	252	3,282
April	72	3	717	276	(s)	115	201	26	1,426	87	133	232	3,174
May	95	3	710	279	1	109	206	27	1,496	85	131	243	3,277
June	114	2	658	276	1	115	207	25	1,426	81	129	233	3,152
July	114	2	666	277	(s)	121	216	26	1,480	101	133	221	3,237
August	106	3	661	288	(s)	119	214	30	1,478	88	100	223	3,190
September	106	2	654	251	2	99	154	18	1,330	64	98	178	2,857
October	96	2	755	249	2	132	204	27	1,460	87	116	262	3,260
November	63	2	677	245	3	134	205	17	1,394	79	98	269	3,052
December	56	2	683	245	8	160	215	20	1,444	94	147	254	3,168
Total	1,012	28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,940	38,100
:009 January	47	3	736	239	6	171	^R 239	21	1,406	80	136	^R 231	^R 3,144
February	50	1	638	213	6	138	^R 202	17	1,288	71	89	^R 202	^R 2,778
March	69	2	674	253	3	139	^R 222	21	1,434	78	118	^R 194	^R 3,070
April	52	3	605	242	2	110	^R 200	24	1,401	90	127	^R 193	^R 2,939
May	81	2	618	235	2	98	^R 193	19	1,470	94	96	^R 178	^R 2,988
June	104	3	620	239	2	90	^R 177	25	1,444	97	113	^R 161	^R 2,985
July	85	3	626	268	(s)	118	^R 205	21	1,504	69	66	^R 239	^R 3,086
August	110	2	611	255	1	120	^R 208	27	1,496	76	96	^R 197	^R 3,079
September	92	3	604	239	(s)	114	^R 200	22	1,393	85	64	^R 218	^R 2,921
October	76	2	664	240	3	139	^R 236	23	1,452	65	100	^R 217	^R 3,079
November	_ 57	1	_ 620	_ 226	_ 4	_ 175	^R 265	_ 20	_ 1,389	_ 68	_ 80	R 222	^R 2,951
December	R 42	2	^R 705	^R 241	R 4	^R 193	^R 274	R 23	^R 1,438	^R 65	^R 111	^R 244	^R 3,150
Total	^R 866	26	^R 7,720	^R 2,889	^R 35	^R 1,604	2,620	^R 264	^R 17,115	^R 940	^R 1,197	^R 2,496	^R 36,169
010 January	F_48	F_2	^E 669	E 240	RF 9	^E 193	^{RF} 260	F_21	^E 1,400	F_86	_ ^E 96	RE 260	^{RE} 3,090
February	F 50	F 2	E 610	E 204	_ ^F 8	^E 152	F 225	^F 18	E 1,290	_ ^F 79	E 118	E 271	^E 2,874
2-Month Total	F 97	F 4	^E 1,279	^E 443	^F 18	^E 345	^F 485	F 39	^E 2,690	F 166	^E 214	^E 531	^E 5,964
2009 2-Month Total	98	4	1,374	451	13	309	440	38	2,694	151	226	433	5,922
2008 2-Month Total	131	4	1,480	533	7	362	510	49	2,767	168	231	572	6,452

^a Liquefied petroleum gases.

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel)
 ^b blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in

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

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

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

Web Pages: • For all available data beginning in 1973, see http://www.eia.doe.gov/emeu/mer/petro.html. • For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html. Sources: Tables 3.5, A1, and A3.

"Other." ^d Includes propylene. ^e Finished motor gasoline. Beginning in 1993, also includes ethanol blended into motor gasoline. ^f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery

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

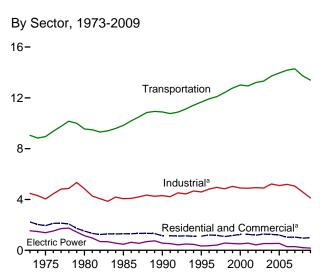
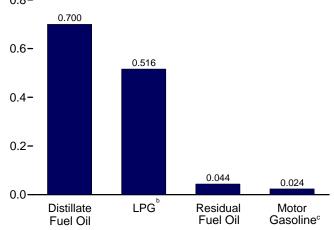
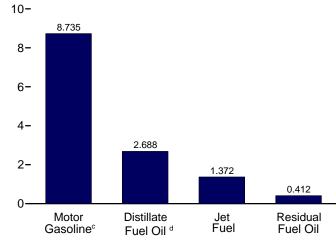


Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)

Residential and Commercial Sectors,^a Selected Products, December 2009 0.8-



Transportation Sector, Selected Products, December 2009



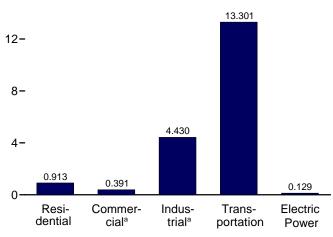
^a Includes combined-heat-and-power plants and a small number of electricity-only plants.

^b Liquefied petroleum gases.

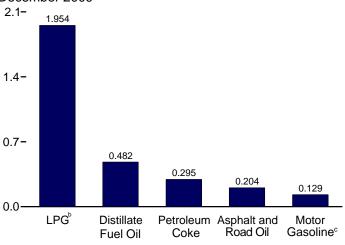
° Includes ethanol blended into motor gasoline.

By Sector, December 2009

16-

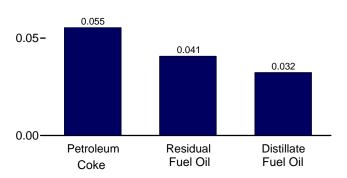


Industrial Sector,^a Selected Products, December 2009



Electric Power Sector, December 2009

0.10-



 $^{\rm d}$ Includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Sources: Tables 3.7a-3.7c.

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

(Thousand Barrels per Day)

		Resident	tial Sector				Com	mercial Sect	ora		
	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	435	1,487	303	31	77	45	NA	290	746
1975 Average	850	78	389	1,316	276	24	69	46	NA	214	629
1980 Average	617	51	242	910	243	20	43	56	NA	245	606
1985 Average	514	77	249	839	297	16	44	50	NA	99	506
1990 Average	460	31	276	767	252	6	49	58	0	100	465
1995 Average	426	36	306	767	225	11	54	10	(s)	62	361
1996 Average	434	43	358	835	227	10	63	14	(s)	60	373
1997 Average	411	45	349	805	209	12	62	22	(s)	48	353
1998 Average	363	52	329	744	202	15	58	20	(s)	37	332
1999 Average	389	54	404	847	206	13	71	15	(s)	32	338
2000 Average	424	46	427	897	230	14	75	23	(s)	40	383
2001 Average	427	46	406	879	239	15	72	20	(s)	30	376
2002 Average	404	29	412	845	209	8	73	24	(s)	35	348
2003 Average	425	34	426	885	226	9	75	32	(s)	48	391
2004 Average	433	41	402	876	221	10	71	23	(s)	53	378
2005 Average	402	40	391	833	210	10	69	24	(s)	50	365
2006 Average	335	32	345	712	189	7	61	26	(s)	33	315
2007 Average	342	21	367	730	181	4	65	32	(s)	33	315
2008 January	532	9	423	964	281	2	75	23	(s)	51	433
February	546	19	409	974	289	4	72	24	(s)	52	441
March	388	17	382	786	205	3	67	24	(S)	37	337
April	302	1	328	631	160	(s)	58	24	(S)	29	271
Артіі Мау	214	4	325	543	113	(3)	57	24	(3)	23	217
June	235	3	337	576	125	1	60	23	0	23	232
July	233	-1	342	563	118	(s)	60	24 24	0	23	232
	200	2	337	539	106	(s)	60	24	0	19	209
August	200	2	252	475	114	(5)	44	24	(s)	21	209
September	215	о 6	323	475 570	114	2 1	57	23 24		23	203
October	301	13	323 334	570 648	127	3	57	24 24	(s) (s)	23 29	233
November	463	31	340 340	834	245	6	60	24	()	29 44	380
December Average	403 321	9	340 344	675	170	2	61	24 24	(s) (s)	31	287
2009 January	516	24	382	921	273	5	67	23	(s)	49	418
February	484	24	357	867	273	5	63	23	(s) (s)	49	394
March	404	13	356	783	219	3	63	23 24	(S) (S)	40	394
April	327	9	330	665	173	2	58	24 24	(5)	40 31	288
	223	9	309	541	173	2	54	24	0	21	200
May	223	9 7	293	509	110	2	54 52	24 25	0	20	220
June	209	1	293 327	509 565	125		52 58	25 25	0	20	208
July	237 245	4	327	565 581	125	(s) 1	58 59	25 25	-	23	231
August					-				(s)		
September	299	(s)	330	629	158	(s)	58	24	(s)	29	269
October	255	12	378	644 8 7 4 4	135	2	67	24	0 R()	25	252
November	R 288	15	438	^R 741	152	3	77	24	R(s)	28	284
December	458	16	438	913	242	3	77	24	(s)	44	391
Average	329	11	356	696	174	2	63	24	(s)	32	295

 ^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 ethanol blended a Commercial

into motor gasoline.

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-c and 3.8a-c.
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.doe.gov/emeu/mer/petro.html for all available data beginning in 1973.

Sources: See end of section.

Table 3.7b Petroleum Consumption: Industrial Sector

(Thousand Barrels per Day)

					Industria	I Sector ^a				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1973 Average	522	691	75	902	88	133	254	809	1,005	4,479
1975 Average	419	630	58	844	68	116	246	658	1,001	4,038
1980 Average	396	621	87	1.172	82	82	234	586	1,581	4,842
1985 Average	425	526	21	1.285	75	114	261	326	1.032	4.065
1990 Average	483	541	6	1,215	84	97	325	179	1,373	4,304
1995 Average	486	532	7	1.527	80	105	328	147	1,381	4,594
	480	557	9	1,527	78	105	343	147	1,518	4,334
996 Average			9	,			343			
997 Average	505	566	-	1,617	82	111		127	1,605	4,953
998 Average	521	570	11	1,553	86	105	390	100	1,508	4,844
999 Average	547	558	6	1,709	87	80	426	90	1,532	5,035
2000 Average	525	563	8	1,720	86	79	361	105	1,458	4,903
2001 Average	519	611	11	1,557	79	155	390	89	1,481	4,892
2002 Average	512	566	7	1,668	78	163	383	83	1,474	4,934
2003 Average	503	534	12	1,561	72	171	375	96	1,579	4,903
2004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222
005 Average	546	594	19	1,549	72	187	404	123	1,605	5,100
006 Average	521	594	14	1,627	71	198	425	104	1,640	5,193
007 Average	494	595	6	1,637	73	161	412	84	1,593	5,056
008 January	354	^R 714	3	1.884	71	128	^R 422	89	1.564	^R 5,229
February	301	738	6	1,822	67	129	^R 348	^R 70	1,570	^R 5.051
March	295	^R 710	5	1,701	74	132	^R 413	78	1.345	^R 4,752
April	360	^R 666	(s)	1.460	75	133	^R 413	R 91	1,403	^R 4.602
May	461	^R 600	(0)	1,449	73	135	394	^R 86	1,422	R 4.622
June	570	411	1	1,503	71	133	372	R 79	1,405	R 4,545
July	556	366	(s)	1,522	71	133	R 470	R 81	1,400	^R 4.473
	517	^R 360	(5)	1,522	81	133	399	^R 60	1,249	^R 4,304
August	531	484	•	1,504	50	124	^R 282	^R 58	1,249	^R 3.821
September			2	,					, -	
October	465	^R 738	2	1,439	75	131	^R 394	^R 75	1,547	^R 4,866
November	314	^R 576	4	1,491	47	130	^R 371	^R 64	1,540	^R 4,536
December	271	R 399	9	1,516	53	130	^R 437	^R 96	1,414	^R 4,327
Average	417	^R 563	3	1,534	67	131	^R 394	R 77	1,408	^R 4,594
009 January	230	^R 655	7	1,701	57	127	364	^R 81	1,313	^R 4,534
February	271	^R 528	8	1,592	51	128	355	^R 64	1,263	^R 4,260
March	337	421	4	1,585	58	129	344	^R 76	1,110	^R 4,063
April	262	258	3	1,470	67	130	431	^R 87	1,169	^R 3,878
May	394	283	3	1,375	53	132	436	^R 66	1,061	^R 3,804
June	524	315	2	1,305	71	134	^R 467	^R 74	1.097	R 3,989
July	412	219	(s)	1,459	59	135	302	R 38	1,368	R 3.992
August	534	151	(3)	1,484	73	135	341	R 58	1,160	R 3,936
September	464	^R 239	(s)	1,473	63	130	403	41	1,309	^R 4,122
	368	418	(5)	1,473	63	130	308	^R 64		R 4,122
October				,				^R 54	1,180	
November	285	R 395	5	1,951	56	129	R 332		1,093	^R 4,301
December	204	482	5	1,954	64	129	295	74	1,223	4,430
Average	357	363	3	1,586	61	131	364	65	1.195	4,127

^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 ethanol blended

^c Printing in hold gasoline. Beginning in 1993, also includes entation biended into motor gasoline.
^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

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

per day.

Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-c and 3.8a-c. • 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. ٠

Web Page: See http://www.eia.doe.gov/emeu/mer/petro.html 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 Sector	•			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	78	7,883	310	12,099	52	46	311	410
1998 Average	19	2,263	1,622	13	81	8,128	294	12,420	64	56	456	576
1999 Average	21	2,352	1,673	10	82	8,336	290	12,765	66	51	418	535
2000 Average	20	2.422	1,725		81	8,370	386	13.012	82	45	378	505
2001 Average	19	2,489	1,655	10	74	8,435	255	12,938	80	47	437	564
2002 Average	18	2,536	1,614	10	73	8,662	295	13,208	60	80	287	427
2002 Average	16	2,665	1,578	12	68	8.733	249	13,321	76	79	379	534
2003 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
2005 Average	18	2,838	1,633	20	67	9,029	305	14,178	35	97	157	289
2000 Average	17	3,037	1,622	16	69	9,029	433	14,178	42	78	173	209
2008 January	13	2,613	1,581	18	67	8,658	^R 437	13,387	^R 51	^R 78	^R 105	^R 235
February	12	2,668	1,553	17	64	8,713	R 326	^R 13,354	41	R 77	^R 91	R 209
March	12	^R 2,829	1,552	16	70	8,910	R 398	^R 13,791	R 30	^R 60	R 75	165
April	10	^R 2,946	1,622	10	70	8,955	499	^R 14,125	^R 31	^R 68	^R 88	^R 187
	19	^R 2,940	1,590	14	69	9,092	499	^R 14,123	R 30	^R 62	^R 91	R 183
May	19	^R 2,947	1,590	14	67	9,092 8.953	^R 424	^R 14,233	R 45	79	158	^R 281
June	16	2,947	1,623	14	67		^R 456	^R 14,045	32	^R 68	125	R 226
July			<i>,</i> -		67 76	8,992	^R 326		R 28	^R 72	R 106	R 205
August	18	^R 2,965	1,639	14		8,977		^R 14,015				
September	16	2,899	1,478	11	47	8,351	R 309	^R 13,110	29	R 70	131	R 230
October	12	^R 3,051	1,417	14	71	8,869	422	^R 13,856	^R 25 ^R 28	^R 72	^R 76	R 173
November	15	R 2,808	1,440	14	44	8,750	^R 340	13,411	R 43	^R 67	^R 88	^R 183
December Average	14 15	^R 2,633 ^R 2,857	1,395 1,539	15 15	50 64	8,774 8,834	^R 492 409	13,372 ^R 13,734	R 34	^R 66 70	^R 121 ^R 104	^R 229 ^R 209
	17	^R 2,574	1.357	16	54	8.540	^R 380	^R 12,938	^R 58	66	^R 190	^R 314
2009 January	7	^R 2,607	,			- /	^R 312	^R 12,938	R 39	67	^R 84	^R 191
February			1,341	15	48	8,664					• •	
March	11	2,638	1,441	15	55	8,713	^R 425	R 13,298	39 ^R 26	76	64	R 180
April	18	2,677	1,424	14	64	8,793	R 499	^R 13,489		69	56	R 151
May	13	2,764	1,338	13	50	8,931	R 331	R 13,440	33	67	72	R 171
June	18	2,883	1,403	12	67	9,065	^R 426	R 13,875	32	69	80	181
July	19	2,854	1,527	14	55	9,140	^R 194	R 13,802	29	69 8 67	83	181 R 107
August	16	2,827	1,450	14	69	9,091	^R 314	^R 13,780	31	^R 67	98	R 197
September	19	2,737	1,404	14	60	8,744	^R 209	13,186	25	68	63	^R 157
October	11	2,840	1,364	16	60	8,823	^R 359	^R 13,474	_ 28	_ 41	_ 69	^R 138
November	9	^R 2,688	1,326	19	53	8,719	^R 301	^R 13,115	^R 26	^R 42	^R 42	^R 110
December	15	2,688	1,372	19	60	8,735	412	13,301	32	55	41	129
Average	14	2,732	1,396	15	58	8,831	347	13,394	33	63	79	175

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

blended into distillate fuel oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in Industrial Sector, Other" on Table 3.7b. ^d Finished motor gasoline. Beginning in 1993, also includes ethanol blended

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

amounts of kerosene and jet fuel.

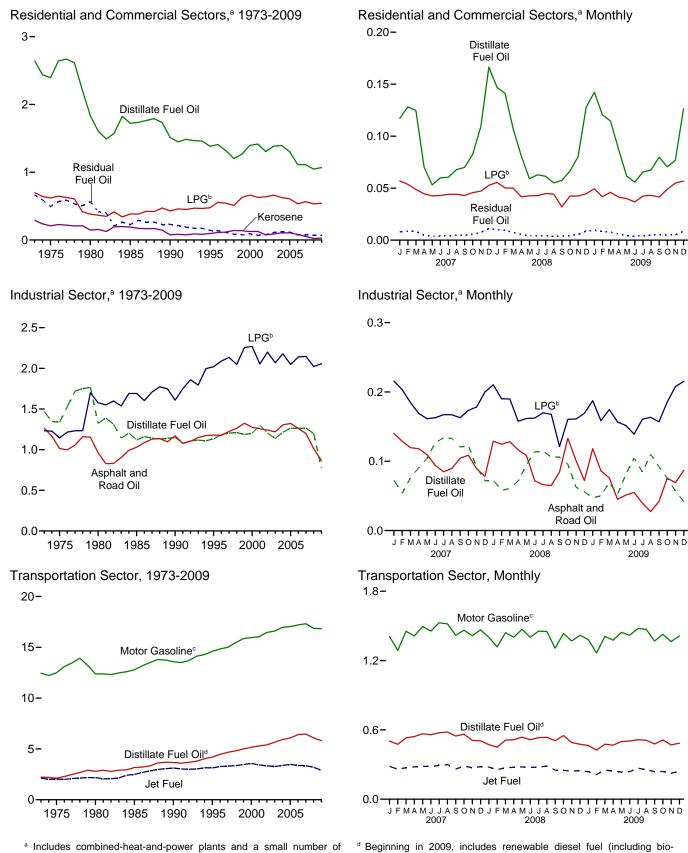
 $^{\rm f}$ Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4. R=Revised.

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-c and 3.8a-c. • 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.doe.gov/emeu/mer/petro.html for all available

data beginning in 1973. Sources: See end of section.

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



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

^b Liquefied petroleum gases.

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

diesel) blended into distillate fuel oil.

Sources: Tables 3.8a-3.8c.

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

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

		Resident	al Sector		Commercial Sector ^a								
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total		
1973 Total	2,003	227	595	2,825	644	65	105	87	NA	665	1,565		
1975 Total	1.807	161	528	2,495	587	49	93	89	NA	492	1.310		
1980 Total	1,316	107	325	1,748	518	41	57	107	NA	565	1,287		
1985 Total	1,092	159	327	1,578	631	33	58	96	NA	228	1.045		
1990 Total	978	64	365	1.407	536	12	64	111	0	230	953		
1995 Total	905	74	404	1,383	479	22	71	18	(s)	141	732		
1996 Total	926	89	473	1,488	483	21	84	27	(s)	137	751		
1997 Total	874	93	461	1,400	400	25	81	43	(s)	111	704		
1998 Total	772	108	434	1,420	444	2J 31	77	39		85	66		
					-	27	94		(s)				
1999 Total	828	111	534	1,473	438			28 45	(s)	73	66		
2000 Total	905	95	564	1,563	491	30	99		(s)	92	756		
2001 Total	908	95	535	1,539	508	31	94	37	(s)	70	742		
2002 Total	860	60	543	1,463	444	16	96	45	(s)	80	681		
2003 Total	905	70	564	1,539	481	19	100	60	(s)	111	77		
2004 Total	924	85	532	1,541	470	20	94	45	(s)	122	752		
2005 Total	854	84	517	1,455	447	22	91	46	(s)	116	722		
2006 Total	712	66	454	1,233	401	15	80	49	(s)	75	621		
2007 Total	726	44	481	1,251	384	9	85	61	(s)	75	615		
2008 January	96	2	47	145	51	(s)	8	4	(s)	10	73		
February	92	3	43	138	49	<u></u> 1	8	4	(s)	10	7(
March	70	3	43	116	37	1	8	4	(s)	7	5		
April	53	(s)	35	88	28	(s)	6	4	(s)	5	4		
	39	<u>`1</u>	36	76	20	(s)	6	4	Ó	4	3		
June	41	1	36	78	22	(s)	6	4	0	4	3		
July	40	(s)	38	78	21	(s)	7	4	Ő	4	3		
August	36	(s)	38	74	19	(s)	7	4	Ő	4	3		
September	38	(3)	27	66	20	(S)	5	4	(s)	4	3		
October	43	1	36	81	23	(s)	6	4	(s)	5	3		
November	53	2	36	91	28	(s)	6	4	(s)	5	4		
	84	2 5	38	127	44	(5)	7	4		9	6		
December	÷ ·					•		-	(s)				
Total	684	19	454	1,158	362	4	80	46	(s)	71	563		
2009 January	93	4	^R 42	^R 139	49	1	^R 7	4	(s)	10	7		
February	79	4	36	119	42	1	6	3	(s)	8	^R 6		
March	75	2	^R 39	^R 116	40	(s)	7	4	(s)	8	5		
April	57	2	^R 35	94	30	(s)	6	4	0	6	4		
May	40	2	34	76	21	(s)	6	4	0	4	3		
June	37	1	^R 31	69	19	(s)	6	4	0	4	3		
July	43	(s)	^R 36	79	23	(s)	6	4	0	4	R 3		
August	44	1	37	^R 81	23	(s)	^R 6	4	(s)	5	3		
September	52	(s)	^R 35	^R 87	28	(s)	6	4	(s)	5	4		
October	46	2	42	90	24	(s)	7	4	(0)	5	4		
November	50	3	47	100	27	1	8	4	R(s)	5	4		
December	83	3	48	134	44	1	9	4	(s)	9	6		
Total	699	23	462	1,184	370	5	81	46	(s) (s)	72	57		
I ULAI	033	23	+02	1,104	3/0	5	01	40	(5)	14	- 37		

^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 ethanol blended into motor gasoline.

R=Revised. NA=Not available. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes: • Data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table

3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-c and 3.8a-c.
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.doe.gov/emeu/mer/petro.html for all available data beginning in 1973.

Sources: Tables 3.7a, A1, and A3.

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
973 Total	1,264	1,469	156	1,233	195	255	558	1.858	2,117	9,104
975 Total	1.014	1,339	119	1,144	149	223	540	1,509	2.107	8.146
980 Total	962	1,324	181	1,577	182	158	516	1,349	3,275	9,525
985 Total	1.029	1,119	44	1,690	166	218	575	748	2,149	7,738
990 Total	1,170	1,150	12	1,608	186	185	714	411	2.840	8,278
995 Total	1,178	1,131	15	2.019	178	200	721	337	2.834	8.614
996 Total	1,176	1,187	18	2.089	173	200	757	335	3,119	9.053
997 Total	1,224	1,203	19	2,134	182	212	727	291	3,298	9,290
998 Total	1,263	1,211	22	2,048	191	199	858	230	3,093	9,116
999 Total	1,324	1,187	13	2,256	193	152	936	207	3,128	9,396
000 Total	1.276	1,200	16	2,271	190	150	796	241	2,981	9,120
001 Total	1,257	1,300	23	2,054	174	295	858	203	3.056	9,220
002 Total	1,240	1,204	14	2,200	172	309	842	190	3.041	9,212
003 Total	1,220	1,136	24	2,068	159	324	825	220	3,260	9,237
004 Total	1.304	1,214	28	2,180	161	372	934	249	3,429	9.870
005 Total	1.323	1,264	39	2.047	160	356	889	281	3.320	9,680
006 Total	1,261	1,263	30	2,140	156	376	934	239	3,416	9,815
007 Total	1,197	1,265	13	2,146	161	306	906	193	3,308	9,496
008 January	73	129	(s)	210	13	21	79	17	294	^R 837
February	58	125	1	190	12	20	61	13	278	757
March	61	128	1	190	14	21	R 77	15	252	759
April	72	^R 116	(s)	158	14	21	75	17	232	^R 704
May	95	^R 108	(s)	162	14	22	^R 74	17	243	734
June	114	72	(s)	162	13	21	67	^R 15	233	697
July	114	66	(s)	170	13	22	88	^R 16	221	R 710
August	106	65	(s)	168	15	22	75	R 12	223	R 685
September	106	85	(s)	121	.0	19	51	R 11	178	^R 581
October	96	133	(s)	161	14	21	R 74	15	262	R 775
November	63	101	(3)	161	9	20	67	^R 12	269	R 702
December	56	72	2	169	10	21	82	19	254	R 684
Total	1,012	^R 1,200	6	2,021	150	250	R 868	R 178	2,940	^R 8,624
009 January	47	118	1	^R 187	11	20	68	^R 16	^R 231	^R 701
February	50	86	1	^R 158	9	19	60	R 11	R 202	^R 597
March	69	76	1	^R 175	11	21	64	15	^R 194	^R 625
April	52	45	(s)	^R 157	12	20	78	^R 16	^R 193	^R 574
May	81	51	1	^R 151	10	21	81	13	^R 178	^R 588
June	104	55	(s)	^R 139	13	21	84	14	^R 161	^R 592
July	85	40	(s)	^R 161	11	22	56	R.7	^R 239	R 620
August	110	27	(s)	^R 163	14	22	64	R 11	R 197	R 608
September	92	42	(s)	^R 157	12	20	73	8	^R 218	R 622
October	76	76	(0)	^R 185	12	21	^R 57	^R 12	^R 217	R 657
November	57	^R 69	1	R 208	10	20	^R 60	10	R 222	R 657
December	42	87	1	215	10	20	55	14	244	691
Total	866	772	7	2,057	136	249	801	148	2,496	7,533

^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 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: \bullet Data are estimates. \bullet 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-c and 3.8a-c. • 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.doe.gov/emeu/mer/petro.html for all available

data beginning in 1973.

Sources: Tables 3.7b, A1, and A3.

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

				Transporta	tion Secto	r		_	E	lectric Po	wer Sectora	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oil ^e	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 Total	83	2,222	2,131	48	163	12,455	727	17,831	273	15	3,226	3,515
1975 Total	71	2,121	2,029	42	155	12,485	711	17,614	226	2	2,937	3,166
1980 Total	64	2,795	2,179	17	172	12,383	1,398	19,009	169	5	2,459	2,634
1985 Total	50	3,170	2,497	28	156	12,784	786	19,471	85	7	998	1,090
1990 Total	45	3,661	3,129	22	176	13,575	1,016	21,625	97	30	1,163	1,289
1995 Total	40	4,195	3,132	17	168	14,607	911	23,069	108	81	566	755
1996 Total	37	4,469	3,274	15	163	14,837	851	23,647	109	80	628	817
1997 Total	40	4,672	3,308	13	172	14,999	712	23,917	111	102	715	927
1998 Total	35	4,812	3,357	17	180	15,463	674	24,537	136	124	1,047	1,306
1999 Total	39	5,001	3,462	13	182	15,855	665	25,218	140	112	959	1,211
2000 Total	36	5,165	3,580	11	179	15,960	888	25,820	175	99	871	1,144
2001 Total	35	5,292	3,426	13	164	16,041	586	25,556	171	103	1,003	1,277
2002 Total	34	5,392	3,340	13	162	16,465	677	26,084	127	175	659	961
2003 Total	30	5,666	3,265	16	150	16,597	571	26,296	161	175	869	1,205
2004 Total	31	5,932	3,383	18	152	16,962	740	27,218	111	222	879	1,212
2005 Total	35	6,076	3,475	27	151	17,043	837	27,644	115	243	876	1,235
2006 Total	33	6.414	3,379	26	147	17,197	906	28,103	74	214	361	648
2007 Total	32	6,457	3,358	21	152	17,321	994	28,334	89	171	397	657
2008 January	2	472	278	2	13	1.401	85	2.252	Rg	15	^R 21	^R 44
February	2	451	255	2	11	1,319	60	2,099	7	14	^R 17	37
March	2	511	273	2	13	1.441	78	2.320	5	^R 11	^R 15	31
April	3	515	276	2	13	1.402	94	2.304	5	12	R 17	^R 34
May	3	537	279	2	13	1,471	93	^R 2,397	5	12	18	^R 35
June	2	515	276	2	12	1.401	^R 80	R 2,289	8	14	30	52
July	2	533	277	2	13	1,455	^R 89	^R 2,370	6	13	24	43
August	3	^R 535	288	2	14	1,452	63	^R 2,358	5	13	^R 21	39
September	2	507	251	1	9	1,307	58	^R 2,136	5	R 13	25	42
October	2	551	249	2	13	1,435	82	2,334	4	^R 13	15	R 33
November	2	491	245	2	8	1,435	64	2,334	R 5	12	^R 17	^R 34
December	2	^R 475	245	2	9	1,419	96	2,249	R 8	12	^R 24	R 44
Total	28	^R 6,092	3,193	19	141	16,872	^R 942	^R 27,288	R 73	^R 154	R 240	^R 468
2009 January	3	465	239	2	10	1,381	^R 74	^R 2.173	^R 10	12	37	60
February	1	425	213	2		1,266	55	1,969	6	11	15	R 33
March	2	476	253	2	10	1,409	83	2,235	7	14	13	34
April	3	468	242	2	12	1.377	94	2,196	4	12	11	^R 28
May	2	499	235	1	9	1,445	64	2,256	6	13	14	32
June	3	504	239	1	12	1,419	80	2,258	6	^R 12	15	33
July	3	515	268	2	10	1,478	38	2,315	5	13	16	34
August	2	510	255	2	13	1,471	61	2,314	6	13	10	37
September	3	478	239	2	11	1.369	39	2,314	4	12	13	29
October	2	513	240	2	11	1,303	70	^R 2.265	5	8	13	26
November	1	470	240	2	10	1,365	^R 57	^R 2,203	R 5	R 8	^R 8	20
December	2	470	220	2	10	1,303	80	2,130	6	10	8	20
Total	26	5,809	2,889	20	128	16,820	796	2,230 26,488	71	139	181	390
i viai	20	3,009	2,009	20	120	10,020	190	20,400		159	101	220

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

blended into distillate fuel oil.

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

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

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

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

amount of fuel oil no. 4.

R=Revised.

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-c and 3.8a-c. • 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.doe.gov/emeu/mer/petro.html for all available data beginning in 1973.

Sources: Tables 3.7c, A1, and A3.

Petroleum

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

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

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

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

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

Note 3. Distillate and Residual Fuel Oils. The requirement to report crude oil in pipelines or burned on leases as either distillate or residual fuel oil was eliminated. Prior to January 1981, the refinery input of unfinished oils typically exceeded the available supply of unfinished oils.

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

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

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

Crude Oil: 1982—645 (Total) and 351 (Non-SPR). Distillate Fuel Oil: 1974—224; 1980—205; and

1982—186. Jet Fuel (Total): 1974—30; 1980—42; and 1982—39.

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

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

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

Residual Fuel Oil: 1974-75; 1980-91; and 1982-69.

Total Petroleum: 1974—1,121; 1980—1,425; and 1982—1,461.

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

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

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

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

coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Non-SPR).

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

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

Tables 3.7a–3.7c Sources

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

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

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

1981–2008: EIA, *Petroleum Supply Annual*. 2009: 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 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 is assumed to be the amount of light oil (fuel oil nos. 1 and 2, plus small amounts of kerosene and jet fuel) consumed.

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

Following are notes on the individual sector groupings:

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

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

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

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

Distillate Fuel Oil Consumed by the End-Use Sectors, Monthly—Residential sector and commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the residential and commercial consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: 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 the Form FERC-423 (formerly Form FPC-423) were used as estimates of this consumption. Through 2004, all remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector. Beginning in 2005, kerosene-type jet fuel is consumed by the transportation sector; while naphtha-type jet fuel is classified under "Other Petroleum Products," which is assigned to the industrial sector.

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

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

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

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

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

Sales of LPG to the residential and commercial sector are converted from thousand gallons per year to thousand barrels per year and are assumed to be the annual consumption of LPG by the 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 73 percent (in 1994).

LPG consumed annually by the industrial sector is estimated as the difference between LPG total supplied and the estimated consumption of LPG by the sum of the residential and commercial sector and the transportation sector. The industrial sector 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 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 Table 7.4b. For 1973–1979, electric utility consumption of residual fuel oil is assumed to be the amount of petroleum consumed in steam-electric power plants. For 1980–2000, electric utility consumption of residual fuel oil is assumed to be the amount of heavy oil (fuel oil nos. 4, 5, and 6) consumed.

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

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

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

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

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 1983-1996, 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.

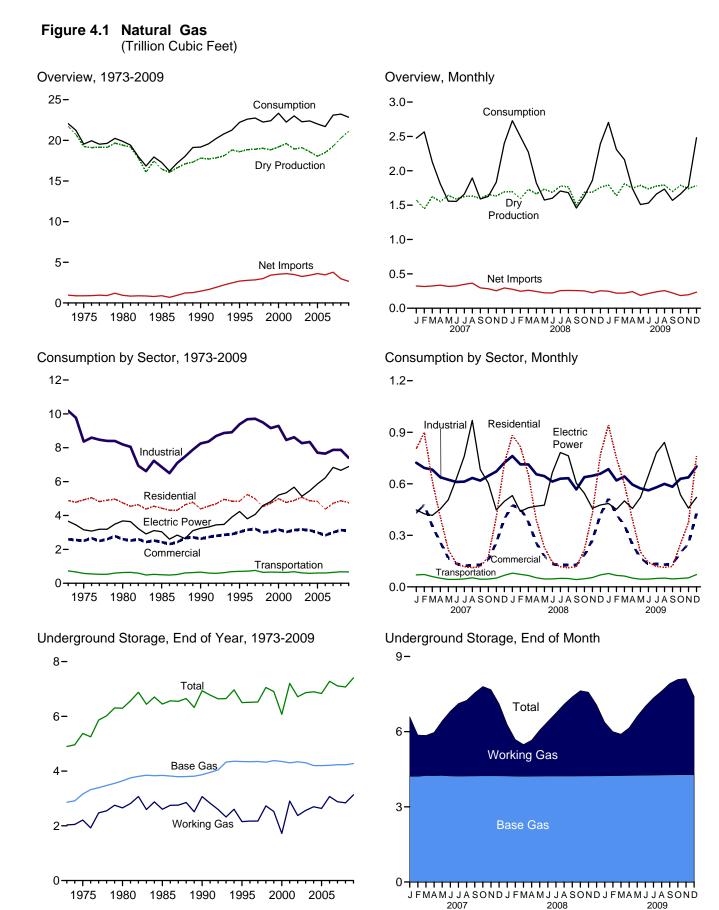
Other Petroleum Products—Consumption of all remaining petroleum products is assigned to the industrial sector. Other petroleum products include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative 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.



Natural Gas



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



Web Page: http://www.eia.doe.gov/emeu/mer/natgas.html. 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	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	784 908	17,810 18,599	123	1,532	86	1,447	-513	307 396	¹ 19,174
1995 Total 1996 Total	23,744 24,114	19,506 19,812	908 958	18,854	110 109	2,841 2,937	154 153	2,687 2,784	415 2	396 860	22,207 22,609
1997 Total	24,213	19,812	964	18,902	103	2,994	157	2,837	24	871	22,009
1998 Total	24,108	19,961	938	19,024	102	3,152	159	2,993	-530	657	22,246
1999 Total	23.823	19.805	973	18.832	98	3,586	163	3,422	172	-119	22,405
2000 Total	24,174	20,198	1,016	19,182	90	3,782	244	3,538	829	-305	23,333
2001 Total	24,501	20,570	954	19,616	86	3,977	373	3,604	-1,166	99	22,239
2002 Total	23,941	19,885	957	18,928	68	4,015	516	3,499	468	44	23,007
2003 Total	24,119	19,974	876	19,099	68	3,944	680	3,264	-197	44	22,277
2004 Total	23,970	19,517	927	18,591	60	4,259	854	3,404	-114	448	22,389
2005 Total	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 January	^R 2,043	^R 1,652	76	^R 1,576	6	393	69	324	^R 697	^R -129	^R 2,475
February	^R 1,878	^R 1,513	70	^R 1,444	5	373	57	316	^R 746	^R 54	^R 2,566
March	^R 2,095	^R 1,703	78	^R 1,625	6	402	77	325	^R 55	^R 118	^R 2,129
April	^R 1,995	^R 1,627	75	^R 1,552	5	387	51	336	-125	^R 42	^R 1,810
May	^R 2,067	^R 1,723	79	^R 1,643	4	380	62	318	^R -469	^R 63	^R 1,558
June	^R 2,020	^R 1,666	77	^R 1,590	5	381	57	324	^R -398	^R 33	^R 1,555
July	R 2,053	^R 1,703	R 78	^R 1,625	5	419	71	348	^R -321	R 3	^R 1,659
August	^R 2,076	^R 1,713	79	^R 1,634	5	427	62	365	^R -132	^R 24 ^R -4	^R 1,896
September	^R 2,040 ^R 2,122	^R 1,675 ^R 1,733	77 80	^R 1,598 ^R 1,654	5 5	361 347	65 64	296 284	^R -305	^R -52	^R 1,590 ^R 1,627
October November	R 2,099	^R 1,733	80 79	^R 1,633	6	347	86	264 254	-263 ^R 126	^R -186	^R 1.834
December	^R 2,176	^R 1,775	82	^R 1.693	4	397	101	295	^R 581	^R -175	^R 2.398
Total	^R 24,664	^R 20,196	930	R 19,266	63	4,608	822	3,785	R 192	R -209	R 23,097
2008 January	^R 2.164	^R 1,775	^R 80	1,695	^R 1	390	113	277	^R 837	^R -82	^R 2.729
February	^R 2,049	^R 1,672	^R 75	^R 1,597	5	350	103	247	^R 603	^R 47	^R 2,499
March	^R 2,213	^R 1,814	^R 81	^R 1,732	6	367	105	262	^R 225	^R 47	^R 2,271
April	^R 2,114	^R 1,742	^R 78	^R 1,664	^R 5	322	79	243	^R -195	^R 104	^R 1,822
May	^R 2,169	^R 1,815	^R 81	^R 1,733	5	297	73	224	^R -412	^R 25	_1,575
June	^R 2,122	^R 1,764	^R 79	^R 1,685	6	287	65	222	^R -349	^R 38	^R 1,602
July	R 2,212	^R 1,861	^R 84	R 1,777	4	323	66	257	^R -348	^R 16	^R 1,706
August	^R 2,217 1.929	^R 1,851	^R 83 ^R 70	^R 1,768 ^R 1,499	R 5 R 5	329 314	70	259	^R -357 ^R -306	^R 6 ^R 4	^R 1,681 ^R 1,458
September	^R 2,165	^R 1,569 ^R 1,767	R 70	^R 1,687	6	314	58 69	256 252	^R -248	^R -67	^R 1,458
November	^R 2,165	^R 1.769	^R 79	^R 1,690	6	321	09 95	232	R 61	^R -122	^R 1,860
December	^R 2,240	^R 1,841	R 83	^R 1,759	6	365	110	254	^R 523	^R -149	^R 2,393
Total	^R 25,754	^R 21,240	^R 953	^R 20,286	^R 61	3,984	1,006	2,979	R 34	^R -133	R 23,227
2009 January	2,251	^E 1,868	74	^E 1,794	6	360	113	247	698	^R -42	^R 2,704
February	2,073	E 1,707	68	^E 1,638	5	322	103	219	371	^R 75	^R 2,309
March	2,291	E 1,888	78	^E 1,811	6	324	104	221	98	^R 27	^R 2,162
April	2,191	^E 1,822	76	^E 1,746	R 5	322	80	242	-246	^R -6	^R 1,741
May	2,239	^E 1,868	81	E 1,787	^R 5	264	77	187	-467	R-4	^R 1,510
June	2,150	^E 1,814	77	E 1,737	2	281	66	215	-387	^R -37	^R 1,530
July	2,188	E 1,857	79	E 1,778	5	316	76	239	-330	^R -31	R 1,662
August	2,178	E 1,871	80	E 1,791	6	336	79	257	-268	^R -52	R 1,734
September	2,113	^E 1,776 ^E 1,871	79 82	^E 1,697 ^E 1,789	5 6	306 ^R 262	84 77	222 ^R 185	-288	^R -66 ^R -157	^R 1,570 ^R 1,662
October November	2,231 ^R 2,185	[►] 1,871 ^{RE} 1,821	82 ^R 81	^E 1,789 ^{RE} 1,741	6 6	R 262	^R 96	^R 185	-161 -31	^R -157	^R 1,662 ^R 1,776
December	2,185	E 1,869	84	E 1,785	6 6	E 326	E 93	E 233	699	-241	2,482
Total	26,320	E 22,033	938	E 21,095	64	E 3,713	^E 1,048	E 2,664	-313	-668	2,402 22,842
	20,520	22,000	330	21,035		5,715	1,040	2,004	515	000	22,072

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

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

^d Marketed production (wet) minus extraction loss. е

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

f Net withdrawals from underground storage. For 1980-2008, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section. ^g See Note 5, "Natural Gas Balancing Item," at end of section. Since 1980,

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

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

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

R=Revised. E=Estimate. NA=Not available. Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/natgas.html for all available

data beginning in 1973.

Sources: • Imports and Exports: Table 4.2. • Consumption: Table 4.3. • Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals. • All Other 1973-2003-U.S. Energy Information Administration (EIA), Natural Gas Data: Annual, annual reports. 2004 forward-EIA, Natural Gas Monthly, February 2010, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Impo	orts			-			Exp	orts	
	Algeriaa	Canada⁵	Egypt ^a	Mexico ^b	Nigeriaª	Oman ^a	Qatara	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada [⊳]	Japan ^a	Mexico ^b	Total
1973 Total	3	1,028	0	2	0	0	0	0	0	1,033	15	48	14	77
1975 Total	5	948	ŏ	ō	ŏ	ŏ	ŏ	ŏ	ŏ	953	10	53	9	73
1980 Total	86	797	Ō	102	Ō	Ō	Ō	Ō	Ō	985	(s)	45	4	49
1985 Total	24	926	Ō	0	ŏ	ō	ŏ	ŏ	ŏ	950	(s)	53	2	55
1990 Total	84	1,448	Ō	Ō	Ō	Ō	Ō	Ō	Ō	1,532	17	53	16	86
1995 Total	18	2,816	Ó	7	Ó	Ó	Ō	Ō	Ó	2,841	28	65	61	154
1996 Total	35	2,883	0	14	0	0	0	0	5	2,937	52	68	34	153
1997 Total	66	2,899	Ó	17	Ó	Ó	Ó	Ō	12	2,994	56	62	38	157
1998 Total	69	3,052	0	15	0	0	0	0	17	3,152	40	66	53	159
1999 Total	76	3,368	Ó	55	Ó	Ó	20	51	17	3,586	39	64	61	163
2000 Total	47	3,544	Ó	12	13	10	46	99	11	3,782	73	66	106	244
2001 Total	65	3,729	Ó	10	38	12	23	98	2	3,977	167	66	141	373
2002 Total	27	3,785	Ó	2	8	3	35	151	5	4,015	189	63	263	516
2003 Total	53	3,437	Ó	0	50	9	14	378	3	3,944	271	66	343	680
2004 Total	120	3,607	Ó	Ō	12	9	12	462	36	4,259	395	62	397	854
2005 Total	97	3,700	73	9	8	2	3	439	9	4,341	358	65	305	729
2006 Total	17	3,590	120	13	57	0	0	389	0	4,186	341	61	322	724
2007 January	3	336	9	4	5	0	0	37	0	393	41	5	24	69
February		321	6	8	6	0	0	33	0	373	34	5	17	57
March	9	309	15	6	9	0	0	54	0	402	53	5	19	77
April	24	279	14	9	9	0	0	51	0	387	32	4	15	51
May	24	283	15	3	15	0	3	38	0	380	35	4	24	62
June	12	291	15	4	20	0	6	30	3	381	28	3	26	57
July	0	315	12	5	12	0	3	62	9	419	38	4	29	71
August	3	335	12	4	15	0	6	46	6	427	28	4	30	62
September	3	318	12	2	3	0	0	24	0	361	33	4	28	65
October	0	314	3	2	0	0	0	29	0	347	31	2	29	^d 64
November	0	311	3	3	0	0	0	24	0	341	58	3	26	86
December	0	372	0	4	0	0	0	21	0	397	72	4	25	101
Total	77	3,783	115	54	95	0	18	448	18	4,608	482	47	292	d 822
2008 January		360	3	1	0	0	0	25	0	390	70	3	40	113
February		326	0	0	0	0	0	21	3	350	63	3	37	103
March		342	0	1	0	0	0	21	3	367	70	4	31	105
April		290	3	(s)	3	0	0	26	0	322	47	4	28	79
May		261	3	4	0	0	0	25	3	297	43	5	25	73
June		251	6	3	3	0	3	21	0	287	30	5	30	65
July		288	6	4	0	0	0	25	0	323	31	5	30	66
August	0	289	3	4	3	0	0	^R 26	^R 3	329	29	6	35	70
September		276	9	7	3	0	0	20	0	314	27	4	27	58
October		288	3	6	0	0	0	24	0	321	37	4	28	69
November	0	292	9	6	0	0	0	14	0	320	65	4	26	95
December	0	327	9	7	0	0	0	19 R ac7	3 ^R 15	365	79	4	28	110
Total	0	3,589	55	43	12	0	3	^R 267	[™] 15	3,984	590	50	365	1,006
2009 January	0	328	5	6	0	0	0	19	3	360	84	2	28	113
February	0	294	6	(s)	0	0	0	16	6	322	75	3	25	103
March		292	12	1	0	0	0	17	3	324	77	3	24	104
April		259	22	7	8	0	0	20	6	322	55	2	23	80
May		214	15	1	0	0	0	31	3	264	46	2	29	77
June		229	14	1	0	0	0	34	3	281	37	2	28	66
July		269	14	2	3	0	0	21	6	316	42	4	31	76
August	0	298	17	3	0	0	0	17	0	336	45	2	32	79
September		274	14	1	2	0	0	15	0	306 R 000	47	4	33	84
October		233 R 255	15	2	0	0	0	13	0	^R 262	46 R 05	2	29	77 R 00
November	0	^R 255	12	(s)	0	0	8	17	0	^R 292	^R 65	2	29	^R 96
December		E 288	14	E 3	0	0	4	17	0	E 326	^E 57	4	29	E 93
Total	0	[⊨] 3,233	160	E 28	13	0	13	236	29	^E 3,713	E 675	31	340	^E 1,048

^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 8, "Natural Gas Imports and Exports," at end of section.

 ^c Australia in 1997-2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002-2005; Norway in 2008 and 2009; United Arab Emirates in 1996-2000; and Other (unassigned) in 2004.
 ^d Includes 2 billion cubic feet to Russia.

R=Revised. E=Estimate. (s)=Less than 500 million cubic feet.

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

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

Web Page: See http://www.eia.doe.gov/emeu/mer/natgas.html 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." • 1988-2006: EIA, Natural Gas Annual, annual reports. • 2007 forward: EIA, Natural Gas Monthly, February 2010, 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	e Sectors						
					Industrial		1	Tr	ansportatio	'n		
	Resi-	Com-	Lease and		Other Industri			Pipelines ^d and Dis-	Vehicle		Electric Power	
	dential	merciala	Plant Fuel		Non-CHP ^c	Total	Total	tribution ^e	Fuel	Total	Sector ^{f,g}	Total
1973 Total 1975 Total	4,879 4,924	2,597 2.508	1,496 1,396	(h) (h)	8,689 6,968	8,689 6,968	10,185 8,365	728 583	NA NA	728 583	3,660 3,158	22,049 19.538
1980 Total	4,752	2,611	1,026	(h)	7,172	7,172	8,198	635	NA	635	3,682	19,877
1985 Total 1990 Total	4,433 4.391	2,432 2,623	966 1,236	('') 1,055	5,901 5,963	5,901 ⁱ 7,018	6,867 8,255	504 660	NA (s)	504 660	3,044 ⁱ 3,245	17,281 ⁱ 19.174
1995 Total	4,850	3,031	1.220	1,258	6,906	8,164	9,384	700	5	705	4,237	22,207
1996 Total	5,241	3,158	1,250	1,289	7,146	8,435	9,685	711	6	718	3,807	22,609
1997 Total	4,984 4.520	3,215	1,203	1,282	7,229	8,511	9,714	751 635	8 9	760	4,065	22,737
1998 Total 1999 Total		2,999 3,045	1,173 1,079	1,355 1.401	6,965 6,678	8,320 8,079	9,493 9,158	645	12	645 657	4,588 4,820	22,246 22,405
2000 Total	4,996	3,182	1,151	1,386	6,757	8,142	9,293	642	13	655	5,206	23,333
2001 Total	4,771	3,023	1,119	1,310	6,035	7,344	8,463	625	15	640	5,342	22,239
2002 Total	4,889	3,144	1,113	1,240	6,267	7,507	8,620	667	15	682	5,672	23,007
2003 Total 2004 Total	5,079 4.869	3,179 3,129	1,122 1,098	1,144 1,191	6,007 6,052	7,150 7,243	8,273 8,341	591 566	18 21	610 587	5,135 5,464	22,277 22,389
2005 Total	4.827	2,999	1,112	1,084	5,514	6,597	7,709	584	23	607	5,869	22,011
2006 Total		2,832	1,142	1,115	5,398	6,512	7,654	584	24	608	6,222	21,685
2007 January February	^R 803 899	432 ^R 477	^R 101 ^R 93	96 79	^R 525 ^R 520	^R 621 ^R 599	^R 722 ^R 692	^R 67 70	2 2	70 72	448 425	^R 2,475 ^R 2,566
March	^R 617	R 354	R 104	81	R 497	^R 578	R 682	58	2	60	425	R 2,129
April	408	^R 260	R 99	80	^R 459	^R 539	^R 638	49	2	51	453	^R 1,810
May	216	^R 168	^R 103	84	^R 437	^R 521	^R 624	41	2	^R 43	507	^R 1,558
	137 118	135 ^R 122	^R 101 ^R 102	85 90	^R 426 ^R 420	^R 510 ^R 510	^R 611 ^R 612	41 44	2 2	43 46	628 761	^R 1,555 ^R 1,659
July August	112	122	R 102	101	R 430	531	R 634	51	2	40 53	969	^R 1,896
September	116	^R 127	^R 102	89	R 428	^R 517	^R 619	42	2	44	683	^R 1.590
October	174	158	^R 105	89	^R 451	^R 540	^R 646	43	2	45	604	^R 1.627
November	^R 405 ^R 717	257 395	^R 104 ^R 108	85 90	^R 482 ^R 523	^R 568 ^R 614	^R 672 ^R 722	49 65	2 2	51 67	448 498	^R 1,834 ^R 2,398
December Total		^R 3,013	R 1,226	1,050	R 5,598	R 6,648	R 7,874	R 621	25	R 646	6,841	R 23,097
2008 January	^R 882	^R 475	R 103	^R 87	^R 572	^R 659	761	R 77	^R 2	^R 80	^R 531	R 2,729
February	^R 817 ^R 654	^R 457 ^R 378	^R 97 ^R 105	^R 78 ^R 80	^R 538 ^R 527	^R 616 ^R 608	^R 713 713	^R 71 ^R 64	2 R2	^R 73 ^R 66	^R 439 ^R 461	^R 2,499 ^R 2,271
April	389	254	R 100	^R 75	R 480	^R 555	^R 656	^R 51	2	^R 53	^R 470	^R 1,822
May	^R 230	179	^R 104	79	^R 462	^R 541	^R 645	43	^R 2	^R 46	^R 475	1,575
June	143	^R 133	R 101	^R 80	R 432	^R 512	^R 613	R 44	2	R 47	^R 665	^R 1,602
July August	118 ^R 111	127 126	^R 106 ^R 106	^R 88 ^R 89	^R 436 ^R 438	^R 524 527	^R 630 ^R 632	^R 47 46	R 2 R 2	^R 50 ^R 49	^R 782 763	^R 1,706 ^R 1,681
September	117	^R 129	^R 91	^R 71	^R 405	^R 476	R 567	R 40	2	^R 43	603	^R 1,458
October	215	^R 184	^R 103	80	^R 456	^R 536	^R 638	^R 45	R 2	47	^R 545	^R 1,631
November	R 428	R 273	R 102	^R 74	R 470	^R 544	^R 647	R 52	2	^R 54	R 458	^R 1,860
December Total		^R 420 ^R 3,136	^R 106 ^R 1,224	^R 75 ^R 955	^R 477 ^R 5,695	^R 552 ^R 6,650	^R 659 ^R 7,874	^R 67 ^R 648	^R 2 ^R 28	R 70 R 676	^R 476 ^R 6,668	^R 2,393 ^R 23,227
2009 January	^R 942	513	^{RE} 108	80	498	578	^R 685	^{RE} 75	E3	^{RE} 78	^R 485	^R 2,704
February	750	^R 421	RE 98	72	R 449	^R 521	^R 619	RE 64	E2	RE 67	R 452	R 2.309
March	597 392	^R 359 247	^{RE} 109 ^{RE} 105	80 ^R 77	^R 454 ^R 413	^R 534 ^R 490	^R 643 ^R 595	RE 60 RE 49	E 3 E 3	^{RE} 63 ^{RE} 51	^R 500 ^R 456	^R 2,162 ^R 1,741
April May	392 203	247 168	RE 108	77	R 388	^R 490	^R 595	RE 49	E 3	RE 45	^R 521	^R 1,510
June	143	132	^{RE} 105	79	^R 379	^R 458	^R 562	^{RE} 43	E 3	^{RE} 45	^R 649	^R 1,530
July	120	134	^{RE} 107	82	^R 391	^R 473	^R 580	^{RE} 46	E3	RE 49	^R 780	^R 1,662
August	113	130	^{RE} 108 ^{RE} 102	83	^R 409 ^R 400	^R 492 ^R 481	R 600	^{RE} 48 ^{RE} 44	E 3 E 3	^{RE} 51 ^{RE} 46	^R 841	R 1,734
September October	119 ^R 250	132 198	RE 102 RE 108	81 ^R 82	R 400 R 439	^R 521	^R 583 ^R 629	RE 46	E 3	RE 49	^R 689 ^R 536	^R 1,570 ^R 1,662
November	375	253	^{RE} 105	R 82	^R 451	^R 533	R 637	^{RE} 50	E3	RE 52	^R 459	^R 1,776
December	761	427	E 108	89	504	593	701	E 69	E 3	E 72	521	2,482
Total	4,764	3,114	^E 1,270	964	5,175	6,138	7,408	E 637	^E 32	E 669	6,888	22,842

a All ^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

electrity-only plants. ^c All industrial sector fuel use other than that in "Lease and Plant Fuel" and

^c All industrial sector rule use onto a data and "CHP."
^d Natural gas consumed in the operation of pipelines, primarily in compressors.
^e Natural gas used as fuel in the delivery of natural gas to consumers.
^f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

^h Included in "Non-CHP." ⁱ For 1989-1992, a small amount of consumption at independent power producers 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, "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.doe.gov/emeu/mer/natgas.html for all available

data beginning in 1973.

Residential, Commercial, Lease and Plant Fuel, Other Industrial Sources: Total and Pipelines and Distribution: 1973-2003—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports. 2004 forward—EIA, Natural Gas Monthly (NGM), February 2010, Table 2. • Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992-1998—Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2010). Table 10, and "Alternatives to Traditional Transportation Fuels 2010). Table 2010, Table 2010, Table 2010, Table 95. (November 2001), Table 95. **1992-1998**—"Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural case and lignefied entered compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). **1999-2003**—EIA, *NGA*, annual reports. **2004 forward**—EIA, *NGM*, *Cohemaet* 2040 Table 2040 Entering Particular Table 2040 For the conversion factor (see Table A4). February 2010, Table 2. • Electric Power Sector: Table 7.4b.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in nderground Storag End of Period	e,	From Sar	Vorking Gas ne Period us Year		Storage Activity	
	Base Gas	Working Gas	Total ^a	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
	2.964	2.024	4 808	205	17.6	4 500	4 074	-442
973 Total	2,864	2,034	4,898	305	17.6	1,533	1,974	
975 Total	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14
985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231
990 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499
995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526
999 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174
			,	-806	-31.9	3,498	,	814
000 Total	4,352	1,719	6,071				2,684	
001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
002 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
003 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193
004 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113
005 Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55
006 Total	4,211	3,070	7,281	435	16.5	2,493	2,924	-431
007 January	4,216	2,383	6,599	12	.5	740	57	683
February	4,216	1,652	5,867	-235	-12.4	782	51	732
March	4,247	1,603	5,850	-89	-5.3	270	219	50
April	4,246	1,723	5,969	-223	-11.4	154	273	-120
May	4,250	2,181	6,432	-129	-5.6	38	498	-460
June	4,231	2,583	6,814	-34	-1.3	47	437	-389
July	4,227	2,896	7,123	117	4.2	84	397	-314
August	4,229	3,021	7,250	52	1.7	167	294	-127
September	4,233	3,315	7,549	-8	2	73	371	-298
October	4,238	3,565	7,804	113	3.3	75	332	-257
November	4,238	3,442	7,680	35	1.0	262	141	121
December	4,234	2,879	7,113	-191	-6.2	632	63	569
Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192
008 January	4,232	^R 2,056	^R 6,288	-327	-13.7	^R 891	^R 67	824
February	4,222	1,465	^R 5,686	^R -187	-11.3	^R 648	56	593
March	4,221	^R 1,266	^R 5,487	^R -337	^R -21.0	350	131	219
April	^R 4,222	1,436	5,659	^R -286	^R -16.6	106	^R 296	-190
May	^R 4,225	^R 1,840	^R 6,065	^R -342	^R -15.7	56	^R 461	^R -405
June	4,230	^R 2,178	^R 6,407	^R -405	^R -15.7	^R 81	^R 423	^R -342
July	4,228	^R 2,517	6,745	R-379	-13.1	88	430	-342
August	4,228	^R 2,866	7,094	^R -155	-5.1	^R 92	442	-350
September	^R 4,230	^R 3,161	^R 7,391	^R -155	^R -4.7	98	398	-300
October	4,235 8 4 222	3,399	7,634 8 7 5 7 7	-166	-4.7	91 B 250	334 B 102	-242
November	^R 4,232	3,346	^R 7,577	-96	-2.8	R 250	^R 193	57
December	^R 4,232	2,840	^R 7,073	-39	-1.4	R 622	110	^R 513
Total	^R 4,232	2,840	^R 7,073	-39	-1.4	^R 3,374	^R 3,340	^R 34
009 January	4,236	2,141	6,377	86	4.2	778	79	698
February	4,242	1,761	6,003	296	20.2	472	100	371
March	4,246	1,656	5,902	408	32.7	296	199	98
April	4,252	1,903	6,155	467	32.5	107	354	-246
	4,253	2,367	6,620	531	28.9	45	512	-467
June	4,260	2,752	7,012	575	26.4	62	449	-387
July	4,266	3,086	7,352	570	22.7	83	413	-330
			7,620	486			356	-268
August	4,268	3,352			16.9	88		
September	4,278	3,643	7,921	480	15.2	57	346	-288
October	4,279	3,807	8,087	408	12.0	97	258	-161
November	4,284	3,833	8,117	487	14.6	140	171	-31
December	4,276	3,131	7,407	290	10.2	743	44	699
Total	4,276	3,131	7,407	290	10.2	2,968	3,281	-313

^a For total underground storage capacity at the end of each calendar year, see Note 4, "Natural Gas Storage," at end of section. ^b For 1980-2008, data differ from those shown on Table 4.1, which includes

liquefied natural gas storage for that period. ^c Positive numbers indicate that withdrawals are greater than injections.

Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section. R=Revised. – – =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.doe.gov/emeu/mer/natgas.html for all available

data beginning in 1973.

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

1976-1979—EIA, Natural Gas Production and Consumption 1979, Table 1. 1980-1995—EIA, Historical Natural Gas Annual 1930 Through 2000, Table 11. 1996-2003—EIA, Natural Gas Monthly (NGM), monthly issues. 2004 forward—EIA, NGM, February 2010, Table 6. • All Other Data: 1973 and 1974—American Gas Association (AGA), Gas Facts, 1972 Data, Table 57, Gas Facts, 1973 Data, Table 57, and Gas Facts, 1974 Data, Table 40. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report," 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, February 2010, Table 6. 1976-1979-EIA, Natural Gas Production and Consumption 1979, Table 1. forward—EIA, NGM, February 2010, Table 6.

Natural Gas

Note 1. Natural Gas Production.

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

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

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

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

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

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

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

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

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

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, EIA estimates the amount consumed by each energy-use sector. 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	1987 8,124	1999 8,229
1976 6,544	1988 8,124	2000 8,241
1977 6,678	1989 8,120	2001 8,415
1978 6,890	1990 7,794	2002 8,207
1979 6,929	1991 7,993	2003 8,206
1980 7,434	1992 7,932	2004 8,255
1981 7,805	1993 7,989	2005 8,268
1982 7,915	1994 8,043	2006 8,330
1983 7,985	1995 7,953	2007 8,402
1984 8,043	1996 7,980	2008 8,499
1985 8,087	1997 8,332	2009 8,569*
1986 8,145	1998 8,179	

Annual data beginning with 1980 are from the EIA, NGA. * Preliminary

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

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

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

The increase of 0.2 trillion cubic feet (Tcf) in the "Balancing Item" category in 1983, followed by a decline of 0.5 Tcf in 1984, reflected unusually large differences resulting from the use of the annual billing cycle (essentially December 15 through the following December 14) consumption data in conjunction with calendar year supply data. Record cold temperatures during the last half of December 1983 resulted in a reported 0.3 Tcf increase in net withdrawals from underground storage for peak shaving as compared with the same period in 1982, but the effect of this cold weather was reflected primarily in 1984 consumption data. For underground storage data, see Table F2 in the May 1985 EIA *NGM*, which was published in July 1985. **Note 6.** Natural Gas Consumption. Consumption includes use for lease and plant fuel, pipelines and distribution, vehicle fuel, and electric power plants, as well as deliveries to residential, commercial, and other industrial customers.

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

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

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

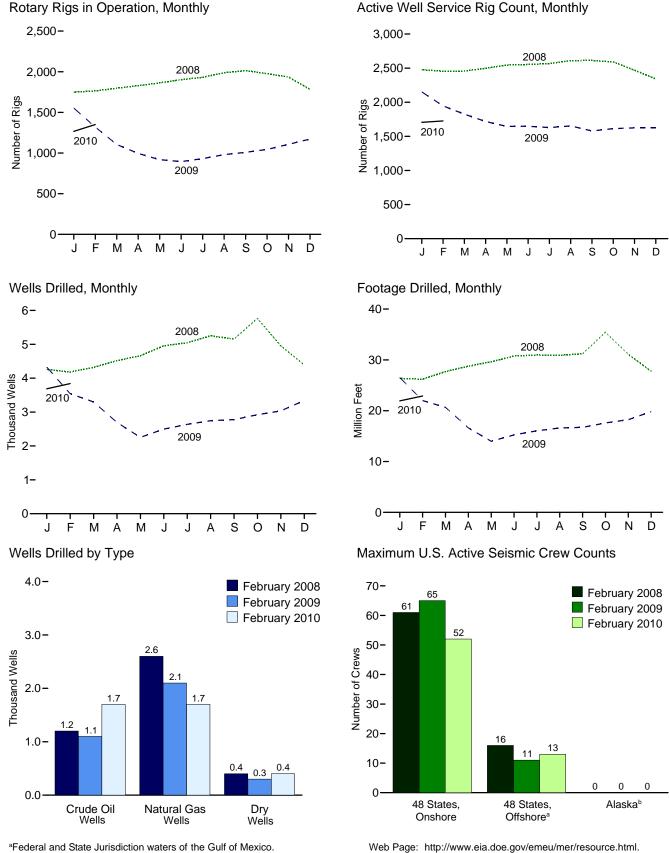


Crude Oil and Natural Gas Resource Development



Semisubmersible drilling rig in the Gulf of Mexico. Source: U.S. Department of Energy.





^bAll onshore.

Sources: Tables 5.1-5.3.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

		R	otary Rigs in Operatio	n ^a		
	Ву	Site	Ву	Туре		Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Rig Count ^c
973 Average	1,110	84	NA	NA	1,194	2,008
975 Average	1,554	106	NA	NA	1.660	2,486
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	3,041
-	671	101	306	464	779	3,445
996 Average	821	108	376	564	943	3,445
997 Average	703	122	264	560	943 827	
998 Average						3,014
999 Average	519	106	128	496	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
2004 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 January	1,690	60	321	1,421	1,749	2,476
February	1,709	56	331	1,426	1,765	2,455
March	1,737	60	343	1,444	1,797	2,457
April	1,765	64	358	1,461	1,829	2,498
May	1,794	68	375	1,478	1,863	2,546
June	1,834	67	383	1,510	1,902	2,554
July	1,865	67	380	1,543	1,932	2,567
	1,920	67	397	1,543	1,932	2,611
August	1,920	72	417			
September	,			1,585	2,014	2,612
October	1,903	73	422	1,542	1,976	2,591
November	1,872	63	426	1,498	1,935	2,469
December	1,716	66	391	1,380	1,782	2,342
Average	1,814	65	379	1,491	1,879	2,515
009 January	1,487	66	328	1,215	1,553	2,152
February	1,263	57	271	1,037	1,320	1,947
March	1,059	46	225	867	1,105	1,825
April	947	48	209	775	995	1,718
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
	1,130 1,046	44	278	801	1,089	1,025
Average	1,040	44	210	001	1,009	1,722
010 January	1,225	42	433	822	1,267	1,706
February	1,305	45	446	892	1,350	1,726
2-Month Average	1,265	44	440	857	1,309	1,716
009 2-Month Average	1,388	62	303	1,136	1,450	2,050
008 2-Month Average	1,700	58	327	1,424	1,758	2,466

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

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

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

NA=Not available.

Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/resource.html for all available

Web Page: See http://www.ela.due.gov/en/eu/inforesource.html.for.au transcere 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.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

1973 Total 1 1975 Total 1 1975 Total 1 1980 Total 1 1985 Total 1 1995 Total 1 1999 Total 1 2000 Total 2000 Total 2001 Total R 2002 Total R 2005 Total R 2006 Total R 2006 Total R 2007 Total R 2008 January R March April May June July August September October November R	rude Oil 642 982 1,777 1,680 4891 327 197 287 357 257 385 R 537 834 895 R 70 69 8 64	Exploi Natural Gas 1,067 1,248 2,099 1,200 812 557 576 561 566 567 8 655 1,052 R 843 8 999 R 1,677 R 2,149 R 2,461 R 2,214 R 221 R 2227 R 2219	5,952 7,129 9,081 8,954 R 3,651 2,023 1,956 R 2,112 R 1,590 1,157 1,337 1,724 R 1,279 R 1,351 R 1,472 R 1,528 R 1,618 R 1,472 R 1,54 R 114 139 131 137 158	Total 7,661 9,359 12,957 11,834 ^R 5,241 3,150 3,021 ^R 3,164 ^R 2,483 1,921 ^R 2,279 3,133 2,379 ^R 2,649 ^R 3,413 ^R 4,158 ^R 4,648 ^R 4,433 ^R 4,464 ^R 443 ^R 427 ^R 464	Crude Oil 9,525 15,966 31,182 33,581 R 1,952 7,620 R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 R 8,361 10,158 12,629 R 1,2802 R 1,128 1,109 1,243 R 1,371	Develo Natural Gas Num 5,866 6,879 15,362 13,124 10,412 7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 R 30,254 2,382 2,364 2,459 2,552	Dry	Total 19,759 29,362 58,248 58,962 ^R 26,947 17,928 ^R 19,660 25,372 21,537 18,321 26,915 32,330 (5,915) 32,330 (5,914) 33,486 ^R 39,749 46,692 ^R 46,613 ^R 3,797 3,738 3,870 (9,925)	Crude Oil 10,167 16,948 32,959 35,261 R 12,730 8,190 R 8,780 11,173 7,652 4,745 8,078 8,871 6,753 8,871 6,753 8,871 6,753 8,874 8,874 8,874 8,874 8,874 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	Aatural Gas 6,933 8,127 17,461 14,324 11,224 8,076 9,011 11,490 11,490 11,607 11,944 R 10,982 22,028 R 17,293 R 20,682 R 32,875 R 33,138 R 2,603 R 2,603 R 2,700 R 2,700	10,320 13,646 20,785 21,211 R 8,234 4,812 4,890 R 5,873 R 4,761 R 4,764 R 3,727 3,969 R 4,769 R 4,644 R 3,727 S,969 R 4,049 R 5,177 R 5,177 S 5,177 R 5,177 S 5,177 S 5,177 R 5,177 S 5,177	Total 27,420 38,721 71,205 70,796 82,2188 21,078 82,2188 24,020 20,242 82,9194 35,463 27,773 83,2739 83,6399 843,907 851,340 851,949 843,907 851,340 851,949 843,907 851,949 844,261 84,320 84,519	Total Footage Drilled Thousan Feet 138,223 180,494 316,943 314,409 155,887 R 117,244 R 126,449 R 161,667 R 137,484 R 102,810 R 144,293 R 144,293 R 144,293 R 145,084 R 177,366 R 204,274 R 241,050 R 284,418 R 309,734 R 26,357 R 26,208 R 27,702 R 28,753
973 Total 975 Total 975 Total 975 Total 975 Total 1 980 Total 1 9980 Total 1 995 Total 995 Total 997 Total 997 Total 998 Total 998 Total 999 Total 999 Total 999 Total 000 Total 000 Total 000 Total 0001 Total 8 0005 Total 8 0006 Total 8 0007 Total 8 0008 January 8 February 4 March April May July August September October 7 November 8 December 7 Total 8	Oil 642 92 9377 1,680 778 577 489 491 327 357 357 353 385 853 855 853 854 859 834 89 835 859 834 89 855 834	Gas 1,067 1,248 2,099 1,200 812 557 576 561 566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,149 R 2,149 R 2,461 R 2,484 R 221 R 244 R 244 R 241 R 2229	5,952 7,129 9,081 8,954 R 3,651 2,023 1,956 R 2,112 R 1,590 1,157 1,724 R 1,590 1,157 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	7,661 9,359 12,957 11,834 R 5,241 3,150 3,021 R 3,164 R 2,483 1,921 R 2,279 R 3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 4,648 R 4,433 R 4,450 R 4,457 R 4,644	Oil 9,525 15,966 31,182 33,581 ^R 11,952 7,620 ^R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 ^R 8,361 10,158 12,629 ^R 12,802 ^R 12,802 ^R 1,128 1,109 1,119 1,243	Gas Num 5,866 6,879 15,362 13,124 10,412 7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,382 2,364 2,459 2,552	4,368 6,517 11,704 12,257 4,583 2,789 2,934 3,761 3,171 2,396 2,797 2,840 2,448 2,679 2,840 2,448 2,679 2,698 3,187 3,649 3,557 287 265 292	19,759 29,362 58,248 58,962 ^R 26,947 17,928 ^R 19,660 25,372 21,537 18,321 26,915 32,330 25,394 30,090 ^R 33,486 ^R 39,749 46,692 ^R 46,613 ^R 3,797 3,738 3,870	Oil 10,167 16,948 32,959 35,261 ^R 12,730 ^R 8,780 11,173 7,652 4,745 8,078 8,871 6,753 8,078 8,871 6,753 8,078 8,871 6,753 8,078 8,871 6,753 8,078 8,746 ^R 10,695 ^R 13,288 ^R 13,288 ^R 13,288 ^R 13,288 ^R 13,288 ^R 13,288 ^R 13,288 ^R 13,288 ^R 1,217 ^R 1,194 ^R 1,189	Gas 6,933 8,127 17,461 14,324 11,224 8,076 9,011 11,490 11,607 11,944 R 16,982 22,028 R 17,293 R 20,682 R 24,104 R 28,553 R 33,138 R 2,603 R 2,608 R 2,700	10,320 13,646 20,785 21,211 R 8,234 4,812 4,812 4,810 R 5,873 R 4,761 3,553 R 4,761 3,553 R 4,761 R 5,873 R 4,049 R 4,659 R 4,049 R 4,659 R 5,177 R 5,175 441 R 3,799 431	27,420 38,721 71,205 70,796 R 32,188 21,078 R 22,681 R 22,681 R 22,681 R 22,681 R 24,020 20,242 R 29,194 35,463 27,773 R 32,739 R 32,739 R 32,739 R 32,739 R 34,3907 R 51,340 R 51,949 R 4,181 R 4,182	Footage Drilled Thousan Feet 138,223 180,494 316,943 314,409 155,87 R 117,244 R 126,448 R 126,448 R 102,810 R 144,293 R 145,084 R 145,084 R 204,274 R 241,055 R 284,418 R 309,754 R 26,265 R 27,702 R 27,702 R 27,702 R 27,702
975 Total	982 1,777 1,680 489 491 327 197 287 357 257 353 353 353 353 353 857 859 R 834 89 R 85 R 70 69 98	1,248 2,099 1,200 812 557 576 561 566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 2,461 R 2,884 R 221 R 2,461 R 2,241 R 2,242 R 2,241 R 2,242 R 2,442 R 2,442 R 2,442 R 3,442 R 3,442	7,129 9,081 8,954 R 3,651 2,023 1,956 R 2,112 R 1,590 1,157 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131	9,359 12,957 11,834 R 5,241 3,150 3,021 R 3,164 R 2,483 1,921 R 2,279 R 2,649 R 3,413 R 3,413 R 4,648 R 4,5336 R 4,648 R 4,433 R 4,644 R 4,433 R 4,454 R 4,457 R 4,644	15,966 31,182 33,581 R 11,952 7,620 R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 R 8,361 10,158 12,629 R 12,802 R 12,802 R 1,128 1,109 1,119 1,243	5,866 6,879 15,362 13,124 10,412 7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,364 2,364 2,365	4,368 6,517 11,704 12,257 4,583 2,789 2,938 3,761 3,171 2,396 2,448 2,679 2,840 2,448 2,679 2,698 3,187 3,649 3,557 287 265 292	29,362 58,248 58,962 R 26,947 17,928 R 19,660 25,372 21,537 18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 R 46,613 R 3,797 3,738 3,870	16,948 32,959 35,261 R 12,730 R 8,780 R 8,780 11,173 7,652 4,745 8,078 8,871 6,753 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	8,127 17,461 14,324 11,224 8,076 9,011 11,490 11,607 11,944 R 16,982 22,028 R 17,293 R 20,682 R 22,0682 R 22,0682 R 22,104 R 28,553 R 33,138 R 2,603 R 2,603 R 2,603 R 2,603	13,646 20,785 21,211 R 8,234 4,812 4,890 R 5,873 R 4,761 3,553 R 4,761 3,553 R 4,761 3,563 R 4,049 R 4,659 R 5,177 R 5,175 4,114 R 3,799 4,31	38,721 71,205 73,2188 21,078 8 22,188 21,078 8 22,2681 8 22,2681 8 22,2681 8 22,2681 8 24,020 20,242 8 29,143 35,463 27,773 8 35,463 27,773 8 35,463 27,773 8 36,899 8 43,907 8 51,340 8 51,949 8 43,907 8 44,907 8 43,907 8 44,907 8 44,907	Feet 138,223 180,434 316,944 316,944 316,944 155,887 R 117,244 R 161,667 R 137,484 R 161,667 R 137,484 R 162,814 R 142,293 R 180,066 R 144,293 R 180,066 R 244,057 R 244,057 R 244,057 R 26,205 R 26,205 R 27,700 R 28,753
975 Total 1 980 Total 1 980 Total 1 990 Total 1 990 Total 1 990 Total 1 991 Total 1 992 Total 1 993 Total 1 994 Total 1 995 Total 1 996 Total 1 997 Total 1 998 Total 1 909 Total 1 000 Total 1 001 Total 1 003 Total 1 004 Total 1 005 Total 1 006 Total 1 006 Total 1 8 1 990 Total 1 900 Total 1 900 Total<	982 1,777 1,680 489 491 327 197 287 357 257 353 353 353 353 353 857 859 R 834 89 R 85 R 70 69 98	1,248 2,099 1,200 812 557 561 566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 2,461 R 2,284 R 221 R 244 R 241 R 227 R 2229	7,129 9,081 8,954 R 3,651 2,023 1,956 R 2,112 R 1,590 1,157 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131	9,359 12,957 11,834 R 5,241 3,150 3,021 R 3,164 R 2,483 1,921 R 2,279 R 2,649 R 3,413 R 3,413 R 4,648 R 4,5336 R 4,648 R 4,433 R 4,644 R 4,433 R 4,454 R 4,457 R 4,644	15,966 31,182 33,581 R 11,952 7,620 R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 R 8,361 10,158 12,629 R 12,802 R 12,802 R 1,128 1,109 1,119 1,243	6,879 15,362 13,124 10,412 7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 ℝ 26,404 30,414 ℝ 30,254 2,382 2,384 2,382 2,364 2,459 2,552	6,517 11,704 12,257 4,583 2,789 2,934 3,761 3,171 2,396 2,797 2,840 2,448 2,679 2,840 2,448 2,679 3,649 3,557 287 265 287 265 202	29,362 58,248 58,962 R 26,947 17,928 R 19,660 25,372 21,537 18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 R 46,613 R 3,797 3,738 3,870	16,948 32,959 35,261 R 12,730 R 8,780 R 8,780 11,173 7,652 4,745 8,078 8,871 6,753 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	8,127 17,461 14,324 11,224 8,076 9,011 11,490 11,607 11,944 R 16,982 22,028 R 17,293 R 20,682 R 22,0682 R 22,0682 R 22,104 R 28,553 R 33,138 R 2,603 R 2,603 R 2,603 R 2,603	13,646 20,785 21,211 R 8,234 4,812 4,890 R 5,873 R 4,761 3,553 R 4,761 3,553 R 4,761 3,563 R 4,049 R 4,659 R 5,177 R 5,175 4,114 R 3,799 4,31	38,721 71,205 73,2188 21,078 8 22,188 21,078 8 22,2681 8 22,2681 8 22,2681 8 22,2681 8 24,020 20,242 8 29,143 35,463 27,773 8 35,463 27,773 8 35,463 27,773 8 36,899 8 43,907 8 51,340 8 51,949 8 43,907 8 44,907 8 43,907 8 44,907 8 44,907	180,49 316,94 314,40 155,88 R 117,24 R 161,66 R 137,48 R 102,811 R 144,29 R 144,29 R 144,29 R 145,08 R 177,38 R 204,27 R 241,05 R 284,411 R 309,73 R 26,35 R 26,20 R 27,70 R 27,70 R 22,70 R 22,81 R 28,22 R 20,22 R 28,22 R 20,22 R
975 Total 1 980 Total 1 985 Total 1 995 Total 995 Total 995 Total 997 Total 997 Total 998 Total 998 Total 999 Total 999 Total 999 Total 000 Total 001 Total 001 Total 002 Total 003 Total 003 Total 004 Total R 005 Total R 006 Total R 006 Total R 006 Total R 007 Total R 008 January R June June June July August September October November R November R December Total R 009 January	982 1,777 1,680 489 491 327 197 287 357 257 353 353 353 353 353 857 859 R 834 89 R 85 R 70 69 98	1,248 2,099 1,200 812 557 561 566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 2,461 R 2,284 R 221 R 244 R 241 R 227 R 2229	7,129 9,081 8,954 R 3,651 2,023 1,956 R 2,112 R 1,590 1,157 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131	9,359 12,957 11,834 R 5,241 3,150 3,021 R 3,164 R 2,483 1,921 R 2,279 R 2,649 R 3,413 R 3,413 R 4,648 R 4,5336 R 4,648 R 4,433 R 4,644 R 4,433 R 4,454 R 4,457 R 4,644	15,966 31,182 33,581 R 11,952 7,620 R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 R 8,361 10,158 12,629 R 12,802 R 12,802 R 1,128 1,109 1,119 1,243	6,879 15,362 13,124 10,412 7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 ℝ 26,404 30,414 ℝ 30,254 2,382 2,384 2,382 2,364 2,459 2,552	6,517 11,704 12,257 4,583 2,789 2,934 3,761 3,171 2,396 2,797 2,840 2,448 2,679 2,840 2,448 2,679 3,649 3,557 287 265 287 265 202	29,362 58,248 58,962 R 26,947 17,928 R 19,660 25,372 21,537 18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 R 46,613 R 3,797 3,738 3,870	16,948 32,959 35,261 R 12,730 R 8,780 R 8,780 11,173 7,652 4,745 8,078 8,871 6,753 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	8,127 17,461 14,324 11,224 8,076 9,011 11,490 11,607 11,944 R 16,982 22,028 R 17,293 R 20,682 R 22,0682 R 22,0682 R 22,104 R 28,553 R 33,138 R 2,603 R 2,603 R 2,603 R 2,603	13,646 20,785 21,211 R 8,234 4,812 4,890 R 5,873 R 4,761 3,553 R 4,761 3,553 R 4,761 3,563 R 4,049 R 4,659 R 5,177 R 5,175 4,114 R 3,799 4,31	38,721 71,205 73,2188 21,078 8 22,188 21,078 8 22,2681 8 22,2681 8 22,2681 8 22,2681 8 24,020 20,242 8 29,143 35,463 27,773 8 35,463 27,773 8 35,463 27,773 8 36,899 8 43,907 8 51,340 8 51,949 8 43,907 8 44,907 8 43,907 8 44,907 8 44,907	180,49 316,94 314,40 155,88 R 117,24 R 161,66 R 137,48 R 102,811 R 144,29 R 144,29 R 144,29 R 145,08 R 177,38 R 204,27 R 241,05 R 284,411 R 309,73 R 26,35 R 26,20 R 27,70 R 27,70 R 22,70 R 22,81 R 28,22 R 20,22 R 28,22 R 20,22 R
980 Total 1 985 Total 1 990 Total 1 995 Total 1 996 Total 1 997 Total 1 998 Total 1 999 Total 1 900 Total 1 903 Total 1 903 Total 1 904 Total 1 905 Total 1 905 Total 1 906 Total 1 907 Total 1 908 January 1 February 1 May 1 June 1 June 1 July 1 August 1 November 1 November 1 November 1 909 January 1 February 1<	1,777 1,680 778 570 489 491 327 197 287 357 257 353 385 * 537 * 659 * 834 * 85 * 70 69 98	2,099 1,200 812 557 576 566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 244 R 241 R 244 R 241 R 227 R 229	9,081 8,954 R 3,651 2,023 1,956 R 2,112 R 1,590 1,157 1,337 R 1,590 1,279 R 1,279 R 1,279 R 1,279 R 1,528 R 1,618 154 R 114 139 131	12,957 11,834 ^R 5,241 3,150 3,021 ^R 3,164 ^R 2,483 1,921 ^R 2,279 3,133 2,379 ^R 2,649 ^R 3,413 ^R 4,158 ^R 4,648 ^R 4,433 ^R 4,464 ^R 4,464	31,182 33,581 R 11,952 7,620 R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 R 8,361 10,158 12,629 R 12,802 R 1,128 1,109 1,119 1,243	15,362 13,124 10,412 7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,364 2,355	11,704 12,257 4,583 2,789 2,934 3,761 3,761 2,396 2,797 2,840 2,484 2,672 2,698 3,187 3,649 3,557 287 287 265 292	58,248 58,962 R 26,947 17,928 R 19,660 25,372 21,537 18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	32,959 35,261 R 12,730 8,190 R 8,780 11,173 7,652 4,745 8,078 8,871 8,078 8,871 8,078 8,871 8,078 8,874 R 10,695 R 13,288 R 13,288 R 13,288 R 1,217 R 1,194 R 1,189	17,461 14,324 8,076 9,011 11,490 11,607 11,944 ^R 16,982 22,028 ^R 17,293 ^R 20,682 ^R 24,104 ^R 28,553 ^R 32,875 ^R 33,138 ^R 2,603 ^R 2,603 ^R 2,603 ^R 2,700	20,785 21,211 R ^R 8,234 4,812 4,890 R ⁵ 5,873 R ⁴ 4,761 3,553 4,134 4,564 R ³ ,727 R ⁵ 4,765 R ⁵ 4,049 R ⁴ 4,659 R ⁵ 4,049 R ⁵ 5,175 441 R ³ 79 431	71,205 70,796 R 32,188 21,078 R 22,681 R 22,681 R 24,052 20,242 R 29,194 35,463 27,773 R 32,739 R 36,899 R 43,907 R 43,907 R 51,949 R 4,261 R 4,261 R 4,320	316,94 314,40 315,48 R 117,24 R 126,44 R 126,44 R 102,81 R 142,98 R 177,38 R 145,08 R 145,08 R 145,08 R 241,05 R 241,05 R 284,41 R 309,73 R 26,35 R 26,20 R 26,20 R 27,75 R 26,20 R 26
385 Total 1 390 Total 995 395 Total 995 396 Total 997 398 Total 998 399 Total 999 390 Total 900 300 Total 900 300 Total 900 301 Total 900 302 Total 900 303 Total 900 304 Total 8 3005 Total 8 3006 Total 8 3006 Total 8 3007 Total 8 3008 January 8 February 4 March 4 August 3 June 3 June 9 June 9 June 9 June 9 November 8 December 7 November 8 December 7 Total 8 3009 January 9 February 9	1,680 778 570 489 491 327 197 287 357 257 353 385 * 537 * 659 * 834 * 85 * 70 69 98	1,200 812 557 556 561 566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 244 R 244 R 244 R 227 R 229	8,954 R 3,651 2,023 1,956 R 2,112 R 1,590 1,157 1,337 1,724 R 1,279 R 1,351 R 1,472 R 1,472 R 1,528 R 1,618 154 R 114 139 131	11,834 R 5,241 3,150 3,021 R 3,164 R 2,483 1,921 R 2,279 3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 464 R 443 R 427 R 464	33,581 ^R 11,952 7,620 ^R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 ^R 8,361 10,158 12,629 ^R 12,802 ^R 1,128 1,109 1,119 1,243	13,124 10,412 7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 16,450 16,450 16,83 22,427 ^ℝ 26,404 30,414 ^ℝ 30,254 ^ℝ 2,382 2,364 2,362 2,364 2,459 2,552	12,257 4,583 2,789 2,934 3,761 3,171 2,396 2,797 2,840 2,478 2,672 2,698 3,187 3,649 3,557 287 265 287 265 292	58,962 R 26,947 17,928 R 19,660 25,372 21,537 18,321 26,915 32,330 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	35,261 R 12,730 8,190 R 8,780 11,173 7,652 4,745 8,078 8,871 8,078 8,871 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	14,324 11,224 11,224 11,224 9,011 11,490 11,607 11,944 R 16,982 22,028 R 17,293 R 20,682 R 22,104 R 28,553 R 32,875 R 33,138 R 2,603 R 2,603 R 2,603 R 2,603	21,211 R 8,234 4,810 R 5,873 R 4,761 3,553 4,134 4,564 R 3,727 3,969 R 4,049 R 4,659 R 4,049 R 4,659 R 4,049 R 4,659 441 R 3,797 431	70,796 R 32,188 21,078 R 22,681 R 28,536 R 24,020 20,242 R 29,194 35,463 20,242 R 29,194 35,463 20,242 R 35,463 R 34,463 R 34,463	314,40 155,88 155,88 126,44 126,44 126,44 126,44 126,44 126,44 137,48 144,29
995 Total	570 489 491 327 197 287 357 257 353 385 R 537 R 659 R 834 89 R 85 R 70 69 98	557 576 561 566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 244 R 241 R 244 R 241 R 227 R 229	2,023 1,956 R 2,112 R 1,590 1,157 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	3,150 3,021 R 3,164 R 2,483 1,921 R 2,279 R 3,413 R 3,413 R 4,648 R 5,336 R 4,648 R 4,433 R 4,443 R 440 R 440 R 427 R 4,644	7,620 R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 R 8,361 10,158 12,629 R 12,802 R 1,128 1,109 1,119 1,243	7,519 8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,364 2,364 2,365 2,552	2,789 2,934 3,761 2,396 2,797 2,840 2,698 3,187 3,649 3,557 287 265 292	17,928 ^R 19,660 25,372 21,537 18,321 26,915 32,330 25,394 30,090 ^R 33,486 ^R 39,749 46,692 ^R 46,613 ^R 3,797 3,738 3,870	8,190 R 8,780 11,173 7,652 4,745 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	8,076 9,011 11,490 11,607 11,944 R 16,982 22,028 R 17,293 R 20,682 R 24,104 R 28,553 R 32,875 R 33,138 R 2,603 R 2,603 R 2,603 R 2,603	4,812 4,890 R 5,873 R 4,761 3,553 4,134 4,564 R 3,727 R 5,175 R 5,175 441 R 379 431	21,078 R 22,681 R 28,536 R 24,020 20,242 R 29,194 35,463 27,773 R 32,739 R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 117,24 R 126,44 R 161,46 R 137,46 R 137,46 R 102,81 R 144,25 R 180,060 R 177,38 R 204,27 R 241,05 R 284,41 R 309,73 R 26,35 R 26,20 R 27,77 R 28,75
995 Total	489 491 327 197 287 357 257 353 385 853 853 853 853 853 853 853 853	576 561 566 567 R 655 R 843 R 999 R 1,677 R 2,461 R 2,461 R 2,884 R 221 R 244 R 241 R 244 R 221 R 222	2,023 1,956 R 2,112 R 1,590 1,157 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	3,021 R 3,164 R 2,483 1,921 R 2,279 3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 464 R 443 R 443 R 444 R 443 R 444 R 443 R 444 R 444 R 444 R 444 R 446 R 4464 R 4664 R 46667 R 46667 R 4667 R 4667 R 4667 R 4667 R 4667 R 4667 R 4667 R 4667 R 4667 R 46	 R 8,291 10,682 7,325 4,548 7,791 8,514 6,496 7,735 R 8,361 10,158 12,629 R 12,802 R 1,128 1,109 1,119 1,243 	8,435 10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,364 2,459 2,552	2,934 3,761 3,171 2,396 2,797 2,840 2,448 2,672 2,698 3,187 3,649 3,557 287 265 292	 R 19,660 25,372 21,537 18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870 	8,190 R 8,780 11,173 7,652 4,745 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	9,011 11,490 11,607 11,944 ^R 16,982 22,028 ^R 17,293 ^R 20,682 ^R 24,104 ^R 28,553 ^R 32,875 ^R 33,138 ^R 2,603 ^R 2,603 ^R 2,603	4,890 R 5,873 R 4,761 3,553 4,134 4,564 R 3,727 3,969 R 4,049 R 4,659 R 4,659 R 4,659 R 5,177 R 5,177 R 5,177 441 R 3,79 431	R 22,681 R 28,536 R 24,020 20,242 R 29,194 35,463 27,773 R 32,739 R 36,899 R 43,907 R 51,340 R 51,349 R 4,261 R 4,181 R 4,320	R 126,44 R 161,66 R 102,81 R 102,81 R 144,29 R 180,06 R 145,08 R 145,08 R 145,08 R 241,05 R 284,41 R 309,73 R 26,35 R 26,35 R 26,35 R 27,70 R 28,75
997 Total	491 327 197 287 357 257 353 385 ^R 537 ^R 659 ^R 834 ⁸⁹ ^R 85 ^R 70 69 98	561 566 567 8655 1,052 8843 8999 81,677 82,149 82,461 82,262 82,461 82,262 82,461 82,262 82,461 82,262 82,2	R 2;112 R 1;590 1;157 1;337 1;724 R 1;279 R 1;257 R 1;351 R 1;472 R 1;528 R 1;618 154 R 114 139 131	R 3,164 R 2,483 1,921 R 2,279 3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 4,648 R 443 R 443 R 440 R 4427 R 464	10,682 7,325 4,548 7,791 8,514 6,496 7,735 ^ℝ 8,361 10,158 12,629 ^ℝ 12,802 ^ℝ 12,802 ^ℝ 1,128 1,109 1,1243	10,929 11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 R 30,254 2,382 2,364 2,364 2,365 2,355	3,761 3,171 2,396 2,797 2,840 2,448 2,672 2,698 3,187 3,649 3,557 287 265 292	25,372 21,537 18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	11,173 7,652 4,745 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	11,490 11,607 11,944 R 16,982 22,028 R 22,028 R 22,028 R 22,028 R 22,028 R 22,028 R 22,028 R 22,028 R 22,028 R 33,138 R 2,603 R 2,603 R 2,603 R 2,603	R 5,873 R 4,761 3,553 4,134 4,564 R 3,727 3,969 R 4,049 R 4,049 R 4,659 R 5,177 R 5,175 441 R 379 431	R 28,536 R 24,020 20,242 R 29,194 35,463 27,773 R 32,739 R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 126,44 R 161,66 R 102,81 R 102,81 R 144,29 R 180,06 R 145,08 R 145,08 R 145,08 R 241,05 R 284,41 R 309,73 R 26,35 R 26,35 R 26,35 R 27,70 R 28,75
997 Total	327 197 287 357 257 353 385 ^R 533 ^R 659 ^R 834 ⁸⁹ ^R 85 ^R 70 69 98	566 567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 224 R 224 R 224 R 224 R 227 R 229	R 1,590 1,157 1,337 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	R 2,483 1,921 R 2,279 3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 4,648 R 4,648 R 4,648 R 4,648 R 4,648 R 4,648 R 4,648 R 4,433 R 4,642 R 4,642 R 4,642 R 4,642 R 4,642 R 4,642 R 4,644 R 4,642 R 4,642 R 4,644 R 4,645 R 4,655 R 4,6557 R 4,655 R 4,655 R 4,655 R 4,655 R 4,655 R 4	10,682 7,325 4,548 7,791 8,514 6,496 7,735 ^ℝ 8,361 10,158 12,629 ^ℝ 12,802 ^ℝ 12,802 ^ℝ 1,128 1,109 1,1243	11,041 11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,384 2,384 2,364 2,355	3,171 2,396 2,797 2,840 2,448 2,672 2,698 3,187 3,649 3,557 287 265 292	21,537 18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	7,652 4,745 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,636 R 1,217 R 1,194 R 1,189	11,607 11,944 ^R 16,982 22,028 ^R 17,293 ^R 20,682 ^R 24,104 ^R 28,553 ^R 32,875 ^R 33,138 ^R 2,608 ^R 2,608 ^R 2,700	R 4,761 3,553 4,134 4,564 R 3,727 3,969 R 4,049 R 4,659 R 5,177 R 5,175 441 R 379 431	R 28,536 R 24,020 20,242 R 29,194 35,463 27,773 R 32,739 R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 137,48 R 102,81 R 144,29 R 180,06 R 145,08 R 145,08 R 145,08 R 145,08 R 204,27 R 241,05 R 26,35 R 27,75 R 26,35 R 27,75 R 26,35 R 27,75 R 26,35 R 27,75 R 26,35 R 27,77 R 26,35 R 26,35 R 26,35 R 27,77 R 26,35 R 26,35 R 26,35 R 27,777 R 26,35 R 26,35 R 26,35 R 26,35 R 26,35 R 26,35 R 26,35 R 26,35 R 26,35 R 27,777 R 26,35 R 26,35 R 27,777 R 26,35 R 27,777 R 26,35 R 27,777 R 26,35 R 27,777 R 26,35 R 27,777 R 27,7777 R 27,7777 R 27,7777 R 27,7777 R 27,7777 R 27,77777777777777777777777777777777777
999 Total	197 287 357 257 353 385 ^R 537 ^R 659 ^R 834 89 ^R 85 ^R 70 69 98	567 R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,461 R 2,461 R 221 R 244 R 221 R 244 R 221 R 224 R 227 R 229	1,157 1,337 1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	1,921 R 2,279 3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 4,648 R 4,648 R 4,644 R 4,433 R 4,644 R 4,433 R 4,644 R 4,433 R 4,644 R 4,433 R 4,644 R 4,433 R 4,644 R 4,433 R 4,644 R 4,454 R 4,644 R 4,454 R 4,644 R 4,457 R 4,664 R 4,457 R 4,457 R 4,664 R 4,457 R 4,457R 4,457 R 4,457R 4,457 R 4,457 R 4,457R 4,457 R 4,457 R 4,457R 4,457R 4,457 R 4,457R 4,457R 4,457R 4,	4,548 7,791 8,514 6,496 7,735 ^R 8,361 10,158 R 1,2629 ^R 12,802 ^R 1,128 1,109 1,119 1,243	11,377 16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,364 2,364 2,459 2,552	2,396 2,797 2,840 2,448 2,672 2,698 3,187 3,649 3,557 287 265 292	18,321 26,915 32,330 25,394 30,090 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	4,745 8,078 8,871 6,753 8,088 R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,194 R 1,189	11,944 ^R 16,982 22,028 ^R 27,293 ^R 20,682 ^R 24,104 ^R 28,553 ^R 33,138 ^R 2,603 ^R 2,608 ^R 2,700	3,553 4,134 4,564 R 3,727 3,969 R 4,049 R 4,659 R 5,177 R 5,175 441 R 379 431	20,242 R 29,194 35,463 27,773 R 32,739 R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 102,81 R 144,29 R 180,06 R 145,08 R 177,38 R 204,27 R 241,05 R 284,41 R 309,73 R 26,35 R 26,35 R 26,20 R 27,70 R 28,75
999 Total	287 357 257 353 385 ^R 537 ^R 659 ^R 834 89 ^R 85 ^R 70 69 98	R 655 1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 244 R 224 R 244 R 227 R 229	1,337 1,724 R 1,279 R 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	R 2,279 3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 464 R 443 R 443 R 450 R 427 R 464	7,791 8,514 6,496 7,735 ^R 8,361 10,158 12,629 ^R 12,802 ^R 1,128 1,109 1,119 1,243	16,327 20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,364 2,459 2,552	2,797 2,840 2,448 2,672 2,698 3,187 3,649 3,557 287 265 292	26,915 32,330 25,394 30,090 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	8,078 8,871 6,753 8,088 ^R 8,746 ^R 10,695 ^R 13,288 ^R 13,636 ^R 1,217 ^R 1,194 ^R 1,189	R 16,982 22,028 R 17,293 R 20,682 R 24,104 R 28,553 R 32,875 R 33,138 R 2,603 R 2,608 R 2,700	4,134 4,564 R 3,727 3,969 R 4,049 R 4,659 R 5,177 R 5,175 441 R 379 431	R 29,194 35,463 27,773 R 32,739 R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 144,29 R 180,06 R 145,08 R 177,38 R 204,27 R 241,05 R 284,41 R 309,73 R 26,35 R 26,20 R 27,70 R 28,75
001 Total 002 Total 003 Total 003 Total 004 Total R 005 Total R 006 Total R 007 Total R 007 Total R 008 January R June June June June June September October November November R December R 009 January February	357 257 353 385 ^R 537 ^R 659 ^R 834 89 ^R 85 ^R 70 69 98	1,052 R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 241 R 241 R 227 R 229	1,724 R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	3,133 2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 464 R 443 R 4450 R 427 R 464	8,514 6,496 7,735 ^R 8,361 10,158 12,629 ^R 12,802 ^R 1,128 1,109 1,119 1,243	20,976 16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,364 2,459 2,552	2,840 2,448 2,672 2,698 3,187 3,649 3,557 287 265 292	32,330 25,394 30,090 R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	8,871 6,753 8,088 ^R 8,746 ^R 10,695 ^R 13,288 ^R 13,636 ^R 1,217 ^R 1,194 ^R 1,189	22,028 ^R 17,293 ^R 20,682 ^R 24,104 ^R 28,553 ^R 32,875 ^R 33,138 ^R 2,603 ^R 2,608 ^R 2,700	4,564 R 3,727 3,969 R 4,049 R 4,659 R 5,177 R 5,175 441 R 379 431	35,463 27,773 R 32,739 R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 180,06 R 145,08 R 177,38 R 204,27 R 241,05 R 284,41 R 309,73 R 26,35 R 26,20 R 27,70 R 28,75
001 Total 002 Total 003 Total 003 Total 004 Total R 005 Total R 006 Total R 007 Total R 007 Total R 008 January R June June June June June September October November November R December R 009 January February	257 353 385 ^R 537 ^R 659 ^R 834 ⁸⁹ ^R 85 ^R 70 69 98	R 843 R 999 R 1,677 R 2,149 R 2,461 R 2,461 R 2,484 R 221 R 241 R 241 R 227 R 229	R 1,279 1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 1,618 154 139 131 137	2,379 R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 464 R 443 R 450 R 427 R 464	6,496 7,735 R 8,361 10,158 12,629 R 12,802 R 12,802 R 1,128 1,109 1,119 1,243	16,450 19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,459 2,552	2,448 2,672 2,698 3,187 3,649 3,557 287 265 292	25,394 30,090 ^R 33,486 ^R 39,749 46,692 ^R 46,613 ^R 3,797 3,738 3,870	6,753 8,088 ^R 8,746 ^R 10,695 ^R 13,288 ^R 13,636 ^R 1,217 ^R 1,217 ^R 1,194 ^R 1,189	R 17,293 R 20,682 R 24,104 R 28,553 R 32,875 R 33,138 R 2,603 R 2,608 R 2,700	R 3,727 3,969 R 4,049 R 4,659 R 5,177 R 5,175 441 R 379 431	27,773 ^R 32,739 ^R 36,899 ^R 43,907 ^R 51,340 ^R 51,949 ^R 4,261 ^R 4,181 ^R 4,320	R 145,08 R 177,38 R 204,27 R 241,05 R 284,41 R 309,73 R 26,35 R 26,20 R 27,70 R 28,75
003 Total	353 385 R 537 R 659 R 834 89 R 85 R 70 69 98	R 999 R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 244 R 241 R 227 R 229	1,297 R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	R 2,649 R 3,413 R 4,158 R 4,648 R 5,336 R 464 R 443 R 443 R 443 R 450 R 427 R 464	7,735 R 8,361 10,158 12,629 R 12,802 R 1,128 1,109 1,119 1,243	19,683 22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,364 2,459 2,552	2,672 2,698 3,187 3,649 3,557 287 265 292	30,090 ^R 33,486 ^R 39,749 46,692 ^R 46,613 ^R 3,797 3,738 3,870	8,088 ^R 8,746 ^R 10,695 ^R 13,288 ^R 13,636 ^R 1,217 ^R 1,217 ^R 1,194 ^R 1,189	R 20,682 R 24,104 R 28,553 R 32,875 R 33,138 R 2,603 R 2,608 R 2,700	3,969 ^R 4,049 ^R 4,659 ^R 5,177 ^R 5,175 441 ^R 379 431	R 32,739 R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,261 R 4,181 R 4,320	R 177,38 R 204,27 R 241,05 R 284,41 R 309,73 R 26,35 R 26,20 R 27,70 R 28,75
004 Total R 005 Total R 006 Total R 007 Total R 007 Total R 008 January R February R 008 January August September R October R November R December R December R 009 January February R	385 ^R 537 ^R 659 ^R 834 89 ^R 85 ^R 70 69 98	R 1,677 R 2,149 R 2,461 R 2,884 R 221 R 244 R 241 R 227 R 229	R 1,351 R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	R 3,413 R 4,158 R 4,648 R 5,336 R 464 R 443 R 450 R 427 R 464	^R 8,361 10,158 12,629 ^R 12,802 ^R 1,128 1,109 1,119 1,243	22,427 R 26,404 30,414 R 30,254 2,382 2,364 2,459 2,552	2,698 3,187 3,649 3,557 287 265 292	R 33,486 R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	R 8,746 R 10,695 R 13,288 R 13,636 R 1,217 R 1,217 R 1,194 R 1,189	R 24,104 R 28,553 R 32,875 R 33,138 R 2,603 R 2,608 R 2,700	R 4,049 R 4,659 R 5,177 R 5,175 441 R 379 431	R 36,899 R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 204,27 R 241,05 R 284,41 R 309,73 R 26,35 R 26,20 R 27,70 R 28,75
005 Total R 006 Total R 007 Total R 007 Total R 008 January R February March March April June July July September October R December R December R Total R 009 January February	R 537 R 659 R 834 89 R 85 R 70 69 98	R 2,149 R 2,461 R 2,884 R 221 R 244 R 244 R 241 R 227 R 229	R 1,472 R 1,528 R 1,618 154 R 114 139 131 137	R 4,158 R 4,648 R 5,336 R 464 R 443 R 450 R 427 R 464	10,158 12,629 R 12,802 R 1,128 1,109 1,119 1,243	R 26,404 30,414 R 30,254 2,382 2,364 2,459 2,552	3,187 3,649 3,557 287 265 292	R 39,749 46,692 R 46,613 R 3,797 3,738 3,870	R 10,695 R 13,288 R 13,636 R 1,217 R 1,217 R 1,194 R 1,189	R 28,553 R 32,875 R 33,138 R 2,603 R 2,608 R 2,700	R 4,659 R 5,177 R 5,175 441 R 379 431	R 43,907 R 51,340 R 51,949 R 4,261 R 4,181 R 4,320	R 241,05 R 284,41 R 309,73 R 26,35 R 26,30 R 26,20 R 27,70 R 28,75
006 Total R 007 Total R 008 January R 008 January April March April May June June July July Ctober November R December R Total R 009 January February	^R 659 ^R 834 89 ^R 85 ^R 70 69 98	R 2,461 R 2,884 R 221 R 244 R 244 R 241 R 227 R 229	R 1,528 R 1,618 154 R 114 139 131 137	R 4,648 R 5,336 R 464 R 443 R 450 R 427 R 464	12,629 R 12,802 R 1,128 1,109 1,119 1,243	30,414 R 30,254 2,382 2,364 2,459 2,552	3,649 3,557 287 265 292	46,692 ^R 46,613 ^R 3,797 3,738 3,870	^R 13,288 ^R 13,636 ^R 1,217 ^R 1,194 ^R 1,189	R 32,875 R 33,138 R 2,603 R 2,608 R 2,700	R 5,177 R 5,175 441 R 379 431	^R 51,340 ^R 51,949 ^R 4,261 ^R 4,181 ^R 4,320	R 284,41 R 309,73 R 26,35 R 26,20 R 27,70 R 28,75
007 Total R 008 January February March March April June June June July September October R December R December R O09 January February	^R 834 89 ^R 85 ^R 70 69 98	R 2,884 R 221 R 244 R 244 R 241 R 227 R 229	R 1,618 154 R 114 139 131 137	^R 5,336 ^R 464 ^R 443 ^R 450 ^R 427 ^R 464	R 12,802 R 1,128 1,109 1,119 1,243	R 30,254 2,382 2,364 2,459 2,552	3,557 287 265 292	R 46,613 R 3,797 3,738 3,870	^R 13,636 ^R 1,217 ^R 1,194 ^R 1,189	R 33,138 R 2,603 R 2,608 R 2,700	^R 5,175 441 ^R 379 431	^R 51,949 ^R 4,261 ^R 4,181 ^R 4,320	R 309,73 R 26,35 R 26,20 R 27,70 R 28,75
008 January February April May July August September October November Total February	89 ^R 85 ^R 70 69 98	^R 221 ^R 244 ^R 241 ^R 227 ^R 229	154 ^R 114 139 131 137	^R 464 ^R 443 ^R 450 ^R 427 ^R 464	^R 1,128 1,109 1,119 1,243	2,382 2,364 2,459 2,552	287 265 292	^R 3,797 3,738 3,870	^R 1,217 ^R 1,194 ^R 1,189	^R 2,603 ^R 2,608 ^R 2,700	441 ^R 379 431	^R 4,261 ^R 4,181 ^R 4,320	^R 26,35 ^R 26,20 ^R 27,70 ^R 28,75
February March April May June July July September October November R December Total R 009 January	^R 85 ^R 70 69 98	^R 244 ^R 241 ^R 227 ^R 229	^R 114 139 131 137	^R 443 ^R 450 ^R 427 ^R 464	1,109 1,119 1,243	2,364 2,459 2,552	265 292	3,738 3,870	^R 1,194 ^R 1,189	^R 2,608 ^R 2,700	^R 379 431	^R 4,181 ^R 4,320	^R 26,20 ^R 27,70 ^R 28,75
March April	^R 70 69 98	^R 241 ^R 227 ^R 229	139 131 137	^R 450 ^R 427 ^R 464	1,119 1,243	2,459 2,552	292	3,870	^R 1,189	^R 2,700	431	^R 4,320	^R 27,70 ^R 28,75
April May June July July August September November November R December R Total R 009 January	69 98	^R 227 ^R 229	131 137	^R 427 ^R 464	1,243	2,552				R 2,700			^R 28,75
May June July August September October November R December R Total R 009 January R	98	^R 229	137	^R 464			297			R 0 770	428	^R 4.519	
June July September October November December Total February		R 229 R 210		^R 464	^R 1 371	0 500		4,092	1,312				
July August September October November Pecember Total February	^R 64	R 210	150			2,580	248	^R 4,199	^R 1,469	^R 2,809	385	^R 4,663	^R 29,62
August September October November December Total Fotal February				^R 441	_1,498	2,706	312	_ 4,516	^R 1,562	^R 2,925	470	^R 4,957	R 30,75
September October R November R December Total R Total R 009 January	^R 77	^R 175	186	^R 438	^R 1,419	2,837	353	^R 4,609	^R 1,496	^R 3,012	539	^R 5,047	^R 30,97
October R November R December R Total R 009 January February	^R 72	^R 192	153	^R 417	1,511	2,902	420	4,833	^R 1,583	^R 3,094	573	^R 5,250	^R 30,90
November R December R Total R 009 January February	^R 55	200	179	^R 434	^R 1,554	2,799	369	^R 4,722	^R 1,609	2,999	548	^R 5,156	^R 31,21
December R Total R 009 January February	^R 93	290	187	^R 570	1,748	3,070	377	5,195	^R 1,841	3,360	564	^R 5,765	^R 35,42
Total R 009 January February	^R 107	236	177	^R 520	^R 1,428	2,649	356	^R 4,433	^R 1,535	2,885	533	^R 4,953	^R 31,10
009 January February	^R 70	^R 193	146	^R 409	1,339	2,299	346	3,984	^R 1,409	^R 2,492	492	^R 4,393	R 27,78
February	^R 949	^R 2,667	^R 1,861	^R 5,477	^R 16,467	31,599	3,922	^R 51,988	^R 17,416	^R 34,266	^R 5,783	^R 57,465	^R 356,80
February	92	190	111	393	1,334	2,340	263	3,937	1,426	2,530	374	4,330	^R 26,54
March	68	_ 158	98	_ 324	1,064	1,920	235	3,219	1,132	2,078	333	3,543	^R 21,99
	64	^R 167	107	R 338	904	1,851	208	2,963	968	R 2,018	315	^R 3,301	^R 20,65
April	_ 40	^R 84	102	^R 226	817	1,429	223	2,469	_ 857	^R 1,513	325	^R 2,695	^R 16,62
	^R 58	^R _104	77	R 239	649	1,195	170	2,014	^R 707	^R 1.299	247	^R 2,253	R 13,99
June	51	^R 95	75	^R 221	858	1,228	190	2,276	909	^R 1,323	265	^R 2,497	^R 15,25
	^R 44	^R 94	115	^R 253	933	1,275	176	2,384	^R 977	^R 1,369	291	^R 2,637	^R 16,05
	^R 51	R 89	80	R 220	1,050	1,294	180	2,524	^R 1,101	^R 1,383	260	^R 2,744	R 16,61
September	65	^R 99	81	^R 245	1,110	1,238	185	2,533	1,175	^R 1,337	266	^R 2,778	^R 16,72
October	70	121	84	275	1,157	1,298	191	2,646	1,227	1,419	275	2,921	R 17,59
November	74 R 00	111	87	272 R 2015	1,238	1,328	198	2,764	1,312	1,439	285	3,036	R 18,23
	^R 89 ^R 766	122 ^R 1,434	94 1,111	^R 305 ^R 3,311	1,494 12,608	1,334 17,730	209 2,428	3,037 32,766	^R 1,583 ^R 13,374	1,456 ^R 19,164	303 3,539	^R 3,342 ^R 36,077	R 19,82 R 220,10
		-	,		,	-	,				,		,
010 January	95	127	103	325	1,627	1,505	231	3,363	1,722	1,632	334	3,688	R 21,93
February	97	128	109	334	1,648	1,603	255	3,506	1,745	1,731	364	3,840	22,89
2-Month Total	192	255	212	659	3,275	3,108	486	6,869	3,467	3,363	698	7,528	44,83
009 2-Month Total 008 2-Month Total				717	2,398						707	7,873	48.53

R=Revised.

 "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.doe.gov/emeu/mer/resource.html for all available

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,

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	c		D	imensions	c		D	imensions	с		
	2	3	4	Totald	2	3	4	Totald	2	3	4	Totald	Tota
001 February	6	38	1	45	8	7	0	16	0	0	0	0	61
002 February	9	31	0	40	9	6	0	15	1	1	0	2	57
2003 February	9	20	Ō	29	8	4	Ō	12	Ó	Ó	Ō	0	41
004 February	8	27	0	35	5	5	0	10	Ō	0	0	Ō	45
2005 February	8	34	Õ	42	5	4	Õ	9	Õ	2	Õ	2	53
006 February	5	39	Ő	44	6	6	0	12	Ő	1	Ő	1	57
007 January	3	51	0	54	3	5	0	8	0	1	0	1	63
February	3	51	0	54	3	5	0	8	0	1	0	1	63
March	4	55	0	59	3	5	0	8	0 0	1	0	1	68
April	4	55	Õ	59	4	6	1	11	Õ	1	Õ	1	71
May	3	55	Õ	58	4	6	1	11	Õ	1	Õ	1	70
June	3	55	Õ	58	3	6	1	10	Õ	1	õ	1	69
July	2	57	õ	59	3	õ	1	10	0 0	0	Õ	0	69
August	2	56	Ő	58	4	8	1	13	0	0	Ő	0	71
September	3	58	0	61	3	8	1	12	0	0	0	0	73
October	4	60	0	65	3	8	1	12	0	0	0	0	77
November	4	60 60	0	65	3	10	1	14	0	0	0	0	79
December	5	54	0	60	4	10	1	14	0	0	0	0	75
008 January	6	55	0	61	4	10	1	15	0	0	0	0	76
February	6	55	0	61	4	10	1	16	0	0	0	0	70
	6	54	0	60	3	11	1	15	0	0	0	0	75
March	4	54 53	0	60 57	3	11	1	15	0	0	0	0	75
April	4		0	58	3		1		0	0	0		72
May		54	-			11		15	-	-	-	0	
June	2	56	0	58	3	11	1	15	0	0	0	0	73
July	2	58	0	60	3	8	1	12	0	0	0	0	72
August	2	58	0	60	3	8	1	12	0	0	0	0	72
September	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
October	4	60	0	65	3	8	1	12	0	0	0	0	77
November	2	61	0	63	1	7	1	9	0	0	0	0	72
December	2	62	0	64	2	7	0	9	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	0	53	2	6	0	8	0	0	0	0	61
August	2	49	0	51	3	6	0	9	0	0	0	0	60
September	1	49	0	50	4	6	0	10	0	0	0	0	60
October	1	50	0	51	5	7	0	12	0	0	0	0	63
November	0	49	õ	49	5	8	0 0	13	0 0	Ő	Õ	Ő	62
December	0	50	0	50	5	8	Ő	13	Ő	0	0	Ő	63
010 January	0	51	0	51	5	8	0	13	0	0	0	0	64
	0	52	Ő	52	5	8	0	13	0	0	Ő	0	65

^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 movement of fluid interfaces in producing oil and gas reservoirs. d Includes crews with unknown survey dimension.

NA=Not available.

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

Web Page: See http://www.eia.doe.gov/emeu/mer/resource.html for all available data beginning in March 2000.

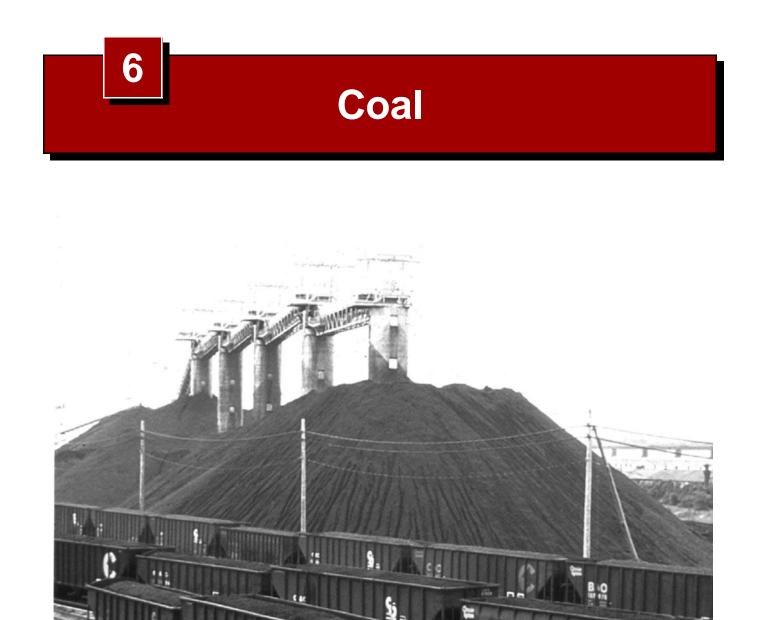
Source: World Geophysical News, IHS, Inc., Denver, CO, used with permission.

Crude Oil and Natural Gas Resource Development

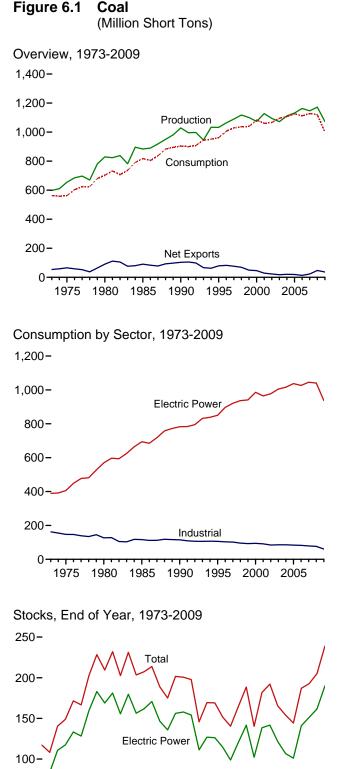
Note. Crude Oil and Natural Gas Exploratory and Development Wells. Three well types are considered in the *Monthly Energy Review* (*MER*) drilling statistics: "completed for crude oil," "completed for natural gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized 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.

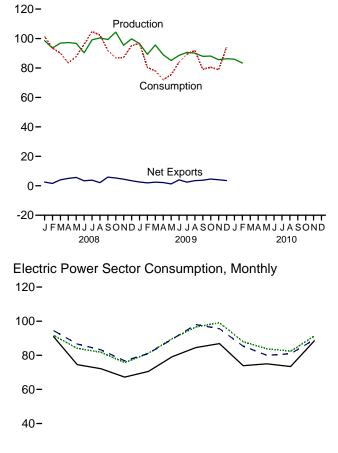
Prior to the March 1985 MER, drilling statistics consisted of

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.

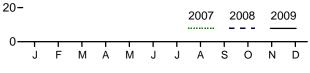


Coal yard, Curtis Bay, Maryland. Source: U.S. Department of Energy.

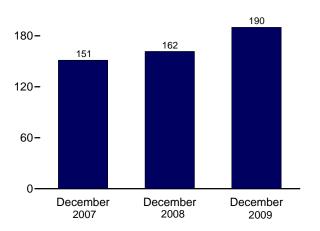




Overview, Monthly



Electric Power Sector Stocks, End of Month 240-



Producers and Distributors

2005

50-

Web Page: http://www.eia.doe.gov/emeu/mer/coal.html. Sources: Tables 6.1, 6.2, and 6.3.

Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Productiona	Supplied ^b	Imports	Exports	Net Imports ^c	Changed	for ^e	Consumption
973 Total	598.568	NA	127	53,587	-53,460	(^f)	^f -17,476	562,584
975 Total	654,641	NA	940	66,309	-65,369	32,154	-5,522	562,640
980 Total	829,700	NA	1,194	91,742	-90,548	25,595	10,827	702,730
985 Total	883,638	NA	1,952	92,680	-90,727	-27,934	2,796	818,049
990 Total	1,029,076	3,339	2,699	105,804	-103,104	26,542	-1,730	904,498
995 Total	1,032,974	8,561	9,473	88,547	-79,074	-275	632	962,104
996 Total	1,063,856	8,778	8,115	90,473	-82,357	-17,456	1,411	1,006,321
997 Total	1,089,932	8,096	7,487	83,545	-76,058	-11,253	3,678	1,029,544
998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4,430	1,037,103
999 Total	1,100,431	8,683	9,089	58,476	-49,387	23,988	-2,906	1,038,647
000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48,309	938	1,084,095
001 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
002 Total	1,094,283	9,052	16,875	39,601	-22,726	10,215	4,040	1,066,355
003 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
004 Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
005 Total	1,131,498	13,352	30,460	49,942	-19,482	-9,702	9,092	1,125,978
006 Total	1,162,750	14,409	36,246	49,647	-13,401	42,642	8,824	1,112,292
007 January	99,784	976	2,844	4,368	-1,524	-5,583	6,081	98,738
February	88,580	1,038	2,656	2,685	-28	-4,877	3,497	90,970
March	97,677	1,250	3,285	4,086	-801	7,109	1,997	89,019
April	93,084	1,115	2,687	4,841	-2,154	7,902	1,602	82,540
May	97,038	1,039	2,691	4,747	-2,056	4,435	3,575	88,010
June	95,566	1,233	3,027	5,114	-2,087	-600	-1,243	96,555
July	93,003	1,250	3,373	5,812	-2,438	-9,987	-1,481	103,282
August	100,627 92,404	1,278	3,716	5,471	-1,756 -1,445	-5,938	301	105,787
September		1,170	3,470	4,914		1,129	-3,597	94,596
October	98,825	1,226 1,222	2,896	5,019	-2,123	8,357	-1,249	90,820
November	96,910 93,138	1,222	2,889 2,812	6,245 5,861	-3,355 -3,050	5,100 -1.237	366 -5,765	89,311 98,370
December Total	1,146,635	14,076	36,347	59,163	-3,050 -22,816	5,812	4,085	1,127,998
008 January	98,587	^R 1.301	2,381	4,915	-2,535	^R -3.937	^R -98	^R 101,389
February	93,525	^R 1,138	2,619	4,205	-1,586	R -3.763	R 3.399	^R 93,442
March	96,903	^R 1.014	2,640	6,682	-4,041	^R 3,043	^R 679	^R 90,154
April	97,287	^R 1.086	2,985	7,979	-4,994	^R 9,314	R 604	^R 83,462
	96,725	^R 1 175	2,702	8,394	-5,692	^R 3,271	^R 1,129	^R 87,807
June	90,319	^R 1 160	3,295	6,695	-3,401	^R -8,840	^R 882	^R 96,036
July	99,132	^R 1 295	2,569	6,404	-3,835	^R -10.205	R 2.073	^R 104,724
August	100,428	^R 1.214	3,144	5,264	-2,120	^R -4,738	R 1.870	^R 102,390
September	99,351	^R 1,163	2,772	8,653	-5,881	^R 6.047	^R -3,323	^R 91,909
October	104,390	^R 1.145	2,921	8,233	-5,312	R 13.226	R 69	^R 86.927
November	95,405	^R 1,153	2,988	7,460	-4.472	^R 9.224	^R -4.287	^R 87,149
December	99,758	^R 1,303	3,192	6,636	-3,444	R -289	^R 2,744	^R 95,162
Total	1,171,809	^R 14,146	34,208	81,519	-47,311	^R 12,354	^R 5,740	R 1,120,548
009 January	96,568	^R 1,258	2,329	4,907	-2,578	^R 1,985	^R 506	^R 96,727
February	89,266	R 881	1,855	3,822	-1,968	R 7,923	_ ^R -119	R 80,375
March	95,610	^R 965	2,141	4,605	-2,464	^R 12,417	^R 3.679	^R 78,014
April	88,944	^R 944	1,303	3,513	-2,210	^R 13,460	^R 2,123	^R 72,095
Мау	85,122	^R 854	2,283	3,552	-1,269	^R 7,523	^R 1,799	^R 75,384
June	88,582	R 999	1,840	5,886	-4,045	R 2,793	^R -1,257	^R 83,999
July	90,606	^R 1,107	2,018	4,477	-2,459	^R -872	^R 742	^R 89,383
August	90,069	^R 1,089	1,568	5,056	-3,488	^R -5,046	R 768	^R 91,948
September	87,945	^R 1,013	1,854	5,625	-3,771	^R 4,749	^R 1,353	^R 79,085
October	^R 88,086	^R 1,050	1,762	6,364	-4,603	^R 4,362	^R -358	^R 80,528
November	^R 85,645	^R 1,090	1,506	5,586	-4,080	^R 2,605	^R 1,214	^R 78,836
December Total	^R 86,310 ^R 1,072,752	^R 1,186 ^R 12,435	2,179 22,639	5,703 59,097	-3,524 -36,458	^R -14,219 ^R 33,711	^R 4,142 ^R 14,594	^R 94,049 ^R 1,000,424
010 January	85,961	NA	NA	NA	NA	NA	NA	NA
February	83,331	NA	NA	NA	NA	NA	NA	NA
2-Month Total	169,292	NA	NA	NA	NA	NA	NA	NA
009 2-Month Total 008 2-Month Total	185,834 192,112	2,140 2,439	4,184 5,000	8,730 9,120	-4,546 -4,120	5,938 -7,699	388 3,300	177,102 194,830

^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, card bignite 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." [°] Net imports equal imports minus exports. A minus sign indicates exports are presented then imports.

greater than imports. ^d A negative value indicates a decrease in stocks; a positive value indicates an

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

and waste coal supplied, minus exports, stock change, and consumption. [†] In 1973, stock change is included in "Losses and Unaccounted for." R=Revised. NA=Not available. 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.doe.gov/emeu/mer/coal.html for all available data beginning in 1973.

beginning in 1973. Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-l	Jse Sector	s					
			Commerci	ial			Industrial					
	Resi-				Coke	-	ther Industria	ıl		Trans-	Electric Power	
	dential	CHP ^a	Other ^b	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total	4,113	(g)	7,004	7,004	94,101	(^h)	68,038	68,038	162,139	116	389,212	562,584
1975 Total 1980 Total	2,823 1.355	(9)	6,587 5.097	6,587 5.097	83,598 66,657	{::}	63,646 60,347	63,646 60,347	147,244 127,004	(h) 24	405,962 569,274	562,640 702,730
1985 Total	1,711	(g)	6,068	6,068	41,056	}n{	75,372	75,372	116,429	}n{	693,841	818,049
1990 Total	1,345	`1,191	4,189	5,379	38,877	27,781	48,549	76,330	115,207	(h)	782,567	904,498
1995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	('n)	850,230	962,104
1996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	(h)	896,921	1,006,321
1997 Total	711 534	1,738 1,443	4,015 2,879	5,752 4,322	30,203 28,189	29,853 28,553	41,661 38,887	71,515 67,439	101,718 95,628	{"}	921,364 936,619	1,029,544 1,037,103
1998 Total 1999 Total	585	1,443	2,803	4,322	28,109	26,555	36,975	64,738	92,846	{h}	940,922	1,038,647
2000 Total	454	1,547	2,126	3,673	28,939	28,031	37,177	65,208	94,147	(h)	985,821	1,084,095
2001 Total	481	1,448	2,441	3,888	26,075	25,755	39,514	65,268	91,344	(h)	964,433	1,060,146
2002 Total	533	1,405	2,506	3,912	23,656	26,232	34,515	60,747	84,403	(<u>h</u>)	977,507	1,066,355
2003 Total	551	1,816	1,869	3,685	24,248	24,846	36,415	61,261	85,509	(h)	1,005,116	1,094,861
2004 Total 2005 Total	512 378	1,917 1,922	2,693 2.420	4,610 4,342	23,670 23,434	26,613 25,875	35,582 34,465	62,195 60,340	85,865 83,774	(<u>''</u>)	1,016,268 1,037,485	1,107,255 1,125,978
2006 Total	290	1,886	1,050	2,936	22,957	25,262	34,210	59,472	82,429	(h) (h)	1,026,636	1,112,292
2007 January	37	191	141	332	1,818	2,003	2,861	4,864	6,682	(h) (h)	91,686	98,738
February	36	186	137	323	1,730	1,876	2,978	4,855	6,585	(n) (h)	84,026	90,970
March April	33 24	171 146	126 71	297 217	2,027 1,865	1,956 1,850	2,904 2,832	4,859 4,682	6,887 6,547	('') (h)	81,803 75,751	89,019 82,540
May	24	140	70	217	1,950	1,857	2,827	4,684	6,634	}h{	81,140	88,010
June	23	137	67	205	1,921	1,845	2,862	4,707	6,629	}h {	89,699	96,555
July	23	151	58	209	1,913	1,868	2,721	4,589	6,501	(<u>h</u>)	96,548	103,282
August	25	162	62	224	1,883	1,912	2,657	4,569	6,452	(h)	99,086	105,787
September	22 30	145 142	56 131	201 274	1,882 1,957	1,765	2,803 2,919	4,568 4,749	6,450 6,706	(h) (h)	87,922	94,596
October November	30	142	156	326	1,957	1,830 1,830	2,919	4,749	6,706	() (h)	83,810 82,393	90,820 89,311
December	39	183	169	353	1,958	1,945	2,799	4,744	6,702	}h{	91,276	98,370
Total	353	1,927	1,247	3,173	22,715	22,537	34,078	56,615	79,331	('n)	1,045,141	1,127,998
2008 January	^R 40	^R 197	^R 159	R 356	1,834	^R 1,954	^R 2,746	^R 4,700	^R 6,534	(^h)	^R 94,459	^R 101,389
February	36 ^R 35	R 181	^R 146	R 327	1,792	R 1,850	R 2,811	^R 4,661	^R 6,452	(h) (h)	^R 86,626	^R 93,442
March April	R 23	^R 176 ^R 144	^R 142 ^R 63	^R 317 ^R 207	1,910 1,864	^R 1,879 ^R 1,803	^R 2,797 ^R 2,812	^R 4,676 ^R 4,615	^R 6,586 ^R 6,478	() (h)	^R 83,215 ^R 76,753	^R 90,154 ^R 83,462
May	R 23	R 145	R 64	R 208	1,911	^R 1,857	R 2,751	^R 4,609	^R 6,520	}n (^R 81,056	^R 87,807
June	R 28	^R 177	^R 78	R 255	1,805	R 1,772	^R 2,828	R 4,600	R 6,406	(h)	^R 89,347	^R 96,036
July	_ 25	^R 169	^R 53	^R 222	1,915	^R 1,871	^R 2,659	^R 4,530	^R 6,445	(<u>h</u>)	^R 98,032	^R 104,724
August	R 25	^R 168	^R 53	^R 221	2,034	^R 1,841	^R 2,680	^R 4,521	^R 6,555	(h) (h)	^R 95,590	^R 102,390
September	23 ^R 27	^R 155 ^R 150	^R 49 ^R 96	^R 203 ^R 246	1,818 2,208	^R 1,783 ^R 1,787	^R 2,706 ^R 2,676	^R 4,489 ^R 4,463	^R 6,307 ^R 6,671	(n) (h)	^R 85,376 ^R 79,982	^R 91,909 ^R 86,927
October November	R 30	R 166	R 107	R 272	2,208 1,626	^R 1,787	R 2,616	R 4,463	^R 5,963	() (h)	R 80,883	^R 87,149
December	R 36	^R 195	R 125	R 320	1,353	R 1,784	R 2,409	^R 4,194	^R 5,547	(h)	^R 89,259	^R 95,162
Total	351	^R 2,021	^R 1,134	3,155	22,070	^R 21,902	^R 32,491	^R 54,393	^R 76,463	('n)	^R 1,040,580	R 1,120,548
2009 January	39 8 25	^R 196	^R 158	354 8 24 4	1,390	^R 1,762	^R 2,259	^R 4,022	^R 5,412	(h) (h)	^R 90,921	^R 96,727
February	R 35 33	^R 172 ^R 164	^R 139 ^R 133	^R 311 ^R 297	1,449 1,559	^R 1,662 ^R 1,738	^R 2,417 ^R 2,246	^R 4,078 ^R 3,984	^R 5,527 ^R 5,543	('') (h)	^R 74,503 ^R 72,141	^R 80,375 ^R 78,014
March April	22	^R 129	R 69	R 198	1,559	^R 1,514	^R 2,011	R 3,984	^R 4,676	() (h)	^R 67,199	^R 72,095
May	22	^R 124	R 67	^R 191	1,130	^R 1,564	^R 1,956	^R 3.520	^R 4,638	(h)	^R 70,534	^R 75,384
June	23	^R 136	R 73	^R 208	1,134	^R 1,606	^R 1,900	^R 3,506	^R 4,640	(h)	^R 79,128	^R 83,999
July	^R 21	^R 137	^R 49	^R 187	1,032	^R 1,696	^R 1,957	^R 3,653	^R 4,685	(h)	^R 84,491	^R 89,383
August	R 21	R 142	R 51	R 193	1,168	^R 1,660	R 2,053	R 3,713	^R 4,882	(h) (h)	R 86,852	^R 91,948
September	20 ^R 25	^R 131 ^R 134	^R 47 ^R 91	^R 178	1,250 ^R 1,431	R 1,574	R 2,175	R 3,750	^R 5,000	(n) (h)	73,887 B 75 000	^R 79,085
October November	^r 25 ^R 28	ⁿ 134 ^R 152	^ 91 ^R 103	^R 226 ^R 255	^ 1,431 ^R 1,274	^R 1,611 ^R 1,551	^R 2,233 ^R 2,331	^R 3,844 ^R 3,881	^R 5,275 ^R 5,156	('') (h)	^R 75,002 ^R 73,397	^R 80,528 ^R 78,836
December	32	173	118	291	1,371	1,722	2,153	3,874	5,245	() (h)	88,481	94,049
Total	321	1,790	1,099	2,889	15,326	19,660	25,691	45,352	60,678	(h)	936,536	1,000,424
	021	1,1 50	1,000	2,000	10,020	10,000	20,001	-0,002	00,070	()	000,000	1,000,424

^a Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^b All commercial sector fuel use other than that in "Commercial CHP."

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

^g Included in "Commercial Other."
 ^h Included in "Industrial Non-CHP." R=Revised.
 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.doe.gov/emeu/mer/coal.html for all available data beginning in 1973. Sources: See end of section.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors		-		
	Producers and	Residential and		Industrial			Electric Power	
	Distributors	Commercial	Coke Plants	Othera	Total	Total	Sector ^{b,C}	Total
973 Year	12,530	290	6,998	10,370	17,368	17,658	86,967	117,15
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	203,36
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	2,652	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	140,37
998 Year	36,530	NA	2,026	5,545	7,570	7,571	120,501	164,60
999 Year	39,475	NA	1,943	5,569	7,511		° 141,604	188,59
						7,511		
000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,28
001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,91
002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,12
003 Year	38,277	NA	905	4,718	5,623	5,623	121,567	165,46
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	144,30
006 Year	36,548	NA	2,928	6,506	9,434	9,434	140,964	186,94
07 January	35,986	NA	2,745	6,256	9,001	9,001	136,377	181,36
February	34,450	NA	2,561	6,006	8,568	8,568	133,468	176,486
March	34,007	NA	2,444	5,756	8,200	8,200	141,389	183,59
April	33,695	NA	2,417	5,728	8,145	8,145	149,657	191,498
May	33,107	NA	2,391	5,700	8,091	8,091	154,735	195,93
June	32,484	NA	2,364	5,672	8,037	8,037	154,812	195,33
July	31,967	NA	2,211	5,719	7,929	7,929	145,450	185,34
August	30,885	NA	2,091	5,765	7,856	7,856	140,668	179,40
September	30.090	NA	1.972	5,811	7,783	7,783	142,666	180.53
October	31,112	NA	1,960	5,748	7,708	7,708	150,075	188,89
November	32.069	NA	1,948	5,686	7,634	7.634	154,292	193,99
December	33,977	NA	1,936	5,624	7,560	7,560	151,221	192,75
08 January	^R 34,252	F 463	1,778	5,355	7,133	7,596	^R 146,973	^R 188,82 [,]
February	^R 35,114	F 456	1,620	5,087	6,707	7,162	^R 142,782	R 185.058
March	^R 34,876	448	1,462	4,818	6,280	6,728	^R 146,497	R 188,10
April	^R 36,494	458	1,560	4,873	6,433	6,891	^R 154,029	R 197,414
May	^R 34,223	468	1,658	4,928	6,586	7,055	^R 159,408	R 200.68
June	^R 32,086	468	1,058	4,928	6,740	7,055	^R 152,542	R 191,84
	^R 31,693	478	1,828	5,058	6,886	7,376	^R 142,572	R 181.642
July	^R 30,017	490 502	1,828	5,058	7.033	7,376	^R 139,352	R 176,904
August	^R 31,354	502 514					^R 143,903	^R 182.95
September			1,971	5,208	7,179	7,693	^R 143,903	
October	R 32,444	508	2,091	5,475	7,565	8,074		R 196,177
November	^R 33,556	503	2,211	5,741	7,952	8,455	^R 163,390	R 205,40
December	^R 34,688	498	2,331	6,007	8,338	8,836	^R 161,589	^R 205,112
09 January	^R 38,394	^R 490	2,260	^R 5,788	^R 8,049	8,539	^R 156,194	R 203,127
February	^R 42,066	^R 483	2,190	^R 5,570	^R 7,760	8,243	^R 160,741	R 211,05
March	^R 41,257	^R 475	2,119	^R 5,352	^R 7,471	7,946	^R 174,264	R 223,46
April	^R 43,195	^R 477	2,000	^R 5,266	^R 7,266	7,744	^R 185,989	R 236,92
May	^R 41,622	^R 480	1,880	^R 5,181	^R 7,061	7,541	^R 195,288	^R 244,45
June	^R 44,018	^R 482	1,760	^R 5,096	^R 6,856	^R 7,338	^R 195,887	R 247,244
July	^R 45,372	^R 496	1,703	^R 5,099	^R 6,802	^R 7,298	^R 193,702	^R 246,37
August	^R 42,457	^R 510	1,647	5,101	^R 6,748	^R 7,259	^R 191,611	R 241,32
September	^R 41,690	524	1.590	5.104	^R 6.695	^R 7,219	^R 197,167	R 246,07
October	^R 43.882	R 526	R 1,686	^R 5,106	^R 6.792	^R 7,318	R 199,238	R 250.43
November	^R 42,217	R 527	^R 1.781	^R 5,108	^R 6,889	^R 7,416	^R 203,409	R 253,042
	74,417	529	1,957	5,109	7,066	7,595	189,971	238,823

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

Residential and Commercial-Coal consumption by the residential and commercial sectors is reported to EIA for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973-1981 and subsequent odd-numbered years), residential consumption of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. The 2007 share is applied to 2008 and 2009, 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 333; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; non-metallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights. Prior to 2008, quarterly consumption data for the other industrial sector were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, and construction consumption data were included where appropriate. Beginning in 2008, quarterly consumption totals for other industrial coal include data for manufacturing and mining only. Over time, surveyed coal consumption data for agriculture, forestry, fishing, and construction dwindled to about 20,000 to 30,000 tons annually. Therefore, in 2008, EIA consolidated its programs by eliminating agriculture, forestry, fishing, and construction as surveyed sectors.

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

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

Producers and Distributors—Prior to 1998, quarterly stocks at producers and distributors were taken directly from reported data. Monthly data were estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Beginning in 1998, 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's Short-Term Integrated Forecasting System (STIFS). The model is driven primarily by data and assumptions about key macroeconomic variables, the world oil price, and weather. The coal forecast relies on other variables as well, such as alternative fuel prices (natural gas and oil) and power generation by sources other than fossil fuels, including nuclear and hydroelectric power. Each month, EIA staff review the model output and make adjustments, if appropriate, based on their knowledge of developments in the coal industry.

The STIFS model results are published monthly in EIA's *Short-Term Energy Outlook*, which is accessible on the Web at http://www.eia.doe.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 and 2009: 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 and 2009: 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 and 2009: 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 and 2009: 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 and 2009: 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."

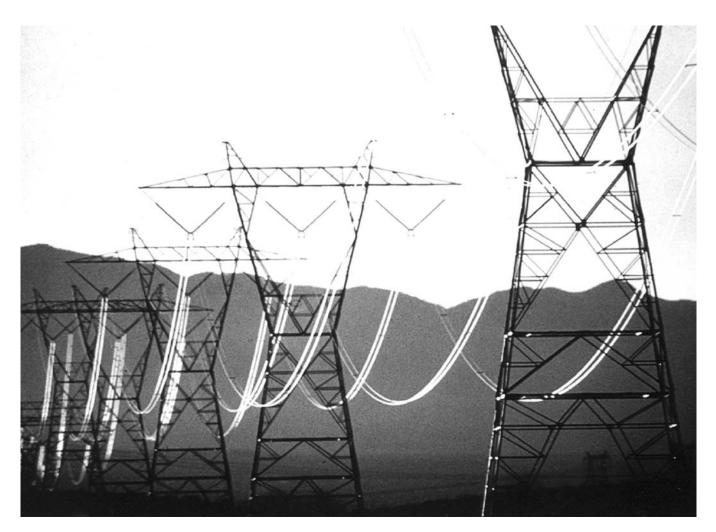
2008 and 2009: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Electric Power

Table 7.5.

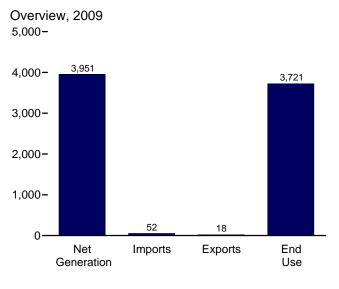


Electricity



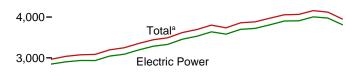
High-tension power lines and towers. Source: U.S. Department of Energy.

Figure 7.1 Electricity Overview (Billion Kilowatthours)



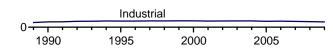
Net Generation by Sector, 1989-2009

5,000-

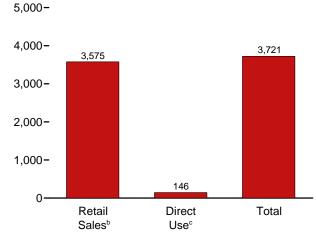


2,000-

1,000-



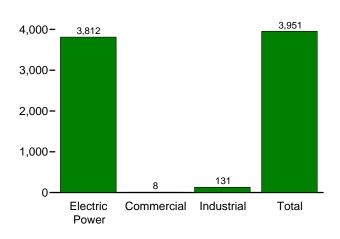




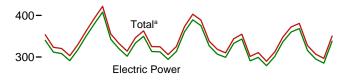
^aIncludes commercial sector.

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

Net Generation, 2009 5,000-

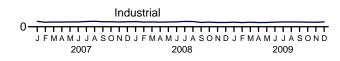


Net Generation by Sector, Monthly 500-

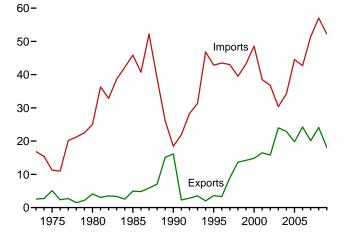


200-

100-



Trade, 1973-2009



°See "Direct Use" in Glossary.

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Source: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

		Net Gen	eration			Trade		T&D Losses ^e		End Use	
	Electric Power Sector ^a	Com- mercial Sector ^b	Indus- trial Sector ^c	Total	Imports ^d	Exports ^d	Net Imports ^d	and Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
1973 Total	1.861	NA	3	1.864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total	2,286	NA	3	2,290	25	4	21	216	2,094	NA	2,094
1985 Total	2,470	NA	3	2,473	46	5	41	190	2,324	NA	2,324
1990 Total	2,901	6	131	3,038	18	16	2	203	2,713	125	2,837
1995 Total	3,194	8	151	3,353	43	4	39	229	3,013	151	3,164
1996 Total	3,284	9	151	3,444	43	3	40	231	3,101	153	3,254
1997 Total	3,329	9	154	3,492	43	9	34	224	3,146	156	3,302
1998 Total	3.457	9	154	3.620	40	14	26	221	3,264	161	3.425
1999 Total	3,530	9	156	3,695	43	14	29	240	3,312	172	3,484
2000 Total	3,638	8	157	3.802	49	15	34	244	3.421	171	3.592
2001 Total	3,580	7	149	3,737	39	16	22	202	3,394	163	3,557
2002 Total	3.698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total	3,721	7	155	3.883	30	24	6	228	3,494	168	3,662
2004 Total	3.808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total	3,902	8	145	4,055	45	20	25	269	3,661	150	3,811
2006 Total	3,908	8	148	4,065	43	24	18	266	3,670	147	3,817
2007 January	340	1	13	354	3	2	2	26	315	^E 14	329
February	312	1	11	323	4	1	3	13	301	E 12	313
March	308	1	11	320	4	2	2	18	292	E 13	304
April	291	1	11	303	4	1	3	18	275	E 12	288
May	318	1	12	330	5	1	3	28	293	E 13	306
June	350	1	12	363	4	1	3	30	323	E 13	336
July	380	1	13	393	6	2	4	30	353	E 14	367
August	408	1	13	422	5	2	3	37	373	E 15	388
September	343	1	12	355	4	2	1	6	338	E 13	351
October	320	1	12	333	4	2	2	13	308	E 13	321
November	302	1	12	314	4	2	23	18	286	E 13	299
December	334	1	12	346	4	2	2	27	308	E 13	321
Total	4,005	8	143	4,157	51	20	31	264	3,765	159	3,924
2008 January	^R 350	1	12	^R 363	5	2	3	26	^R 326	^E 14	^R 340
February	313	1	11	R 325	5	2	3	11	^R 305	^E 12	317
March	312	1	12	R 325	5	3	2	^R 19	^R 295	E 13	^R 308
April	R 294	1	11	R 306	4	1	3	18	^R 278	E 12	^R 290
May	313	1	11	325	5	3	2	27	^R 288	^E 13	^R 301
June	^R 361	1	12	R 373	6	3	3	35	^R 328	E 13	^R 341
July	389	1	13	R 403	6	2	4	33	^R 360	E 14	^R 375
August	^R 376	1	^R 13	^R 389	6	1	4	^R 27	^R 352	E 14	^R 366
September	R 327	1	10	R 338	5	2	3	7	322	^{RE} 12	^R 334
October	307	1	11	^R 319	4	2	2	^R 16	R 292	E 12	^R 304
November	299	1	10	310	3	2	1	R 22	R 278	E 11	^R 289
December	R 333	1	10	^R 344	3	1	2	26	R 308	E 12	R 320
Total	^R 3,974	8	R 137	^R 4,119	57	24	33	R 267	^R 3,733	RE 153	^R 3,886
2009 January	^R 343	1	11	^R 355	4	2	2	^R 25	320	^E 12	332
February	^R 291	1	10	301	4	2	2	7	285	E 11	R 297
March	^R 299	1	10	^R 311	3	2	1	^R 18	282	E 12	294
April	^R 279	1	10	R 290	3	1	2	16	264	E 11	275
May	R 301	1	10	R 312	4	1	3	R 30	273	^{RE} 11	285
June	R 337	1	11	R 348	5	2	3	^R 36	303	E 12	315
July	^R 360	1	12	372	6	1	4	27	336	E 13	349
August	368	1	12	^R 381	6	1	5	29	343	E 13	356
September	^R 316	1	11	327	4	1	3	9	309	E 12	321
October	295	1	11	R 307	5	1	3	12	^R 285	E 12	298
November	^R 285	1	^R 11	^R 297	4	1	2	^R 21	265	E 12	^R 278
December	338	1	12	350	4 5	1	2	33	308	E 13	321
Total	3,812	8	131	3.951	52	18	34	264	3,575	E 146	3,721
10tai	3,012	0	131	3,331	52	10	34	204	3,373	140	3,121

^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

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

plants. ^c Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. Through 1988, data are for industrial hydroelectric power only. ^d Electricity transmitted across U.S. borders. Net imports equal imports minus exports.

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.

 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.

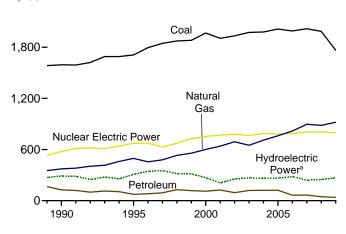
R=Revised. E=Estimate. NA=Not available. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at

rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/elect.html for all available data beginning in 1973.

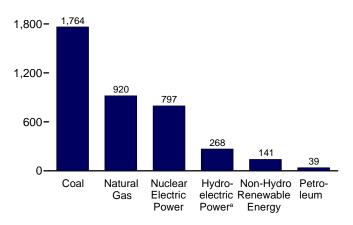
Sources: See end of section.

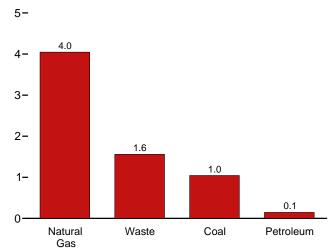
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

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



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



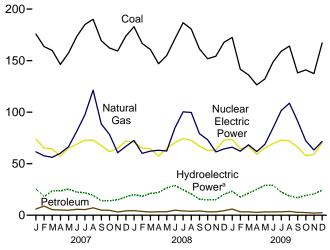


Commercial Sector, Major Sources, 2009

^aConventional and pumped storage hydroelectric power.

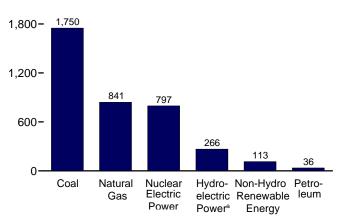
^bBlast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Total (All Sectors), Major Sources, Monthly

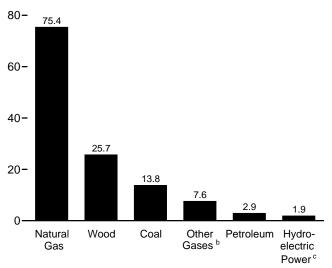


Electric Power Sector, Major Sources, 2009





Industrial Sector, Major Sources, 2009



°Conventional hydroelectric power.

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Sources: Tables 7.2a, 7.2b, and 7.2c.

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

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

		Fossil Fuels												
							Hydro-	Conven- tional	Bio	nass				
		Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	electric Pumped Storage ^e	Hydro- electric Power ^f	Wood ^g	Waste ^h	Geo- thermal	Solar/- PV ⁱ	Wind	Total ^j
1975	Total Total	847,651 852,786	314,343 289,095	340,858 299,778	NA NA	83,479 172,505	(f) (f) (f)	275,431 303,153	130 18	198 174	1,966 3,246	NA NA	NA NA	1,864,057 1,920,755
	Total		245,994 100,202	346,240 291,946	NA NA	251,116 383,691		279,182 284,311	275 743	158 640	5,073 9,325	NA 11	NA 6	2,289,600 2,473,002
1990	Total ^k	1,594,011	126,460	372,765	10,383	576,862	-3,508	292,866	32,522	13,260	15,434	367	2,789	3,037,827
1995	Total	1,709,426	74,554	496,058	13,870	673,402	-2,725	310,833	36,521	20,405	13,378	497	3,164	3,353,487
	Total	1,795,196	81,411	455,056	14,356	674,729	-3,088	347,162	36,800	20,911	14,329	521 511	3,234	3,444,188
	Total Total		92,555 128,800	479,399 531,257	13,351 13,492	628,644 673,702	-4,040 -4,467	356,453 323,336	36,948 36,338	21,709 22,448	14,726 14,774	502	3,288 3,026	3,492,172 3,620,295
	Total		118,061	556,396	14,126	728,254	-6,097	319,536	37,041	22,572	14,827	495	4,488	3,694,810
2000	Total	1,966,265	111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105
	Total		124,880	639,129	9,039	768,826	-8,823 -8,743	216,961	35,200	14,548	13,741	543 555	6,737	3,736,644
	Total Total		94,567 119,406	691,006 649,908	11,463 15,600	780,064 763,733	-8,743	264,329 275,806	38,665 37,529	15,044 15,812	14,491 14,424	535	10,354 11,187	3,858,452 3,883,185
	Total		121,145	710,100	15,252	788,528	-8,488	268,417	38,117	15,421	14,811	575	14,144	3,970,555
2005	Total	2,012,873	122,225	760,960	13,464	781,986	-6,558	270,321	38,856	15,420	14,692	550	17,811	4,055,423
2006	Total	1,990,511	64,166	816,441	14,177	787,219	-6,558	289,246	38,762	16,099	14,568	508	26,589	4,064,702
2007	January	175,739	5,994	61,475	1,154	74,006	-572	26,045	3,536	1,371	1,296	13	2,452	353,531
	February	163,603	8,884	57,622	981	65,225	-447	18,567	3,015	1,200	1,122	19	2,520	323,230
	March	159,811	5,416	56,204	1,234	64,305	-458	24,163	3,106	1,373	1,204	48	3,047	320,471
	April May	146,250 157,513	5,080 4,873	60,153 66,470	1,163 1,175	57,301 65,025	-374 -547	23,891 26,047	3,055 3,081	1,254 1,349	1,158 1,155	54 84	3,172 2,952	303,129 330,203
	June	173,513	5,777	81,511	1,173	68,923	-523	22,817	3,213	1,392	1,238	84	2,620	362,755
	July	185,054	5,494	97,483	1,154	72,739	-595	22,478	3,434	1,443	1,250	86	2,158	393,226
	August	190,135	7,187	121,338	1,132	72,751	-651	19,941	3,426	1,440	1,255	75	2,699	421,797
	September October	169,391 162,234	4,936 4,747	88,532 78,358	1,120 1,134	67,579 61,690	-743 -760	14,743 14,796	3,290 3,246	1,400 1,426	1,218 1,265	68 49	2,867 3,377	355,394 332,615
	November	159,382	3,136	60,637	1,031	64,899	-662	15,682	3,273	1,425	1,211	24	3,095	314,103
	December	173,830	4,215	66,808	1,022	71,983	-565	18,342	3,339	1,452	1,266	5	3,490	346,290
	Total	2,016,456	65,739	896,590	13,453	806,425	-6,896	247,510	39,014	16,525	14,637	612	34,450	4,156,745
2008	January	^R 182,876	^R 4,498	^R 72,600	^R 1,063	^R 70,735	746	^R 20,779	^R 3,338	^R 1,407	^R 1,213	^R 16	^R 4,273	^R 362,998
	February	^R 166,666	^R 3,669	^R 60,042	R 972	65,130	^R -451	R 18,789	R 3,010	^R 1,364	^R 1,090	^R 36 ^R 75	R 3,852	^R 325,106
	March	^R 160,743 ^R 146,983	R 3,151 R 3,400	^R 62,171 ^R 63,046	^R 1,049 ^R 1,021	64,716 57,333	-553 -132	^R 21,669 ^R 22,234	^R 3,123 ^R 2,930	^R 1,472 ^R 1,504	^R 1,261 ^R 1,229	R 94	^R 4,782 ^R 5,225	^R 324,630 ^R 305,865
	May	^R 154,916	R 3,398	^R 62,270	^R 1.044	64,826	-587	R 27,221	R 2,927	^R 1,475	R 1.270	^R 99	^R 5,340	^R 325,245
	June	^R 171,043	^R 4,962	^R 84,620	^R 1,132	70,319	-372	^R 29,177	^R 3,114	^R 1,502	^R 1,270	^R 128	^R 5.140	^R 373,109
	July	R 186,733	R 4,157	R 100,321	R 1,174	74,318	-799	R 25,555	R 3,327	R 1,608	R 1,289	^R 111 ^R 105	R 4,008	R 402,900
	August September	^R 180,576 ^R 161,356	^R 3,811 ^R 4,171	^R 99,673 ^R 79,136	^R 1,147 ^R 823	72,617 67,054	-648 ^R -517	^R 21,229 ^R 16,178	^R 3,342 ^R 3,059	^R 1,529 ^R 1,427	^R 1,283 ^R 1,244	R 93	^R 3,264 ^R 3,111	^R 388,987 ^R 338.056
	October	^R 151,841	^R 3.286	^R 73,283	^R 806	^R 62,820	-497	^R 15,470	^R 3,064	^R 1,490	^R 1,287	R 60	^R 4,756	^R 318,547
	November	R 154 281	^R 3,345	^R 61,454	^R 721	63,408	^R -489	^R 15,668	^R 3,077	^R 1,449	^R 1,244	^R 29	^R 4,994	^R 310,046
	Total	^R 167,786	^R 4,394 ^R 46,243	^R 64,364 ^R 882,981	R 753	72,931	-498 R c 200	^R 20,861	^R 2,988 ^R 37,300	^R 1,506 ^R 17,734	R 1,272	^R 19 ^R 864	^R 6,616 ^R 55,363	R 343,898
		1,965,601	~ 40,243	~ 002,901	^R 11,707	^R 806,208	^R -6,288	^R 254,831	~ 37,300	**17,734	^R 14,951	~ 004	~ 55,363	^R 4,119,388
2009	January	^R 172,498	^R 6,013	^R 65,991	^R 801	73,479	^R -501	^R 23,829	^R 3,067	^R 1,442	^R 1,313	5	^R 6,018	^R 354,756
	February	R 141,574	^R 3,284	^R 62,104	R 774	64,227	-243	R 17,887	^R 2,809	R 1,343	R 1,191	R 28	^R 5,675	R 301,443
	April	^R 136,167 ^R 126,461	^R 3,328 ^R 2,785	^R 68,308 ^R 61,770	^R 820 ^R 753	66,920 59,129	-315 ^R -272	^R 21,692 ^R 25,418	R 2,889 R 2,707	^R 1,547 ^R 1,556	^R 1,334 ^R 1,205	^R 71 ^R 91	^R 6,938 ^R 7,294	^R 310,620 ^R 289,840
	May	^R 132,204	R 3,228	^R 68,697	^R 763	65,229	R -349	^R 29,419	R 2.744	^R 1,498	R 1.257	^R 101	^R 6,094	^R 311,850
	June	^R 148,679	^R 3,248	^R 84,703	^R 872	69,435	-226	^R 29,130	^R 3,020	^R 1,543	R 1,227	^R 97	^R 5,405	^R 348,079
	July	R 159,099	R 3,337	R 101,570	^R 966	72,949	^R -491	R 22,930	^R 3,218	R 1,593	^R 1,265	R 111	^R 4,700	R 372,249
	August September	^R 164,078 ^R 138,087	^R 3,649 ^R 2,859	^R 108,724 ^R 91,413	^R 1,036 ^R 1,037	72,245 65,941	-613 -237	^R 19,215 ^R 17,265	^R 3,333 ^R 3,009	^R 1,608 ^R 1,477	^R 1,261 ^R 1,242	^R 105 ^R 85	^R 5,243 ^R 4,367	^R 380,890 ^R 327,454
	October	^R 140,992	R 2,590	^R 72,204	^R 977	57,688	-237	^R 19,650	R 3,009	^R 1,485	^R 1,242	^R 61	^R 6,326	R 306,823
	November	R 137,407	R 2,087	R 63,325	^R 935	^R 59,069	^R -330	R 20,905	^R 3,195	^R 1,452	R 1,292	^R 36	^R 6,430	R 296,735
	December	167,241	2,418	71,570	963	70,441	-383	24,792	3,195	1,549	1,352	17	6,270	350,378
	Total	1,764,486	38,827	920,378	10,698	796,751	-4,346	272,131	36,243	18,093	15,210	808	70,761	3,951,117

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

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

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).

Solar thermal and photovoltaic energy.

¹ Solar thermal and photovoital energy. ³ 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. Penderived Nu-Nut available

R=Revised. 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.doe.gov/emeu/mer/elect.html for all available

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

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels								Renewabl	e Energy			
					Nuclear	Hydro- electric	Conven- tional Hydro-	Bio	nass				
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Electric Power	Pumped Storage ^e	electric Power ^f	Wood ^g	Wasteh	Geo- thermal	Solar/- PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total	847,651 852,786 1,161,562	314,343 289,095 245,994	340,858 299,778 346,240	NA NA NA	83,479 172,505 251,116	<pre>{ f f f </pre>	272,083 300,047 276,021	130 18 275	198 174 158	1,966 3,246 5,073	NA NA NA	NA NA NA	1,860,710 1,917,649 2,286,439
1985 Total	1,402,128	100,202	291,946	NA	383,691	<u>(†)</u>	281,149	743	640	9,325	11	6	2,469,841
1990 Total ^k 1995 Total	1,572,109	118,864 68,146	309,486 419,179	621 1,927	576,862 673,402	-3,508 -2,725	289,753 305,410	7,032 7,597	11,500 17,986	15,434 13,378	367 497	2,789 3,164	2,901,322 3,194,230
	1,771,973	74,783	378,757	1,341	674,729	-3,088	341,159	8,386	17,816	14,329	521	3,234	3,284,141
1997 Total	1,820,762	86,479	399,596	1,533	628,644	-4,040	350,648	8,680	18,485	14,726	511	3,288	3,329,375
	1,850,193	122,211	449,293	2,315	673,702	-4,467	317,867	8,608	19,233	14,774	502	3,026	3,457,416
1999 Total 2000 Total	1,858,618 1 943 111	111,539 105,192	472,996 517.978	1,607 2,028	728,254 753.893	-6,097 -5,539	314,663 271,338	8,961 8,916	19,493 20,307	14,827 14.093	495 493	4,488 5,593	3,529,982 3,637,529
2001 Total		119,149	554,940	586	768,826	-8,823	213,749	8,294	12,944	13,741	543	6,737	3,580,053
2002 Total	1,910,613	89,733	607,683	1,970	780,064	-8,743	260,491	9,009	13,145	14,491	555	10,354	3,698,458
	1,952,714 1,957,188	113,697 114,678	567,303 627,172	2,647 3,568	763,733 788,528	-8,535 -8,488	271,512 265,064	9,528 9,736	13,808 13,062	14,424 14.811	534 575	11,187 14,144	3,721,159 3,808,360
	1,992,054	116,482	683,829	3,500	781,986	-6,558	265,064	10,570	13,002	14,692	575	17,811	3,902,192
	1,969,737	59,708	734,417	4,254	787,219	-6,558	286,254	10,341	13,927	14,568	508	26,589	3,908,077
2007 January	174,253	5,574	53,809	375	74,006	-572	25,853	1,145	1,184	1,296	13	2,452 2,520	339,968
February March	162,199 158,273	8,427 4,988	51,626 50,026	312 345	65,225 64,305	-447 -458	18,420 23,969	845 839	1,037 1,182	1,122 1,204	19 48	2,520 3,047	311,810 308,331
April	144.799	4,673	54.126	315	57,301	-374	23,694	727	1.081	1,204	54	3,172	291,254
May	155,991	4,475	59,991	316	65,025	-547	25,867	793	1,165	1,155	84	2,952	317,826
June	171,994	5,417	74,888	331	68,923	-523	22,690	888	1,209	1,238	84	2,620	350,339
July August	183,483 188,516	5,142 6,815	90,157 113,395	339 341	72,739 72,751	-595 -651	22,387 19.865	939 962	1,248 1,253	1,250 1,255	86 75	2,158 2,699	379,914 407,865
September	167,888	4,650	81,511	322	67,579	-743	14,666	906	1,233	1,218	68	2,867	342,713
October	160,696	4,446	71,321	379	61,690	-760	14,696	868	1,228	1,265	49	3,377	319,830
November	157,936	2,835	54,031	332 337	64,899	-662	15,554	882	1,225 1,262	1,211	24 5	3,095 3,490	301,907
December Total	172,361 1,998,390	3,864 61,306	59,872 814,752	4,042	71,983 806,425	-565 -6,896	18,180 245,843	918 10,711	14,294	1,266 14,637	612	3,490 34,450	333,586 4,005,343
2008 January	^R 181,337	^R 4,145	^R 65,197	R 293	^R 70,735	-746	^R 20,611	^R 960	^R 1,229	^R 1,213	^R 16	^R 4,273	^R 349,836
February	^R 165,343 ^R 159,284	^R 3,377 ^R 2,856	^R 53,460 ^R 55,499	^R 247 ^R 274	65,130 64,716	^R -451 -553	^R 18,627 ^R 21,485	^R 872 ^R 885	^R 1,169 ^R 1,285	^R 1,090 ^R 1,261	^R 36 ^R 75	^R 3,852 ^R 4,782	^R 313,292 ^R 312,410
March April	^R 145,587	R 3,141	^R 56,765	R 280	57,333	-132	R 22,050	R 754	R 1,301	R 1,201	R 94	R 5,225	^R 294,203
May	^R 153,473	^R 3,155	^R 55,665	^R 312	64,826	-587	^R 27,046	^R 753	R 1.283	^R 1,270	R 99	^R 5,340	^R 313,216
June	^R 169,600	^R 4,676	^R 77,685	R 325	70,319	-372	R 29,043	R 883	^R 1,309	^R 1,270	R 128	^R 5,140	^R 360,612
July August	^R 185,208 ^R 179,082	^R 3,904 ^R 3,554	^R 92,534 ^R 92,025	^R 342 ^R 316	74,318 72,617	-799 -648	^R 25,429 ^R 21,111	R 988 R 983	^R 1,384 ^R 1,325	^R 1,289 ^R 1,283	^R 111 ^R 105	^R 4,008 ^R 3,264	^R 389,318 ^R 375,612
September	R 159,933	^R 3.888	R 73,270	^R 193	67,054	^R -517	^R 16,081	^R 894	^R 1.246	^R 1,244	R 93	R 3.111	^R 327.021
October	^R 150,464	^R 3,030	^R 66,624	^R 221	^R 62,820	-497	^R 15,372	^R 802	^R 1 286	^R 1,287	^R 60	^R 4,756	^R 306,769
November	R 153,016	^R 3,105 ^R 4,050	R 55,482	^R 172 ^R 224	63,408	^R -489 -498	^R 15,546 ^R 20,696	^R 911 ^R 953	^R 1,253 ^R 1,308	R 1,244	^R 29 ^R 19	^R 4,994 ^R 6,616	R 299,222
December R Total R	^R 166,512 1,968,838	^R 42,881	^R 58,166 ^R 802,372	^R 3,200	72,931 ^R 806,208	^R -6,288	R 253,096	^R 10,638	^R 15,379	^R 1,272 ^R 14,951	^R 864		^R 332,839 ^R 3,974,349
2009 January	^R 171,125	^R 5,649	^R 59,500	R 224	73,479	^R -501	^R 23,648	^R 962	^R 1,250	^R 1,313	5	^R 6,018	^R 343,255
February	R 140,382	R 3,000	R 55,924	R 215	64,227	-243	R 17,738	R 897	R 1,195	R 1,191	R 28	^R 5,675	^R 290,761
March April	^R 134,933 ^R 125,289	^R 3,066 ^R 2,526	^R 61,709 ^R 55,664	^R 242 ^R 233	66,920 59,129	-315 ^R -272	^R 21,502 ^R 25,224	^R 805 ^R 705	^R 1,351 ^R 1,373	^R 1,334 ^R 1,205	^R 71 ^R 91	^R 6,938 ^R 7,294	^R 299,151 ^R 279,070
May	^R 131,022	R 2,960	^R 62,502	^R 234	65,229	^R -349	^R 29,218	^R 767	^R 1.306	^R 1,205	^R 101	^R 6,094	^R 300,937
June	^R 147,429	^R 2,985	^R 78,112	R 257	69,435	-226	^R 28,943	^R 956	^R 1,345	^R 1,227	^R 97	^R 5,405	^R 336,568
July	R 157,805	R 3,098	^R 94,529	R 295	72,949	^R -491	R 22,793	R 944	R 1,387	R 1,265	R 111 R 105	R 4,700	^R 360,019
August September	^R 162,732 ^R 136,856	^R 3,386 ^R 2,617	^R 101,573 ^R 84,725	^R 283 ^R 303	72,245 65,941	-613 -237	^R 19,083 ^R 17,168	^R 1,013 ^R 855	^R 1,390 ^R 1,273	^R 1,261 ^R 1,242	^R 105 ^R 85	^R 5,243 ^R 4,367	^R 368,336 ^R 315,769
October	^R 139,730	R 2,399	R 65,535	R 286	57,688	-385	^R 19,509	^R 819	^R 1,297	R 1,242	^R 61	^R 6,326	^R 295,105
November	^R 136,342	^R 1,893	^R 56,782	^R 263	^R 59,069	^R -330	^R 20,771	^R 843	^R 1,252	^R 1,292	^R 36	^R 6,430	^R 285,206
December	165,980	2,214	64,390	272	70,441	-383	24,605	999	1,356	1,352	17	6,270	338,129
Total	1,749,626	35,793	840,946	3,108	796,751	-4,346	270,202	10,565	15,776	15,210	808	70,761	3,812,305

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel. ^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

petroleum, 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."

Hydroelectric Power." ⁹ 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 energy. ^j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous, technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ^k Through 1988, data are for electric utilities only. Beginning in 1989, data are

for electric utilites and independent power producers.

R=Revised. 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 neurones in the 50 Dubes and the District of Calumbia

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

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

	Commercial Sector ^a						Industrial Sector ^b							
				Biomass			_			Hydro-	Bior	nass		
	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	Wastef	Total ^k	
1973 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,347	NA	NA	3,347	
1975 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106	
1980 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161	
1985 Total	NA 796	NA 589	NA 2 272	NA 812	NA	NA	NA 7,008	NA	NA 0.641	3,161 2,975	NA 25.270	NA 949	3,161	
1990 Total 1995 Total	790 998	379	3,272 5,162	1,519	5,837 8,232	21,107 22,372	6,030	60,007 71,717	9,641 11.943	2,975	25,379 28.868	949 900	130,830 151.025	
1996 Total	1,051	369	5,102	2,176	9,030	22,372	6,260	71,049	13,015	5,304	28,354	900	151,025	
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	375	4,249	1,657	8,492	19,466	5,368	72,882	9,687	3,195	28,271	733	144,739	
2006 Total	1,310	235	4,355	1,599	8,371	19,464	4,223	77,669	9,923	2,899	28,400	572	148,254	
2007 January	120	27	318	131	669	1,367	394	7,348	779	180	2,390	56	12,894	
February	120	44	309	109	641	1,283	412	5,686	669	138	2,169	53	10,779	
March	115	24	323	128	659	1,423	404	5,855	889	183	2,266	63	11,481	
April	100 108	16 9	319 341	127 138	639 680	1,350 1,414	391 390	5,708 6,137	848 859	185 168	2,327 2,287	45 46	11,236 11,697	
May	108	9 11	374	136	707	1,414	349	6,249	823	121	2,207	40	11,709	
June July	112	8	419	146	763	1,407	349	6,907	815	89	2,323	49	12,550	
August	127	13	434	136	774	1,492	358	7,510	791	76	2,463	50	13,157	
September	113	7	364	134	684	1,389	278	6,657	798	76	2,383	46	11,997	
October	107	7	374	142	706	1,431	294	6,663	755	97	2,376	56	12,080	
November	115	6	335	139	667	1,332	295	6,270	699	123	2,390	61	11,528	
December	119	17	347	133	686	1,350	334	6,590	686	154	2,419	57	12,018	
Total	1,371	189	4,257	1,599	8,273	16,694	4,243	77,580	9,411	1,590	28,287	631	143,128	
2008 January	^R 117	^R 20	R 395	^R 117	^R 709	^R 1,422	R 333	^R 7,008	^R 770	^R 163	^R 2,376	^R 61	^R 12,453	
February	^R 107	^R 14	^R 346	^R 114	^R 636	^R 1,217	^R 278	^R 6,236	^R 725	^R 158	^R 2,136	^R 82	^R 11,178	
March	R 79	Rg	R 352	R 117	^R 619	^R 1,380	^R 286	^R 6,319	^R 775	R 174	R 2,237	R 70	^R 11,601	
April	^R 88	R 8 R 8	^R 307 ^R 292	^R 135 ^R 137	^R 614 ^R 609	R 1,308	^R 251 ^R 235	^R 5,974	^R 741 ^R 732	^R 174 ^R 170	^R 2,174 ^R 2,173	^R 67 ^R 55	^R 11,049	
May	96 ^R 116	^R 12	R 330	^R 137	^R 675	^R 1,347 ^R 1,327	R 273	^R 6,314 ^R 6,605	R 807	^R 128	^R 2,173	R 55	^R 11,420 ^R 11,822	
June July	122	R 17	R 384	^R 139	^R 728	R 1,403	R 236	^R 7,402	R 832	R 120	R 2,337	^R 91	^R 12,855	
August	R 117	Rg	R 390	^R 132	R 715	^R 1,378	^R 248	^R 7,258	R 831	R 117	^R 2,358	^R 72	^R 12,660	
September	106	7	^R 366	^R 129	^R 674	^R 1,317	R 276	^R 5,500	^R 630	^R 96	^R 2,163	R 52	^R 10,360	
October	^R 101	Rg	^R 344	^R 126	^R 642	^R 1,276	^R 248	^R 6,315	^R 585	95	^R 2,261	^R 77	^R 11,137	
November	^R 99	^R 11	^R 320	^R 128	^R 623	^R 1,166	^R 229	^R 5,653	^R 549	^R 119	^R 2,165	^R 68	^R 10,201	
December	112	_ ^R 18	^R 360	^R 127	^R 681	^R 1,161	^R 326	^R 5,838	^R 529	^R 160	^R 2,033	^R 71	^R 10,378	
Total	^R 1,261	^R 142	^R 4,188	^R 1,534	^R 7,926	^R 15,703	^R 3,219	^R 76,421	^R 8,507	^R 1,676	^R 26,641	^R 821	^R 137,113	
2009 January	^R 108	R 30	R 357	125	^R 681	^R 1,265	^R 335	^R 6,134	^R 577	^R 172	^R 2,104	^R 66	^R 10,821	
February	R 85	R 12	R 333	^R 98	^R 580	^R 1,107	^R 273	^R 5,847	^R 559	^R 142	^R 1,910	^R 50	^R 10,102	
March	^R 85 ^R 75	R 10	^R 346 ^R 338	^R 132 ^R 122	^R 648 ^R 621	^R 1,148 ^R 1,096	^R 252 ^R 248	^R 6,253 ^R 5,768	^R 578 ^R 520	R 180	^R 2,082 ^R 2,001	^R 64 ^R 62	R 10,820	
April	^R 75	11 13	R 338 R 321	^R 122	^R 621 ^R 624	R 1,096	R 248	^R 5,768	^R 520	185 192	^R 1,976	^R 56	^R 10,149 ^R 10,289	
May June	^R 76	Rg	R 328	^R 137	^R 627	^R 1,174	R 253	^R 6,264	^R 614	^R 179	^R 2,062	^R 60	^R 10,289	
July	R 88	10	R 356	^R 138	R 662	R 1,206	R 229	^R 6,685	^R 671	^R 136	R 2,273	^R 69	^R 11,568	
August	R 101	14	^R 364	^R 146	R 698	R 1,200	R 249	^R 6,787	^R 754	^R 132	R 2,318	R 72	^R 11,856	
September	^R 85	^R 10	^R 316	^R 135	^R 613	R 1,146	R 232	^R 6,372	^R 734	^R 96	^R 2.152	R 68	^R 11,071	
October	^R 80	11	R 328	^R 127	^R 614	R 1,181	^R 180	^R 6,341	^R 691	138	R 2,236	^R 61	^R 11,104	
November	^R 85	^R 8	R 308	^R 136	^R 611	^R 979	^R 186	^R 6,234	^R 672	^R 129	R 2,350	^R 64	^R 10,918	
December	102	9	354	127	657	1,159	195	6,826	692	180	2,194	67	11,592	
Total	1,044	148	4,047	1,560	7,638	13,816	2,886	75,385	7,590	1,860	25,658	758	131,174	

(Subset of Table 7.2a; Million Kilowatthours)

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

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

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, ^f Municipal solid waste from biogenic Through 2000, also includes

Through 2000, also includes agricultural byproducts, and other biomass. non-renewable waste (municipal solid waste from non-biogenic sources, and ^g Includes a small amount of conventional hydroelectric power, other gases,

wood, and other, which are not separately displayed.

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

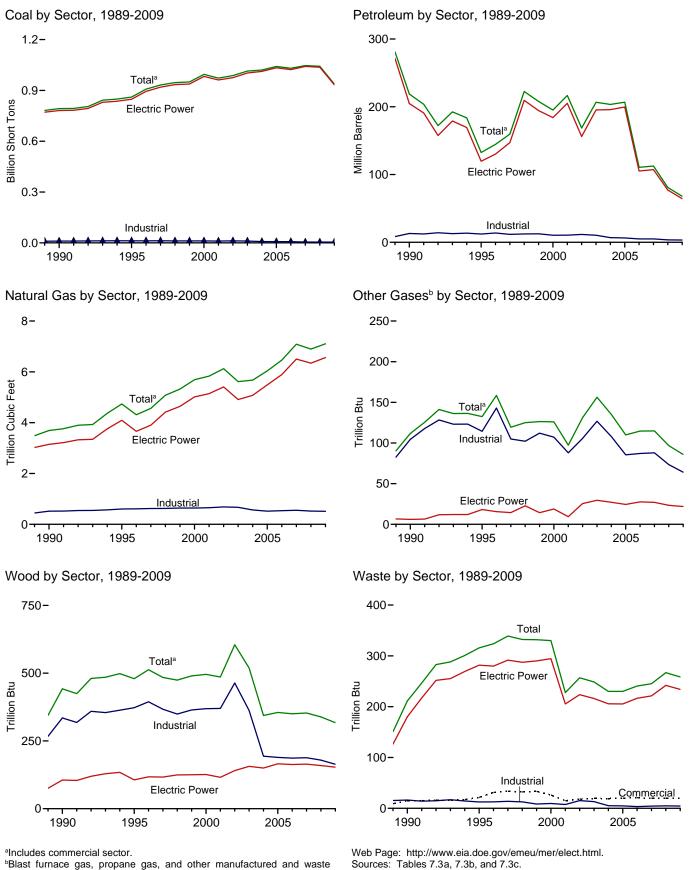
Conventional hydroelectric power. Wood and wood-derived fuels.

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

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

rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/elect.html 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.

Table 7.3a Consumption of Combustible Fuels for Electricity Generation:

				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			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion Btu			
1973 Total 1975 Total	389,212 405,962	47,058 38,907	513,190 467,221	NA NA	507 70	562,781 506,479	3,660 3,158	NA NA	1 (s)	2 2	NA NA
1980 Total 1985 Total	569,274 693,841	29,051 14,635	391,163 158,779	NA NA	179 231	421,110 174,571	3,682 3,044	NA NA	3	27	NA NA
1990 Total ^k	792,457	18,143	190,652	437	1,914	218,800	3,692	112	442	211	36
1995 Total	860,594	19,615	95,507	680	3,355	132,578	4,738	133	480	316	42
1996 Total 1997 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	37 36
1998 Total	946,295	25,062	172,728	549	4,860	222,640	5,081	125	475	332	36
1999 Total	949,802	25,951	158,187	974	4,552	207,871	5,322	126	490	332	41
2000 Total	994,933 972,691	31,675 31,150	143,381	1,450 855	3,744 3,871	195,228 216,672	5,691 5,832	126 97	496 486	330 228	46 160
2001 Total 2002 Total	987,583	23,286	165,312 109,235	1,894	6,836	168,597	6,126	131	400 605	220	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 1.041.448	20,163 20.651	142,088 141.518	2,856 2.968	7,677 8.330	203,494 206,785	5,675 6.036	135 110	344 355	230 230	183 173
2005 Total 2006 Total	1,030,556	13,174	58,473	2,968 2,174	8,330 7,363	110,634	6,462	115	355	230	173
2007 January	91,776	1,445	5,770	207	585	10,349	476	10	33	20	14
February March	84,100 81,932	2,502 1,262	9,671 5,333	412 299	470 475	14,934 9,270	442 433	8 10	28 29	18 20	13 14
April	75,918	973	5,028	255	466	8,584	471	10	27	19	13
May	81,309	1,036	4,462	261	506	8,288	528	10	28	20	14
June	89,846 96,727	1,243 1,202	5,561 5,559	219 201	579 519	9,916 9,556	648 782	10 10	29 31	21 21	14 14
July August	99,245	1,720	7,585	268	540	12,271	992	10	30	21	14
September	88,089	985	4,830	206	493	8,484	705	10	30	21	14
October	83,995	1,147	4,555	211	446 431	8,143	626	10 9	29 29	21 21	14 13
November December	82,495 91,363	955 1.213	2,172 3.307	175 204	431 528	5,456 7.362	469 517	9	29 31	21	13
Total	1,046,795	15,683	63,833	2,917	6,036	112,615	7,089	115	353	245	168
2008 January February	^R 94,532 ^R 86,702	^R 1,633 ^R 1,198	^R 3,309 ^R 2,697	^R 350 ^R 265	^R 514 ^R 469	^R 7,864 ^R 6,508	^R 554 ^R 458	9 8	30 28	21 ^R 20	^R 14 ^R 13
March	^R 83,373	^R 936	^R 2.352	R 250	^R 396	^R 5,517	^R 480	9	R 29	23	^R 15
April	^R 76,924	^R 934	^R 2,627	R 193	^R 432	^R 5,915	^R 487	8	R 26	R 22	^R 14
May June	^R 81,248 ^R 89.532	^R 940 ^R 1,351	^R 2,802 ^R 4,722	^R 196 ^R 237	409 ^R 500	^R 5,982 ^R 8,812	^R 495 ^R 682	8 9	^R 26 ^R 28	^R 22 ^R 23	^R 15 ^R 15
July	^R 98,194	^R 1,028	^R 3.863	R 200	^R 452	^R 7,349	R 805	10	R 30	R 24	^R 16
August	^R 95,752	^R 901	^R 3,223	^R 179	^R 480	^R 6,703	^R 786	10	^R 30	R 23	^R 15
September	^R 85,545 ^R 80,186	^R 929 ^R 771	^R 3,896 ^R 2,339	^R 194 ^R 176	^R 447 ^R 469	^R 7,253 ^R 5,633	^R 618 ^R 565	7 7	28 27	^R 22 ^R 22	^R 14 ^R 13
October November	^R 80,993	^R 850	^R 2,610	^R 210	^R 409	^R 5,786	^R 473	6	27	R 22	^R 13
December	F 90 252	F 1,358	F 3,751	F 373	F 426	F7,610	F 491	F6	F 27	F 23	F14
Total	^R 1,042,335	^R 12,832	^R 38,191	^R 2,822	^R 5,417	^R 80,932	^R 6,896	^R 97	^R 339	R 267	^R 170
2009 January	^R 91,018	R 1,767	^R 5,936	R 443	428	R 10,287	R 500	6	R 28	R 21	12
February March	^R 74,577 ^R 72,264	^R 1,176 ^R 1,217	^R 2,365 ^R 1,993	^R 288 ^R 274	392 ^R 496	^R 5,788 ^R 5,966	^R 467 ^R 518	6 ^R 6	25 ^R 25	^R 19 ^R 22	11 13
April	^R 67,328	^R 794	1 655	^R 197	^R 436	^R 4,826	^R 471	R 6	^R 23	^R 22	13
May	^R 70,665	^R 1,083	^R 2,202	^R 210	^R 438	^R 5,687	^R 536	6	^R 24	^R 22	14
June	^R 79,264 ^R 84,658	^R 1,006 ^R 953	^R 2,366 ^R 2,538	^R 166 ^R 176	^R 435 448	^R 5,712 ^R 5,909	^R 667 ^R 800	7 8	^R 26 ^R 29	^R 23 ^R 23	14 14
July August	^R 87,039	R 1,025	R 2,999	R 206	448 ^R 441	^R 6,435	R 860	8	R 30	R 23	R 14
September	^R 74,051	^R 803	^R 1,856	^R 178	^R 432	^R 4,997	708	8	26	R 21	13
October	^R 75,163	R 888	2,068	^R 195	R 273	^R 4,517	R 555	B 2	R 26	^R 21	13
November December	^R 73,459 88,572	^R 791 1,020	^R 1,219 1,229	^R 185 203	^R 273 362	^R 3,562 4,262	^R 478 543	^R 7 9	^R 28 29	^R 21 22	13 13
	938,059		28,426	203 2,723	4,855	4,262 67,948	7,105	86	318	259	159
Total	938,059	12,523	28,426	2,723	4,855	67,948	7,105	86	318	259	15

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

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

oil no. 4.

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

Natural gas, plus a small amount of supplemental gaseous fuels

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

Wood and wood-derived fuels. i.

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

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

 ^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.

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

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

and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/elect.html 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	ТІ	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total	405,962	47,058 38,907	513,190 467,221	NA NA	507 70	562,781 506,479	3,660 3,158	NA NA	1 (s)	2 2	NA NA
1980 Total 1985 Total	569,274 693,841	29,051 14,635	391,163 158,779	NA NA	179 231	421,110 174,571	3,682 3,044	NA NA	3 8	2 7	NA NA
1990 Total ^k 1995 Total	781,301	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
1996 Total	894,400	18,472	98,795	567	2,467	130,168	3,660	16	117	280	2
1997 Total	919,009 934,126	18,646 23,166	112,423 165,875	130 411	3,201 3,999	147,202 209,447	3,903 4,416	14 23	117 125	292 287	1
1998 Total 1999 Total		23,875	151,921	514	3,607	194,345	4,410	23 14	125	207	1
2000 Total	982,713	29,722	138,047	403	3,155	183,946	5,014	19	126	294	1
2001 Total 2002 Total	961,523 975,251	29,056 21,810	159,150 104,577	374 1.243	3,308 5,705	205,119 156,154	5,142 5.408	9 25	116 141	205 224	109 137
2003 Total	1,003,036	27,441	137,361	1,937	5,719	195,336	4,909	30	156	216	136
2004 Total 2005 Total		18,793 19,450	138,831 138,337	2,511 2,591	7,135 7,877	195,809 199,760	5,075 5,485	27 24	150 166	206 205	131 116
2006 Total		12,578	56,347	1,783	6,905	105,235	5,891	28	163	216	117
2007 January	91,344	1,391	5,545	189	546	9,853	421	2	18	18	10
February March	83,698 81,459	2,431 1,212	9,420 5,111	398 271	431 435	14,405 8,769	399 389	2 2	13 13	16 18	9 10
April	75,471	934	4,847	185	424	8,087	427	2	12	17	9
May	80,840	993	4,329	179	461	7,804	481	2 2	12 14	18	10
June July		1,203 1.170	5,444 5.450	170 158	532 473	9,475 9,142	600 729	2	14	19 19	10 10
August	98,751	1,678	7,475	218	493	11,835	935	2	14	19	10
September October		950 1,099	4,737 4,460	189 191	453 407	8,138 7,783	654 576	2 2	14 13	19 19	10 10
November		919	2,078	161	385	5,081	422	2	14	19	9
December Total		1,155 15,135	3,175 62,072	189 2,496	485 5,523	6,942 107,316	468 6,502	2 27	14 165	20 221	10 117
			-		-	-					
2008 January February	^R 94,085 ^R 86.301	^R 1,573 ^R 1,155	^R 3,175 ^R 2.584	^R 336 ^R 252	^R 476 ^R 437	^R 7,467 ^R 6,177	^R 503 ^R 413	2 2	14 13	^R 20 ^R 18	10 ^R 9
March	^R 82,904	^R 905	^R 2.248	R 224	^R 363	^R 5,192	^R 434	2	14	21	11
April May	^R 76,465 ^R 80,763	^R 910 ^R 911	^R 2,547 ^R 2,731	^R 182 ^R 185	^R 398 ^R 376	^R 5,631 ^R 5,707	^R 444 ^R 450	2 2	^R 11 12	R 20 R 20	10 10
June	^R 89,057	^R 1,320	^R 4,648	^R 226	^R 461	^R 8,500	^R 634	2	13	^R 20	10
July		R 971	^R 3,806	^R 189	^R 414	R 7,035	R 752	2	^R 15	^R 22 ^R 21	^R 11
August September	^R 95,263 ^R 85,078	^R 857 ^R 849	^R 3,171 ^R 3,845	^R 171 ^R 174	^R 441 ^R 412	^R 6,405 ^R 6,930	^R 734 ^R 578	2 1	15 13	R 20	^R 11 10
October	^R 79,729	^R 747	^R 2.281	^R 158	^R 433	^R 5,352	^R 519	R 2	12	R 20	^R 10
November December	^R 80,601 ^R 88,952	^R 815 ^R 1,307	^R 2,548 ^R 3,637	R 202 R 309	^R 393 ^R 394	^R 5,531 ^R 7.220	432 ^R 449	1 ^R 2	13 14	^R 20 ^R 21	^R 10 10
Total	^R 1,036,891	^R 12,318	^R 37,222	R 2,608	^R 5,000	^R 77,149	^R 6,342	R 23	^R 159	R 242	R 120
2009 January	^R 90,589	^R 1,691	^R 5,794	R 424	394	^R 9,879	^R 456	1	_ 14	^R 19	^R 10
February March	^R 74,201 ^R 71,854	^R 1,073 ^R 1,179	^R 2,291 1,932	R 270 R 233	362 461	^R 5,446 ^R 5,650	^R 425 473	1 2	^R 13 12	^R 17 ^R 20	^R 9 10
April	^R 66,938	746	1,605	^R 170	402	^R 4,531	430	2	^R 10	^R 20	^R 10
May	^R 70,259	^R 991 ^R 938	^R 2,148 ^R 2,316	^R 199 ^R 148	^R 404 ^R 401	R 5,358	^R 494 ^R 622	2	11	^R 20 ^R 21	10
June July		885	R 2,316 R 2,496	^R 169	R 401	^R 5,410 ^R 5,620	^R 752	2 2	13 14	R 21	10 ^R 11
August	^R 86,591	^R 951	^R 2,950	^R 190	^R 406	^R 6,122	^R 811	2	15	^R 21	^R 11
September October		^R 744 ^R 850	^R 1,811 2,026	^R 165 ^R 187	^R 399 ^R 248	^R 4,715 ^R 4,303	662 ^R 509	2 2	12 12	^R 19 ^R 19	10 9
November	^R 73,128	^R 757	^{2,026} ^R 1,180	^R 177	^R 245	^R 3,340	^R 433	2	^R 13	^R 18	9
December	88,177	985	1,173	194	333	4,018	494	2	15	20	10
Total	933,197	11,791	27,723	2,525	4,471	64,393	6,561	22	153	234	118

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

petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4

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

Natural gas, plus a small amount of supplemental gaseous fuels

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

Wood and wood-derived fuels.

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

tire-derived fuels).

 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 and

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

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

Notes: • Data are for fuels consumed to produce electricity. 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

bublic. • Totals may not equal sum of components due to independent rounding.
 • Geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.doe.gov/emeu/mer/elect.html for all available data beginning in 1973.
 Sources: See end of section.

		Commerci	ial Sector ^a				Indu	strial Sector	b		
			Natural	Biomass			Netural	Other	Bior	nass	
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleumd	Natural Gas ^e	Other Gases ^g	Wood ^h	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	n Btu	
1989 Total	414	1,165	18	9	9.707	8,482	444	83	267	15	37
1990 Total	417	953	28	15	10,740	13,103	517	104	335	16	36
1995 Total	569	649	43	21	12,171	12,265	601	114	373	13	40
1996 Total		645	42	31	12,153	13,813	610	143	394	13	35
1997 Total 1998 Total	630 440	790 802	39 41	34 32	12,311 11.728	11,723 12.392	623 625	105 102	367 349	14 13	36 35
1999 Total		931	39	32	11,432	12,595	639	112	364	8	39
2000 Total	514	823	37	26	11.706	10,459	640	107	369	10	45
2001 Total		1,023	36	15	10,636	10,530	654	88	370	7	44
2002 Total	477	834	33	18	11,855	11,608	685	106	464	15	43
2003 Total	582	894	38	19	10,440	10,424	668	127	362	13	46
2004 Total	377	766	33	19	7,687	6,919	566	108	194	5 5	41
2005 Total 2006 Total		585 333	34 35	20 21	7,504 7,408	6,440 5,066	518 536	85 87	189 187	5 3	46 45
2000 10141	547	333		21	7,400	5,000	530	07	107	3	45
2007 January	32	38	3	2	400	458	53	7	16	(s)	3
February	32	51	2	1	371	477	41	6	14	(s)	3
March	31	34	3	2	442	467	42	8	15	(s)	4
April	27	22	3	2	420	475	41	8	15	(s)	3
May	28	15	3	2 2	441	469	44	8	15	(s)	3
June	29 30	16 12	3 3	2	436 454	425 402	45 49	8 8	15 16	(s) (s)	4 3
July August		20	3	2	454	402	49 54	8 7	16	(S) (S)	3
September		11	3	2	433	335	48	7	16	(S)	3
October		10	3	2	452	349	47	7	16	(s)	4
November		9	3	2	383	366	44	7	16	(s)	3
December		20	3	2	395	400	47	7	16	(s)	4
Total	361	258	34	19	5,089	5,041	554	88	188	4	41
2008 January	R 33	22	3	2	R 414	R 375	R 48	R 6	_ 16	(s) ^R 1	R 3
February	^R 31 ^R 25	^R 18	3	2	^R 371 ^R 444	R 313	^R 42 ^R 43	6	R 14		R 3
March April		10 ^R 9	3 2	2 2	R 433	^R 315 ^R 274	R 43	7 6	15 15	(s) (s)	R 3 R 3
Мау		9	2	2	R 457	R 266	^R 43	6	15	(s) (s)	R 4
June	R 35	R 13	R 3	2	R 441	299	^R 45	7	^R 15		R 4
July	^R 36	^R 18	3	2	^R 464	R 296	^R 50	^R 7	16	(s) ^R 1	R 4
August	^R 34	^R _11	3 3	2	^R 455	^R 287	^R 49	8	_ 16	(s)	^R 4
September		^R 8	3	2	^R 435	^R 315	^R 37	6	^R 14	(s)	R 3
October	28	R 10	R 3	^R 2	R 428	271	R 43	5	15	(s)	R 3
November December	^R 29 32	^R 14 ^R 24	R 3 3	2 2	^R 362 ^R 369	^R 242 ^R 365	^R 39 ^R 39	5 5	15 ^R 13	(s)	2
Total	R 369	R 166	R 33	20	^R 5,075	^R 3,617	R 520	R 73	R 179	(s) R 5	R 39
										-	
2009 January	R 33	^R 31 13	3	2 ^R 1	^R 396 ^R 347	^R 377 ^R 330	R 42	5	^R 13 ^R 12	(s)	2
February March	28 ^R 25	13 ^R 11	3 3	^{\\} 1 2	R 385	330	39 42	5 5	^R 12	(s) (s)	2 3
April		13	3	R 2	R 367	^R 282	39	R 4	13	(S) (S)	3
May	^R 22	^R 15	3	2	^R 383	^R 314	^R 40	4	^R 13	(S)	3
June	^R 23	^R 11	3 3	2	^R 394	^R 291	42	5	^R 13	(s)	3 3
July	^R 26	^R 12	3	2	R 405	^R 276	_ 45	6	^R 15	(s)	3
August		^R 17	_ 3	2	^R 420	^R 296	^R 46	6	^R 15	(s)	3
September		R 13	R 3	2	R 383	^R 268	^R 44	6	14	(s)	3
October	R 24	^R 13	3 2	R 2	R 396	R 201	43 ^R 43	6	R 14	(s)	3
November		10	2	R 2	R 307	R 211		6	^R 15	(s)	3
December Total	29 313	11 171	32	2 20	366 4,549	233 3,383	47 511	7 64	14 164	(s)	3 31
1 Utai	313	171	52	20	4,049	3,303	511	04	104	4	31

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

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

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

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel. ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

petroleum, and waste oil.

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

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

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

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). R=Revised. (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 http://www.eia.doe.gov/emeu/mer/elect.html for all available

Web Page: See http://www.ela.doe.gov/emeu/met/elect.html for an available data beginning in 1989. Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report.—Nonutility." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 and 2009: EIA Form EIA-923, "Power Plant Operations Report." 2008 and 2009: EIA, Form EIA-923, "Power Plant Operations Report."

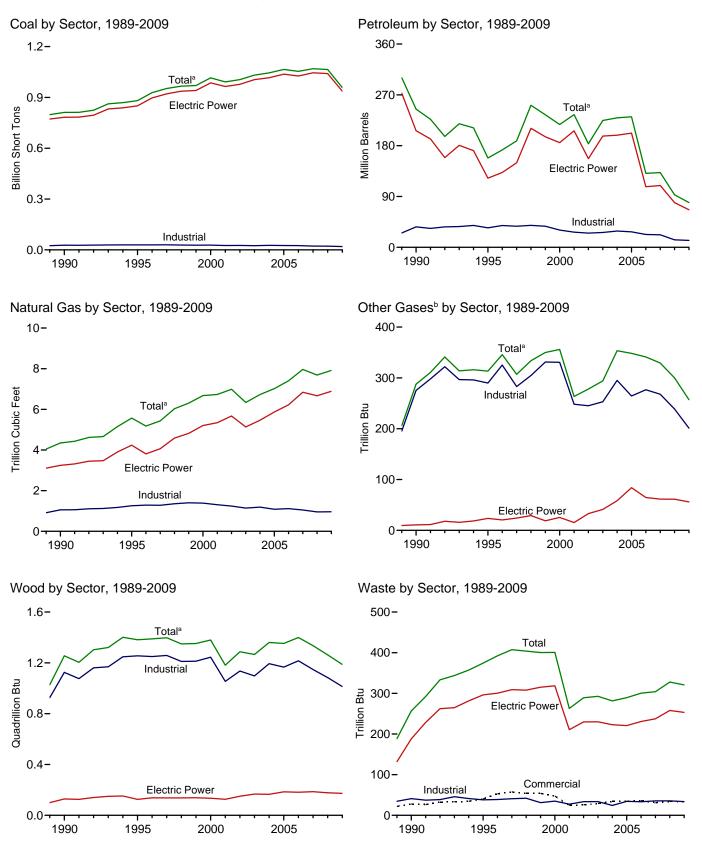


Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output

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

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Sources: Tables 7.4a, 7.4b, and 7.4c.

^aIncludes commercial sector.

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	Ó	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total 1990 Total ^k	<u>693,841</u> 811,538	<u>14,635</u> 20,194	158,779	<u>NA</u> 1,332	<u>231</u> 2,832	<u>174,571</u> 244,765	<u>3,044</u> 4,346	<u>NA</u> 288	<u>8</u> 1,256	257	<u>NA</u> 86
1995 Total	881,012	20,194	209,081 112,168	1,332	4,590	158,140	5,572	313	1,382	374	97
1996 Total	928.015	22,444	124.607	2.468	4,596	172.499	5,178	346	1,389	392	91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	103
1998 Total	966,615	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	1,015,398 991.635	34,572 33,724	156,673	2,904 1,418	4,669 4,532	217,494 234.940	6,677	356 263	1,380 1.182	401 263	109 229
2001 Total 2002 Total	1,005,144	24,749	177,137 118,637	3,257	7,353	183,409	6,731 6,986	203	1,102	203	229
2002 Total	1,031,778	31,825	152,859	4,576	7,067	224,593	6,337	294	1,266	203	262
2004 Total		23,520	157,478	4,764	8,721	229,364	6,727	353	1,360	282	254
2005 Total	1,065,281	24,446	156,915	4,270	9,113	231,193	7,021	348	1,353	289	237
2006 Total	1,053,783	14,655	69,846	3,396	8,622	131,005	7,404	341	1,399	300	247
2007 January	93,880	1,580	7,045	334	686	12,390	550	30	118	27	21
February	86,088	2,727	11,358	517	571	17,455	510	25	105	24	18
March	83,929	1,385	6,575	404	577	11,250	502	28	111	28	20
April	77,747 83.140	1,088 1.198	6,066 5,254	394 424	564 607	10,371 9.911	538 596	28 28	112 110	23 25	20 20
May June	91,682	1,334	6,330	322	686	11,416	719	20	108	23	20
July	98,568	1,272	6,194	304	636	10,953	857	27	114	25	20
August	101,160	1,814	8,347	391	666	13,881	1,077	28	111	25	21
September	89,833	1,049	5,443	279	604	9,789	779	27	108	24	19
October	85,782	1,244	5,162	306	541	9,416	700	28	111	26	20
November	84,392	1,041	2,765	257 304	529	6,706	539	25 27	111	26 26	19 21
December Total	93,404 1,069,606	1,308 17,042	4,078 74,616	4,237	632 7,299	8,852 132,389	594 7,962	329	118 1,336	20 304	239
2008 January	^R 96,610	^R 1,830	^R 3,975	^R 468	^R 592	^R 9,233	^R 625	^R 31	^R 128	^R 27	^R 17
February	^R 88.657	^R 1,294	^R 3,214	^R 369	^R 537	^R 7,561	^R 522	^R 32	R 106	R 27	^R 17
March	^R 85,270	R 1,017	R 2,826	^R 373	^R 464	^R 6,534	^R 547	27	^R 108	^R 29	^R 18
April	^R 78,700	^R 1,007	^R 3,038	^R 271	^R 499	^R 6,810	^R 550	^R 24	^R 106	^R 27	^R 17
May	^R 83,058	^R 1,017	^R 3,203	^R 267	^R 480	^R 6,887	^R 559	^R 25	^R 105	R 27	^R 18
June	^R 91,296	^R 1,450	^R 5,131	^R 299	^R 576	^R 9,761	^R 750	26 R 07	R 102	R 27	^R 18
July August	^R 100,072 ^R 97,599	^R 1,129 ^R 987	^R 4,247 ^R 3,587	^R 257 ^R 230	^R 525 ^R 556	^R 8,258 ^R 7,586	^R 876 ^R 858	^R 27 ^R 27	^R 107 ^R 105	R 28 R 27	^R 19 ^R 19
September	^R 87,314	R 1.000	^R 4,244	^R 251	^R 521	^R 8.098	^R 679	22	R 99	R 26	^R 17
October	^R 81,919	^R 867	^R 2.662	^R 236	^R 554	^R 6,533	^R 630	22	^R 102	R 27	^R 16
November	^R 82,770	^R 986	^R 2,978	R 259	^R 504	^R 6,743	^R 537	18	101	^R 28	^R 16
December	^R 91,239	^R 1,553	^R 4,372	^R 485	^R 507	^R 8,945	^R 557	_ 19	^R 94	R 28	^R 17
Total	^R 1,064,503	^R 14,137	^R 43,477	^R 3,765	^R 6,314	^R 92,948	^R 7,689	^R 300	^R 1,263	^R 328	^R 209
2009 January	^R 92,879	^R 1,991	^R 6,628	^R 517	^R 515	^R 11,712	^R 571	^R 21	R 99	^R 27	14
February	^R 76,337	^R 1,351	^R 2,804	^R 354	^R 475	^R 6,884	^R 529	20	^R 92	R 23	13
March	^R 74,043	^R 1,344	R 2,327	R 355	^R 565	^R 6,852	R 587	21	94	^R 31	^R 15
April	^R 68,842 ^R 72,222	^R 931 ^R 1,225	^R 1,965 ^R 2,695	^R 272 ^R 277	^R 502 ^R 501	^R 5,679 ^R 6,701	^R 539 ^R 602	^R 19	90 ^R 92	^R 26 ^R 27	^R 15 ^R 16
May June	^R 80,870	^R 1,225	^R 2,695	R 204	^R 497	^R 6,483	^R 733	19 ^R 20	× 92 94	R 27	16
July	^R 86,324	^R 1,109	R 2,833	^R 211	^R 516	^R 6,733	^R 867	R 23	^R 105	R 28	17
August	^R 88,654	^R 1.156	R 3.323	^R 249	^R 515	^R 7,304	^R 929	^R 24	^R 109	R 28	17
September	^R 75,593	^R 934	^R 2.150	^R 239	^R 499	^R 5,816	^R 774	^R 24	R 99	R 26	^R 15
October	^R 76,748	^R 986	^R 2,381	^R 238	^R 368	^R 5,443	^R 623	^R 22	^R 104	R 25	15
November	^R 75,099	^R 881	^R 1,482	^R 225	^R 378	^R 4,476	^R 545	^R 21	^R 103	^R 26	^R 15
December	90,376	1,103	1,571	249	463	5,237	615	23	106	28	16
Total	957,986	14,158	32,805	3,390	5,793	79,318	7,915	257	1,187	321	185

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

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

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

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

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

h Wood and wood-derived fuels.

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

tire-derived fuels)

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). k Through 1988, data are for clostic utilities.

^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.

R=Revised. NA=Not available.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. • Totals may not equal sum of components due to independent rounding.

Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/elect.html 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	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total	569,274 693,841	29,051 14.635	391,163 158.779	NA NA	179 231	421,110 174.571	3,682 3.044	NA NA	`´3 8	2	NA NA
1985 Total 1990 Total ^k	782,567	16,567	184,915	26	1,008	206,550	3,245	<u> </u>	129	188	(s)
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	2
1996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	2
1997 Total	921,364	18,989	113,669	152	3,372	149,668	4,065	24	137	309	1
1998 Total 1999 Total	936,619 940,922	23,300 24,058	166,528 152,493	431 544	4,102 3,735	210,769 195,769	4,588 4,820	29 19	137 138	308 315	2 1
2000 Total	985.821	30.016	138.513	454	3,735	185,358	5.206	25	130	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 7,272	196,932	5,135 5.464	41 58	167	230	140
2004 Total 2005 Total	1,016,268 1.037.485	19,107 19,675	139,816 139,409	2,713 2.685	7,372 8,083	198,498 202.184	5,464 5.869	58 84	165 185	223 221	138 123
2006 Total	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	183	231	125
2007 January	91,686	1,408	5,633	199	559	10,035	448	6	19	20	11
February	84,026	2,499	9,495	426	442	14,630	425	5	15	17	9
March	81,803 75,751	1,235 962	5,164 4,936	277 190	448 437	8,914 8,274	416 453	5 5	15 15	20 18	10 10
May	81,140	1,000	4,930	187	437	7,984	507	5	14	20	10
June	89,699	1,211	5,531	175	547	9,652	628	5	15	20	10
July	96,548	1,176	5,534	161	486	9,303	761	5	16	21	11
August	99,086	1,684	7,570	230	505	12,009	969	5	16	21	11
September	87,922	955	4,822	194	471	8,325 7,960	683 604	5	15	20 20	10
October November	83,810 82,393	1,105 928	4,554 2,163	196 166	421 398	7,960 5,246	448	6 5	15 15	20 21	10 10
December	91,276	1,164	3,259	192	496	7,098	498	6	16	21	11
Total	1,045,141	15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
2008 January	^R 94,459	^R 1,596	^R 3,263	^R 344	^R 486	^R 7,631	^R 531	5	16	_21	11
February March	^R 86,626 ^R 83,215	^R 1,182 ^R 925	^R 2,629 ^R 2,323	^R 259 ^R 245	^R 449 ^R 374	^R 6,315 ^R 5,363	^R 439 ^R 461	5 6	15 ^R 15	^R 20 23	^R 11 11
April	^R 76.753	R 925	R 2,635	R 189	R 409	^R 5.791	R 470	5	^R 13	R 21	10
May	^R 81,056	^R 928	^R 2,817	^R 191	^R 385	^R 5,863	^R 475	^R 6	13	^R 21	^R 11
June	^R 89,347	^R 1,339	^R 4.726	R 228	^R 472	^R 8,652	^R 665	^R 6	14	R 22	11
July	^R 98,032 ^R 95,590	^R 986 ^R 873	^R 3,890 ^R 3,271	^R 190 ^R 172	^R 424 ^R 445	R 7,186	R 782	6	^R 16	^R 23 ^R 22	11
August September	^R 95,590 ^R 85,376	^R 866	3,271	R 172	^R 445	^R 6,541 ^R 7,075	763 603	6 4	16 15	R 22	11 10
October	^R 79,982	^R 764	^R 2,369	^R 161	^R 444	^R 5,513	^R 545	5	14	R 21	10
November	^R 80,883	^R 836	^R 2,646	^R 205	^R 405	^R 5,710	^R 458	^R 4	15	^R 21	10
December	^R 89,259	^R 1,327	R 3,742	^R 312	R 407	^R 7,415	R 476	4 P 0 4	16	R 22	11 P 100
Total		^R 12,547	^R 38,241	^R 2,670	^R 5,119	^R 79,056	^R 6,668	^R 61	^R 177	^R 258	^R 128
2009 January	^R 90,921	^R 1,798	^R 5,897	^R 447	^R 406	^R 10,173	^R 485	4	16	R 20	10
February	^R 74,503 ^R 72,141	^R 1,105 ^R 1,220	^R 2,363 ^R 1,997	^R 292 ^R 245	373 471	^R 5,627 ^R 5,817	^R 452 ^R 500	4	14 ^R 13	^R 19 ^R 24	9 10
March April	^R 67,199	^R 765	1,691	^R 180	4/1 413	^R 4,702	^R 456	4	12	R 24	10
May	^R 70,534	R 1,009	2,225	^R 218	^R 415	^R 5,527	^R 521	5	13	^R 21	11
June	^R 79,128	^R 952	^R 2,397	^R 150	^R 414	^R 5,567	^R 649	5	15	^R 22	11
July	^R 84,491	^R 898	^R 2,580	^R 171	426	^R 5,780	^R 780	5	^R 15	R 22	11
August	^R 86,852	^R 966 ^R 757	R 3,037	^R 192 ^R 167	R 418 R 400	^R 6,284	^R 841	5	16 ^R 13	^R 22 ^R 20	11
September October	73,887 ^R 75,002	^R 866	^R 1,894 ^R 2,127	^N 167 ^R 189	^R 409 ^R 257	^R 4,865 ^R 4,468	^R 689 ^R 536	5 5	13	R 20	10 10
November	^R 73,397	R 773	^R 1,267	^R 178	R 255	R 3,493	R 459	5	R 14	R 20	10
December	88,481	1,004	1,263	196	343	4,180	521	5	17	22	11
Total	936,536	12,115	28,738	2,622	4,602	66,483	6,888	56	173	253	126

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

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel. ^b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

amounts of kerosene and jet fuel. ^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4. ^d Let fuel kerosene other petroloum liquids, and waste oil

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

¹ Petroleum coke is converted from short tons to barrels by multiplying by 5. ¹ Natural gas, plus a small amount of supplemental gaseous fuels. ⁹ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels. ¹ Wood and wood derived to be

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

^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).

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

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

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

		Commerc	ial Sector ^a				Indu	strial Sector	b		
			Network	Biomass			Network	Other	Biom	ass	
	Coal ^c	Petroleumd	Natural Gas ^e	Waste ^f	Coalc	Petroleumd	Natural Gas ^e	Other Gases ^g	Wood ^h	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
1080 Total	1.125	1.967	30	22	24.867	25.444	914	195	926	35	85
1989 Total 1990 Total	1,191	2,056	46	28	27,781	36,159	1,055	275	1,125	41	86
1995 Total	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95
1996 Total 1997 Total	1,660 1,738	1,246 1.584	82 87	53 58	29,434 29.853	38,661 37,265	1,289 1,282	325 283	1,249 1,259	39 41	89 102
1998 Total	1,443	1,807	87	54	28,553	38,910	1,355	305	1,211	42	93
1999 Total	1,490	1,613	84	54	27,763	37,312	1,401	331	1,213	31	99
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total	1,448	1,832	79	25	25,755	26,817	1,310	248	1,054	27	101
2002 Total 2003 Total	1,405 1.816	1,250 1,449	74 58	26 29	26,232 24,846	25,163 26,212	1,240 1,144	245 253	1,136 1,097	34 34	92 103
2003 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 January	191	113	6	3	2,003	2,242	96	24	99	5	9
February	186	198	5	2	1,876	2,627	79	20	90	5	8
March	171	103 58	5 5	3 3	1,956 1.850	2,233 2.039	81 80	23 23	95 96	5 3	8 8
April May	146 143	26	5 5	3	1,850	2,039	80 84	23	96 96	2	o 8
June	137	37	6	3	1.845	1,726	85	22	93	2	8
July	151	23	7	3	1,868	1,627	90	22	98	2	8
August	162	41	7	3	1,912	1,832	101	23	95	2	9
September	145	28	6	3	1,765	1,436	89	23	92	2	8
October	142 169	25 24	6 6	3	1,830 1,830	1,431 1,435	89 85	22 20	96 95	3 3	9 8
November December	183	24 75	6	3	1,830	1,435	85 90	20	95 102	3	8
Total	1,927	752	70	31	22,537	22,207	1,050	268	1,148	36	98
2008 January	^R 197	^R 108	6	3	^R 1,954	^R 1,494	^R 87	^R 26	^R 112	^R 3	^R 5
February	^R 181	R 71	6	3	^R 1,850	^R 1,175	^R 78	^R 27	^R 92	R 4	^R 5
March	^R 176 ^R 144	^R 35 ^R 26	6	3	^R 1,879	^R 1,136	^R 80 ^R 75	21	R 92 R 93	R 4 R 3	R 5 R 5
April May		R 20	5 4	3 3	^R 1,803 ^R 1,857	^R 992 ^R 1,004	79	19 20	^R 93	2	R6
June	^R 177	R 60	⁴ ² 5	3	^R 1,772	^R 1,048	R 80	20	R 88	2	R 6
July	^R 169	^R 93	^R 6	3	R 1,871	^R 978	R 88	^R 21	^R 90	2	^R 6
August	^R 168	^R 36	^R 6	3	^R 1,841	^R 1,008	^R 89	^R 21	^R 88	2	^R 6
September	R 155	R 22	R 6	R 3	R 1,783	R 1,001	R 71	18	R 84	2	R 5
October	^R 150 ^R 166	29 ^R 51	5 5	R 3 3	^R 1,787 ^R 1,721	^R 991 ^R 981	80 ^R 74	17	^R 88 86	R 3 R 4	R 4 R 4
November December	^R 195	^R 118	R6	3	^R 1,784	^R 1,412	^R 75	15 15	⁸ 78	R 4	R 4
Total	R 2,021	R 671	R 66	^R 34	R 21,902	R 13,222	R 955	R 239	^R 1,084	R 35	R 60
2009 January	^R 196	^R 116	6	3	^R 1,762	^R 1,424	80	16	^R 83	^R 3	^R 2
February	^R 172	^R 48	5	^R 2	^R 1,662	^R 1,208	72	_ 16	^R 77	2	_ 3
March	^R 164	R 47	R 6	4	^R 1,738	R 987	80	^R 16	81	R4	R 3
April	^R 129 ^R 124	^R 40 ^R 49	5	R 3	R 1,514	^R 937 ^R 1.125	R 77	^R 15	78 ^R 79	^R З ^R З	R 3
May June	R 136	R 49	5 5	3	^R 1,564 ^R 1,606	^R 872	77 79	15 15	R 79	R 3	4 ^R 3
July	^R 137	R 45	5	R 3	^R 1,696	R 908	82	18	^R 89	R 3	4
August	^R 142	R 58	5	3	^R 1,660	^R 962	83	^R 19	^R 93	R 3	4
September	^R 131	^R 44	^R 5	^R 3	^R 1,574	^R 906	_ 81	^R 19	^R 86	^R 3	R 3
October	R 134	R 42	5	2	^R 1,611	R 933	R 82	R 17	^R 91	R3	R 3
November	R 152	R 35	5	R 3	R 1,551	^R 948	^R 82	R 16	R 88	R 3	4
December Total	173 1,790	47 617	6 63	3 34	1,722 19,660	1,010 12,219	89 964	18 201	89 1, 013	3 34	3 39
	1,790	017	05	54	13,000	12,213	304	201	1,013	54	35

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

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel. ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

petroleum, and waste oil.

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

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

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

Wood and wood-derived fuels. i

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

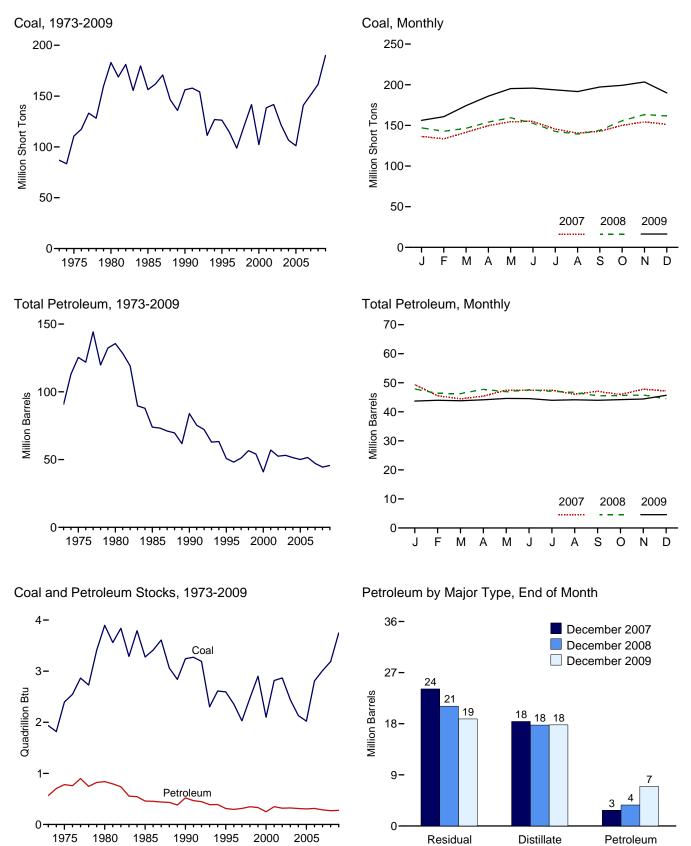
technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

R=Revised

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. Through 1988, data are not available. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/elect.html for all available

Web Page: See http://www.eia.doe.gov/erneu/mer/eiect.num for an 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." • 2004-2003: EIA, Form EIA-966, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2009 and 2009: EIA Form EIA-923. "Power Plant Onerations Report." • 2008 and 2009: EIA, Form EIA-923, "Power Plant Operations Report."





^aConverted from short tons to barrels by multiplying by five. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Sources: Tables 7.5, A1, and A5 (column 6). Fuel Oil

Fuel Oil

Coke^a

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

				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 Barre
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
90 Year		16,471	67,030	NA	94	83,970
95 Year		15,392	35,102	NA	65	50,821
96 Year			32,473	NA	91	48,146
		15,216				,
97 Year		15,456	33,336	NA	469	51,138
98 Year		16,343	37,451	NA	559	<u>56,591</u>
99 Year ^f		17,995	34,256	NA	372	54,109
00 Year		15,127	24,748	NA	211	40,932
01 Year		20,486	34,594	NA	390	57,031
02 Year		17,413	25,723	800	1,711	52,490
03 Year	121,567	19,153	25,820	779	1,484	53,170
04 Year		19,275	26,596	879	937	51,434
05 Year		18,778	27,624	1,012	530	50,062
06 Year		18,013	28,823	1,380	674	51,583
			_0,0_0	.,	••••	01,000
07 January	136,377	17,306	27,138	1,406	699	49,346
February		17,036	23,516	1,379	723	45,546
-		,				,
March		16,876	23,089	1,336	636	44,480
April		16,789	23,918	1,338	669	45,389
Мау	,	16,782	26,022	1,379	660	47,481
June	154,812	17,109	26,240	1,384	543	47,445
July	145,450	17,264	25,650	1,433	631	47,504
August	140,668	17,276	24,513	1,488	562	46,087
September		17,590	25,272	1,484	543	47.059
October		17,920	23,809	1,521	545	45,973
November		18,261	24,941	1,515	612	47,777
December	151,221	18,395	24,341	1,902	554	47,203
08 January	^R 146,973	^R 18,633	^R 23,972	^R 1,997	^R 656	^R 47,884
February	^R 142,782	^R 18.307	^R 23,301	^R 1,859	^R 573	^R 46,334
March	· ·	^R 18.091	^R 22,807	^R 2.062	^R 662	^R 46,271
April	, .	^R 17,888	^R 24,164	^R 2,083	^R 722	^R 47,743
May	· ·	^R 17,824	^R 23,228	^R 2,087	R 758	^R 46,927
	D /	^R 17,880	^R 23,963	^R 2.106	^R 723	^R 47,562
June						
July	^R 142,572	^R 17,911	^R 23,175	^R 2,111	R 776	R 47,075
August		^R 17,909	^R 23,078	^R 2,126	^R 712	^R 46,671
September		^R 17,830	^R 22,081	^R 2,129	^R 689	^R 45,483
October		^R 17,911	^R 22,112	^R 2,197	^R 683	^R 45,634
November	^R 163,390	^R 18,241	^R 21,488	^R 2,198	^R 777	^R 45,811
December	^R 161,589	^R 17,761	^R 21,088	^R 1,955	^R 739	^R 44,498
09 January	^R 156,194	^R 17,470	^R 20,452	^R 2,043	^R 749	^R 43,713
February	^R 160,741	^R 17,204	^R 21,083	^R 2,038	^R 733	^R 43,988
March	^R 174,264	^R 17,134	^R 21,087	^R 2,038	^R 712	^R 43,821
April	^R 185,989	^R 17,794	^R 20,796	^R 2,043	^R 701	^R 44,137
May	^R 195,288	^R 17,697	^R 20,919	^R 2,080	^R 786	^R 44,624
		^R 17,621	^R 21,046	^R 2,101	^R 757	^R 44,554
June		^R 17,692	^R 20,588	^R 2,091	^R 722	^R 43,981
July					·· / 22 R 070	** 43,981 R 44 440
August		^R 17,759	^R 19,928	^R 2,075	^R 876	^R 44,140
September	^R 197,167	^R 17,858	^R 19,212	^R 2,081	^R 965	^R 43,978
October		^R 17,695	^R 18,669	^R 2,074	^R 1,152	^R 44,197
November	^R 203,409	^R 17,595	^R 18,509	^R 2,062	^R 1,252	^R 44,424
December	189,971	17,804	18,846	2,049	1,395	45,675

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

^b Fuel oil nos. 1, 2 and 4. For 1973-1979, data are for gas turbine and internal combustion plant stocks of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

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

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

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

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

R=Revised. NA=Not available.

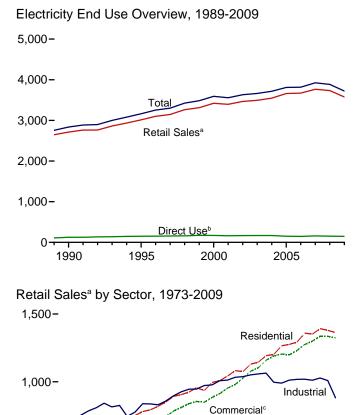
Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Stocks

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.

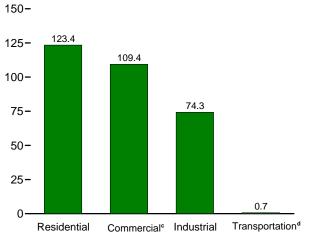
Web Page: See http://www.eia.doe.gov/emeu/mer/elect.html for all available data beginning in 1973.

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982-1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001-2003: Form EIA-906, "Power Plant Report"; • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 and 2009: EIA, Form EIA-923, "Power Plant Operations Report."

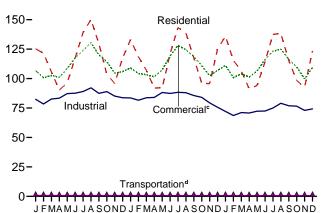
Figure 7.6 Electricity End Use (Billion Kilowatthours)



Retail Sales^a by Sector, December 2009



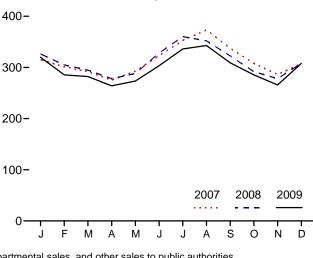
Retail Sales^a by Sector, Monthly 175-



2009

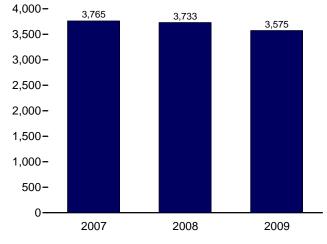


Retail Sales^a Total, Monthly



partmental sales, and other sales to public authorities. ^dTransportation sector, including sales to railroads and railways. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Source: Table 7.6.

Retail Sales^a Total, January-December



1975 1980 1985 1990 1995 2000 2005

Transportation^d

^aElectricity retail sales to ultimate customers reported by electric utilities and other energy service providers. ^bSee "Direct Use" in Glossary.

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

500

 $0 \rightarrow 4 \rightarrow 4 \rightarrow 4$

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a						Discontinued Retail Sales Series		
	Residential	Commercialb	Industrialc	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	Commercial (Old) ^h	Other (Old) ⁱ		
973 Total	579,231	^E 444,505	686,085	E 3.087	1,712,909	NA	1,712,909	388,266	59,320		
975 Total	588,140	E 468,296	687,680	E 2,974	1,747,091	NA	1,747,091	403,049	68,222		
80 Total	717,495	558,643	815,067	3.244	2,094,449	NA	2,094,449	488,155	73.73		
85 Total	793.934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,27		
90 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,98		
95 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,40		
96 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,53		
97 Total	1,075,880	1.026.626	1.038.197	4,907	3.145.610	156.239	3.301.849	928.633	102.90		
	1.130.109		1,051,203	4,962		160,866	3,425,097	979,401			
98 Total	1,144,923	1,077,957 1,103,821	1,058,217	5,126	3,264,231 3,312,087	171,629	3,483,716	1,001,996	103,51 106,95		
99 Total			1.064.239			170.943					
00 Total	1,192,446	1,159,347		5,382	3,421,414		3,592,357	1,055,232	109,49		
01 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,17		
02 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,55		
03 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029				
04 Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949				
05 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984				
06 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845				
07 January	125,286	106,667	82,384	766	315,104	E 14,266	329,370				
February	121,464	100,756	78,392	719	301,331	E 12,012	313,344				
March	105,695	102,640	82,582	743	291,660	^E 12,770	304,431				
April	90,282	101,051	83,361	646	275,341	^E 12,491	287,831				
May	96,389	108,559	87,241	611	292,800	E 13,019	305,819				
June	117,418	117,352	87,572	665	323,007	E 13,060	336,067				
July	139,027	123,923	89,017	675	352,642	E 14,003	366,645				
August	150,101	130,475	92,115	673	373,365	^E 14,654	388,019				
September	129,512	119,898	87,428	687	337,525	E 13,339	350,864				
October	103,754	114,481	88.896	652	307,783	E 13,449	321,231				
November	95,905	104,603	85,118	673	286,299	E 12,828	299,127				
December	117,408	105,909	83,725	663	307,704	E 13,363	321.067				
Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	159,254	3,923,814				
08 January	^R 132,938	^R 109,028	^R 83,582	^R 714	^R 326,263	^{RE} 13,845	^R 340,108				
February	^R 118,471	^R 104,288	^R 81,603	^R 658	^R 305,021	^{RE} 12,426	^R 317,447				
March	^R 107,057	^R 103,239	^R 83,714	^R 638	^R 294,647	^{RE} 12,854	^R 307,501				
April	^R 91,977	^R 101,502	^R 83,999	^R 617	^R 278,095	^{RE} 12,267	^R 290,362				
May	^R 92,018	^R 107,379	^R 88,166	^R 598	^R 288,162	RE 12.653	^R 300,815				
June	^R 121,137	^R 119,063	^R 87,345	^R 625	^R 328,170	^{RE} 13,145	^R 341,315				
July	^R 143,269	^R 128,028	^R 88,310	^R 653	^R 360,261	^{RE} 14,287	^R 374.548				
August	^R 138,765	^R 124,496	^R 87,990	^R 647	^R 351,898	^{RE} 14,069	^R 365,967				
September	^R _117,589	^R 118,677	^R 85,565	^R 626	^R 322.457	^{RE} 11.607	^R 334.064				
October	^R 96,093	^R 110,988	^R 84,032	R 635	^R 291,748	^{RE} 12,389	^R 304,137				
November	^R 95,665	^R 102,384	^R 79.373	^R 615	^R 278.037	RE 11.386	^R 289.423				
December	^R 125,003	^R 106,909	^R 75.619	^R 672	^R 308,203	^{RE} 11,633	^R 319,836				
Total	R 1,379,981	R 1,335,981	R 1,009,300	R 7,700	R 3,732,962	^E 152,561	R 3,885,523				
09 January	^R 135,904	^R 111,126	^R 72,088	^R 746	^R 319,865	^{RE} 12,098	^R 331,963				
February	^R 115,432	^R 100,772	^R 68,603	^R 655	^R 285,461	RE 11,237	^R 296.698				
March	^R 106,467	^R 104,015	^R 71,105	^R 664	R 282,252	RE 12,064	^R 294,315				
April	^R 91,395	^R 101,302	^R 70.730	^R 604	R 264.032	RE 11,329	^R 275,360				
May	^R 94,084	^R 106,401	^R 72.267	^R 587	^R 273,340	^{RE} 11.479	^R 284,819				
June	^R 114,178	^R 116,139	^R 72,425	R 605	R 303,347	RE 12,108	^R 315,455				
July	^R 137,467	^R 123.010	^R 75,032	^R 656	^R 336.166	^{RE} 12,864	^R 349.030				
	^R 138,290	^R 124,975	^R 79,016	^R 633	^R 342,915	RE 13,205	^R 356,121				
August	^R 115,217	^R 116,315	^R 76,884	^R 636	^R 309,051	RE 12,290	^R 321,341				
September	^R 98,399	^R 109,895	^R 76,556	^R 603		RE 12,290 RE 12,326	R 207 770				
October				^R 597	R 285,452	RE 12,326 RE 12,128	^R 297,778				
November	^R 92,614	^R 99,669	^R 72,945		^R 265,825	E 40.004	^R 277,952				
December	123,423	109,370	74,252	701	307,745	^E 12,884	320,630				
Total	1,362,869	1,322,989	881,903	7,689	3,575,450	^E 146,012	3,721,462				

^a Electricity 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 railroads and railways.
 ^e The sum of "Residential," "Commercial," "Industrial," and "Transportation."

f Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use. ⁹ 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 " in the department of the series are being outborition agriculture and interdepartment of the series and the series are being outborition.

Other (Old) is a discontinued series—data are for public street and nighway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.
 R=Revised. 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.doe.gov/emeu/mer/elect.html for all available data beginning in 1973.

data beginning in 1973.

Sources: See end of section.

Electricity

Note. Classification of Power Plants Into Energy-Use Sectors. The U.S. Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-and-power plants) into energy-use sectors based on the North American Industry Classification System (NAICS), which replaced the Standard Industrial Classification (SIC) system in 1997. Plants with a NAICS code of 22 are assigned to the Electric Power Sector. Those with NAICS codes beginning with 11 (agriculture, forestry, fishing, and hunting); 21 (mining, including oil and gas extraction); 23 (construction); 31-33 (manufacturing); 2212 (natural gas distribution); and 22131 (water supply and irrigation systems) are assigned to the Industrial Sector. Those with all other codes are assigned to the Commercial Sector. Form EIA-860, "Annual Electric Generator Report," asks respondents to indicate the primary purpose of the facility by assigning a NAICS code from the list at:

http://www.eia.doe.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 and 2009: 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 and 2009: 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 and 2009: 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 and 2009: 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*, March 2010, Table 5.1.

Retail Sales, Commercial

1973–2002: Estimated by EIA as the sum of "Commercial (Old)" and the non-transportation portion of "Other (Old)." See estimation methodology at

http://www.eia.doe.gov/emeu/states/sep_use/notes/use_elec.pdf. 2003 forward: EIA, *Electric Power Monthly*, March 2010, Table 5.1.

Retail Sales, Transportation

1973–2002: Estimated by EIA as the transportation portion of "Other (Old)." See estimation methodology at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_elec.pdf. 2003 forward: EIA, *Electric Power Monthly*, March 2010, Table 5.1.

Direct Use, Annual

1989–1994: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1995–2007: EIA, *Electric Power Annual 2007*, January 2009, Table 7.2.

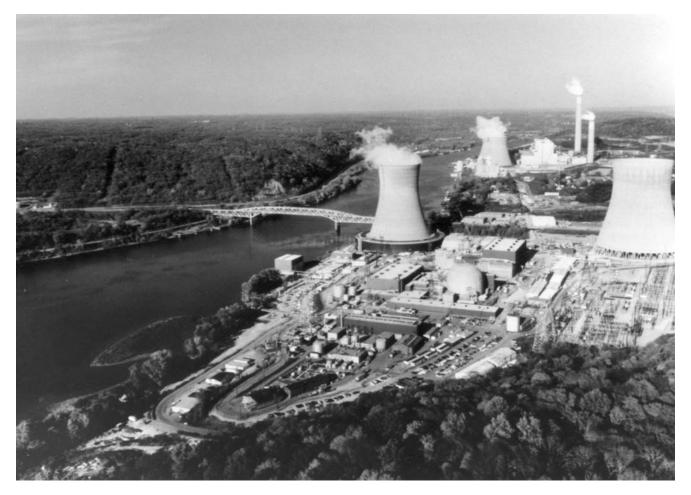
2008: Sum of monthly estimates.

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 2008 and 2009, the 2007 annual share is used.

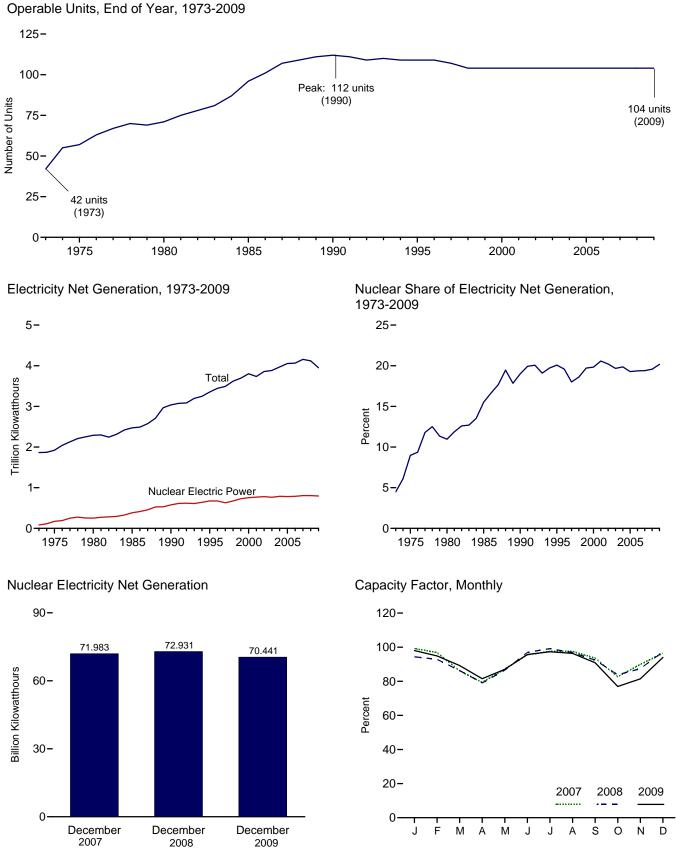
Discontinued Retail Sales Series Commercial (Old) and Other (Old) 1973–2002: See sources for "Residential" and "Industrial."





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.doe.gov/emeu/mer/nuclear.html. Sources: Tables 7.1 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
	Number	Million Kilowatts	Million Kilowatthours	Per	rcent
1973 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
985 Total	96	79.397	383.691	15.5	58.0
990 Total	112	99.624	576,862	19.0	66.0
995 Total	109	99.515	673,402	20.1	77.4
996 Total	109	100.784	674,729	19.6	76.2
997 Total	103	99.716	628,644	18.0	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
002 Total	104	98.657	780,064	20.0	90.3
003 Total	104	99.209	763,733	19.7	87.9
004 Total	104	99.628	788,528	19.9	90.1
005 Total	104	99.988	780,328	19.3	89.3
006 Total	104	100.334	787,219	19.3	89.6
	104	100.334	787,219	13.4	09.0
007 January	104	100.266	74,006	20.9	99.2
February	104	100.266	65,225	20.2	96.8
March	104	100.266	64,305	20.1	86.2
April	104	100.266	57,301	18.9	79.4
May	104	100.266	65,025	19.7	87.2
June	104	100.266	68,923	19.0	95.5
July	104	100.266	72,739	18.5	97.5
August	104	100.266	72,751	17.2	97.5
September	104	100.266	67,579	19.0	93.6
October	104	100.266	61,690	18.5	82.7
November	104	100.266	64,899	20.7	89.9
December	104	100.266	71,983	20.8	96.5
Total	104	100.266	806,425	19.4	91.8
008 January	104	^R 100.755	^R 70,735	19.5	^R 94.4
February	104	^R 100.755	65.130	^R 20.0	^R 92.9
March	104	^R 100.755	64.716	R 19.9	R 86.3
April	104	^R 100.755	57,333	R 18.7	^R 79.0
May	104	^R 100.755	64.826	^R 19.9	^R 86.5
lupo	104	R 100.755	70 210	R 19.9	806.0

R 100.755

R 100.755

^R 100.755

^R 100.755

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R 100.755

R 100.755

R 100.755

^R 100.755

^R 100.755

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^R 100.755

^R 100.755

^R 100.755

R 100.755

R 100.755

R 100.755

^R 100.755

100.755

100.755

^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 2008*, June 2009, Table 9.1, http://www.eia.doe.gov/emeu/aer/nuclear.html.
 ^b At end of period.

104

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104

104

At end of period.

June

July

August

September

October November

December

Total

February

March

April

June

July

August

September

October November

December

Total

2009 January

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

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

R=Revised. Notes: • For a discussion of nuclear reactor unit coverage, see Note 1, "Operable Nuclear Reactors," at end of section.

Nuclear electricity net generation totals may not equal sum of components due to independent rounding.

R 18.8

^R 18.4

^R 19.8

197

R 21 2

19.6

^R 20.7

^R 21.3

R 21.5

R 20.4

20.9 ^R 19.9

19.6

19.0

18.8

^R 19.9

20.1

20.2

R 20.1

20.5

18.7

R 96.9

^R 99.1 ^R 96.9

^R 92.4

R 83.8

^R 87.4

R 97 3

R 91.1

^R 98.0

^R 94.9

R 89.3

^R 81.5

^R 87.0 ^R 95.7

^R 97.3

R 96 4

R 90.9

R 77.0

^R 81.4

94.0

90.3

Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/nuclear.html for all available data beginning in 1973.

Sources: See end of section.

70,319

74,318

72.617

67,054

^R 62,820

63,408

72 931

73.479

64,227

66,920

59,129

65,229 69,435

72,949

72 245

65,941

57.688

70,441

^R 59,069

796,751

R 806,208

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.doe.gov/cneaf/nuclear/page/nuc_reactors/operational.xls.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

See Table 7.2a.

Capacity Factor

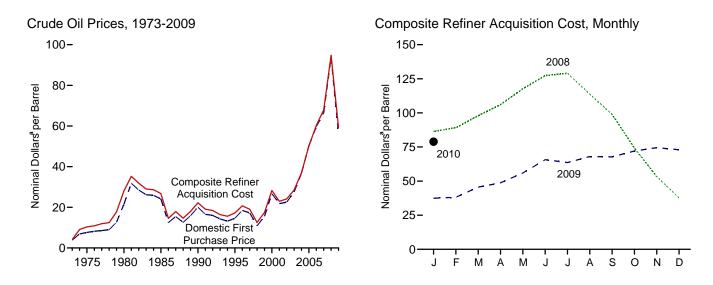
Calculated by EIA using the method described above in Note 2.



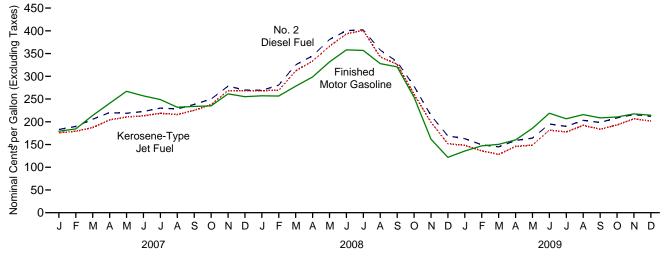
Energy Prices



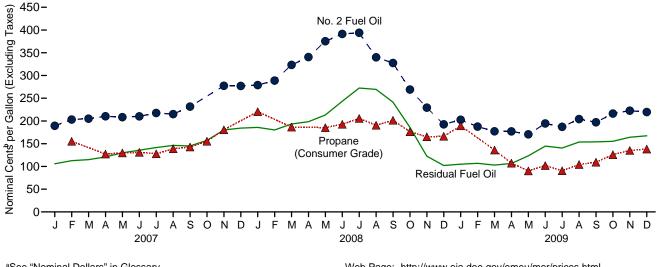
Figure 9.1 Petroleum Prices



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



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



^aSee "Nominal Dollars" in Glossary. ^bSee "Nominal Price" in Glossary. Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Nominal Dollars^a per Barrel)

				ĸ	efiner Acquisition Co	51-
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
	3.89	^f 5.21	^f 6.41	^E 4.17	^E 4.08	^E 4.15
973 Average	7.67	11.18	12.70	8.39	13.93	10.38
975 Average						
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
995 Average	14.62	15.69	16.78	17.33	17.14	17.23
996 Average	18.46	19.32	20.31	20.77	20.64	20.71
997 Average	17.23	16.94	18.11	19.61	18.53	19.04
998 Average	10.87	10.76	11.84	13.18	12.04	12.52
999 Average	15.56	16.47	17.23	17.90	17.26	17.51
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
001 Average	21.84	20.46	21.82	24.33	22.00	22.95
002 Average	22.51	22.63	23.91	24.65	23.71	24.10
003 Average	27.56	25.86	27.69	29.82	27.71	28.53
004 Average	36.77	33.75	36.07	38.97	35.90	36.98
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 January	49.32	48.11	50.53	53.10	49.57	50.77
	49.32 52.94	51.97	54.04	55.72	53.77	54.45
February						
March	54.95	55.46	57.42	57.86	56.31	56.84
April	58.20	59.53	60.99	61.13	60.45	60.68
May	58.90	60.72	62.92	62.04	61.55	61.71
June	62.35	64.38	66.26	64.95	65.24	65.14
July	69.23	69.30	70.51	72.08	70.75	71.24
August	67.77	66.69	69.07	71.57	68.28	69.46
September	73.27	72.21	73.92	75.84	72.34	73.54
October	79.32	78.51	79.45	82.20	78.61	79.87
November	87.16	83.75	84.89	89.25	85.53	86.78
December	85.28	82.85	84.28	88.98	83.21	85.29
Average	66.52	66.36	67.97	69.65	67.04	67.94
008 January	87.06	83.49	86.65	89.57	84.82	86.48
February	89.41	87.84	90.71	92.23	87.41	89.09
March	98.44	96.32	99.94	99.87	96.96	97.96
April	106.64	104.04	108.40	108.54	104.72	106.09
May	118.55	115.02	119.40	119.75	116.55	117.64
June	127.47	123.34	125.65	129.45	126.22	127.32
July	128.08	122.12	124.20	131.47	127.77	129.03
August	112.83	108.10	109.64	118.42	111.19	113.74
September	98.50	90.85	91.83	103.73	96.38	98.91
October	73.18	63.09	65.40	81.03	70.84	74.22
November	53.67	44.95	46.96	61.65	49.10	53.33
December	36.80	34.23	36.86	41.42	35.59	37.67
Average	94.04	90.32	93.33	98.47	92.77	94.74
	05.00	00.00	00.54	00.07	00.04	07 15
009 January	35.00	36.86	38.51	38.67	36.84	37.45
February	34.14	38.08	40.14	37.51	38.56	38.15
March	42.46	44.34	46.61	44.92	45.96	45.57
April	45.22	47.62	51.33	47.52	49.58	48.78
May	52.69	55.46	58.01	54.58	56.77	55.96
June	63.08	64.81	65.85	64.61	66.37	65.71
	60.43	62.32	64.73	63.78	63.46	63.58
July						
August	65.28	67.46	68.46	67.78	68.09	67.98
September	65.27	65.41	68.45	67.86	67.65	67.74
October	69.82	^R 70.42	^R 72.54	72.04	72.06	72.05
November	71.98	^R 73.17	^R 74.39	^R 74.60	74.40	^R 74.48
December	^R 70.54	^R 71.08	^R 72.40	^R 73.35	^R 72.67	72.95
Average	56.39	57.54	59.70	59.44	59.17	59.27

^a See "Nominal Dollars" in Glossary.
^b See Note 4, "Crude Oil Refinery Acquisition Costs," at end of section.
^c See Note 1, "Crude Oil Domestic First Purchase Prices," at end of section.
^d See Note 2, "Crude Oil F.O.B. Costs," at end of section.
^e See Note 3, "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.doe.gov/emeu/mer/prices.html 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

(Nominal Dollars^a per Barrel)

			Se	elected Counti	ries			Densien		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC
1973 Average ^d	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1975 Average	10.97	-	11.44	11.82	10.87	-	11.04	10.88	11.34	10.62
1980 Average	33.45	w	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	-	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average	16.58	16.73	15.64	17.40	w	16.94	13.86	w	15.36	16.02
1996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average	28.22 37.26	28.89 37.73	24.83 31.55	29.40 38.71	25.03 34.08	28.76 37.30	23.81 31.78	25.17 33.08	25.36 33.95	26.21 33.58
2004 Average 2005 Average	52.48	51.89	43.00	55.95	34.08 47.96	54.48	46.39	47.21	33.95 49.60	45.79
2005 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	45.79 55.35
2007 January	52.04	48.98	43.27	56.03	W	53.57	44.79	50.06	50.92	45.31
February	55.18	57.10	47.47	58.32	W	_	49.80	52.43	53.84	49.98
March	60.34 65.45	58.44 58.26	50.21 54.36	64.88 69.72	Ŵ	62.04 W	52.01 56.48	56.22 58.82	57.79 62.32	52.91 56.42
April May	65.85	62.06	55.60	71.40	Ŵ	Ŵ	57.47	63.71	63.77	57.78
June	69.63	67.21	59.91	75.55	Ŵ	Ŵ	61.01	65.45	67.05	61.12
July	74.18	70.77	64.61	79.08	Ŵ	76.35	66.02	70.75	72.04	66.48
August	68.38	70.46	61.80	74.08	ŵ	W	63.79	70.97	68.86	64.18
September	75.62	70.66	65.95	80.10	Ŵ	Ŵ	68.99	77.63	75.30	68.38
October	80.20	79.10	72.04	88.88	Ŵ	Ŵ	74.87	85.03	82.10	73.38
November	90.85	W	79.13	94.71	86.74	Ŵ	83.61	84.11	87.15	80.07
December	88.27	90.11	80.49	96.18	81.45	W	80.57	81.14	86.61	77.78
Average	67.80	67.93	61.35	76.64	w	69.96	64.10	69.93	69.58	62.69
2008 January	88.77	80.54	80.10	93.59	88.52	_	80.49	83.79	85.51	80.72
February	93.84	83.63	80.49	98.72	W	W	84.10	94.00	91.87	83.21
March	101.34	99.67	87.46	107.04	W	-	89.63	101.72	99.90	92.25
April	110.80	106.06	94.08	114.87	W	-	96.71	113.04	108.19	98.89
Мау	119.61	117.49	103.53	127.35	123.98	_	107.89	121.13	118.23	111.30
June	130.72	125.58	116.15	140.01	125.58	W	119.15	124.37	126.30	120.14
July	127.19	122.27	123.19	134.58	110.61	W	123.18	110.34	121.93	122.37
August	107.58	108.36	108.45	117.21	107.54	W	110.20	105.06	108.99	107.17
September	92.42 62.08	95.87 61.83	92.26 63.74	95.68 67.28	70.86 66.18	W	92.76 60.35	75.41 61.78	89.61 62.77	92.24 63.42
October November	62.08 48.16	42.14	63.74 42.37	67.28 51.45	47.97	vv	42.22	45.14	62.77 45.61	63.42 44.30
December	48.10 W	42.14 W	32.86	44.02	47.97 W	_	32.98	35.69	35.79	32.90
Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
2009 January	39.88	26.24	36.96	46.12	w	W	36.68	35.24	37.60	36.15
February	40.60	32.55	37.59	45.02	Ŵ	_	38.03	36.38	39.71	36.81
March	44.76	46.69	40.94	49.91	48.31	W	41.77	47.66	45.75	42.96
April	50.57	W	46.71	52.93	W	-	45.82	51.05	48.67	46.86
May	55.79	54.17	55.49	57.80	Ŵ	-	54.36	58.05	55.89	55.12
June	67.03	62.94	63.83	68.74	W	-	63.16	64.14	65.36	64.34
July	63.34	58.58	60.42	69.73	W	-	60.16	63.42	63.25	61.39
August	W	64.41	67.20	72.37	66.37	W	65.42	66.17	67.62	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	76.33	W	W	66.95	^R 73.45	^R 70.48	^R 70.38
November	^R 76.89	70.96	^R 72.71	^R 77.58	W	W	^R 69.43	^R 72.99	^R 73.60	^R 72.82
December	W	66.72	69.75	75.66	W		68.36	72.85	71.94	70.22
Average	56.68	57.79	56.47	63.39	57.92	65.63	55.40	59.50	58.18	56.99

See "Nominal Dollars" in Glossary.

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

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 2, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months 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.doe.gov/emeu/mer/prices.html for all available data beginning in 1973.

Sources: See end of section.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Nominal Dollars^a per Barrel)

				Selected (Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^o
1973 Average ^d	w	5.33	w	_	9.08	5.37	_	5.99	5.91	6.85	5.64
1975 Average	11.81	12.84		12.61	12.70	12.50	_	12.36	12.64	12.70	12.70
1980 Average	34.76	30.11	w	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1985 Average	27.39	25.71	-	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average	21.86	19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
1997 Average	20.24	17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
1999 Average	18.37	17.54	18.09	16.12	17.63	17.48	18.26	15.58	17.37	16.94	17.51
2000 Average	29.57	26.69	29.68	26.03	30.04	26.58	29.26	26.05	26.77	27.29	27.80
2001 Average	25.13	20.72	25.88	19.37	26.55	20.98	25.32	19.81	20.73	21.52	22.17
2002 Average	25.43	22.98	25.28	22.09	26.45	24.77	26.35	21.93	24.13	23.83	23.97
2003 Average	30.14	26.76	30.55	25.48	31.07	27.50	30.62	25.70	27.54	27.70	27.68
2003 Average	39.62	34.51	39.03	32.25	40.95	37.11	39.28	33.79	36.53	36.84	35.29
2004 Average	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2005 Average	64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2000 AVGIUYE	04.00	33.30	02.13	55.70	00.20	55.15	07.44	51.51	30.32	01.21	57.14
2007 January	53.12	46.86	52.22	44.32	58.55	51.21	56.59	47.20	50.65	52.81	47.56
February	57.78	50.25	59.08	48.45	61.16	54.94	59.30	51.97	54.18	56.06	51.69
March	61.91	52.58	59.37	51.07	66.47	58.22	65.96	54.34	57.49	59.60	54.71
April	67.78	54.60	61.77	55.16	71.15	61.53	65.92	58.67	60.98	63.73	57.43
May	67.51	56.46	63.70	56.40	72.99	66.15	W	60.17	65.02	66.38	58.91
June	72.40	57.54	67.87	60.68	77.15	69.53	Ŵ	63.24	68.18	69.58	61.65
July	76.73	62.66	73.15	65.46	80.84	72.37	77.73	67.95	71.29	73.63	66.95
August	70.28	64.10	72.72	62.52	76.67	74.11	Ŵ	65.64	72.79	71.73	65.76
September	77.76	66.76	77.32	66.55	81.96	80.60	79.48	70.64	78.56	77.37	69.42
October	81.92	67.36	79.74	72.68	90.13	84.73	81.77	76.74	84.29	83.58	73.62
November	92.56	76.60	80.74	79.70	95.54	86.92	W	85.23	86.17	88.53	80.39
December	90.96	69.62	94.68	81.53	97.88	83.72	94.58	82.55	84.00	88.30	79.02
Average	71.27	60.38	70.91	62.31	78.01	70.78	72.47	66.13	69.83	71.14	63.96
2008 January	93.21	77.83	85.22	81.28	97.03	92.42	W	83.23	89.70	89.66	82.10
February	97.79	81.40	85.20	81.33	101.23	97.64	W	86.34	96.04	94.71	85.13
March	106.19	93.34	102.88	88.49	109.73	108.26	W	93.01	105.39	103.78	94.65
April	117.34	103.08	105.95	95.27	117.83	118.54	W	100.13	115.56	112.11	103.30
May	127.06	111.83	118.43	104.42	130.89	126.38	128.95	111.77	124.49	122.98	114.83
June	133.68	119.41	127.35	117.29	142.66	125.38	W	122.29	125.28	128.10	122.57
July	128.58	122.83	126.22	124.28	137.22	116.22	W	124.91	116.43	124.20	124.20
August	110.00	110.63	113.17	109.61	123.02	104.42	104.13	111.78	103.92	109.56	109.74
September	94.05	96.38	97.72	93.59	98.82	77.92	88.13	95.67	78.65	89.55	94.43
October	62.74	69.52	62.09	65.65	72.38	62.89	69.17	62.47	60.47	64.33	66.68
November	49.22	49.00	44.28	43.05	55.13	47.77	60.68	44.08	46.29	47.34	46.52
December	40.13	33.39	35.28	33.94	47.15	38.28	-	34.95	37.86	38.36	35.17
Average	98.18	90.00	93.43	85.97	104.83	94.75	96.95	90.76	93.59	95.49	90.59
2000 January	42.00	24.47	22.09	20.00	47.69	20.79	W	20.14	20.01	20.02	26.90
2009 January	43.88	34.17	32.08	38.08	47.68	39.78		39.14	39.01	39.93	36.89
February	42.83	35.83	34.49	38.16	46.71	44.46	W	39.58	42.56	42.49	38.07
March	47.80	44.22	46.70	41.76	51.86	51.71	47.44	43.86	50.35	48.29	45.09
April	53.54	47.61	46.86	47.26	58.10	57.32	52.41	48.25	57.16	54.08	48.70
May	56.66	54.42	54.90	56.22	62.71	61.93	58.66	56.28	61.46	59.53	56.73
June	68.42	64.00	65.65	64.39	69.19	66.24	67.33	64.52	66.27	66.63	65.11
July	66.73	62.18	63.24	60.99	71.08	65.97	W	62.11	66.20	66.13	63.29
August	72.48	64.23	66.71	67.71	73.83	69.33	73.66	67.23	69.08	69.91	66.96
September	72.55	66.58	66.27	65.00	71.98	72.77	W	65.85	71.93	69.95	66.84
October	75.03	^R 70.28	71.24	69.40	^R 77.77	^R 74.20	W	68.85	^R 74.18	^R 73.68	^R 71.41
November	^R 78.25	^R 71.97	72.70	^R 73.29	^R 79.00	^R 74.05	W	^R 71.41	^R 73.95	^R 75.21	^R 73.66
December	75.82	70.11	69.79	70.19	77.41	71.75	W	70.42	73.74	73.85	71.01
Average	60.65	57.40	58.21	57.32	66.97	61.42	60.10	57.62	61.34	61.23	58.22

 ^a 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 10273-1092 and again beginning in 2008, also includes 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 Gabon (attrough Gabon was a member of OPEC for only 1975-1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC." ^d Based on October, November, and December data only. R=Revised. – =No data reported. W=Value withheld to avoid disclosure of individual company data. Notes: • See "Landed Costs" in Glossary, and Note 3, "Crude Oil Landed

Costs," at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation 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

have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.doe.gov/emeu/mer/prices.html for all available data beginning in 1973.
 Sources: • October 1973-September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977-December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978-2008: EIA, Petroleum Marketing Annual 2008, Table 22.
 2009: EIA, Petroleum Marketing Monthly, March 2010, Table 22.

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

(Nominal Cents^a per Gallon, Including Taxes)

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
70 4	20.0	NA		
973 Average		NA	NA	NA
975 Average		NA	NA	NA
980 Average		124.5	NA	122.1
985 Average	111.5	120.2	134.0	119.6
990 Average	114.9	116.4	134.9	121.7
995 Average		114.7	133.6	120.5
996 Average		123.1	141.3	128.8
997 Average		123.4	141.6	129.1
				123.1
98 Average		105.9	125.0	
999 Average		116.5	135.7	122.1
000 Average		151.0	169.3	156.3
001 Average	NA	146.1	165.7	153.1
02 Average	NA	135.8	155.6	144.1
003 Average		159.1	177.7	163.8
004 Average		188.0	206.8	192.3
		229.5	249.1	233.8
05 Average				
06 Average	NA	258.9	280.5	263.5
07 January	NA	227.4	250.1	232.1
February		228.5	250.9	233.3
March		259.2	281.8	263.9
April		286.0	309.3	290.9
		313.0	334.8	317.6
May				
June		305.2	328.1	310.0
July		296.1	320.0	301.3
August	NA	278.2	301.8	283.3
September		278.9	302.1	283.9
October		279.3	303.7	284.3
November		306.9	330.7	311.8
December		302.0	326.4	306.9
Average	NA	280.1	303.3	284.9
08 January	NA	304.7	329.1	309.6
February		303.3	327.2	308.3
March		325.8	350.2	330.7
April		344.1	369.0	349.1
May		376.4	400.3	381.3
June		406.5	431.9	411.5
July	NA	409.0	435.0	414.2
August		378.6	404.5	383.8
September		369.8	394.0	374.9
October		317.3	343.2	322.5
November		215.1	243.3	220.8
December		168.9	195.1	174.2
Average	NA	326.6	351.9	331.7
109 January	NA	178.7	203.6	183.8
February		192.8	218.2	197.9
March		194.9	219.7	200.0
April		205.6	230.9	210.7
May		226.5	251.1	231.4
June	NA	263.1	288.3	268.1
July		254.3	280.6	259.4
August		262.7	288.7	267.7
		257.4	284.5	262.6
September				
October		256.1	282.6	261.3
November		266.0	291.7	270.9
December	NA	262.1	288.2	267.1
Average		235.0	260.7	240.1
	NIA	070 4	208 7	077.0
10 January		273.1	298.7	277.9
February	NA	265.9	292.2	270.9

^a See "Nominal Price" 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.doe.gov/emeu/mer/prices.html for all available

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

Table 9.5 Refiner Prices of Residual Fuel Oil

(Nominal Cents^a per Gallon, Excluding Taxes)

	Sulfur Co	I Fuel Oil ntent Less al to 1 Percent	Sulfur	Il Fuel Oil Content an 1 Percent	Average		
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	
978 Average	29.3	31.4	24.5	27.5	26.3	29.8	
980 Average	60.8	67.5	47.9	52.3	52.8	60.7	
985 Average	61.0	64.4	56.0	58.2	57.7	61.0	
990 Average	47.2	50.5	37.2	40.0	41.3	44.4	
	38.3	43.6	33.8	37.7	36.3	39.2	
995 Average							
996 Average	45.6	52.6	38.9	43.3	42.0	45.5	
997 Average	41.5	48.8	36.6	40.3	38.7	42.3	
998 Average	29.9	35.4	26.9	28.7	28.0	30.5	
999 Average	38.2	40.5	32.9	36.2	35.4	37.4	
000 Average	62.7	70.8	51.2	56.6	56.6	60.2	
001 Average	52.3	64.2	42.8	49.2	47.6	53.1	
002 Average	54.6	64.0	50.8	54.4	53.0	56.9	
003 Average	72.8	80.4	58.8	65.1	66.1	69.8	
	76.4	83.5	60.1	69.2	68.1	73.9	
004 Average							
005 Average	111.5	116.8	84.2	97.4	97.1	104.8	
006 Average	120.2	134.2	108.5	117.3	113.6	121.8	
)07 January	101.5	117.2	93.0	100.6	97.6	105.8	
February	117.2	121.4	100.0	108.2	107.3	112.6	
March	117.1	122.1	100.8	111.4	107.6	115.0	
April	124.4	125.8	108.4	118.2	115.0	120.9	
May	131.1	135.9	120.0	128.1	123.8	130.0	
June	135.7	142.1	124.3	132.5	128.0	135.7	
	146.1	153.9	132.1	138.3	137.8	141.5	
July							
August	143.6	158.4	132.6	141.9	136.7	146.2	
September	147.4	161.0	133.7	141.0	139.3	145.0	
October	164.7	166.1	147.5	154.2	153.6	157.3	
November	183.9	183.2	169.2	179.6	174.2	180.3	
December	194.8	194.8	169.0	179.7	176.5	184.2	
Average	140.6	143.6	131.4	135.0	135.0	137.4	
008 January	199.7	203.9	166.2	178.3	176.4	185.9	
February	187.0	200.4	162.5	172.0	171.4	180.2	
March	195.6	204.8	171.7	188.1	176.9	193.4	
April	213.9	204.0	182.2	190.4	188.0	198.3	
		234.9			204.2		
May	232.2		198.9	206.9		213.2	
June	257.8	265.8	218.1	233.3	227.4	243.4	
July	283.3	294.5	254.2	265.7	263.6	272.4	
August	254.6	300.5	244.5	255.4	248.6	269.4	
September	217.5	266.6	218.0	230.0	217.9	241.2	
October	157.4	216.6	160.3	175.9	159.2	185.9	
November	103.6	165.4	97.1	105.5	100.4	122.5	
December	101.0	121.1	78.4	87.7	87.6	102.1	
Average	191.8	214.4	184.3	188.9	186.6	196.4	
09 January	103.5	116.4	89.0	95.3	94.7	104.9	
February	103.3	120.4	91.8	97.4	95.4	104.9	
March	101.9	118.3	91.7	95.2	95.2	103.0	
April	107.7	117.4	99.2	102.7	101.7	106.6	
May	120.5	121.3	119.1	124.5	119.5	123.4	
June	140.1	144.0	137.3	145.0	138.1	144.7	
July	141.7	148.8	139.9	136.9	140.5	140.4	
August	158.6	164.1	156.7	148.8	157.3	153.6	
September	153.3	168.9	155.5	149.2	154.9	154.0	
October	161.9	171.7	154.8	150.1	156.0	155.3	
	^R 174.3	173.9	170.0	^R 160.2	^R 171.1	^R 164.2	
November							
December	177.9	181.8	167.3	161.5	170.1	167.3	
Average	134.9	141.3	134.9	130.6	134.9	134.1	

^a See "Nominal Price" in Glossary. R=Revised.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note

6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/prices.html for all available

data beginning in 1978.
Sources: • 1978-2008: EIA, Petroleum Marketing Annual 2008, Table 16.
2009: EIA, Petroleum Marketing Monthly, March 2010, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

(Nominal Cents^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	43.4	53.7	38.6	40.4	36.9	36.5	23.7
980 Average	94.1	112.8	86.8	86.4	80.3	80.1	41.5
985 Average	83.5	113.0	79.4	87.4	77.6	77.2	39.8
990 Average	78.6	106.3	77.3	83.9	69.7	69.4	38.6
	62.6	97.5	53.9	58.0	51.1	53.8	34.4
995 Average							
996 Average	71.3	105.5	64.6	71.4	63.9	65.9	46.1
997 Average	70.0	106.5	61.3	65.3	59.0	60.6	41.6
998 Average	52.6	91.2	45.0	46.5	42.2	44.4	28.8
999 Average	64.5	100.7	53.3	55.0	49.3	54.6	34.2
000 Average	96.3	133.0	88.0	96.9	88.6	89.8	59.5
001 Average	88.6	125.6	76.3	82.1	75.6	78.4	54.0
002 Average	82.8	114.6	71.6	75.2	69.4	72.4	43.1
003 Average	100.2	128.8	87.1	95.5	88.1	88.3	60.7
004 Average	128.8	162.7	120.8	127.1	112.5	118.7	75.1
005 Average	167.0	207.6	172.3	175.7	162.3	173.7	93.3
006 Average	196.9	249.0	196.1	200.7	183.4	201.2	103.1
007 January	157.0	204.3	172.7	180.6	161.2	169.5	99.5
February	171.7	218.7	176.6	194.2	172.9	182.4	103.3
March	199.5	246.1	184.6	194.3	178.1	197.9	104.9
	226.4	277.9	202.1	204.8	191.0	211.6	104.5
April							
May	249.5	304.7	207.9	207.8	194.9	210.1	111.2
June	236.1	292.4	211.4	215.7	201.4	214.7	109.4
July	230.7	299.8	216.7	226.1	207.1	222.0	115.9
August	215.2	282.8	215.1	222.2	202.1	219.3	116.7
September	219.5	283.0	225.6	245.0	213.3	232.2	124.8
October	221.8	276.9	235.3	252.5	226.0	242.6	135.2
November	245.8	302.0	265.6	285.4	256.9	269.8	147.1
	235.8	292.7	265.5	282.5	257.0	259.9	146.1
December							
Average	218.2	275.8	217.1	224.9	207.2	220.3	119.4
008 January	239.5	296.9	266.5	283.2	256.4	258.0	151.9
February	243.6	300.7	267.4	284.2	260.7	273.8	146.9
March	264.0	326.3	310.6	328.1	297.7	315.8	149.5
April	286.1	346.8	331.5	354.3	319.5	335.6	157.1
May	317.2	375.1	364.2	376.7	353.6	371.2	167.5
June	341.6	401.8	391.2	397.3	376.1	385.9	176.1
July	334.7	394.6	397.8	398.0	380.2	387.6	183.3
August	307.8	373.7	339.3	345.6	328.7	333.8	166.7
September	300.0	370.5	327.8	336.5	300.3	316.0	156.5
October	214.9	279.0	256.9	268.1	240.0	251.4	124.2
November	139.3	214.0	197.4	228.8	194.7	195.5	100.5
	106.1	179.9	147.0	171.5	157.9	146.9	91.6
December							
Average	258.6	334.2	302.0	285.1	274.5	299.4	143.7
009 January	124.5	185.1	147.1	181.0	155.0	147.9	97.4
February	133.2	203.8	134.6	160.7	142.1	132.6	90.1
March	139.7	203.1	126.5	145.6	135.8	131.3	80.5
April	148.2	222.5	142.2	148.0	139.7	145.5	72.0
May	176.2	247.8	146.1	153.9	146.2	152.9	73.2
June	202.4	274.3	178.0	184.1	174.4	182.8	82.1
July	186.7	254.8	175.9	177.3	165.6	174.4	75.6
August	202.6	275.9	189.2	195.1	180.4	193.6	83.1
September	191.5	259.2	182.1	185.7	177.3	184.8	91.4
October	197.5	259.6	191.7	205.0	191.8	197.8	99.4
November	R 203.8	270.1	^R 205.5	^R 207.5	199.3	203.7	^R 107.9
	199.9	265.5	201.1	214.8	199.3	199.6	117.7
December							
Average	176.6	247.8	171.2	184.9	165.6	171.2	91.9

^a See "Nominal Price" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.

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.doe.gov/emeu/mer/prices.html for all available

data beginning in 1978.
Sources: • 1978-2008: EIA, Petroleum Marketing Annual 2008, Table 4.
2009: EIA, Petroleum Marketing Monthly, March 2010, Table 4.

R=Revised.

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Nominal Cents^a per Gallon, Excluding Taxes)

	Finished Motor	Finished Aviation	Kerosene- Type		No. 2 Fuel	No. 2 Diesel	Propane (Consume
	Gasoline ^b	Gasoline	Jet Fuel	Kerosene	Oil	Fuel	Grade)
78 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
990 Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
995 Average	76.5	100.5	54.0	58.9	56.2	56.0	49.2
996 Average	84.7	111.6	65.1	74.0	67.3	68.1	60.5
	83.9	112.8	61.3	74.5	63.6	64.2	55.2
997 Average	67.3	97.5	45.2	50.1	48.2	49.4	40.5
998 Average	78.1		43.2 54.3	60.5	40.2 55.8	58.4	40.5
999 Average		105.9	54.5 89.9				45.8 60.3
000 Average	110.6	130.6		112.3	92.7	93.5	
001 Average	103.2	132.3	77.5	104.5	82.9	84.2	50.6
002 Average	94.7	128.8	72.1	99.0	73.7	76.2	41.9
003 Average	115.6	149.3	87.2	122.4	93.3	94.4	57.7
004 Average	143.5	181.9	120.7	116.0	117.3	124.3	83.9
005 Average	182.9	223.1	173.5	195.7	170.5	178.6	108.9
006 Average	212.8	268.2	199.8	224.4	198.2	209.6	135.8
007 January	179.1	217.9	175.8	194.4	189.4	183.0	NA
February	184.2	228.5	179.0	NA	203.1	189.8	155.3
March	213.8	262.7	187.2	232.5	205.0	205.6	NA
April	240.5	296.9	203.9	236.1	210.3	220.2	127.2
May	266.9	309.6	210.5	W	208.3	218.5	129.8
June	256.9	297.8	213.2	Ŵ	210.2	222.6	130.9
July	248.8	305.3	218.5	236.2	217.6	230.1	127.8
	232.0	282.3	216.0	246.7	217.0	228.2	138.9
August							
September	233.7	290.0	225.0	267.3	231.6	238.1	142.8
October	235.0	285.5	237.7	280.1	NA	249.9	155.5
November	261.4	306.7	268.4	319.7	277.3	278.2	180.6
December	255.2	297.5	268.5	330.3	277.0	269.7	NA
Average	234.5	284.9	216.5	226.3	224.1	226.7	148.9
008 January	257.1	298.7	268.5	338.1	279.0	269.2	220.6
February	256.6	295.4	269.3	340.4	288.8	280.5	NA
March	278.3	329.6	312.0	359.2	323.2	325.2	186.5
April	298.4	335.8	333.4	377.4	340.5	345.1	NA
May	331.6	361.5	366.1	395.0	375.3	380.8	185.3
June	358.0	396.5	393.3	415.9	391.4	400.4	192.8
July	356.8	392.9	400.8	439.3	393.9	402.1	205.5
August	327.9	379.2	342.5	405.5	339.9	357.6	190.6
September	320.7	383.7	326.6	401.3	327.5	332.0	201.5
October	253.7	297.5	260.3	299.3	269.0	278.1	176.3
November	161.7	297.5	198.8	308.5	209.0	213.9	165.2
December	121.9	181.4	151.8	282.3	192.6	169.0	166.4
Average	277.5	327.3	305.2	328.3	298.6	315.0	189.2
-	125 7	105 7	140.0	061.0	202.0	160.0	400.4
009 January	135.7	185.7	148.2	261.3	202.6	162.9	189.4
February	146.9	196.1	136.0	263.1	187.7	149.5	NA
March	150.3	196.4	128.1	256.5	177.2	144.9	136.0
April	160.0	215.0	145.8	254.0	177.0	158.9	107.2
May	185.6	242.3	148.7	249.7	170.6	164.0	90.1
June	218.7	270.7	181.8	249.0	194.4	195.0	102.0
July	206.7	260.7	177.4	246.2	187.1	189.9	90.5
August	215.7	276.3	192.2	254.5	204.1	203.1	104.3
September	208.6	268.4	183.5	NA	197.2	198.5	109.3
October	210.4	269.3	193.0	273.8	216.3	208.6	125.8
November	^R 217.3	283.9	206.4	287.5	222.7	^R 216.0	^R 135.2
December	217.5	279.0	200.4	289.4	219.7	210.0	138.1
	214.4 188.8				219.7 196.3		130.1 123.6
Average	100.0	243.8	170.4	267.2	190.3	183.3	123.0

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

Notes: • Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers. • Values for

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

Web Page: See http://www.eia.doe.gov/emeu/mer/prices.html for all available data beginning in 1978. Sources: • 1978-2008: EIA, *Petroleum Marketing Annual 2008*, Table 2.

• 2009: EIA, Petroleum Marketing Monthly, March 2010, Table 2.

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

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
				1					
978 Average	48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
980 Average	96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
985 Average	99.7	102.4	107.7	107.0	106.7	108.0	111.3	105.9	102.3
990 Average	98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
995 Average	78.7	77.9	85.3	84.4	87.4	86.4	95.5	88.8	82.6
996 Average	97.2	94.0	96.9	97.6	98.6	98.6	106.3	102.4	95.3
997 Average	94.2	94.2	98.7	96.0	98.9	96.3	106.5	103.3	95.0
998 Average	78.8	78.8	87.3	81.8	86.8	83.1	94.8	89.2	81.4
999 Average	81.3	77.0	85.4	83.6	85.8	85.2	96.9	91.3	81.5
000 Average	129.7	128.1	125.5	127.3	125.9	129.1	144.2	140.4	122.4
001 Average	121.7	125.6	126.1	122.1	123.6	123.9	136.3	131.4	115.9
002 Average	112.9	111.9	117.2	114.1	112.4	111.8	121.8	122.0	106.4
003 Average	131.4	131.2	130.9	138.6	134.4	135.5	143.6	148.9	130.4
004 Average	151.4	149.7	150.5	155.9	151.1	151.8	162.7	166.2	148.9
					200.0	201.2			
005 Average	198.6	197.2	198.7	206.4			210.5	216.6	197.4
006 Average	229.4	228.3	240.8	235.5	236.0	235.7	245.8	246.7	228.6
007 January	229.5	234.5	252.6	227.7	226.9	238.4	238.6	236.2	224.7
February	234.7	232.6	257.5	237.0	236.7	242.4	249.7	247.2	234.7
March	239.7	242.3	259.3	242.5	242.5	246.3	251.6	253.2	237.0
April	243.7	244.4	260.6	245.6	247.6	249.8	254.8	256.1	239.0
	241.7	242.5	257.1	245.8	247.2	250.5	257.1	256.6	241.7
June	241.3	239.7	253.1	246.2	247.6	251.8	263.1	253.8	241.5
July	247.6	239.2	258.9	256.9	255.1	256.2	269.1	258.6	242.8
August	250.9	239.0	255.7	251.6	252.3	250.9	260.5	258.2	238.1
September	258.2	249.4	262.6	259.8	263.7	261.3	269.6	267.8	249.4
October	272.1	264.8	269.8	272.6	276.0	276.9	282.8	281.2	261.6
	293.1			303.2	308.1				294.6
November		289.3	293.7			301.3	309.1	316.8	
December Average	299.9 254.0	301.4 253.5	302.4 267.9	311.1 257.6	313.5 260.2	305.5 261.5	315.5 267.4	326.1 266.4	300.9 250.8
-									
008 January	304.6	305.1	309.5	313.6	317.3	309.1	321.8	332.5	305.7
February	305.0	305.0	310.5	319.3	320.2	312.3	325.8	335.1	309.7
March	330.9	331.1	337.1	352.5	349.5	336.2	352.1	369.0	340.3
April	349.0	347.4	357.5	370.1	366.2	349.4	364.9	385.5	355.3
May	376.3	384.3	391.3	397.7	392.7	380.6	393.4	413.5	385.1
June	419.7	425.7	425.2	429.3	417.6	411.3	416.4	447.2	416.4
July	429.0	442.7	448.4	435.9	428.7	419.4	428.9	455.4	432.6
August	395.7	404.8	417.6	389.2	384.2	NA	388.9	402.3	NA
September	375.7	376.8	393.9	362.8	357.5	368.1	371.8	376.1	357.3
October	322.8	331.8	350.2	306.7	300.0	319.9	329.5	319.8	310.3
November	279.5	285.7	313.7	264.6	273.5	288.6	296.2	272.7	275.7
December	251.3	255.9	280.2	233.9	240.8	261.3	258.9	238.1	244.9
Average	319.9	320.7	332.3	319.7	321.0	319.5	329.3	326.7	315.7
200 (050.4	040.0	070.0	000.0	005 7	050 7	050.0	000.4	040.4
009 January	250.4	248.6	273.8	236.9	235.7	256.7	253.3	239.4	242.4
February	237.9	238.0	265.4	224.7	222.6	242.4	244.0	229.1	226.7
March	224.0	224.4	251.8	217.8	213.8	235.7	232.6	216.7	220.0
April	224.4	220.8	242.0	220.8	214.0	230.9	233.0	218.8	218.0
May	217.5	212.2	236.4	216.2	207.5	222.3	228.7	219.2	217.7
June	227.5	218.0	237.2	238.0	237.6	240.6	242.0	238.2	220.7
July	225.3	213.3	232.2	232.0	227.9	234.8	241.0	232.5	213.8
August	234.8	222.8	239.0	245.4	243.8	248.1	251.2	245.2	225.7
September	232.9	226.3	241.2	242.6	233.5	234.6	246.4	242.0	219.6
October	239.3	235.8	249.3	250.5	251.6	251.3	258.1	254.4	231.5
November	^R 246.7	^R 248.2	^R 261.2	^R 262.5	^R 268.3	^R 264.1	^R 274.5	^R 271.3	^R 251.5
December	248.9	251.8	264.9	264.8	271.7	266.3	273.0	273.2	253.8
Average	237.7	236.5	257.7	237.4	237.6	248.2	250.3	240.5	232.8

(Nominal Cents^a per Gallon, Excluding Taxes)

^a See "Nominal Price" in Glossary.

6, "Historical Petroleum Prices," at end of section.

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

R=Revised. NA=Not available. Notes: • States are grouped in Tables 9.8a, 9.8b, and 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

data beginning in 1978.
Sources: • 1978-2008: EIA, Petroleum Marketing Annual 2008, Table 15.
2009: EIA, Petroleum Marketing Monthly, March 2010, Table 15.

	Delever	District of	Mondana	Vincinia	West	Ohio	Miehimen	Indiana	Winste	Wiegenste	Mineset
	Delaware	Columbia	Maryland	Virginia	Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
978 Average	47.8	50.7	49.2	49.1	46.2	47.4	47.9	48.5	46.5	44.7	47.8
980 Average	95.4	102.6	97.9	98.5	92.2	91.9	97.8	99.6	95.8	91.5	99.9
985 Average	104.6	114.3	108.8	106.3	98.0	99.7	102.1	99.1	97.5	98.3	101.9
990 Average	105.8	107.8	111.9	110.6	99.1	98.1	100.9	99.3	96.1	94.2	101.4
995 Average	87.0	101.0	93.6	84.4	81.5	80.8	86.0	81.6	78.5	81.2	80.1
996 Average	98.4	117.8	106.3	95.2	96.0	92.1	97.7	91.2	89.3	89.9	90.9
997 Average	98.4	117.4	105.7	94.8	96.2	91.3	94.2	86.5	87.0	93.3	89.9
998 Average	85.8	102.2	90.2	85.6	81.8	76.7	80.4	74.8	73.5	80.1	73.8
999 Average	88.4	101.1	90.7	87.0	78.9	82.0	88.3	79.3	71.6	84.7	77.4
000 Average	127.0	W	135.1	126.9	125.1	122.0	NA	120.7	109.5	117.1	115.6
001 Average	123.4	143.1	134.2	120.2	113.9	116.0	NA	113.3	112.1	118.0	112.2
002 Average	116.4	W	120.1	105.7	105.4	105.8	110.9	102.5	97.5	107.3	105.1
003 Average	143.3	Ŵ	145.5	131.1	130.4	128.4	132.1	120.2	119.8	126.9	121.8
	157.0	ŵ	163.2	146.2	149.3	147.5	153.9	153.7	140.5	146.5	143.3
004 Average	207.5	Ŵ	212.7	204.4	204.3	200.9	205.3	201.7	202.1	146.5	143.3
005 Average	207.5	W	239.8	204.4 226.8	204.3	200.9	205.3	201.7	202.1	229.7	226.8
006 Average	230.1	vv	239.0	220.0	220.1	224.4	232.9	231.7	231.2	229.1	220.0
2007 January	234.6	W	240.3	211.4	212.9	209.2	221.1	218.2	221.7	219.9	216.9
February	247.7	W	246.9	214.1	223.3	221.6	227.2	228.4	222.3	224.0	224.8
March	249.6	W	251.3	226.8	229.9	231.8	247.3	242.6	236.4	239.1	241.5
April	246.6	W	251.7	224.4	229.2	236.4	258.4	255.5	246.8	254.2	251.7
May	245.6	W	256.2	223.8	228.3	230.0	247.6	246.0	239.7	249.5	251.9
June	NA	W	255.4	232.7	236.2	238.2	245.6	246.7	243.3	251.7	249.9
July	246.4	W	258.7	236.6	241.2	244.1	254.2	255.2	252.0	254.8	258.6
August	245.1	W	258.8	236.2	240.9	247.7	257.3	258.5	256.2	261.7	262.6
September	252.6	W	266.1	245.6	253.5	257.3	266.8	263.7	258.9	271.8	273.4
October	270.7	W	283.0	266.3	266.7	273.5	280.1	280.8	275.0	281.4	282.6
November	302.8	W	312.4	295.5	300.3	308.7	310.3	313.3	307.5	310.3	305.0
December	320.0	W	322.1	300.2	306.2	307.0	304.0	309.6	303.9	306.9	296.4
Average	258.4	w	266.8	240.7	247.8	249.4	258.8	255.7	252.8	257.1	258.7
008 January	322.8	W	326.4	306.4	311.5	304.6	304.6	306.3	300.5	303.9	297.1
	326.0	Ŵ	331.1	314.8	316.3	318.4	316.9	312.3	310.0	311.4	311.1
February March	354.8	Ŵ	354.5	340.6	347.9	354.8	359.1	345.3	357.4	351.2	352.8
	362.6	Ŵ	367.2	352.8	363.9	372.6	370.2	364.3	368.5	365.7	371.3
April											
May	390.3	W	402.9	384.8	391.6	407.6	400.0	409.1	405.0	395.6	399.7
June	423.1	W	424.6	412.6	425.2	417.5	421.4	427.4	NA	NA	417.1
July	434.5	W	441.4	412.3	430.6	414.7	417.8	426.4	401.1	399.3	416.3
August	389.8	W	408.7	376.4	386.3	379.4	373.8	379.7	NA	366.6	379.4
September	362.4	W	382.8	355.8	356.6	367.0	365.2	368.8	360.0	360.1	365.8
October	314.8	W	329.7	315.8	316.2	301.9	307.9	309.8	303.9	308.6	309.8
November	267.7	W	289.4	266.8	268.8	250.9	248.5	252.6	251.4	252.0	258.2
December	244.1	W	255.0	235.0	233.3	208.1	207.9	211.8	212.9	211.1	207.2
Average	318.7	w	327.3	312.4	322.1	314.7	306.7	310.5	315.2	308.8	306.5
2009 January	241.0	W	245.6	222.3	230.0	204.6	200.1	206.1	206.9	200.2	197.6
February	229.3	Ŵ	239.2	215.3	220.2	189.3	187.6	190.9	186.9	185.4	181.8
March	225.3	Ŵ	226.6	200.5	204.2	182.1	180.6	181.9	183.3	178.2	173.7
April	226.6	Ŵ	225.2	NA	203.3	190.0	181.4	192.2	198.2	187.2	189.1
May	225.3	Ŵ	221.5	182.2	199.9	192.2	180.9	197.2	NA	197.6	187.2
June	228.9	Ŵ	230.2	203.7	209.7	215.0	209.5	217.4	205.9	218.9	215.5
July	225.4	Ŵ	229.2	205.4	212.3	211.2	196.4	218.2	NA	218.3	209.2
August	234.0	Ŵ	238.2	214.1	225.2	228.5	215.3	210.2 NA	214.7	228.4	209.2
	234.0	Ŵ	238.7	214.1	225.2	220.5	215.5	229.0	214.7 NA	226.2	229.7
September	250.9	Ŵ	255.6	232.3	241.0	221.5	233.6	229.0	238.5	220.2	222.0
October		W		232.3 ^R 240.7		^R 248.2	^R 248.4	^R 247.5	238.5 ^R 247.6	233.3 ^R 242.4	
November	268.8	W	R 270.3		252.6						238.6
December	273.0		276.4	247.5	251.8	249.6	244.8	250.7	242.7	239.7	239.2
Average	241.4	w	246.0	218.8	229.1	213.2	210.1	218.7	215.6	210.3	212.4

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

6, "Historical Petroleum Prices," at end of section. Web Page: See http://www.eia.doe.gov/emeu/mer/prices.html for all available

 a See "Nominal Price" in Glossary. R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

Sources: • 1978-2008: EIA, Petroleum Marketing Annual 2008, Table 15.

Notes: • States are grouped in Tables 9.8a, 9.8b, and 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

data beginning in 1978.

• 2009: EIA, Petroleum Marketing Monthly, March 2010, Table 15.

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

43.5 46.5 53.2 46.0 980 Average 91.5 100.8 97.3 97.4 97.4 990 Average 97.4 102.9 97.0 110.1 106.3 990 Average 93.3 108.0 98.3 90.9 98.9 995 Average 93.3 108.0 98.9 90.9 98.9 997 Average 93.3 108.0 98.3 90.9 98.2 997 Average 93.3 108.0 98.3 90.9 98.2 998 Average 97.6 106.5 93.3 103.8 13.7 131.1 0097 Average 113.8 133.6 121.1 137.7 125.0 009 Average 118.8 148.7 130.3 124.4 194.2 194.2 194.2 194.2 194.2 194.2 194.3 194.2 194.3 194.2 194.3 194.2 194.3 194.2 194.3 194.2 194.3 194.2 194.3 194.2 194.3 194.2 <th></th> <th></th> <th></th> <th></th> <th></th> <th>U.S.</th>						U.S.
B88 Average 91.6 100.8 97.3 97.8 97.4 990 Average 97.4 102.9 97.0 110.1 106.3 105.3 990 Average 83.3 106.0 98.9 99.9 96.9 96.9 96.9 986 Average 83.3 106.0 98.9 90.9 96.2 98.4 986 Average 77.2 107.6 83.1 87.3 97.2 97.8 83.1 87.3 97.2 97.8 83.1 83.6 87.7 131.1 137.7 125.0 97.2 100.4 106.0 106.7 112.9 90.0 Average 118.8 144.7 130.3 124.3 135.5 206.4 206.1 226.1		Idaho	Washington	Oregon	Alaska	Average
B0 Average 91.6 100.8 97.3 97.8 97.4 90 Average 97.4 102.9 97.0 110.1 106.3 90 Average 93.3 106.0 98.9 90.9 98.2 96 Average 93.3 106.0 98.9 90.9 98.2 97 Average 93.3 106.0 98.9 90.9 98.2 97 Average 97.2 101.3 97.3 97.8 97.2 98 Average 76.4 97.6 83.3 86.6 87.2 98 Average 103.8 133.6 121.1 137.7 125.0 90 Average 118.8 148.7 130.3 124.3 135.4 91 Average 148.5 174.9 159.4 152.4 154.8 96 Average 212.3 228.5 214.6 206.1 226.5 97 Average 217.7 20.9 221.1 238.5 234.5 244.9 246.5 96 Average 224.9 226.7	79 Avorago	12 6	19.6	45.9	52.2	40.0
985 Average 97.2 101.1 97.1 106.3 105.3 995 Average 83.9 96.2 89.4 83.4 86.7 995 Average 93.3 100.0 98.9 90.9 98.9 987 Average 95.3 113.9 103.1 97.3 98.4 987 Average 76.3 106.5 93.83 96.6 87.4 987 Average 76.3 106.5 93.83 96.6 87.4 99 Average 76.3 106.5 93.83 96.6 87.4 90 Average 103.8 121.4 137.7 125.0 90 Average 103.8 148.7 130.3 123.3 135.5 903 Average 148.5 174.9 159.4 152.4 154.5 903 Average 228.1 226.1 228.0 231.1 155.5 906 Average 239.1 266.1 205.2 206.0 231.1 907 January 228.4 227.7 224.0 224.0 24.9 248.0 907 January 266.3 266.7 256.3						
999 Average 97.4 102.9 97.0 110.1 106.3 996 Average 83.9 96.2 89.4 83.4 86.7 996 Average 93.3 106.0 98.9 99.9 98.4 996 Average 76.4 97.8 86.1 85.2 85.2 996 Average 76.2 106.5 93.3 96.6 87.1 997 Average 103.8 133.6 121.1 137.7 125.0 907 Average 118.8 144.7 130.3 124.3 135.5 906 Average 118.8 144.7 130.3 124.3 135.5 906 Average 212.3 238.5 214.6 206.1 226.5 906 Average 212.1 238.5 214.6 226.0 221.1 906 Average 228.1 228.2 228.0 228.1 906 Average 229.1 28.6 226.5 238.1 906 Average 228.0 228.1 228.0 228.1						
965 Average 85.3 96.2 99.4 83.4 86.7 965 Average 95.3 108.0 98.9 90.9 98.9 967 Average 75.4 97.8 86.1 85.2 85.2 999 Average 76.2 106.5 93.38 96.6 87.6 909 Average 117.0 144.5 136.8 133.7 131.1 01 Average 103.5 104.5 136.8 133.7 131.5 01 Average 145.5 174.9 155.4 152.4 154.3 063 Average 212.3 238.5 224.6 226.7 230.9 226.0 231.1 February 224.9 262.7 220.9 239.1 248.1 244.3 March 241.7 270.0 228.2 224.0 248.3 March 241.7 270.0 228.2 224.0 248.3 March 257.9 275.3 NA 257.7 254.9 August 257.9						
969 Average 95.3 106.0 98.9 90.9 96.3 978 Average 95.3 113.9 103.1 97.3 98.4 989 Average 76.2 106.5 33.8 96.6 87.6 000 Average 117.0 144.5 136.8 133.7 131.1 003 Average 113.8 133.6 121.1 137.7 125.0 003 Average 113.8 148.7 130.3 124.3 135.4 024 Average 143.5 174.3 139.4 152.4 154.4 036 Average 212.3 226.7 224.3 226.0 231.1 904 January 224.9 262.7 224.3 220.9 239.1 March 241.7 270.0 228.2 224.0 244.9 244.0 June 253.0 274.4 NA 227.7 249.3 20.9 25.0 24.4 94.9 24.0 34.9 24.0 34.9 24.0 34.1 24.9 24.0						
97 Average 95.3 113.9 103.1 97.3 98.4 998 Average 76.4 97.8 86.1 85.2 85.2 999 Average 76.2 106.5 93.3.8 96.6 87.6 900 Average 103.8 133.6 121.1 137.7 125.0 020 Average 91.9 120.4 160.0 108.7 112.9 030 Average 118.8 148.7 130.3 124.3 135.5 04 Average 213.1 286.1 241.1 239.5 228.4 152.2 05 Average 213.1 286.1 241.1 239.5 228.0 221.1 February 224.9 267.7 20.9 228.0 228.1 244.9 April 241.7 270.0 228.2 224.0 244.9 248.0 244.9 248.0 244.9 248.0 244.9 248.0 244.9 248.0 244.9 248.0 244.9 248.0 244.9 248.0 244.9 <td< td=""><td>95 Average</td><td></td><td></td><td></td><td></td><td></td></td<>	95 Average					
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989 Average 75.4 97.8 86.1 85.2 85.2 00 Average 117.0 144.5 136.8 133.7 131.1 00 Average 117.0 144.5 136.8 133.7 131.1 00 Average 113.8 133.6 121.1 137.7 125.0 02 Average 118.8 148.7 130.3 124.3 135.5 03 Average 118.8 148.7 130.3 124.3 135.5 06 Average 239.1 266.7 230.9 226.0 231.1 07 January 224.9 262.7 224.3 220.9 239.1 March 241.7 270.0 228.2 224.0 244.9 April 253.0 277.4 NA 262.7 244.3 240.9 July 257.9 275.3 NA 262.7 264.3 260.9 265.3 260.9 July 257.9 275.3 NA 262.7 264.3 260.9 265.3	97 Average	95.3	113.9	103.1	97.3	98.4
99 Average 76.2 106.5 93.8 96.6 87.6 00 Average 117.0 144.5 136.8 133.7 131.1 01 Average 103.8 133.6 121.1 137.7 125.0 03 Average 118.8 148.7 130.3 124.3 135.5 06 Average 212.3 238.5 214.6 206.1 205.2 06 Average 212.3 238.5 214.6 206.1 205.2 06 Average 212.1 235.5 236.1 205.2 228.1 06 Average 224.9 267.7 230.9 228.0 221.1 Fabruary 241.7 270.0 228.2 220.9 228.1 May NA 282.4 237.4 244.9 246.0 May NA 282.4 237.4 244.9 248.0 June 257.3 276.2 NA 256.3 250.9 September 283.6 284.6 250.7 255.8		78.4	97.8	86.1	85.2	85.2
00 Average 117.0 144.5 136.8 133.7 131.1 00 Average 91.9 120.4 106.0 106.7 112.9 02 Average 91.9 120.4 106.0 106.7 112.9 02 Average 118.8 148.7 130.3 124.3 135.5 06 Average 212.3 238.5 214.6 200.1 205.2 06 Average 239.1 228.1 241.1 235.5 238.5 07 January 228.4 262.7 230.9 226.0 231.1 March 241.7 270.0 228.2 224.0 244.9 June 253.3 274.3 NA 247.7 248.0 June 253.3 274.3 NA 247.7 248.2 July 257.3 272.2 NA 225.8 200.9 Schehr 258 200.9 276.3 276.9 248.0 Schehr 267.7 258.8 200.9 200.9 200.0 251.8 259.2 Ober 267.3 276.9 304.5		76.2	106.5	93.8	96.6	87.6
001 Average 103.8 133.6 121.1 137.7 125.0 003 Average 118.8 146.7 130.3 124.3 135.5 003 Average 118.8 146.7 130.3 124.3 135.5 005 Average 212.3 238.5 214.6 206.1 205.2 005 Average 229.1 268.1 241.1 239.5 238.5 007 January 228.4 262.7 224.3 220.9 239.1 March 241.7 270.0 228.2 224.0 244.9 April 254.1 281.2 231.5 238.1 248.0 June 253.0 274.4 NA 247.7 249.2 July 257.9 275.3 NA 226.7 248.0 July 257.9 275.3 NA 226.7 248.0 July 257.9 275.3 NA 226.7 254.3 August 257.3 276.2 NA 256.8 260.9<						
02 Average 91.9 120.4 106.0 106.7 112.9 03 Average 118.8 148.7 103.0 124.3 135.5 04 Average 149.5 174.9 159.4 152.4 154.8 06 Average 212.3 238.5 214.6 206.1 205.2 06 Average 239.1 268.1 241.1 238.5 228.0 231.1 07 January 228.4 262.7 220.9 229.3 239.1 March 241.7 270.0 228.2 224.0 244.9 April 281.2 231.5 238.1 248.0 May NA 282.4 237.4 244.9 248.0 June 257.3 275.3 NA 225.7 254.9 July 257.9 275.3 NA 225.6 220.9 September 283.6 284.6 250.7 256.8 260.9 October 287.0 321.5 288.0 277.5 304.5 301.1 309.8 Average 299.8 301.5						
03 Average 118.8 148.7 130.3 124.3 135.5 06 Average 212.3 238.5 214.6 206.1 205.2 06 Average 223.1 228.5 214.6 206.1 205.2 07 January 228.4 262.7 223.3 220.9 233.1 February 224.9 262.7 224.3 220.9 234.1 March 241.7 270.0 228.2 224.0 244.9 April 265.1 281.1 241.3 244.9 244.9 June 265.0 274.4 NA 247.7 244.9 244.0 June 265.0 276.3 NA 265.3 260.9 July 267.7 266.6 284.6 250.7 255.8 260.9 October 287.0 321.5 298.0 276.3 200.0 221.8 259.2 O8 January 296.0 329.1 299.3 301.3 313.8 760.4 316.1 308.8 312.5 306.4 316.1 308.2 362.5 362.5						
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OB Average 239.1 268.1 241.1 239.5 236.5 07 January 228.4 262.7 230.9 238.1 226.0 233.1 Fabruary 244.9 262.7 224.3 220.9 238.1 March 254.1 281.2 231.5 238.1 246.0 April 254.1 282.4 237.4 244.9 248.0 May NA 282.4 237.4 244.9 248.0 June 253.0 274.4 NA 255.7 254.9 August 257.3 275.3 NA 255.3 260.9 September 263.6 284.6 250.7 256.8 260.9 October 287.0 321.5 398.5 301.1 3098.8 Average 299.8 290.9 250.0 251.8 255.2 06 January 296.0 329.1 299.3 301.3 313.8 February 306.7 339.8 311.5						
OT January 228.4 262.7 230.9 228.0 231.1 February 224.9 262.7 224.3 220.9 239.1 March 241.7 270.0 228.2 224.0 244.9 April 254.1 281.2 231.5 238.1 248.0 June 253.0 274.4 NA 244.7 249.2 July 257.9 275.3 NA 256.3 250.9 September 283.6 224.6 250.7 256.8 260.9 October 287.0 321.5 298.0 276.3 277.5 November 302.5 335.7 304.5 301.1 308.8 Average 299.8 290.9 250.0 251.8 250.9 OB January 305.7 308.8 311.5 308.4 311.1 March 348.5 337.7 347.5 346.5 302.1 318.8 February 305.7 39.8 311.5 368.4<						
Februáry 224.9 262.7 224.3 220.9 238.1 March 241.7 270.0 228.2 224.0 244.9 April 253.1 281.1 248.0 244.9 244.9 May NA 282.2 224.0 244.9 244.0 May NA 282.4 237.4 244.9 244.0 June 253.0 274.4 NA 247.7 249.2 July 257.9 275.3 NA 256.3 260.9 September 263.6 284.6 250.7 255.8 260.9 October 302.5 335.7 304.5 301.1 309.8 Average 259.8 290.9 250.0 251.8 259.2 06 January 296.0 329.1 299.3 301.3 313.8 April 345.5 337.7 344.5 349.5 337.7 347.5 March 344.7 382.3 349.5 337.7 347.5 440.5 420.4 July 421.6 452.5 423.3 </td <td>06 Average</td> <td>239.1</td> <td>268.1</td> <td>241.1</td> <td>239.5</td> <td>236.5</td>	06 Average	239.1	268.1	241.1	239.5	236.5
March 241.7 270.0 228.2 224.0 244.9 April 254.1 281.2 231.5 238.1 248.0 May NA 282.4 237.4 244.9 248.0 June 255.0 274.4 NA 245.7 244.2 July 257.9 275.3 NA 225.7 244.9 August 257.3 276.2 NA 226.3 250.9 September 283.6 284.6 250.7 255.8 260.9 October 287.0 321.5 290.9 250.0 251.8 259.2 Øs January 296.0 329.1 299.3 301.3 313.8 February 305.7 339.8 311.5 308.4 318.1 March 346.7 382.3 349.5 337.7 347.5 April 399.8 432.0 399.1 399.9 392.1 399.9 392.1 June 417.8 455.5 423.7 430.9 420.4 July 421.6 422.6 423.7 430.9						
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April 254.1 281.2 231.5 238.1 246.0 May 253.0 274.4 NA 247.7 249.2 July 257.9 275.3 NA 225.7 254.9 August 257.3 276.2 NA 225.3 255.8 260.9 September 283.6 284.6 250.7 255.8 260.9 October 287.0 321.5 288.0 276.3 275.3 November 321.3 345.9 319.5 303.2 304.0 December 302.5 335.7 304.5 301.1 309.8 Average 290.0 250.0 251.8 259.2 O08 January 306.7 338.8 311.5 308.4 318.1 March 348.7 382.3 349.5 337.7 347.5 May 399.8 432.0 399.1 399.9 392.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6			270.0	228.2	224.0	244.9
May NA 282.4 237.4 244.9 244.0 June 253.0 274.4 NA 247.7 249.2 July 257.3 276.3 NA 252.7 254.9 August 257.3 276.2 NA 256.3 250.9 September 263.6 284.6 250.7 255.8 260.9 October 287.0 321.5 298.0 276.3 275.9 November 302.5 335.7 304.5 301.1 309.8 Average 259.8 290.9 250.0 251.8 259.2 008 January 266.0 329.1 299.3 301.3 313.8 February 305.7 339.8 311.5 308.4 318.1 March 348.7 382.3 344.5 337.7 347.5 April 375.5 404.3 374.0 365.8 362.6 May 39.9 432.0 399.9 322.1 30.9						
Jurie 253.0 274.4 NA 247.7 249.2 July 257.9 275.3 NA 252.7 254.9 August 257.3 276.2 NA 256.3 250.9 September 263.6 284.6 250.7 255.8 260.9 November 321.3 345.9 319.5 303.2 304.0 December 302.5 335.7 304.5 301.1 309.8 Average 259.8 290.9 250.0 251.8 259.2 008 January 296.0 329.1 299.3 301.3 313.8 February 305.7 339.8 311.5 308.4 318.1 March 346.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 365.8 362.6 May 399.8 432.0 399.9 392.1 July 446.5 422.3 446.5 422.4 366.7 July						
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August 257.3 276.2 NA 256.3 250.9 September 263.6 284.6 250.7 255.8 260.9 October 287.0 321.5 298.0 276.3 275.9 November 302.5 335.7 304.5 301.1 309.8 Average 259.8 290.9 250.0 251.8 259.2 008 January 296.0 329.1 299.3 301.3 313.8 February 306.7 338.8 311.5 308.4 318.1 March 348.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 366.8 362.6 May 399.8 432.0 399.1 399.9 392.1 June 417.6 452.5 423.3 446.5 429.6 August 384.4 412.4 383.6 422.1 366.6 September 356.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9<						
Sopiember 283.6 284.6 250.7 255.8 260.9 October 287.0 321.5 298.0 276.3 275.9 November 302.5 335.7 304.5 301.1 309.8 Average 259.8 200.9 250.0 251.8 259.2 08 January 296.0 329.1 299.3 301.3 313.8 February 305.7 339.8 311.5 308.4 318.1 March 348.7 382.3 374.0 365.8 362.6 May 399.8 432.0 399.1 399.9 392.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 362.2 362.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277						
October 287.0 321.5 298.0 276.3 275.9 November 321.3 345.9 319.5 303.2 304.0 December 302.5 335.7 304.5 301.1 309.8 Average 259.8 290.9 250.0 251.8 259.2 08 January 296.0 329.1 299.3 301.3 313.8 February 305.7 339.8 311.5 308.4 318.1 March 348.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 365.8 362.6 May 399.8 432.0 399.1 399.9 392.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 366.6 September 312.7 327.9 300.7 NA 316.9 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
November 321.3 345.9 319.5 303.2 304.0 Average 259.8 290.9 250.0 251.8 259.2 08 January 296.0 329.1 299.3 301.3 313.8 February 305.7 339.8 311.5 308.4 318.1 March 344.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 366.8 382.6 March 348.1 375.5 404.3 374.0 366.8 382.6 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 355.2 382.7 306.7 346.6 321.9 Obtoer 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2						
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Average 259.8 290.9 250.0 251.8 259.2 008 January 305.7 339.8 311.5 308.4 318.1 March 348.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 365.8 362.6 May 399.8 432.0 399.1 399.9 322.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.7 September 358.2 382.4 355.2 39.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277.9 December 187.8 228.4 190.2 222.6 245.0 Average 307.8 340.1 306.0 348.5 321.9 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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February 305.7 339.8 311.5 308.4 318.1 March 348.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 365.8 362.6 May 399.8 432.0 399.1 399.9 392.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 358.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277.9 December 187.8 228.4 190.2 222.6 245.0 O9 January 187.8 228.4 190.2 222.6 245.0 March 167.4 212.4 173.8 194.6 220.9 March 167.4 212.4 173.8 194.6 220.8	Average	259.8	290.9	250.0	251.8	259.2
March 348.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 365.8 362.6 May 399.8 432.0 399.1 399.9 392.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 368.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277.9 December 187.8 228.4 190.2 222.6 245.0 Average 307.8 340.1 306.0 348.5 321.9 09 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8	08 January	296.0	329.1	299.3	301.3	313.8
March 348.7 382.3 349.5 337.7 347.5 April 375.5 404.3 374.0 365.8 362.6 May 399.8 432.0 399.1 399.9 392.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 368.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277.9 December 187.8 228.4 190.2 222.6 245.0 Average 307.8 340.1 306.0 348.5 321.9 09 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8	February	305.7	339.8	311.5	308.4	318.1
April 375.5 404.3 374.0 365.8 362.6 May 399.8 432.0 399.1 399.9 392.1 June 417.8 445.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 358.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 187.8 228.4 190.2 222.2 245.0 Average 307.8 340.1 306.0 348.5 321.9 09 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8 April 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2 </td <td></td> <td>348.7</td> <td>382.3</td> <td>349.5</td> <td>337.7</td> <td>347.5</td>		348.7	382.3	349.5	337.7	347.5
May 399.8 432.0 399.1 399.9 392.1 June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 358.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277.9 December 187.8 228.4 190.2 222.6 245.0 Average 307.8 340.1 306.0 348.5 321.9 09 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8 April 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2		375.5	404.3			
June 417.8 454.5 423.7 430.9 420.4 July 421.6 452.5 429.3 446.5 429.6 August 384.4 412.4 383.6 422.1 386.6 September 368.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277.9 December 187.8 228.4 190.2 222.6 245.0 Average 307.8 340.1 306.0 348.5 321.9 09 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8 April 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2 July 212.3 237.8 214.9 236.2 220.9						
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August 384.4 412.4 383.6 422.1 386.6 September 358.2 382.4 355.2 389.7 366.7 October 312.7 327.9 300.7 NA 316.9 November 245.0 284.1 240.2 262.2 277.9 December 187.8 228.4 190.2 222.6 245.0 Average 307.8 340.1 306.0 348.5 321.9 09 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8 April 186.3 238.3 199.7 214.0 200.9 May 187.8 247.3 204.6 225.6 216.2 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 235.4 237.0 236.2						
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December 187.8 228.4 190.2 222.6 245.0 Average 307.8 340.1 306.0 348.5 321.9 099 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.9 May 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 245.0 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7	October	312.7	327.9	300.7		316.9
Average 307.8 340.1 306.0 348.5 321.9 09 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.9 May 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA 246.4 November R 235.4 R 282.2 R 247.4 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 2		245.0	284.1	240.2	262.2	277.9
Average 307.8 340.1 306.0 348.5 321.9 009 January 187.9 238.9 193.9 216.0 242.2 February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.9 May 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2 June 214.8 247.3 204.6 225.6 216.2 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 260.9 </td <td>December</td> <td>187.8</td> <td>228.4</td> <td>190.2</td> <td>222.6</td> <td>245.0</td>	December	187.8	228.4	190.2	222.6	245.0
February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8 April 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA 246.4 November R 235.4 R 282.2 R 247.4 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 260.9 Average 204.8 248.6 213.8 250.4 238.6		307.8	340.1	306.0	348.5	321.9
February 176.2 225.4 182.8 NA 230.7 March 167.4 212.4 173.8 194.6 220.8 April 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA 246.4 November R 235.4 R 282.2 R 247.4 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 260.9 Average 204.8 248.6 213.8 250.4 238.6	09 January	187.9	238.9	193.9	216.0	242.2
March 167.4 212.4 173.8 194.6 220.8 April 186.3 238.3 199.7 214.0 220.9 May 187.8 247.3 204.6 225.6 216.2 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 335.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6						
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May 187.8 247.3 204.6 225.6 216.2 June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 246.4 November R 235.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6						
June 214.8 254.2 226.8 250.6 230.2 July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 260.9 Average 204.8 248.6 213.8 250.4 238.6						
July 212.3 237.8 214.9 236.2 225.0 August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 335.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6						
August 215.8 251.9 232.5 255.4 237.0 September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6						
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September 227.1 267.3 235.6 NA 234.1 October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6	August	215.8	251.9	232.5	255.4	237.0
October 233.3 275.0 246.9 NA 246.4 November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6		227.1	267.3	235.6	NA	234.1
November R 245.9 R 287.1 R 255.0 NA R 260.7 December R 235.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6						
December R 235.4 R 282.2 R 247.4 NA R 262.9 Average 204.8 248.6 213.8 250.4 238.6						
Average 204.8 248.6 213.8 250.4 238.6		R 235 4				
-						
D10 January NA NA NA ^L 268.6	-	NA	NA	NA	NA	E 268.6

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

^a See "Nominal Price" in Glossary.

See Normal Price in Glossary.
 R=Revised. NA=Not available. E=Estimate.
 Notes: • States are grouped in Tables 9.8a, 9.8b, and 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

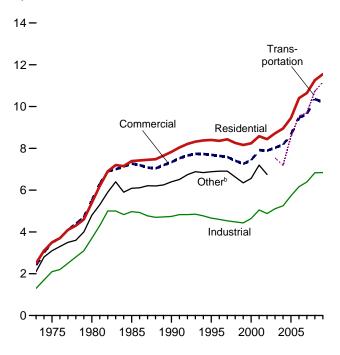
6, "Historical Petroleum Prices," at end of section.

Web Page: See http://www.eia.doe.gov/emeu/mer/prices.html for all available data beginning in 1978. Sources: • 1978-2008: EIA, Petroleum Marketing Annual 2008, Table 15.

• 2009: EIA, Petroleum Marketing Monthly, March 2010, Table 15.

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

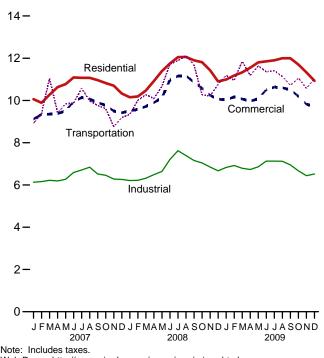
By Sector, 1973-2009



^aSee "Nominal Price" in Glossary.

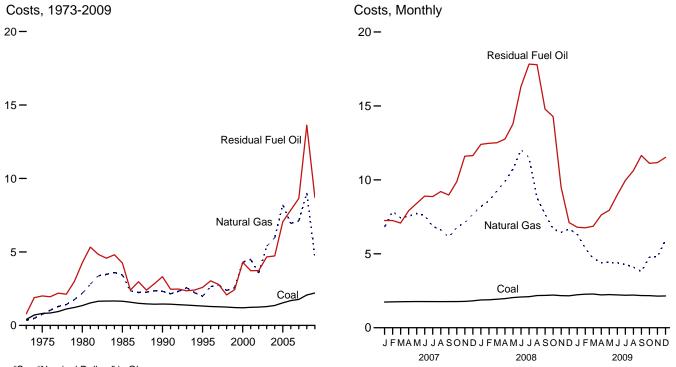
^bPublic street and highway lighting, interdepartmental sales, other sales to public authorities, agricultural and irrigation, and transportation including railroads and railways.

By Sector, Monthly



Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: Table 9.9.

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



^aSee "Nominal Dollars" in Glossary.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: Table 9.10.

Table 9.9 Average Retail Prices of Electricity

	Residential	Commercial ^b	Industrialc	Transportation ^d	Other ^e	Total
973 Average	2.5	2.4	1.3	NA	2.1	2.0
975 Average	3.5	3.5	2.1	NA	3.1	2.9
980 Average	5.4	5.5	3.7	NA	4.8	4.7
985 Average	7.39	7.27	4.97	NA	6.09	6.44
				NA		
990 Average	7.83	7.34	4.74		6.40	6.57
995 Average	8.40	7.69	4.66	NA	6.88	6.89
996 Average	8.36	7.64	4.60	NA	6.91	6.86
997 Average	8.43	7.59	4.53	NA	6.91	6.85
998 Average	8.26	7.41	4.48	NA	6.63	6.74
999 Average	8.16	7.26	4.43	NA	6.35	6.64
000 Average	8.24	7.43	4.64	NA	6.56	6.81
001 Average	8.58	7.92	5.05	NA	7.20	7.29
002 Average	8.44	7.89	4.88	NA	6.75	7.20
003 Average	8.72	8.03	5.11	7.54		7.44
004 Average	8.95	8.17	5.25	7.18		7.61
005 Average	9.45	8.67	5.73	8.57		8.14
006 Average	10.40	9.46	6.16	9.54		8.90
)07 January	10.06	9.12	6.13	8.92		8.71
February	9.89	9.34	6.16	9.38		8.74
March	10.27	9.35	6.22	11.04		8.80
	10.63	9.38	6.19	9.42		8.82
April						
May	10.77	9.51	6.27	9.84		8.96
June	11.09	9.95	6.59	9.88		9.45
July	11.07	10.14	6.71	10.57		9.64
August	11.07	10.07	6.84	9.98		9.68
September	10.96	9.90	6.52	9.76		9.43
October	10.82	9.77	6.46	9.61		9.17
November	10.70	9.50	6.28	8.76		8.94
December	10.33	9.42	6.26	9.19		8.91
Average	10.65	9.65	6.39	9.70		9.13
008 January	^R 10.15	^R 9.51	^R 6.21	^R 9.34		^R 8.92
February	^R 10.19	^R 9.58	^R 6.22	^R 10.01		^R 8.92
March	^R 10.47	R 9.72	^R 6.32	^R 10.27		R 9.03
April	R 10.92	R 9.90	R 6.49	R 10.09		^R 9.21
May	^R 11.39	^R 10.13	^R 6.64	^R 10.67		^R 9.47
	^R 11.75		^R 7.21	^R 11.72		R 10.26
June		^R 10.97				
July	^R 12.05	^R 11.16	^R 7.62	^R 11.89		R 10.65
August	^R 12.06	^R 11.17	^R 7.39	R 12.12		^R 10.58
September	^R 11.90	^R 10.86	^R 7.16	^R 11.67		^R 10.26
October	^R 11.81	^R 10.58	^R 7.04	^R 10.27		^R 9.96
November	^R 11.43	^R 10.25	^R 6.85	^R 10.21		^R 9.68
December	^R 10.90	^R 10.06	^R 6.67	^R 10.76		^R 9.57
Average	^R 11.26	^R 10.36	^R 6.83	^R 10.74		^R 9.74
009 January	^R 10.99	10.03	^R 6.83	^R 11.19		^R 9.72
February	^R 11.18	^R 10.17	^R 6.92	^R 10.95		^R 9.80
March	^R 11.33	10.07	^R 6.79	^R 11.85		^R 9.72
April	^R 11.55	^R 9.97	^R 6.73	^R 11.19		^R 9.65
May	^R 11.80	R 10.08	R 6.86	^R 11.64		^R 9.83
June	^R 11.85	10.51	^R 7.13	^R 11.36		^R 10.21
	^R 11.90	^R 10.63	^R 7.13	^R 11.41		R 10.37
July						
August	^R 12.00	10.60	^R 7.12	R 11.13		^R 10.36
September	^R 12.00	_ 10.51	^R 6.95	^R 10.72		^R 10.18
October	^R 11.70	^R 10.20	^R 6.67	^R 11.06		^R 9.77
November	11.33	9.82	6.44	10.58		9.42
December	10.93	9.73	6.52	11.01		9.44
Average	11.55	10.21	6.84	11.17		9.89
						0.00

(Nominal Cents^a per Kilowatthour, Including Taxes)

^a See "Nominal Price" in Glossary.
 ^b Commercial sector. For 1973-2002, prices exclude public street and highway

lighting, interdepartmental sales, and other sales to public authorities. ^c Industrial sector. For 1973-2002, prices exclude agriculture and irrigation.

d

 ^d Transportation sector, including railroads and railways.
 ^e Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railwavs.

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

miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods. • See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values. • Geographic coverage is the 50 States and the District of Columbia.

States and the District of Colúmbia.
Web Page: See http://www.eia.doe.gov/emeu/mer/prices.html for all available data beginning in 1973.
Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • October 1977-February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March 1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement."
1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." • 1984-1992: EIA, Form EIA-861, "Annual Electric Utility Report." • 1993 forward: EIA, *Electric Power Monthly*, March 2010, Table 5.3.

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

(Nominal Dollars^a per Million Btu, Including Taxes)

			Petroleum							
	Coal	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total ^d	Natural Gas ^e	All Fossil Fuels			
973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48			
075 Average	.81	2.01	NA	NA	2.02	.75	1.04			
	1.35	4.27	NA	NA	4.35	2.20	1.93			
80 Average										
85 Average	1.65	4.24	NA	NA	4.32	3.44	2.09			
90 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69			
95 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45			
96 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52			
97 Average	1.27	2.79	4.49	.91	2.73	2.76	1.52			
98 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44			
99 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44			
000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74			
01 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73			
02 Average ^g	1.25	3.73	5.34	.78	3.34	3.56	1.86			
03 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28			
04 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48			
05 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25			
06 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02			
007 January	1.74	7.25	11.87	1.54	5.78	6.81	2.94			
February	1.75	7.25	11.95	1.64	6.63	7.87	3.23			
March	1.76	7.08	12.85	1.50	6.21	7.44	3.00			
April	1.77	7.91	14.04	1.53	6.64	7.54	3.18			
May	1.77	8.41	14.65	1.51	7.16	7.73	3.30			
		8.90					3.44			
June	1.77		14.79	1.57	7.75	7.60				
July	1.76	8.87	15.24	1.43	6.83	6.87	3.41			
August	1.77	9.21	15.25	1.54	8.05	6.62	3.50			
September	1.77	8.98	15.68	1.55	7.37	6.12	3.11			
October	1.77	9.88	16.61	1.37	7.39	6.78	3.13			
November	1.78	11.60	18.86	1.47	8.48	7.11	3.07			
December	1.82	11.64	18.65	1.45	8.14	7.68	3.28			
Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23			
08 January	^R 1.88	^R 12.40	^R 19.43	^R 1.62	^R 9.80	^R 8.19	^R 3.73			
February	^R 1.89	R 12.47	^R 20.16	R 1.82	R 10.59	R 8.58	^R 3.66			
	1.93	R 12.51	^R 21.09	^R 1.82	^R 9.00	^R 9.25	^R 3.83			
March	1.93 R 1.93									
April	^R 1.97	R 12.76	^R 23.09	^R 1.79	^R 10.56	^R 9.89	^R 4.11			
Мау	^R 2.04	^R 13.78	^R 25.99	^R 1.96	^R 11.55	^R 10.73	^R 4.33			
June	^R 2.08	^R 16.31	^R 26.44	^R 2.01	^R 14.19	^R 12.04	^R 5.45			
July	^R 2.10	^R 17.83	^R 27.76	^R 1.96	^R 13.78	^R 11.51	^R 5.45			
August	2.18	^R 17.79	^R 25.04	^R 2.75	^R 13.91	^R 8.79	^R 4.46			
September	2.19	^R 14.79	R 23.35	R 2.49	^R 12.01	^R 7.68	^R 3.91			
October	R 2.21	^R 14.28	^R 19.53	R 2.39	^R 10.33	^R 6.69	R 3.50			
November	2.21	^R 9.50	^R 15.75	^R 2.38	^R 7.64	^R 6.45	3.28			
	2.17	^R 7.11	^R 12.39	^R 2.30	^R 6.40	^R 6.68	3.20 ^R 3.37			
December Average	2.16 2.07	R 13.62	R 21.46	^R 2.30	R 10.87	R 9.02	^R 3.37			
-	Raco		R 44 45	R a ca	R c co	R c co				
09 January	^R 2.23	^R 6.80	^R 11.45	^R 2.06	^R 6.52	^R 6.33	^R 3.39			
February	^R 2.27	^R 6.76	^R 11.08	^R 1.83	^R 6.02	^R 5.39	3.12			
March	^R 2.28	^R 6.87	^R 10.61	^R 1.66	^R 5.55	4.69	^R 2.96			
April	^R 2.22	^R 7.63	^R 11.39	^R 1.19	^R 5.80	^R 4.41	^R 2.84			
	^R 2.24	^R 7.95	^R 11.91	^R 1.72	^R 6.04	^R 4.43	^R 2.93			
June	R 2.22	R 8.99	^R 13.44	^R 1.58	^R 7.14	^R 4.39	R 3.00			
July	R 2.20	^R 9.96	^R 14.07	^R 1.61	^R 7.40	4.28	R 3.01			
	^R 2.21	^R 10.62	^R 14.72	^R 1.84	^R 7.56	^R 4.10	R 2.97			
August										
September	^R 2.18	^R 11.65	^R 15.03	R 1.38	^R 6.64	3.80	R 2.78			
October	2.17	^R 11.12	^R 15.49	^R 1.55	^R 7.09	4.78	^R 3.02			
November	2.14	11.17	15.40	1.26	7.80	4.81	2.94			
December	2.15	11.52	15.73	1.58	8.21	5.93	3.38			
Average	2.21	8.71	13.17	1.62	6.79	4.70	3.03			

 $^a\,$ See "Nominal Dollars" in Glossary. $^b\,$ For 1973-2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

 Smail amounts of fuel oil no. 4).
 ^c For 1973-2001, electric utility data are for light oil (fuel oil nos. 1 and 2).
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973-1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973-1989, data do not include e Natural ga

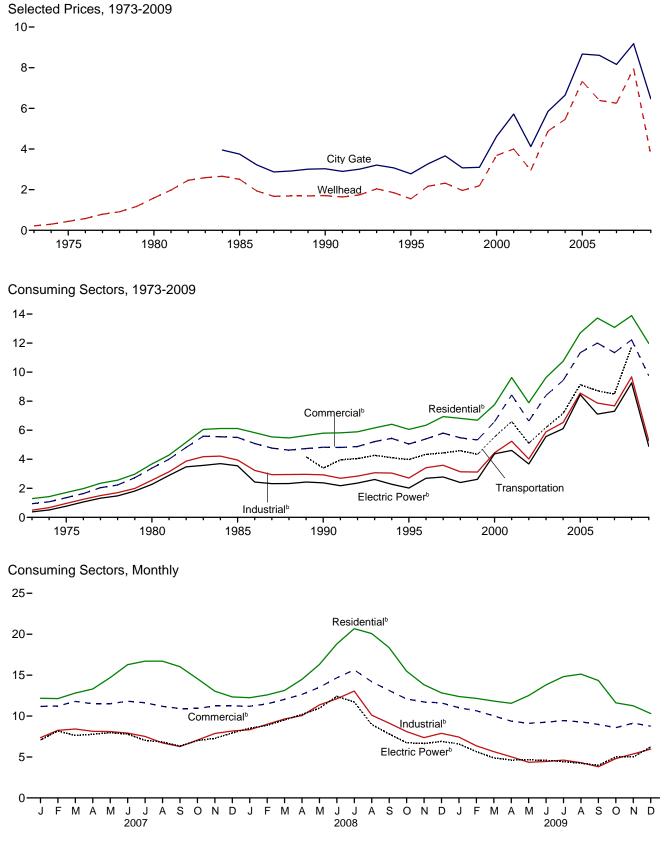
^e Natural gas, plus a small amount of supplemental gaseous fuels. For 1973-2000, data also include a small amount of blast furnace gas and other gases derived from fossil fuels. $$^{\rm f}$$ Weighted average of costs shown under "Coal," "Petroleum," and "Natural

Gas." ⁹ Through 2001, data are for electric utilities only. Beginning in 2002, data also ⁹ 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.
 R=Revised. 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.doe.gov/emeu/mer/prices.html for all available data beginning in 1973. Sources: See end of section.

(Nominal Dollars^a per Thousand Cubic Feet)



^a See "Nominal Dollars" in Glossary. ^bIncludes taxes. Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: Table 9.11.

Table 9.11 Natural Gas Prices

(Nominal Dollars^a per Thousand Cubic Feet)

			Consuming Sectors ^b								
		Citv	Res	idential	Com	mercialc	Ind	ustriald	Transportation	Electi	ric Power ^e
	Wellhead Price	Gate Price	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Pricef	Percentage of Sector ^g	Vehicle Fuel ^h Price ^f	Price ^f	Percentage of Sector ^{g,i}
1973 Average	0.22	NA	1.29	NA	0.94	NA	0.50	NA	NA	0.38	92.1
1975 Average	.44	NA	1.71	NA	1.35	NA	.96	NA	NA	.77	96.1
1980 Average	1.59	NA	3.68	NA	3.39	NA	2.56	NA	NA	2.27	96.9
1985 Average	2.51 1.71	3.75 3.03	6.12 5.80	NA 99.2	5.50 4.83	NA 86.6	3.95 2.93	68.8 35.2	NA 3.39	3.55 2.38	94.0 76.8
1990 Average 1995 Average	1.71	2.78	5.80	99.2 99.0	4.83	76.7	2.93	24.5	3.98	2.38	76.8
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		3.10	6.69	95.2	5.33	66.1	3.12	18.8	4.34	2.62	58.3
2000 Average		4.62	7.76	92.6	6.59	63.9	4.45	19.8	5.54	4.38	50.5
2001 Average	4.00	5.72	9.63	92.4	8.43	66.0	5.24	20.8	6.60	4.61	40.2
2002 Average	2.95 4.88	4.12 5.85	7.89 9.63	97.9 97.5	6.63 8.40	77.4 78.2	4.02 5.89	22.7 22.1	5.10 6.19	^e 3.68 5.57	83.9 91.2
2003 Average 2004 Average	4.88 5.46	5.85	9.63	97.5 97.7	8.40 9.43	78.2 78.0	5.89 6.53	22.1 23.7	6.19 7.16	5.57 6.11	91.2 89.8
2005 Average		8.67	12.70	98.2	11.34	82.1	8.56	24.1	9.14	8.45	89.1
2006 Average		8.61	13.73	98.1	12.00	80.8	7.87	23.4	8.72	7.11	93.4
2007 January		^R 7.88	^R 12.17	NA	^R 11.18	83.2	^R 7.36	^R 22.7	NA	7.08	93.0
February		^R 8.57	R 12.13	NA	R 11.22	^R 84.0	8.25	23.0	NA	8.18	92.3
March	^R 6.65	^R 8.79	R 12.81	NA	11.79 ^R 11.50	83.5	^R 8.42	22.4 ^R 22.3	NA	7.64	93.8
April		8.20 ^R 8.41	^R 13.31 ^R 14.69	NA NA	^R 11.50	81.2 77.9	8.14 ^R 8.11	R 23.2	NA NA	7.77 7.96	94.2 93.2
May June		^R 8.45	R 16.28	NA	R 11.81	76.2	7.92	R 23.8	NA	7.80	93.0
July		R 8.02	R 16.71	NA	R 11.63	74.3	R 7.51	R 22.1	NA	7.03	91.7
August		R 7.60	R 16.71	NA	^R 11.19	72.5	6.72	22.3	NA	6.83	89.0
September	^R 5.30	^R 7.00	^R 16.03	NA	^R 10.92	^R 72.4	6.28	^R 21.2	NA	6.33	92.0
October	^R 5.78	^R 7.43	^R 14.57	NA	^R 10.93	_ 74.7	7.06	^R 21.3	NA	7.00	91.8
November		^R 8.14	^R 13.04	NA	^R 11.23	^R 79.6	7.87	20.9	NA	7.28	93.1
December Average		^R 8.27 ^R 8.16	^R 12.34 ^R 13.08	NA 98.0	^R 11.24 ^R 11.34	^R 82.3 ^R 80.4	^R 8.18 7.68	^R 21.4 ^R 22.2	NA ^R 8.50	7.93 7.31	92.9 92.2
2008 January		8.37	^R 12.24	NA	^R 11.20	^R 82.9	^R 8.33	^R 20.7	NA	^R 8.52	^R 100.7
February		8.91	R 12.58	NA	^R 11.49	^R 82.6	R 9.00	R 20.6	NA	R 8.87	^R 101.4
March	^R 8.44	9.49	R 13.13	NA	^R 12.04	R 82.6	^R 9.64	R 21.6	NA	R 9.53	R 101.4
April	^R 9.04	9.84	^R 14.49	NA	^R 12.65	^R 80.0	^R 10.06	^R 22.1	NA	^R 10.19	^R 101.9
May	^R 10.15	11.05	^R 16.31	NA	^R 13.51	^R 76.9	^R 11.36	^R 21.4	NA	^R 10.97	^R 101.5
June	^R 10.79	11.85	^R 18.82	NA	^R 14.67	^R 76.6	^R 12.11	^R 20.9	NA	^R 12.41	^R 100.9
July		12.48	R 20.68	NA	R 15.64	^R 73.6	13.05	R 20.7	NA	R 11.71	^R 100.3
August		10.20 8.99	^R 20.08 ^R 18.36	NA NA	^R 14.20 ^R 13.13	^R 72.5 ^R 72.7	^R 10.11 ^R 9.13	^R 20.5 ^R 19.1	NA NA	^R 8.97 ^R 7.81	^R 100.8 ^R 101.1
September October		7.80	^R 15.49	NA	^R 12.08	^R 75.6	^R 8.11	^R 19.0	NA	^R 6.74	^R 101.1
November		7.93	R 13.82	NA	R 11.72	^R 79.6	^R 7.36	^R 19.6	NA	^R 6.64	R 101.3
December		8.16	R 12.84	NA	^R 11.61	R 82.1	R 7.89	R 20.0	NA	R 6.90	R 101.1
Average		9.18	^R 13.89	^R 97.9	^R 12.23	R 79.9	^R 9.67	R 20.5	^R 11.75	^R 9.26	^R 101.1
2009 January		^R 7.98	12.39	NA	^R 11.02	78.9	7.43	18.9	NA	^R 6.59	^R 101.1
February	^E 4.19 ^E 3.72	^R 7.25 6.83	^R 12.16 ^R 11.83	NA NA	10.65 ^R 10.02	78.2 76.5	^R 6.37 ^R 5.65	^R 18.9 ^R 18.4	NA NA	^R 5.65 ^R 4.89	^R 101.3 ^R 102.1
March		5.68	^R 11.83	NA	^R 9.38	76.5	^R 5.03	^R 17.7	NA	^R 4.63	^R 102.1
May		5.68	R 12.50	NA	^R 9.11	67.7	4.35	18.0	NA	R 4.66	^R 101.6
June	^E 3.45	5.53	13.81	NA	9.25	68.5	R 4.45	17.7	NA	^R 4.58	R 101.1
July	E 3.43	5.68	^R 14.82	NA	^R 9.45	60.2	4.62	^R 17.7	NA	4.43	100.9
August	^E 3.14	_ 5.59	15.12	NA	^R 9.29	60.7	4.31	17.3	NA	^R 4.25	^R 100.8
September	E 2.92	^R 5.36	^R 14.34	NA	8.98	61.4	3.81	^R 17.1	NA	3.98	^R 100.6
October		5.65	11.62	NA	^R 8.59	67.3	4.80	^R 16.6	NA	^R 5.01	102.6
November		^R 6.33	11.25	NA	9.13	69.4	5.37	16.6	NA	^R 5.00	R 101.9
December		6.24 6.47	10.31 11.98	NA ^E 98.0	8.76 9.75	75.5 72.9	5.97 5.27	17.7 17.7	NA NA	6.23 4.89	100.2 101.2
Average	- 3.71	0.47	11.90	- 90.0	9.75	12.9	5.27	17.7	INA	4.09	101.2

^a See "Nominal Dollars" in Glossary.
 ^b See Note 9, "Natural Gas Prices," at end of section.
 ^c Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^d Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electric utilities only; beginning in 2002, data also include independent power producers. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.
 ^f Includes taxes.

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

^h Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the cost of gas in the operation of fleet vehicles. ⁱ Percentages exceed 100 percent when reported natural gas receipts are

Percentages exceed 100 percent when reported natural gas receipts are greater than reported natural gas consumption-this can occur when combined-heat-and-power plants report fuel receipts related to non-electric

Combined-heat-and-power plants report fuel receipts related to non-electric generating activities. R=Revised. NA=Not available. E=Estimate. Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 9, "Natural Gas Prices," at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia. Web Page. See http://www.eia.doe.gov/ameu/meg/mei/origes.html for all available

Web Page: See http://www.eia.doe.gov/emeu/mer/prices.html 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." 1978–2008: U.S. Energy Information Administration (EIA), *Petroleum Marketing Annual 2008*, Table 1.

2009 and 2010: EIA, *Petroleum Marketing Monthly*, March 2010, Table 1.

F.O.B. and Landed Cost of Imports

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

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

1978–2008: EIA, *Petroleum Marketing Annual 2008*, Table 1.

2009 and 2010: EIA, *Petroleum Marketing Monthly*, March 2010, Table 1.

Refiner Acquisition Cost

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

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

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

1978–2008: EIA, *Petroleum Marketing Annual 2008*, Table 1.

2009 and 2010: EIA, *Petroleum Marketing Monthly*, March 2010, Table 1.

Table 9.2 Sources

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." October 1977–December 1977: U.S. Energy Information Administration (EIA), Frorm FEA-F701-M-0, "Transfer Pricing Report."

1978–2008: EIA, *Petroleum Marketing Annual 2008*, Table 21.

2009: EIA, *Petroleum Marketing Monthly*, March 2010, Table 21.

Table 9.10 Sources

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

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

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

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

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

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

2008 and 2009: EIA, *Electric Power Monthly*, March 2010, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.11 Sources

All Prices Except Vehicle Fuel and Electric Power

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

2003 forward: EIA, *Natural Gas Monthly (NGM)*, February 2010, Table 3.

Vehicle Fuel Price

EIA, NGA, annual reports.

Electric Power Sector Price

1973–1998: EIA, *NGA 2000*, Table 96. 1999–2002: EIA, *NGM*, October 2004, Table 4. 2003-2007: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report." 2008 and 2009: Form EIA-923, "Power Plant Operations Report."

Percentage of Residential Sector

1989–2008: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." 2009: Estimated by EIA as the average of the three previous annual values.

Percentage of Commercial Sector

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

2003 forward: EIA, NGM, February 2010, Table 3.

Percentage of Industrial Sector

1982–2002: EIA, *NGA*, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers. 2003 forward: EIA, *NGM*, February 2010, Table 3.

Percentage of Electric Power Sector

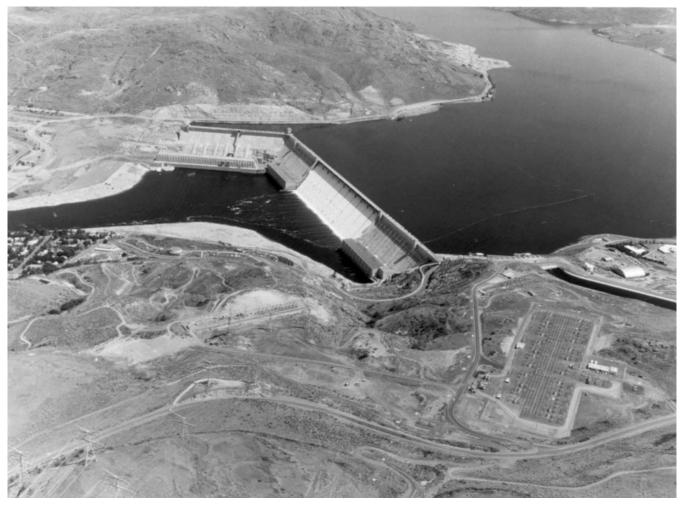
1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973-1988,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

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

2008 and 2009: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see *Monthly Energy Review*, Table 7.4b).



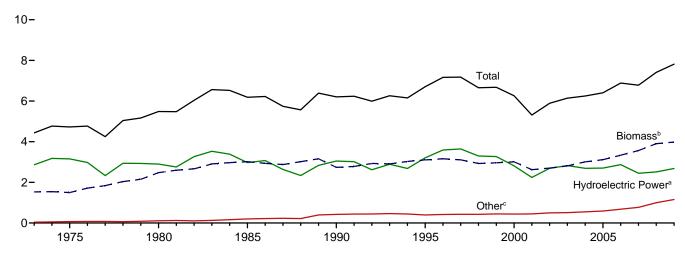
Renewable Energy

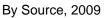


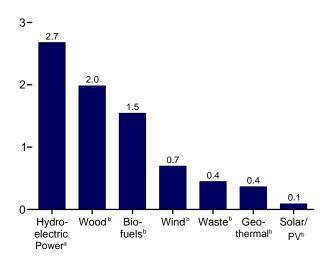
Grand Coulee Dam, Washington State. Source: U.S. Bureau of Reclamation.

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

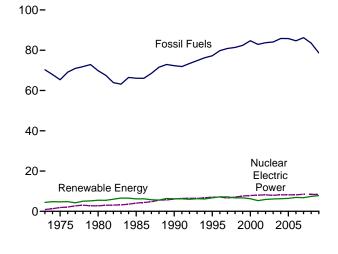
Total and Major Sources, 1973-2009



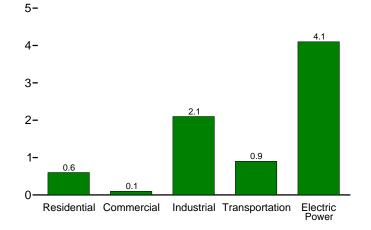




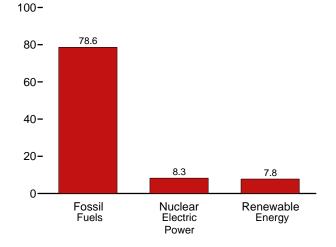




By Sector, 2009



Compared With Other Resources, 2009



^aConventional hydroelectric power. ^bSee Table 10.1 for definition. ^cGeothermal, solar/PV, and wind. Web Page: http://www.eia.doe.gov/emeu/mer/renew.html. Sources: Tables 1.3, 10.1, and 10.2a-c.

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	a					Consumpti	on			
	Bio	mass	Total	Hudro					Bior	nass		Total
	Bio- fuels ^b	Total ^c	Renew- able Energy ^d	Hydro- electric Power ^e	Geo- thermal ^f	Solar/ PV ^g	Wind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	Renew- able Energy
1973 Total	NA	1,529	4,433	2,861	43	NA	NA	1,527	2	NA	1,529	4,433
1975 Total	NA	1,499	4,723	3,155	70	NA	NA	1,497	2	NA	1,499	4,723
1980 Total	NA	2,475	5,485	2,900	110	NA	NA	2,474	2	NA	2,475	5,485
1985 Total	^R 93	^R 3,016	^R 6,185	2,970	198	(s)	(s)	2,687	236	^R 93	^R 3,016	^R 6,185
1990 Total	^R 111	^R 2,735	^R 6,206	3,046	336	60	29	2,216	408	^R 111	^R 2,735	^R 6,206
1995 Total	^R 198	^R 3,099	^R 6,701	3,205	294	70	33	2,370	531	^R 200	^R 3,101	^R 6,703
1996 Total	^R 141	^R 3,155	^R 7,165	3,590	316	71	33	2,437	577	^R 143	^R 3,157	^R 7,166
1997 Total	^R 186	^R 3,108	^R 7,177	3,640	325	70	34	2,371	551	^R 184	^R 3,105	^R 7,175
1998 Total	^R 202	^R 2,929	^R 6,655	3,297	328	70	31	2,184	542	^R 201	R 2,928	^R 6,654
1999 Total	^R 211	^R 2,965	^R 6,678	3,268	331	69	46	2,214	540	R 209	^R 2,963	^R 6,677
2000 Total	^R 233	^R 3,006	^R 6,257	2,811	317	66	57	2,262	511	^R 236	^R 3,008	^R 6,260
2001 Total	^R 254	^R 2,624	^R 5,312	2,242	311	65	70	2,006	364	R 253	R 2,622	^R 5,311
2002 Total	^R 308	^R 2,705	^R 5,892	2,689	328	64	105	1,995	402	^R 303	R 2,701	^R 5,888
2003 Total	^R 402	^R 2,805	^R 6,139	2,825	331	64	115	2,002	401	^R 404	^R 2,807	^R 6,141
2004 Total	R 487	R 2,998	^R 6,235	2,690	341	65	142	2,121	389	^R 500	^R 3,010	^R 6,247
2005 Total	^R 564	^R 3,104	^R 6,393	2,703	343	66	178	2,136	403	R 577	^R 3,117	^R 6,406
2006 Total	R 720	^R 3,286	^R 6,834	2,869	343	72	264	2,152	414	R 771	^R 3,337	^R 6,885
2007 January	^R 72	^R 297	^R 616	257	31	6	24	187	38	^R 77	^R 302	^R 621
February	R 67	^R 268	^R 509	184	27	6	25	167	34	^R 70	R 271	^R 512
March	^R 74	R 292	^R 596	239	29	7	30	179	38	R 77	^R 294	^R 599
April	^R 73	R 285	^R 587	236	28	7	31	178	34	^R 73	^R 284	^R 586
May	^R 79	R 293	^R 614	257	28	7	29	178	35	^R 79	R 292	^R 614
June	R 79	R 288	^R 576	226	29	7	26	175	35	^R 81	R 291	^R 578
July	^R 84	R 302	^R 583	222	30	7	21	183	36	^R 83	R 302	^R 582
August	^R 87	R 302	^R 563	197	30	7	27	179	36	^R 87	R 302	^R 563
September	^R 86	R 294	^R 504	146	29	7	28	174	35	R 85	R 293	^R 503
October	R 90	^R 306	^R 523	146	30	7	33	180	36	R 93	R 309	^R 526
November	^R 91	^R 304	^R 525	155	29	6	31	177	36	R 90	R 303	^R 523
December	^R 95	^R 319	^R 571	181	30	6	34	186	37	^R 97	^R 321	^R 573
Total	R 978	^R 3,550	R 6,767	2,446	349	81	341	2,142	430	^R 991	^R 3,564	^R 6,780
2008 January	^R 102	^R 335	^R 618	^R 205	29	7	^R 42	^R 195	^R 38	^R 98	^R 331	^R 615
February	R 98	^R 304	^R 561	^R 185	R 27	7	R 38	^R 169	R 37	^R 97	^R 304	^R 560
March	^R 110	^R 325	^R 624	^R 214	30	8	R 47	^R 175	R 40	^R 103	^R 318	^R 617
April	^R 108	^R 318	R 626	R 219	R 30	8	^R 51	^R 172	R 38	^R 108	^R 317	^R 625
May	R 118	328	R 688	R 268	31	8	R 53	R 173	R 38	R 114	325	R 684
June	^R 112	^R 317	^R 694	R 288	R 30	8	^R 51	^R 168	R 37	R 111	^R 316	^R 693
	^R 122	R 335	^R 665	R 252	31	8	R 39	^R 174	R 39	^R 121	^R 335	^R 665
July	R 128	^R 338	^R 618	R 209	31	8	R 32	^R 172	R 38	^R 126	^R 336	^R 617
September	^R 123	^R 323	^R 551	R 159	30	8	R 31	^R 164	^R 36	^R 124	^R 324	^R 552
October	^R 127	^R 334	^R 572	^R 152	31	8	R 47	^R 170	R 38	R 129	R 336	^R 574
November	R 127	^R 331	^R 572	^R 154	30	7	^R 49	^R 166	R 38	R 125	R 329	^R 570
December	R 126	R 327	R 636	R 206	R 31	7	R 65	^R 162	R 39	R 129	R 330	R 639
Total	^R 1,400	^R 3,916	^R 7,425	^R 2,511	R 360	91	^R 546	R 2,060	R 457	^R 1,385	R 3,902	^R 7,410
	^R 119	^R 323	^R 656	^R 235	^R 32	7	^R 59	^R 167	^R 38	^R 116	^R 320	^R 653
2009 January	^R 119	R 296	^R 564	R 176	R 32 R 29	7	^R 59	^R 153	R 38	^R 116 ^R 101	R 287	^R 554
February	^R 120	R 324	^R 645	^R 214	R 32		^R 68		R 42	R 101 R 120	R 324	^R 646
March	^R 120 ^R 117		** 045 R cco	R 214 R 250	R 29	8 8	^R 72	162 8 166	R 36	^R 120 ^R 120	·· 324 R 242	^R 646
April		R 309	R 668	11 250 R 200	R 29 R 30			^R 156		^R 120 ^R 129	R 312	
May	^R 126 ^R 126	R 324	R 712	^R 290 ^R 287	11 30 R 20	8	^R 60 ^R 53	R 160	^R 38 ^R 38	129 R 120	R 327	^R 715
June		R 324	R 702		^R 30 ^R 31	8		R 160		R 128	R 326	R 703
July	^R 137	R 348	^R 659	R 226		8	^R 46	R 172	R 38	R 137	R 348	^R 659
August	^R 138	354	^R 633	^R 189	30	8	^R 52	R 177	R 39	R 137	R 353	^R 632
September	^R 133	R 334	^R 584	R 170	R 30	8	R 43	^R 165	R 36	R 132	R 332	^R 583
October	^R 141	^R 348	^R 642	^R 194	^R 31	8	R 62	^R 171	R 36	^R 141	R 348	^R 643
November	^R 146	^R 351	^R 658	^R 206	^R 31	7	^R 63	^R 168	^R 37	^R 142	^R 347	^R 654
December	150	363	708	244	32	7	62	174	39	144	357	702
Total	1,563	3,997	7,833	2,682	366	91	697	1,985	450	1,546	3,980	7,815

^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, fuel ethanol (minus denaturant), and biodiesel.

^d Hydroelectric power, geothermal, solar/photovoltaic, wind, and biomass. ^e Conventional hydroelectricity net generation (converted to Btu using the

fossil-fueled plants heat rate). ^f Geothermal electricity net generation (converted to Btu using the geothermal energy plants heat rate), and geothermal heat pump and direct use energy.

⁹ Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy. ^h Wind electricity net generation (converted to Btu using the fossil-fueled plants

heat rate).

Wood and wood-derived fuels.

^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

 K Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and co-products from the production of fuel ethanol and biodiesel.

R=Revised. 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.doe.gov/emeu/mer/renew.html for all available data beginning in 1973.

Sources: Tables 10.2a-c, 10.3, and 10.4.

Biofuels data are revised due to the removal of denaturant from fuel ethanol (see Table 10.3), and also to revised fuel ethanol heat contents and fuel ethanol feedstock factors (see Table A3).

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

		Resider	tial Sector				Co	mmercial Se	ctor ^a		
			Biomass		Hydro-			Bio	mass		
	Geo- thermal ^b	Solar/ PV ^c	Wood ^d	Total	electric Power ^e	Geo- thermal ^b	Wood ^d	Waste ^f	Fuel Ethanol ^g	Total	Total
973 Total	NA	NA	354	354	NA	NA	7	NA	NA	7	7
75 Total	NA	NA	425	425	NA	NA	8	NA	NA	8	8
980 Total	NA	NA	850	850	NA	NA	21	NA	NA	21	21
985 Total	NA	NA	1,010	1,010	NA	NA	24	NA	(s)	24	24
990 Total	6	56	580	641	1	3	66	28	(s)	94	98
95 Total	7	65	520	591	1	5	72	40	(s)	113	118
996 Total	7	65	540	612	1	5	76	53	(s)	129	135
97 Total	8	65	430	503	1	6	73	58	(s)	131	138
98 Total	8	65	380	452	1	7	64	54	(s)	118	127
999 Total	9	64	390	462	1	7	67	54	(s)	121	129
000 Total	9	61	420	490	1	8	71	47	(s)	119	128
01 Total	9	60	370	439	1	8	67	25	(s)	92	101
02 Total	10	59	380	449	(s)	9	69	26	(s)	95	104
03 Total	13	58	400	471		11	71	29	1	101	113
04 Total	14	59	410	483		12	70	34	1	105	118
05 Total	16	61	430	507	1	14	70	34	1	105	119
006 Total	18	67	390	475	1	14	65	36	1	102	117
007 January	2	6	37	45	(s)	1	6	3	(s)	9	10
February	2	6	33	40	(s)	1	5	2	(s)	8	9
March	2	6	37	45	(s)	1	6	3	(s)	9	10
April	2	6	35	43	(s)	1	6	3	(s)	8	10
May	2	6	37	45	(s)	1	6	3	(s)	9	10
June	2	ő	35	43	(s)	1	6	3	(s)	8	10
July	2	ő	37	45	(s)	1	6	3	(s)	9	10
August	2	ő	37	45	(s)	1	6	3	(s)	9	10
September	2	õ	35	43	(s)	1	6	3	(s)	8	10
October	2	ő	37	45	(s)	1	6	3	(s)	9	10
November	2	ő	35	43	(s)	1	6	3	(s)	9	10
December	2	6	37	45	(s)	1	6	3	(s)	9	10
Total	22	75	430	527	1	14	69	31	2	102	118
008 January	2	7	42	51	(s)	1	6	3	(s)	9	10
February	2	7	39	47	(s)	1	6	3	(s)	^R 8	10
March	2	7	42	51	(s)	1	6	3	(s)	9	10
April	2	7	40	49	(s)	1	6	3	(s)	9	10
May	2	7	42	51	(s)	1	6	3	(s)	9	^R 11
June	2	7	40	49	(s)	1	6	3	(s)	9	10
July	2	7	42	51	(s)	1	6	3	(s)	9	^R 11
August	2	7	42	51	(s)	1	6	3	(s)	9	^R 11
September	2	7	40	49	(s)	1	6	^R 3	(s)	9	10
October	2	7	42	51	(s)	1	6	^R 3	(s)	^R 9	10
November	2	7	40	49	(s)	1	6	3	(s)	9	10
December	2	7	42	51	(s)	1	6	3	(s)	9	10
Total	26	83	490	599	1	15	72	^R 34	2	^R 109	^R 124
09 January	2	7	42	51	(s)	1	6	3	(s)	9	11
February	2	6	38	46	(s)	1	6	R 2	(s)	8	9
March	2	7	42	51	(s)	1	6	4	(s)	10	R 11
April	2	7	40	49	(s)	1	6	R 3	(s)	9	10
May	2	7	42	51	(s)	1	6	3	(s)	9	10
June	2	7	40	49	(s)	1	6	3	(s)	9	10
July	2	7	42	51	(s)	1	6	R 3	(s)	9	10
August	2	7	42	51	(s)	1	6	3	(s)	9	R 11
September	2	7	40	49	(s)	1	6	R 3	(s)	9	10
October	2	7	42	51	(s)	1	6	2	(s)	9	10
November	2	7	40	49	(s)	1	6	R 3	(s)	R 9	10
December	2	7	42	51	(S)	1	6	3	(s)	9	11
Total	26	83	490	599	1	15	72	34	2	109	124

^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-fueled plants heat rate). Includes a small amount of commercial sector use. ^d Wood and wood-derived fuels.

^e Conventional hydroelectricity net generation (converted to Btu using the fosșil-fueled plants heat rate).

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 commercial sector.

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

Notes: • Data are estimates, except for commercial sector hydroelectric power and waste. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.doe.gov/emeu/mer/renew.html for all available

data beginning in 1973

Sources: See end of section.

Fuel ethanol data are revised due to the removal of denaturant (see Table 10.3), and also to revised fuel ethanol heat contents (see Table A3).

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

Industrial Sector^a **Transportation Sector** Biomass Biomass Hydro-Losses electric Power^b Geo-Fuel and Co-Fuel Biothermal Woodd Waste Ethanol products Total Total Ethanol^h diesel Total 1973 Total 35 1.165 1.165 1.200 NA NA NA NA NA NA NA 32 1.063 1975 Total NA 1.063 1.096 NA NA NA NA NA NA 1980 Total 33 NA 1,600 NA NA NA 1,600 1,633 NA NA NA ^R 1,918 ^R 1,951 R 50 ^R 50 1985 Total 33 NA 1,645 230 ^R 42 1 NA ^R 1,684 R 1,717 ^R 60 ^R 60 R 49 1990 Total 31 2 1,442 192 1 NA ^R 86 ^R 1,934 ^R 1,992 ^R 113 ^R 113 1995 Total 1.652 55 3 195 2 NA ^R 61 R 2,033 R 81 R 81 1996 Total R 1,969 224 61 3 1.683 1 NA R 1,996 R 2,057 1997 Total 3 184 1 R 102 NA R 102 58 1,731 ^R 80 R 1,872 R 1,929 ^R 113 1998 Total 55 3 1,603 R 86 ^R 113 180 1 NA R 1,882 ^R 1,934 ^R 118 ^R 118 ^R 90 1999 Total 49 4 1,620 171 NA 1 R 99 ^R 1,881 ^R 1,928 R 135 R 135 2000 Total 42 4 1.636 145 1 3 NA 33 5 R 108 ^R 1,681 R 1,719 ^R 141 ^R 142 2001 Total 1.443 129 1 2 2 3 5 3 ^R 130 ^R 1,676 R 1,720 R 168 R 170 2002 Total 39 1,396 146 ^R 169 ^R 1,679 ^R 1,726 2003 Total 43 3 1,363 142 R 4 R 228 ^R 230 ^R 1,817 ^R 1,853 R 290 2004 Total R 203 R 286 33 4 1.476 132 6 R 1,837 R 1,873 R 328 R 230 R 339 2005 Total 32 4 1.452 148 7 12 29 4 1,515 10 R 285 ^R 1,957 ^R 1,990 R 442 33 R 475 2006 Total 147 ^R 48 ^R 28 ^R 170 ^R 172 2 125 16 4 2007 January (s) 1 44 ^R 40 ^R 26 ^R 155 February 1 Ìs) 114 14 ^R 157 3 43 R 29 R 28 ^R 167 ^R 47 R 170 March 2 2 122 122 16 13 (s) (s) 44 3 2 1 ^R 164 ^R 166 ^R 41 R 43 April 1 ^R 31 ^R 166 ^R 168 May 2 (s) 122 13 ^R 44 3 5 3 ^R 47 1 ^R 162 June 1 (s) 118 12 ^R 30 ^R 164 ^R 45 ^R 50 1 ^R 51 ^R 53 ^R 51 ^R 32 R 170 R 47 July (s) 125 13 R 171 1 ^R 168 ^R 169 R 33 R 48 August 1 (s) 121 13 12 1 6 5 ^R 163 ^R 46 R 33 ^R 164 September (s) (s) (s) 118 1 1 ^R 171 ^R 173 ^R 52 6 ^R 58 October 122 13 ^R 35 1 1 ^R 52 ^R 53 November 121 13 ^R 35 ^R 170 R 172 1 ^R 55 ^R 59 ^R 37 R 179 ^R 181 December 2 (s) 5 128 14 Δ ^R 377 ^R 2,005 ^R 2,026 ^R 557 ^R 603 Total 16 1.457 162 10 46 2 ^R 132 ^R 14 ^R 39 ^R 185 ^R 187 ^R 54 5 ^R 58 2008 January (s) 1 ^R 110 ^R 55 ^R 59 ^R 14 R 37 ^R 163 ^R 165 4 February 2 2 2 (s) ^R 57 ^R 112 ^R 112 ^R 60 ^R 15 ^R 42 R 170 ^R 172 March (s) 2 3 2 5 R 14 R 41 ^R 168 R 170 ^R 63 ^R 66 April (s) 1 ^R 112 ^R 68 2 ^R 45 R 65 Mav (s) (s) 172 174 13 1 ^R 107 ^R 12 R 42 ^R 163 ^R 165 ^R 65 ^R 68 June 1 1 (s) (s) ^R 110 ^R 46 R 170 R 172 ^R 69 ^R 75 July 1 13 1 ^R 108 ^R 170 R 70 R 77 R 48 ^R 172 August 13 6 ^R 103 R 46 ^R 163 ^R 164 R 70 R 73 ^R 76 6 6 6 September 1 (s) 13 1 ^R 108 ^R 14 ^R 172 ^R 173 ^R 79 R 48 October November 1 (s) (s) 1 ^R 105 ^R 169 ^R14 R 48 ^R 170 R 69 R 75 1 1 ^R 15 ^R 49 (s) 5 R 98 R 163 ^R 165 ^R75 5 R 79 December ^R 1,320 ^R 164 R 786 ^R 17 ^R 532 R 2,029 ^R 2,050 ^R 839 12 53 Total ^R 14 2009 January 2 (s) (s) ^R 103 ^R 46 ^R 164 ^R 167 ^R 68 ^R 68 (s) 1 ^R 12 ^R 151 ^R 57 (s) 4 February ^R 95 ^R 43 ^R 153 ^R 57 1 1 (s) (s) ^R72 March 101 ^R 15 ^R 47 ^R 163 ^R 166 ^R 68 2 2 2 ^R 46 R 157 ^R 69 4 ^R 73 April 97 13 R 160 ^R 14 ^R 49 ^R 163 ^R 75 R 99 ^R 166 R 79 May (s) 1 3 4 3 ^R 74 2 98 R 49 R 162 ^R 164 R 77 (s) (s) (s) June 13 1 ^R 14 ^R 53 ^R 109 R 179 ^R 79 ^R 82 178 Julv 1 1 ^R 181 ^R 113 ^R 77 August ^R 14 ^R 53 R 183 5 ^R 82 ^R 105 ^R 73 ^R 79 September (s) 13 ^R 52 ^R 171 ^R 172 6 ^R 111 ^R 14 ^R 180 ^R 81 ^R 85 ^R 54 ^R 182 4 October 1 (s) 1 ^R 80 ^R 14 ^R 178 (s) (s) 5 ^R 108 ^R 56 R 180 R 84 November 1 5 6 1 79 109 14 58 182 185 85 December Total 18 1.249 163 13 607 2,032 2,056 879 44 923

^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-fueled plants heat rate).

Geothermal heat pump and direct use energy. d Wood and wood-derived fuels.

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

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

⁹ Losses and co-products from the production of fuel ethanol and biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol and biodiesel-these are included in the industrial sector consumption statistics for the appropriate energy source. The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and

E85, consumed by the transportation sector. "Biodiesel" is any liquid biofuel suitable as a diesel fuel substitute, additive, or

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

Notes: • Data are estimates, except for industrial sector hydroelectric power in 1973-1978 and 1989 forward. • Totals may not equal sum of components due to independent rounding. . Geographic coverage is the 50 States and the District of Columbia

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

Sources: See end of section.

Fuel ethanol and losses and co-products data are revised due to the removal of denaturant (see Table 10.3), and also to revised fuel ethanol heat contents and fuel ethanol feedstock factors (see Table A3).

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro-	6.55				Biomass		
	electric Power ^a	Geo- thermal ^b	Solar/PV ^c	Wind ^d	Wood ^e	Waste ^f	Total	Total
973 Total	2,827	43	NA	NA	1	2	3	2.873
975 Total	3.122	43 70	NA	NA	(s)	2	2	3,194
980 Total	2,867	110	NA	NA	(3)	2	4	2,982
						27		
985 Total	2,937	198	<u>(s)</u>	<u>(s)</u>	8		14	3,150
90 Total ^g	3,014	326	4	29	129	188	317	3,689
95 Total	3,149	280	5	33	125	296	422	3,889
996 Total	3,528	300	5	33	138	300	438	4,305
997 Total	3,581	309	5	34	137	309	446	4,375
998 Total	3,241	311	5	31	137	308	444	4,032
999 Total	3,218	312	5	46	138	315	453	4,034
000 Total	2,768	296	5	57	134	318	453	3,579
001 Total	2,209	289	6	70	126	211	337	2,910
02 Total	2,650	305	6	105	150	230	380	3,445
003 Total	2,781	303	5	115	167	230	397	3,601
004 Total	2,656	311	ő	142	165	223	388	3,503
		309	6	178	185	223	406	
005 Total	2,670							3,568
006 Total	2,839	306	5	264	182	231	412	3,827
07 January	256	27	(s)	24	19	20	39	346
February	182	24	(s)	25	15	17	32	263
March	237	25	(s)	30	15	20	35	328
April	234	24	1	31	15	18	33	324
May	256	24	1	29	14	20	34	344
June	224	26	1	26	15	20	35	312
July	221	26	1	21	16	21	36	306
	196	26	1	27	16	21	36	286
August	145	20	1	28	15	20	35	235
September								
October	145	27	(s)	33	15	20	35	241
November	154	25	(s)	31	15	21	36	246
December	180	27	(s)	34	16	21	37	278
Total	2,430	308	6	341	186	237	423	3,508
08 January	^R 203	^R 26	(s)	^R 42	16	21	37	^R 308
February	^R 184	23	(s)	R 38	15	R 20	R 35	^R 279
March	R 212	26	1	R 47	^R 15	23	R 38	R 324
April	^R 217	26	1	R 51	^R 13	R 21	34	R 330
May	^R 267	20	1	^R 53	13	^R 21	^R 34	^R 381
	^R 286	27	1	^R 51	13	R 22	^R 36	^R 401
	∠00 R 054			R 39		R 23	R 39	
July	^R 251	27	1		^R 16			R 357
August	R 208	27	1	R 32	16	R 22	R 38	R 307
September	^R 158	26	1	R 31	15	R 21	^R 36	R 252
October	^R 151	27	1	^R 47	14	^R 21	^R 35	R 261
November	^R 153	26	(s)	^R 49	15	^R 21	^R 36	^R 265
December	^R 204	^R 27	(s)	^R 65	16	^R 22	^R 38	^R 334
Total	^R 2,494	^R 314	R 9	^R 546	R 177	^R 258	^R 435	^R 3,798
09 January	^R 233	^R 28	(s)	^R 59	16	^R 20	^R 36	^R 356
February	R 175	R 25	(S) (S)	^R 56	14	R 19	R 33	R 289
March	^R 212	R 28	(3)	R 68	^R 13	^R 24	^R 37	^R 346
	^R 249	25	1	^R 72	12	R 21	R 33	R 379
April	^R 288	25 ^R 26	1	R 60		R 21	R 34	R 409
May			•		13		·· 34 R a7	
June	^R 285	^R 26	1	^R 53	15	R 22	R 37	^R 402
July	^R 225	R 27	1	^R 46	^R 15	R 22	^R 37	^R 336
August	^R 188	^R 27	1	^R 52	16	^R 22	^R 38	^R 305
September	^R 169	^R 26	1	^R 43	^R 13	^R 20	R 34	^R 273
October	192	R 27	1	^R 62	13	^R 20	R 33	^R 315
November	R 205	R 27	(s)	R 63	^R 14	R 20	R 35	R 330
December	242	28	(S)	62	17	20	39	371
Total	2,663	320	8	697	173	253	426	4,113
i Ulai	2,003	320	0	031	1/3	200	420	4.113

^a Conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate).
 ^b Geothermal electricity net generation (converted to Btu using the geothermal

 Geothermal electricity net generation (converted to bit using the geothermal energy plants heat rate).
 ^c Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu

using the plants heat rate). ^d Wind electricity net generation (converted to Btu using the fossil-fueled plants

heat rate).

^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).

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

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

Notes: • 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.doe.gov/emeu/mer/renew.html for all available data beginning in 1973.

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

		Losses					Traded						Consump- tion
	Feed- stock ^a	and Co- products ^b	Dena- turant ^c	P	roduction	1	Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Co	onsumption	d	Minus Denaturant ^h
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1981 Total	13	6	40	1,978	83	7	NA	NA	NA	1,978	83	7	7
1985 Total	^R 93	R 42	294	14,693	617	52	NA	NA	NA	14,693	617	52	51
1990 Total	^R 111	^R 49	356	17,802	748	63	NA	NA	NA	17,802	748	63	62
1995 Total	^R 198	^R 86	647	32,325	1,358	^R 115	387	2,186	-207	32,919	1,383	117	114
1996 Total	^R 141	^R 61	464	23,178	973	^R 83	313	2,065	-121	23,612	992	84	82
1997 Total	^R 186	^R 80	613	30,674	1,288	109	85	2,925	860	29,899	1,256	^R 107	104
1998 Total	R 202	R 86	669	33,453	1,405	^R 119	66	3,406	481	33,038	1,388	^R 118	115
1999 Total	^R 211	R 90	698	34,881	1,465	^R 124	87	4,024	618	34,350	1,443	122	119
2000 Total	R 233	R 99	773	38,627	1,622	^R 138	116	3,400	-624	39,367	1,653	^R 140	137
2001 Total	R 253	^R 108	841	42,028	1,765	^R 150	315	4,298	898	41,445	1,741	^R 148	144
2002 Total	R 307	^R 130	1,019	50,956	2,140	^R 182	306	6,200	1,902	49,360	2,073	R 176	171
2003 Total	R 400	^R 169	1,335	66,772	2,804	R 238	292	5,978	-222	67,286	2,826	R 240	233
2004 Total	R 484	R 203	1,621	81,058	3,404	R 289	3,542	6,002	24	84,576	3,552	R 301	293
2005 Total	^R 552 ^R 688	^R 230 ^R 285	1,859	92,961	3,904	R 331	3,234	5,563	-439	96,634	4,059	^R 344	335
2006 Total			2,326	116,294	4,884	^R 414	17,408	8,760	3,197	130,505	5,481	^R 465	453
2007 January	^R 68	^R 28	232	11,621	488	41	1,077	8,656	-104	12,802	538	^R 46	44
February	^R 64	^R 26	216	10,795	453	38	1,010	8,765	109	11,696	491	^R 42	41
March	^R 70	^R 29	238	11,892	499	42	720	8,539	-226	12,838	539	^R 46	45
April	^R 69	R 28	234	11,716	492	R 42	733	8,807	268	12,181	512	43	42
May	^R 74	R 30	251	12,573	528	R 45	663	8,966	159	13,077	549	R 47	45
June	^R 74 ^R 77	^R 30	251	12,553	527	^R 45 ^R 47	922	9,171	205	13,270	557	47 ^R 50	46
July	R 80	R 32	262	13,083	549		1,533	9,866	695	13,921	585		48
August	^R 79	R 33	272	13,581	570	48 ^R 48	1,586	11,011	1,145	14,022	589	50	49
September	^R 84	^R 32 ^R 34	268	13,402	563	^N 48 ^R 51	610	11,555	544	13,468	566	48 ^R 55	47
October	^R 86	R 35	284 291	14,221	597		998 393	11,449	-106	15,325	644 638	11 55 54	53
November December	R 90	R 37	305	14,568 15,258	612 641	52 54	212	11,218 10,535	-231 -683	15,192 16,153	678	R 58	53 56
Total	^R 914	R 376	3,105	15,258 155,263	6,521	^R 553	10,457	10,535 10,535	-663 1,775	163,945	6,886	^R 584	569
2008 January	^R 94	^R 38	321	16,058	674	57	510	11,383	848	15,720	660	56	55
February	^R 91	R 37	311	15,527	652	55	505	11,173	-210	16,242	682	^R 58	56
March	^R 103	^R 42	351	17,527	736	62	368	12,288	1,115	16,780	705	^R 60	58
April	^R 101	R 41	343	17,152	720	61	1,491	12,572	284	18,359	771	65	64
May	^R 110	^R 45	375	18,756	788	R 67	962	13,297	725	18,993	798	^R 68	66
June	^R 103	^R 42	353	17.651	741	^R 63	1.571	13.323	26	19,196	806	68	67
July	^R 112	^R 46	381	19,040	800	^R 68	1,459	13,448	125	20,374	856	^R 73	71
August	^R 118	^R 48	401	20,059	842	71	1,931	14,771	1,323	20,667	868	^R 74	72
September	^R 113	^R 46	387	19,338	812	^R 69	2,466	16,110	1,339	20,465	860	^R 73	71
October	^R 118	^R 48	401	20,048	842	_ 71	606	15,214	-896	21,550	905	^R 77	75
November	^R 118	^R 48	403	20,139	846	^R 72	278	15,286	72	20,345	854	72	71
December	_ ^R 119	_ ^R 49	407	20,342	854	_ 72	463	14,226	-1,060	21,865	918	_ ^R 78	76
Total	^R 1,300	^R 531	4,433	221,637	9,309	^R 790	12,610	14,226	3,691	230,556	9,683	^R 821	800
2009 January	^R 114	^R 46	362	19,545	821	^R 70	371	14,186	ⁱ -33	19,949	838	71	69
February	^R 106	^R 43	379	18,120	761	^R 65	51	15,688	1,502	16,669	700	59	58
March	^R 116	R 47	412	19,837	833	^R 71	78	15,652	-36	19,951	838	71	69
April	^R 112	R 45	403	19,220	807	68	167	14,845	-807	20,194	848	R 72	70
May	^R 121	^R 49	458	20,752	872	^R 74	504	13,999	-846	22,102	928	^R 79	76
June	^R 121	^R 49	454	20,822	875	74	702	13,903	-96	21,620	908	77 P 00	75
July	^R 131	^R 53	503	22,577	948	80	1,010	14,294	391	23,196	974	^R 83	80
August	R 131	R 53	489	22,552	947	80 8 70	921	15,001	707	22,766	956	81	79
September	^R 127 ^R 134	^R 51 ^R 54	469	21,752	914	^R 78 ^R 82	307	15,688	687	21,372	898	76 ^R 85	74 82
October	^R 134	^N 54 ^R 56	503 513	22,956 23.592	964 991	^R 82	206 285	15,080 15,518	-608 438	23,770	998 984	^N 85 ^R 84	82 81
November December	142	58	513	23,592	1,026	84	285	15,518	438	23,439 23,243	984 976	84	81
Total	1.493	50 606	5,507	24,424 256,149	1,026 10,758	913	4,614	16,711	2,492	258,243	976 10,847	920	894
10tai	1,493	000	5,507	230,149	10,750	313	+,014	10,711	2,492	230,211	10,047	920	034

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. d

Includes denaturant.

е Fuel ethanol imports only. Data for fuel ethanol exports are not available.

Stocks are at end of period.

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

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. ¹ Derived from the preliminary December 2008 stocks value, not the final

December 2008 value that is shown under "Stocks." R=Revised. NA=Not available.

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by the approximate heat content of fuel ethanol—see Table A3. • Through 1980, data are not available. For 1981-1992, data are estimates. For 1993-2008, only data for feedstock, losses and co-products, and denaturant are estimates. Beginning in 2009, only data for feedstock, and losses and co-products, are estimates. • See "Denaturant," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus Denaturant" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.doe.gov/emeu/mer/renew.html for all available data beginning in 1981

Sources: See end of section.

This table is modified to include columns for "Denaturant" and "Consumption Minus Denaturant." To make room for this change, columns for "Imports" and "Exports" are deleted. Data are revised beginning in 1981 due to revised fuel ethanol heat contents and fuel ethanol feedstock factors (see Table A3).

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	Pi	oduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	onsumptic	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 January	4	(s)	692	29	4	237	103	135	NA	NA	NA	827	35	4
February	3	(s)	564	24	3	148	173	-25	NA	NA	NA	539	23	3
March	4	(s)	775	33	4	114	293	-179	NA	NA	NA	596	25	3
April	4	(s)	765	32	4	179	605	-426	NA	NA	NA	339	14	2
May	5	(s)	958	40	5	110	543	-432	NA	NA	NA	526	22	3
June	5	(s)	943	40	5	364	418	-54	NA	NA	NA	889	37	5
July	7 7	(s)	1,237	52	7 7	269 409	895	-626	NA	NA	NA	611	26	3 6
August September	7	(s)	1,298 1,224	55 51	7	409 299	644 515	-236 -215	NA NA	NA NA	NA NA	1,062 1,008	45 42	ь 5
October	6	(s) (s)	1,224	50	6	428	583	-215	NA	NA	NA	1.033	42	6
November	5	(s) (s)	993	42	5	245	965	-720	NA	NA	NA	273	43	1
December	6	(s)	1,026	43	5	539	741	-202	NA	NA	NA	824	35	4
Total	63	1	11,662	490	6Ž	3,342	6,477	-3,135	NA	NA	NA	8,528	358	46
2008 January	7	(s)	1,369	58	7	598	1.100	-501	NA	NA	NA	868	36	5
February	7	(s)	1,228	52	7	838	1,384	-546	NA	NA	NA	683	29	4
March	7	(s)	1,359	57	7	274	1,172	-898	NA	NA	NA	461	19	2
April	8	(s)	1,451	61	8	688	1,592	-904	NA	NA	NA	547	23	3
May	8	(s)	1,478	62	8	513	1,364	-850	NA	NA	NA	628	26	3
June	9	(s)	1,653	69	9	512	1,758	-1,246	NA	NA	NA	406	17	2
July	10	(s)	1,835	77	10	526	1,421	-894	NA	NA	NA	941	40	5
August	10	(s)	1,856	78	10	907	1,606	-699	NA	NA	NA	1,157	49	6
September	9	(s)	1,716	72	9	908	1,452	-544	NA	NA	NA	1,173	49	6
October	9	(s)	1,675	70	9	721	1,333	-612	NA	NA	NA	1,064	45	6
November	9	(s)	1,645	69	9	612	1,181	-569	NA	NA	NA	1,076	45	6
December	7	(s)	1,203	51	6	404	766	-362	NA	NA	NA	841	35	5
Total	100	1	18,468	776	99	7,502	16,128	-8,626	NA	NA	NA	9,842	413	53
2009 January	4	(s)	795	33	4	261	1,150	-889	57	57	180	29	1	(s)
February	5	(s)	846	36	5	158	1,166	-1,009	119	62	254	29	1	(s)
March	4	(s)	767	32	4	383	203	180	357	238	0	709	30	4
April	5	(s)	912	38	5	52	154	-102	389	32	0	778	33	4
May	5	(s)	929	39	5	117	417	-300	375	-14	0	643	27	3
June	5 6	(s)	904	38 45	5 6	138 58	366	-228	367 309	-8	0	684 611	29 26	4 3
July	6 7	(s)	1,077 1,214	45 51	6 7		581 397	-523 -271		-58	0	611 935	26 39	3
August	6	(s) (s)	1,214	51 47	6	126 123	397 224	-271 -101	317 222	8 -95	0	935	39 47	5
September October	6 7	(S) (S)	1,123	47 54	6 7	123	224 424	-101	439	-95 217	0	811	47 34	о 4
November	8	(S) (S)	1,292	54 65	8	105	424 819	-203	439	-9	0	844	34	4 5
December	8	(S) (S)	1,550	60	8 8	105	431	-714	430 506	-9 76	0	1.097	35 46	5 6
Total	70	(5)	12,847	540	69	1.844	6,332	-4,489	506	506	434	8,286	348	44
		•	12,041	0-10		1,044	0,002	-,-00		000	-07	0,200	040	

Table 10.4 **Biodiesel Overview**

Total vegetable oil and other biomass inputs to the production of biodiesel ^b Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of -these are included in the industrial sector consumption statistics for the biodiesel appropriate energy source.

Net imports equal imports minus exports.

d Stocks are at end of period.

e A negative value indicates a decrease in stocks and a positive value indicates an increase.

^f Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition.

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

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion · Biodiesel data in thousand barrels are converted to million gallons by Btu. 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 are estimates. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.doe.gov/emeu/mer/renew.html for all available data beginning in 2001.

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), Office of Integrated Analysis and Forecasting, estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).
 2007 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).
 Trade: U.S. Department of Agriculture, imports data for Harmonized Tariff Schedule code 3824.90.40.20 (Fatty Esters Animal/Vegetable/Mixture), and exports data for Schedule B code 3824.90.40.00 (Fatty Substances Animal/Vegetable/Mixture). Although these categories include products other than biodiesel (such as those 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 estimates. • **Stocks** and **Stock Change:** EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1, data for renewable fuels except fuel ethanol. • **Balancing Item:** Calculated as biodiesel net imports. • Consumption: 2001-2008—Calculated as biodiesel production plus biodiesel net imports. January and February 2009-EIA, PSM, monthly reports, 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.

Renewable Energy

Note. Renewable Energy Production and Consump-

In Table 10.1, renewable energy consumption tion. consists of: conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the geothermal plants heat rate), and geothermal heat pump and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste (municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass) consumption; fuel ethanol (minus denaturant) and biodiesel consumption; and losses and co-products from the production of fuel ethanol and biodiesel. Production is assumed to equal consumption for all renewable energy sources except biofuels (biofuels production comprises biomass inputs to the production of fuel ethanol and biodiesel).

Table 10.2a Sources

Residential Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Residential Sector, Solar/PV

U.S. Energy Information Administration (EIA), Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), 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, CNEAF, 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

EIA, *Monthly Energy Review (MER)*, Tables 7.2a–7.2c and A6. Calculated as total conventional hydroelectric power minus conventional hydroelectric power in the electric power and industrial sectors, multiplied by the fossil-fueled plants heat rate.

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, 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, CNEAF, estimate.

1985–1988: Values interpolated.

1989 forward: EIA, *MER*, Tables 7.4a–c; and EIA, CNEAF, estimates based on Form EIA-871, "Commercial Buildings Energy Consumption Survey." Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (*MER*, Table 7.4a) minus wood consumption in the electric power sector (*MER*, Table 7.4b) and at industrial CHP plants (*MER*, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant)

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

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

U.S. Energy Information Administration (EIA), *MER* Tables 7.2c and A6.

Industrial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the

number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Industrial Sector, Wood

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

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of Biofuels Consumption in the United States During 1987*, Table 2.

1988: Value interpolated.

1989 forward: EIA, *MER*, Table 7.4c; and EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), 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, CNEAF, estimates for total waste consumption; 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, CNEAF, 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

EIA, MER, Tables 10.3 and 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 4.641 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 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 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.

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, *PSM*, monthly reports.

Trade, Stocks, and Stock Change

1992–2008: EIA, *Petroleum Supply Annual (PSA)*, annual reports.

2009: EIA, PSM, monthly reports.

Consumption

1981–1989: EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 10; and EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates.

1990–1992: EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, Table D2; and EIA, CNEAF, estimates.

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).

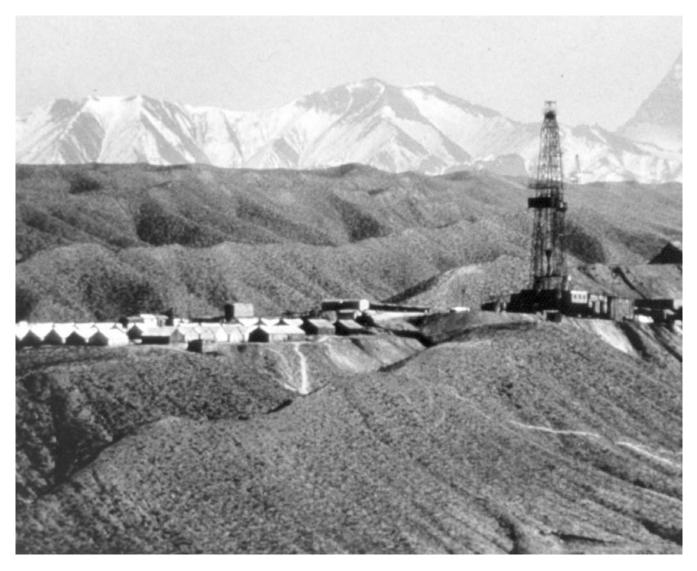
2005–2008: EIA, *PSA*, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15).

2009: EIA, *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.



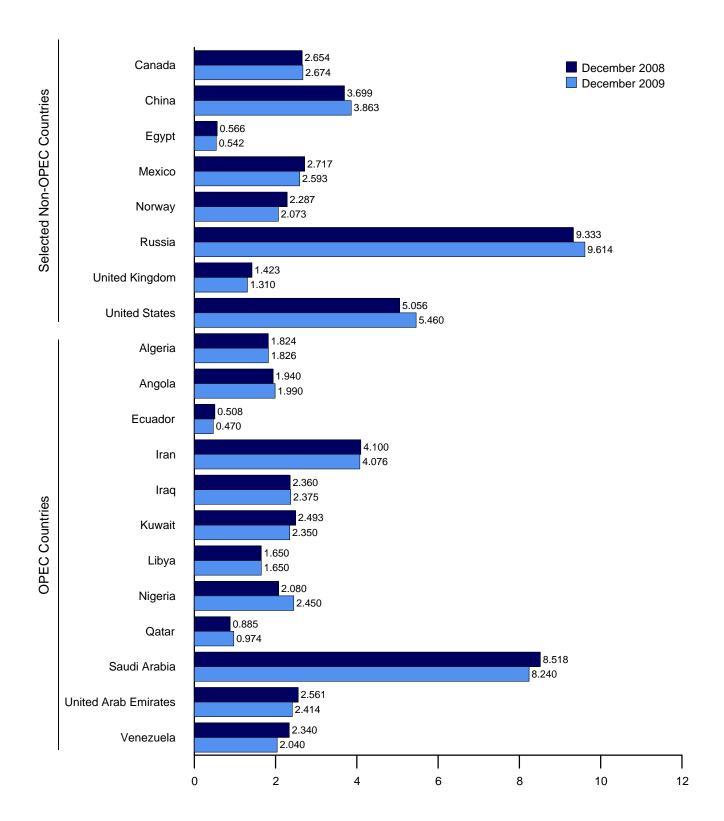


Drilling rig, Gansu Province, People's Republic of China. Source: U.S. Department of Energy.

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

World Production, 1973-2009 World Production, Monthly 80-80-World World 60-60-Non-OPEC 40-Non-OPEC 40-OPEC OPEC 20 20 -Persian Gulf Nations Persian Gulf Nations 0------ $\cdot \cdot \cdot \cdot \cdot \cdot \cdot$ · | · ... 0 - - - -____ 1975 1980 1985 1990 1995 2000 2005 J FMAMJ J A SOND J FMAMJ J A SOND J FMAMJ J A SOND 2007 2008 2009 Selected Producers, 1973-2009 Selected Producers, Monthly 12-12-Russia Saudi 9 Arabia Saudi Arabia United 6 6-States Russia **United States** Iran Iran China 3-3-China 0------1975 1980 1985 1990 1995 2000 2005 J FMAMJ J A SOND J FMAMJ J A SOND J FMAMJ J A SOND 2007 2008 2009

Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Persian Gulf Nations." Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Sources: Tables 11.1a and 11.1b.



Note: OPEC is the Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Sources: Tables 11.1a and 11.1b.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

	Algeria	Angola	Ecuador	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Vene- zuela	Total OPEC ^b
	Jugona	, ingelu		nun	nuq	ituttutt	,.	ingoina		7.1.4.5.4			0. 20
1973 Average	1,097	162	209	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,661
1975 Average	983	165	161	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	25,790
1980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
1985 Average	1,037	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,368
1990 Average	1,175	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,493
1995 Average	1,202	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,540
1996 Average	1,242	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,018
1997 Average	1,277	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,292
1998 Average	1,246	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,366
1999 Average	1,202	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,224
2000 Average	1,254	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,980
2001 Average	1,310	742 896	412 393	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,159
2002 Average	1,306 1,611	903	393 411	3,444 3,743	2,023 1,308	1,894 2,136	1,319 1,421	2,118 2,275	679 715	7,634 8.775	2,082 2,348	2,604 2,335	26,392 27,980
2003 Average	1,677	1,052	528	3,743	2,011	2,136	1,421	2,275	715	8,775 9,101	2,348	2,335 2,557	30,408
2004 Average 2005 Average	1,797	1,052	532	4,001	1.878	2,570	1,633	2,529	835	9,101	2,478	2,557	31,871
2005 Average	1,814	1,413	536	4,028	1,996	2,535	1,681	2,440	850	9,152	2,636	2,505	31,591
2007 January	1,838	1,584	517	4,040	1,753	2,450	1,680	2,365	835	8,750	2,613	2,380	30,805
2007 January	1,833	1,584	517	4,040 3.900	2.003	2,450	1,680	2,365	825	8,750	2,613	2,380	30,805
February March	1,833	1,640	482	3,900	2,003	2,420	1,680	2,390	825	8,600	2,573	2,363	30,714
April	1,825	1,679	502	3,900	2,033	2,420	1,680	2,275	825	8,600	2,612	2,445	30,990
May	1,821	1,695	512	3,900	2,103	2,420	1,680	2,240	825	8,600	2,611	2,444	30,851
June	1,828	1,680	515	3.900	2.003	2.420	1,680	2,230	835	8,600	2.610	2,444	30,745
July	1,828	1,710	510	3,900	2,053	2,445	1,700	2,380	865	8,600	2,610	2,444	31,044
August	1,824	1,730	508	3,900	1,903	2,500	1,700	2,380	865	8,600	2.659	2,444	31,013
September	1,831	1,791	517	3,900	2,203	2,500	1,720	2,380	865	8,800	2,709	2,440	31,655
October	1,842	1,889	514	3,900	2,303	2,500	1,740	2,330	869	8,800	2,711	2,440	31,838
November	1,852	1,940	518	3,900	2,253	2,520	1,740	2,400	883	9,000	2,242	2,440	31,688
December	1,852	1,986	532	3,900	2,303	2,550	1,740	2,430	888	9,100	2,659	2,440	32,379
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
2008 January	1,826	1,992	520	4,000	2,203	2,550	1,790	2,230	892	9,200	2,709	2,440	32,352
February	1,826	1,997	519	4,000	2,353	2,600	1,790	2,100	916	9,200	2,709	2,440	32,449
March	1,825	2,003	508	4,000	2,353	2,600	1,790	2,330	920	9,200	2,710	2,430	32,669
April	1,825	2,009	510	4,000	2,353	2,600	1,769	2,130	934	9,100	2,710	2,420	32,361
May	1,825	2,015	499	4,000	2,453	2,600	1,745	2,060	938	9,400	2,710	2,410	32,655
June	1,824	2,013	495	4,000	2,453	2,607	1,745	2,140	942	9,450	2,710	2,400	32,780
July	1,824	2,009	498	4,100	2,505	2,614	1,720	2,120	947	9,700	2,710	2,390	33,138
August	1,824	1,937	503	4,100	2,456	2,622	1,645	2,216	951	9,600	2,711	2,380	32,945
September	1,824	1,871	498	4,100	2,328	2,629	1,745	2,210	955	9,400	2,711	2,370	32,640
October	1,824	1,990	497	4,100	2,328	2,629	1,745	2,185	925	9,400	2,661	2,360	32,643
November	1,824	1,990	502	4,100	2,359	2,486	1,700	2,180	885	8,959	2,561	2,350	31,895
December Average	1,824 1,825	1,940 1,981	508 505	4,100 4,050	2,360 2,375	2,493 2,586	1,650 1,736	2,080 2,165	885 924	8,518 9,261	2,561 2,681	2,340 2,394	31,259 32,483
			FOA						000				
2009 January	1,758 1,757	1,915 1,840	504 498	4,007 3,963	2,212 2,313	2,350 2,350	1,650 1,650	2,192 2,162	860 935	8,113 8,068	2,411 2,412	2,340 2,340	30,312 30,288
February	1,757	1,840	498 497	3,963	2,313	2,350	1,650	2,162	935 910	8,068 8,072	2,412	2,340 2,340	30,288
March	1,757	1,840	497 495	3,970 4,030	2,365	2,350	1,650	2,060 2,217	910	8,072	2,412	2,340 2,240	30,223
April May	1,757	1,840	495 486	4,030 4,044	2,300	2,350 2,350	1,650	2,217 2,212	910	8,077 8,081	2,412	2,240 2,240	30,344
June	1,756	1,840	400	4.050	2,410	2,350	1,650	2,212	910	8.335	2,412	2,240	30,514
July	1,806	1,890	483	4,053	2,419	2,350	1,650	2,059	910	8,540	2,412	2,240	30,857
August	1,826	1,050	477	4.056	2,472	2,350	1,650	2,193	945	8,440	2,413	2,240	31,012
September	1,826	1,950	475	4,060	2,473	2,350	1,650	2,133	945	8,340	2,413	2,240	30,962
October	1,826	1,990	474	4,063	2,425	2,350	1,650	2,290	951	8,340	2,413	2,240	31,012
November	1,826	1,990	477	4,067	2,375	2,350	1,650	2,200	962	8,340	2,413	2,140	30,960
December	1,826	1,990	470	4,076	2,375	2,350	1,650	2,450	974	8,240	2,414	2,040	30,854
	1,790	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	2,239	30,647

^a Except for the period from August 1990 through May 1991, includes about ^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 December 2009, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 513 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. ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

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

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

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	9,630	1,471	2,505	887	2,745	773	11,585	NA	2,530	8,971	38,598	53,966
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,492
1995 Average	17,208	1,805	2,990	920	2,618	2,766		5,995	2,489	6,560	36,845	62,385
1996 Average	17,367	1,837	3,131	922	2,855	3,091		5,850	2,568	6,465	37,733	63,752
1997 Average	18,095	1,922	3,200	856	3,023	3,142		5,920	2,518	6,452	38,452	65,744
1998 Average	19,337	1,981	3,198	834	3,070	3,011		5,854	2,616	6,252	38,599	66,966
1999 Average	18,667	1,907	3,195	852	2,906	3,019		6,079	2,684	5,881	38,698	65,922
2000 Average	19,892	1,977	3,249	768	3,012	3,222		6,479	2,275	5,822	39,515	68,495
2001 Average	19,098	2,029	3,300	720	3,127	3,226		6,917	2,282	5,801	39,940	68,099
2002 Average	17,794	2,171	3,390	715	3,177	3,131		7,408	2,292	5,746	40,766	67,158
2003 Average		2,306	3,409	713	3,371	3,042		8,132	2,093	5,681	41,452	69,433
2004 Average	20,787	2,398	3,485	673	3,383	2,954		8,805	1,845	5,419	42,068	72,476
2005 Average	21,501	2,369	3,609	658 639	3,334	2,698 2,491		9,043	1,649 1,490	5,178 5,102	41,849	73,719 73,435
2006 Average	21,232	2,525	3,673	039	3,256	2,491		9,247	1,490	5,102	41,844	73,435
2007 January		2,549	3,811	616	3,143	2,431		9,420	1,512	5,123	41,962	72,767
February	20,356	2,586	3,739	614	3,148	2,454		9,460	1,654	5,125	42,309	73,023
March		2,701	3,685	612	3,182	2,391		9,473	1,565	5,106	42,186	72,946
April		2,605	3,749	609	3,182	2,427		9,369	1,571	5,189	42,194	73,184
May		2,582	3,781	649	3,110	2,181		9,390	1,580	5,197	41,860	72,711
June		2,485	3,826	679	3,206	1,921		9,440	1,495	5,096	41,577	72,322
July		2,599	3,643	679	3,166	2,327		9,460	1,483	5,024	41,788	72,832
August		2,795	3,746	679	2,843	2,135		9,390	1,227	4,914	41,172	72,185
September		2,689	3,716	679	3,137	2,190		9,520	1,388	4,884	41,306	72,961
October		2,657	3,722	609	2,983	2,273		9,500	1,553	5,043	41,801	73,639
November		2,675	3,727	609	2,888	2,287		9,425	1,452	5,017	41,658	73,346
December Average		2,469 2,616	3,607 3,729	609 637	2,931 3,076	2,235 2,270		9,400 9,437	1,508 1,498	5,056 5,064	41,411 41,765	73,790 72,975
2008 January		2,528	3,744	609	2,928	2,209		9,359	1,456	5,100	^R 41,523	R 73,874
February		2,561	3,747	605	2,909	2,176		9,362	1,491	5,122	^R 41,609	^R 74,058
March		2,654	3,769	601	2,839	2,209		9,334	1,450	5,151	41,569	74,238
April		2,529	3,751	597	2,757	2,111		9,296	1,491	5,117	41,286	73,646
May		2,453 2,488	3,811 3,884	593 589	2,791 2,833	2,247 2,002		9,315 9,334	1,485 1,363	5,102 5,098	41,309 41,203	^R 73,963 73,983
June		2,400	3,804	606	2,033	2,002		9,334 9,344	1,303	5,098	41,203	73,983
July August		2,696	3,774	622	2,759	2,057		9,409	1,099	4,894	40,587	73,532
September		2,090	3,788	638	2,722	2,057		9,409	1,392	3,930	R 39,989	^R 72,629
October		2,607	3,850	634	2,757	2,037		9,400	1,352	4,669	40,960	73,603
November		2,007	3,859	570	2,711	2,241		9,359	1,396	5,024	40,500	73,409
December		2,654	3,699	566	2,717	2,287		9,333	1,423	5,056	41,345	72,604
Average		2,596	3,790	603	2,792	2,182		9,357	1,391	4,950	R 41,207	73,690
2009 January	19,989	^R 2,595	3,755	564	2,685	2,195		9,343	1,425	^E 5,246	^R 41,350	^R 71,663
February		^R 2,705	3,733	562	2,663	2,195		9,343	1,449	E 5,191	^R 41,755	^R 72,043
March		R 2.592	3,726	560	2,652	2,200		9.388	1,451	E 5.270	^R 41.731	^R 71,954
April		R 2,484	3,795	558	2,642	2,230		9,459	1,468	E 5,228	^R 41,652	^R 71,996
May		R 2,373	3,775	556	2,609	1,890		9,429	1,390	E 5,283	^R 41,074	^R 71,474
June		R 2,494	3,824	554	2,519	1,850		9,457	1,359	E 5,183	^R 41,139	^R 71,653
July		^R 2,594	3,801	552	2,561	2,147		9,476	1,342	E 5,233	^R 41,616	^R 72,472
August	,	R 2,521	3,844	550	2,542	1,970		9,532	993	^E 5,286	^R 41,077	^R 72,089
September	20,616	^R 2,484	3,826	548	2,599	1,923		9,623	1,119	^E 5,444	^R 41,573	^R 72,535
October		^R 2,515	3,828	546	2,602	2,077		9,629	1,266	^E 5,422	^R 41,952	^R 72,964
November	20,542	2,750	3,813	544	2,553	2,123		9,654	^R 1,372	^E 5,466	^R 42,267	^R 73,227
December		2,674	3,863	542	2,593	2,073		9,614	1,310	^E 5,460	42,189	73,043
Average	20,402	2,564	3,799	553	2,601	2,067		9,495	1,328	^E 5,310	41,613	72,260

^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. 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.

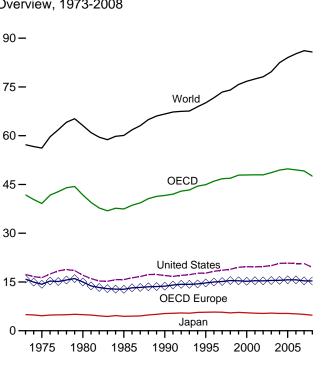
^b Bahrain, Iran, Iran, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

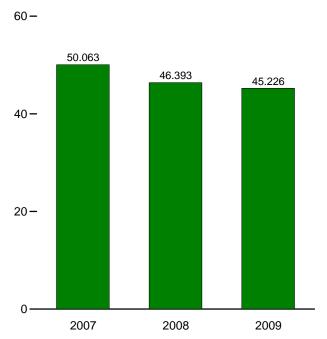
R=Revised. NA=Not available. --=Not applicable. E=Estimate.

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

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

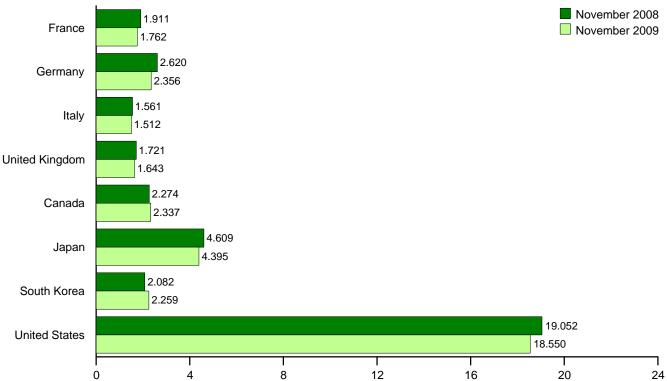
Overview, 1973-2008





OECD Total, November

By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	_	-		United	OECD			South	United	Other	anand	
	France	Germany ^a	Italy	Kingdom	Europeb	Canada	Japan	Korea	States	OECDc	OECDd	World
973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,658	41,804	57,23
975 Average		2,957	1.855	1,911	14,314	1,779	4.621	311	16,322	1,794	39,141	56,19
980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,342	41,763	63,11
985 Average	1.753	2.651	1,705	1.617	12,772	1,526	4,436	552	15,726	2,469	37,481	60.08
90 Average	1,826	2,682	1,868	1,776	13,729	1,737	5,315	1,048	16,988	2,804	41,621	66,68
95 Average	1,920	2,882	1,942	1,816	14,716	1,817	5,693	2,008	17,725	3,001	44,960	70,13
996 Average	1,949	2,922	1,920	1,852	14,997	1,871	5,739	2,101	18,309	2,995	46,012	71,67
997 Average	1,969	2,917	1,934	1,810	15,140	1,959	5,702	2,255	18,620	3,089	46,766	73,43
998 Average	2,043	2,923	1,943	1,792	15,447	1,949	5,507	1,917	18,917	3,192	46,929	74,06
999 Average	2,031	2,838	1,891	1,811	15,364	2,036	5,642	2,084	19,519	3,235	47,880	75,75
000 Average	2.000	2.772	1,854	1.765	15.217	2.035	5,515	2,135	19,701	3,326	47,930	76.74
01 Average	2,054	2,815	1,832	1,747	15,385	2,066	5,412	2,132	19,649	3,337	47,980	77,46
02 Average	1,985	2,722	1,870	1,739	15,336	2,087	5,319	2,149	19,761	3,289	47,942	78,11
003 Average	2,001	2,679	1,860	1,759	15,460	2,217	5,427	2,175	20,034	3,324	48,637	79,68
004 Average	2,009	2,665	1,794	1,785	15,529	2,310	5,318	2,155	20,731	3,390	49,434	82,45
005 Average	1,991	2,647	1,755	1,823	15,658	2,342	5,328	2,191	20,802	3,481	49,802	84,03
06 Average	1,985	2,692	1,743	1,804	15,673	2,253	5,197	2,180	20,687	3,499	49,490	85,20
07 January	2,063	2,307	1,627	1,737	14,979	2,253	5,257	2,423	20,567	3,464	48,943	NA
February	1,987	2,372	1,766	1,785	15,382	2,414	5,610	2,424	21,309	3,525	50,664	NA
March		2,475	1,721	1,775	15,329	2,303	5,447	2,315	20,536	3,639	49,569	NA
April	1,886	2,303	1,640	1,781	14,811	2,132	4,947	2,249	20,536	3,399	48,074	N/
May	1,818	2,392	1,713	1,677	14,835	2,292	4,474	2,104	20,620	3,591	47,918	N/
June	1,932	2,455	1,680	1,735	15,250	2,271	4,639	2,097	20,723	3,687	48,668	NA
July	1.971	2,504	1,696	1,700	15,345	2,332	4,633	2,080	20,747	3,631	48,768	N/
August	1,939	2,582	1,561	1,752	15,430	2,391	4,666	2,124	21,025	3,487	49,123	N/
September	1,960	2,604	1,661	1,728	15,628	2,315	4,931	2,062	20,415	3,401	48,751	N/
October	2,159	2,667	1,758	1,740	16,149	2,325	4,862	2,241	20,476	3,678	49,732	N/
November	2,094	2,551	1,734	1,782	15,917	2,367	5,277	2,384	20,535	3,584	50,063	N/
December		2,432	1,703	1,673	15,014	2,282	5,730	2,395	20,719	3,626	49,767	NA
Average	1,968	2,471	1,688	1,738	15,338	2,306	5,036	2,241	20,680	3,560	49,161	86,13
08 January	2,090	2,493	1,659	1,706	15,390	2,327	5,408	2,394	20,247	3,490	49,257	NA
February	2,023	2,584	1,732	1,817	15,636	2,351	5,924	2,371	20,029	3,572	49,884	NA
March	1,911	2,411	1,585	1,686	14,855	2,249	5,061	2,288	19,831	3,428	47,711	NA
April	2,036	2,525	1,643	1,833	15,605	2,138	5,035	2,121	19,815	3,694	48,408	NA
May	1,880	2,320	1,639	1,631	14,678	2,199	4,489	2,203	19,798	3,607	46,974	N/
June	1,928	2,434	1,638	1,720	14,951	2,244	4,383	2,016	19,678	3,468	46,740	N/
July	1,954	2,647	1,732	1,635	15,459	2,288	4,479	2,050	19,557	3,680	47,512	N/
August	1,885	2,632	1,527	1,588	15,002	2,203	4,215	2,050	19,272	3,511	46,254	NA
September	2,025	2,842	1,667	1,733	16,134	2,263	4,333	2,190	17,839	3,406	46,164	N/
October	2,023	2,857	1,663	1,738	15,944	2,203	4,379	2,130	19,698	3,374	47,738	N/
November		2,620	1,561	1,721	15,069	2,237	4,609	2,043	19,052	3,307	46,393	N/
December	2,116	2,470	1,628	1,721	15,277	2,220	5,150	2,293	19,142	3,571	47,655	N/
Average	1,986	2,569	1,639	1,710	15,331	2,254	4,785	2,175	19,498	3,509	47,552	85,75
09 January	2.037	2,389	1,528	1,746	14,755	2,232	4,845	2,328	19,125	3,297	46,583	NA
February	,	2,613	1,585	1,701	15,059	2,221	4,716	2,490	18,706	3,406	46,598	N/
March	1,966	2,723	1,531	1,742	14,918	2,154	4,611	2,218	18,672	3,365	45,938	N/
April	1,847	2,475	1,531	1,710	14,411	2,049	4,226	2,241	18,471	3,329	44,727	N/
May	1,715	2,329	1,490	1,616	13,741	2,043	3,818	2,159	18,176	3,354	43,301	N/
June		2,363	1,545	1,694	14,562	2,000	4,064	2,109	18,762	3,463	45,100	N/
July	1,885	2,408	1,704	1,662	14,696	2,170	3,996	2,036	18,771	3,487	45,157	N/
August	1,623	2,259	1,407	1,657	13,756	^R 2,157	4,172	2,000	18,732	3,458	^R 44,372	N/
September	1,931	2,545	1,608	1,675	14,976	^R 2,137	4,172	2,050	18,362	3,402	^R 45,085	NA
October	1.891	2,545	1,618	1,654	^R 14,970	^R 2,102	4,142	2,000	18,727	3,402	^R 45.681	N/
November	1,762	2,305	1,512	1,643	14,129	2,337	4,290	2,219	18,550	3,527	45,226	N/
11-Month Average	1,762 1,869	2,350 2,450	1,512 1,550	1,643 1,682	14,129 14,523	2,337 2,159	4,395 4,296	2,259 2,200	18,550 18,642	3, 3 22	45,226 45,242	N/
08 11-Month Average	1,974	2,578	1,640	1,709	15,335	2,257	4,751	2,164	19,531	3,503	47,542	NA
07 11-Month Average		2,475	1,686	1,744	15,368	2,308	4,971	2,226	20,677	3,554	49,105	NA

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

"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, ^c "Other OECD" consists of Australia, 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.

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

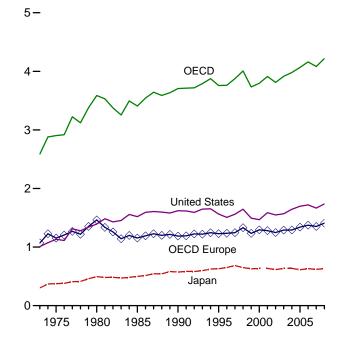
Web Page: See http://www.eia.doe.gov/emeu/mer/inter.html for all available data beginning in 1973.

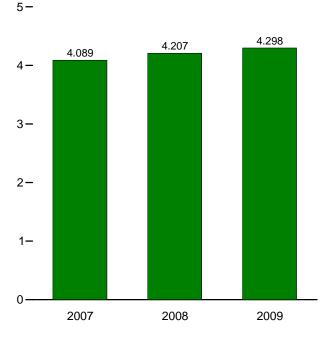
• United States: Table 3.1. • U.S. Territories: 1983 Sources: forward—U.S. Energy Information Administration (EIA), International Energy Database. • East Germany, Former Czechoslavakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, and World: 1973-1979—EIA, Poland, South Korea, Non-OECD Countries, and World: 1973-1979—EIA, International Energy Database. 1980-1983—EIA, International Energy Annual 2005, August 2007, Table 1.2.
 Non-OECD Countries: 1984-2005—EIA, International Energy Annual 2005, August 2007, Table 1.2. 2006 and 2007—EIA, Short Term Energy Outlook, May 2008.
 World: 1984-2007—Sum of OECD and Non-OECD Countries.
 All Other Data: 1973-1981—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues. 1982-1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, February 11, 2010.

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

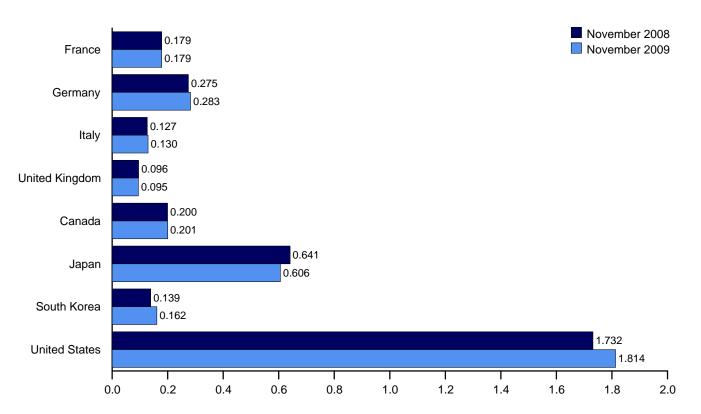
Overview, End of Year, 1973-2008

OECD Stocks, End of Month, November





By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD
973 Year	201	181	152	156	1.070	140	303	NA	1.008	67	2,588
975 Year	225	187	143	165	1,070	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	1,404	112	500	13	1,519	110	3,408
90 Year	143	280	143	103	1,188	143	572	64	1,621	117	3,706
95 Year	155	302	140	101	1,228	132	631	92	1,563	113	3,758
96 Year	154	303	135	103	1,235	127	651	123	1,507	118	3,762
97 Year	161	299	129	100	1,246	144	685	124	1,560	115	3,875
98 Year	169	323	135	104	1,331	139	649	129	1,647	111	4,006
99 Year	160	290	130	101	1,233	142	629	132	1,493	105	3,733
000 Year	170	272	140	100	1,294	144	634	140	1,468	117	3,796
001 Year	165	273	134	113	1,281	156	634	143	1,586	112	3,912
02 Year	170	253	138	104	1,247	157	615	140	1,548	103	3.811
003 Year	179	273	135	100	1,290	170	636	155	1,568	96	3.914
04 Year	177	267	136	100	1,292	160	635	149	1,645	99	3,980
005 Year	185	283	130	95	1,340	178	612	135	1,698	103	4,067
06 Year	182	283	132	103	1,373	181	631	152	1,720	103	4,160
	102	205	155	105		101	001	152	1,720	105	4,100
07 January	176	285	128	101	1,366	187	643	153	1,724	109	4,182
February	178	292	135	103	1,384	183	636	147	1,666	107	4,123
March	166	289	134	103	1,356	186	620	156	1,678	104	4,100
April	179	290	135	102	1,372	185	619	149	1,694	110	4,130
May	178	287	132	103	1,371	189	616	159	1,724	113	4,171
June	174	283	133	97	1,349	188	622	158	1,730	115	4,162
July	175	280	132	98	1,361	192	632	165	1,733	111	4,195
August	176	278	134	98	1,358	196	641	157	1,716	108	4,176
September	175	276	134	90	1,355	196	630	157	1,717	111	4,166
October	165	273	132	96	1,328	194	629	159	1,708	115	4,132
November	166	270	130	91	1,326	194	622	149	1,690	108	4,089
December	180	275	133	90	1,351	194	621	143	1,665	108	4,083
08 January	182	281	136	95	1,381	195	621	155	1,677	110	4,139
February	176	276	129	95	1,355	193	605	149	1,664	114	4,080
March	177	281	131	100	1,384	193	610	143	1,655	111	4,096
April	173	279	134	98	1,367	191	610	141	1,666	106	4,082
	177	277	136	99	1,372	193	617	146	1,674	107	4,109
June	177	273	137	99	1,371	193	619	147	1,686	110	4,125
July	179	274	135	95	1,390	197	627	153	1,698	105	4,170
August	176	276	131	96	1,382	202	643	150	1,711	106	4,193
September	177	274	130	95	1,364	202	646	141	1,704	117	4,174
October	179	270	129	93	1,362	202	648	138	1,711	122	4,183
November	179	275	127	96	1,378	200	641	139	1,732	117	4,207
December	179	277	128	99	1,409	194	630	135	1,737	114	4,218
09 January	179	280	136	100	1.416	196	618	149	1,762	115	4.255
February	178	279	128	98	1,412	196	619	157	1,770	109	4,264
March	178	278	131	100	1,415	198	611	155	1,795	110	4,285
April	173	279	132	98	1,408	199	606	152	1,812	115	4,291
May	176	281	133	92	1,403	198	609	149	1,829	112	4.300
June	173	280	129	92	^R 1,404	198	611	149	1,839	110	R 4,312
July	174	200	123	97	^R 1,393	202	607	157	1,842	108	R 4,308
August	178	284	130	96	1,412	R 201	610	160	1,828	111	R 4,322
September	174	277	129	^R 94	^R 1,400	^R 196	607	167	1,845	117	R 4,332
October	174	278	129	⁸ 96	^R 1,382	^R 200	604	167	1,843	109	4,332
November	173	283	130	90 95	1,302	200	606	162	1,814	109	4,204
	113	205	130	30	1,+00	201	000	102	1,014	100	+,∠90

^a Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, 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, 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.doe.gov/emeu/mer/inter.html for all available data beginning in 1973.

Sources: • United States: Table 3.4. • U.S. Territories: 1983 forward—U.S. Energy Information Administration, International Energy Database. • All Other Data: 1973-1982—International Energy Agency (IEA), *Quarterly Oil Statistics and Energy Balances*, various issues. 1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, February 11, 2010.

International Petroleum

Tables 11.1a and 11.1b Sources

United States Table 3.1.

All Other Countries and World, Annual Data

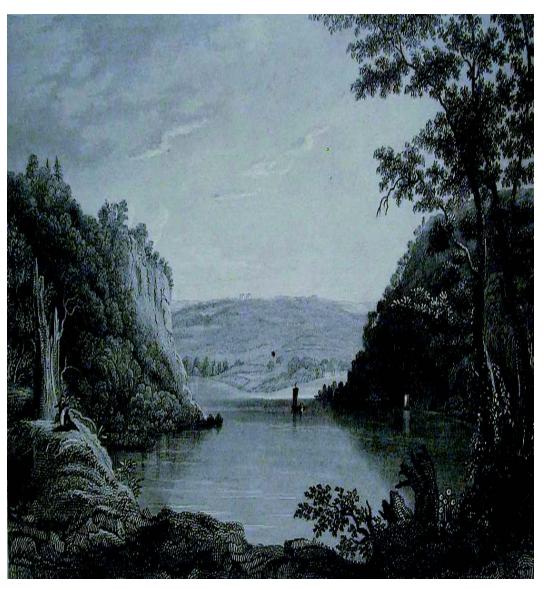
1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, Office of Energy Markets and End Use (EMEU), International Energy Database, March 2010.

All Other Countries and World, Monthly Data

1973-1980: Petroleum Intelligence Weekly (PIW), Oil & Gas Journal (OGJ), and EIA adjustments.
1981-1993: PIW, OGJ, and other industry sources.
1994 forward: EIA, International Petroleum Monthly, and EMEU, International Energy Database, March 2010.

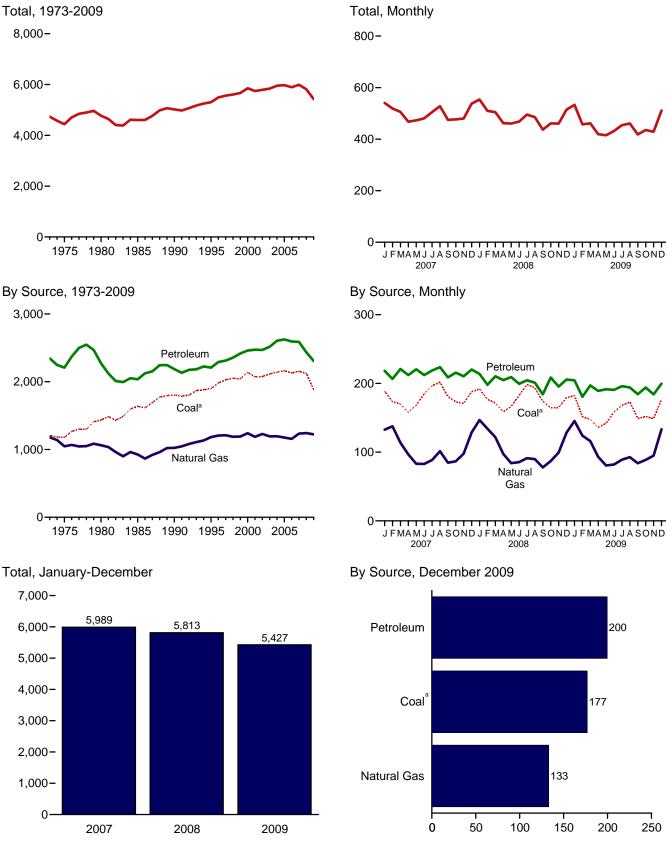


Environment



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

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



^a Includes coal coke net imports.

Web Page: http://www.eia.doe.gov/emeu/mer/environ.html. Source: Table 12.1.

Table 12.1 Carbon Dioxide Emissions From Energy Consumption by Source

(Million Metric Tons of Carbon Dioxide^a)

								Petrole	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
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 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	1,207 1,181 1,436 1,638 1,900 1,982 2,027 2,050 2,046 2,138 2,074 2,074 2,074 2,116 2,140 2,161 2,130	1,181 1,047 1,063 926 1,025 1,184 1,205 1,184 1,205 1,189 1,192 1,241 1,187 1,229 1,195 1,195 1,176 1,157	6 5 4 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2	480 443 446 445 470 498 524 538 555 580 598 587 610 632 640 648	155 146 156 178 223 232 232 234 238 245 254 243 231 240 246 240	32 24 24 17 6 8 9 10 12 11 10 11 6 8 10 10 8	91 82 86 69 78 84 85 75 91 102 92 92 95 98 95 98 94 93	13 11 13 12 13 13 13 12 13 14 14 14 14 14 12 11	911 910 930 987 1,045 1,063 1,075 1,105 1,128 1,136 1,151 1,181 1,187 ℝ 1,210 1,212 1,216	51 48 46 55 67 75 78 89 93 84 88 94 94 105 105 104	508 443 216 220 152 152 158 142 158 145 145 138 155 138 155 164 122	100 97 142 93 127 114 132 138 125 130 117 132 127 140 142 141 150	2,346 2,209 2,272 2,035 2,186 2,208 R 2,290 2,313 2,356 2,417 2,461 2,473 2,473 2,473 2,517 2,605 2,626 2,595	4,733 4,437 4,770 4,600 5,020 5,302 5,488 5,562 5,605 5,665 5,850 8,5,745 8,5,789 8,5,838 5,952 5,974 8,5,893
2007 January February March May June July August October November December Total	189 174 170 158 168 185 197 202 181 173 171 188 2,155	R 133 138 114 R 97 83 83 R 89 101 R 85 R 87 R 98 R 129 R 1,234	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	56 55 57 54 53 53 55 53 56 52 55 652	20 18 19 20 20 21 21 18 20 19 20 238	1 (s) (s) (s) (s) (s) (s) (s) (s) (s) 1 5	10 10 8 7 7 7 7 7 7 8 8 8 9 94	1 1 1 1 1 1 1 1 1 1 1 2	99 90 102 99 105 102 107 106 99 102 99 102 8 7 1,212	7 9 7 9 8 7 9 9 7 8 10 98	11 13 11 10 10 11 10 11 10 9 11 10 128	13 13 12 14 14 11 12 12 11 12 13 12 148	218 207 221 212 219 219 224 209 216 210 220 ^R 2,588	^R 541 519 506 ^R 468 473 481 505 528 475 ^R 477 480 ^R 538 ^R 5,989
2008 January February March April May July August September October November December Total	R 192 R 177 159 R 166 183 R 198 R 194 R 174 R 165 R 179 R 179 R 2,123	^R 147 ^R 134 ^R 122 97 84 ^R 85 91 90 78 87 99 128 ^R 1,243	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	55 53 55 52 48 49 48 48 55 49 50 615	20 18 19 20 20 20 20 20 18 18 18 17 7 7 226	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 9 8 7 6 7 7 7 5 7 7 8 8 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1	97 91 100 96 101 96 100 100 89 98 94 97 1,159	8 7 8 8 7 9 8 6 8 7 8 7 8 9 2	10 8 9 10 10 10 10 10 8 8 8 9 8 11 110	12 12 10 11 11 10 9 9 10 12 12 12 12 130	214 198 210 205 209 R 199 205 201 184 209 195 206 2,436	^R 554 ^R 510 ^R 505 462 461 ^R 468 495 ^R 485 437 ^R 461 461 ^R 514 ^R 5,813
2009 January February March April June July August September October November December Total	182 152 147 136 142 158 168 173 149 ^R 152 ^R 152 ^R 149 177 1,885	145 124 116 93 ^R 81 82 89 ^R 93 84 ^R 95 133 1,224	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	54 47 49 44 45 46 45 46 45 44 48 45 51 564	17 15 18 17 17 19 18 17 16 17 205	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	9 7 8 6 5 7 7 6 8 9 10 88	1 1 1 1 1 1 1 1 1 1 10	95 87 94 99 97 101 100 93 97 93 96 1,150	7 6 7 8 9 6 7 8 6 6 6 8 5	11 7 9 10 7 9 5 7 5 8 6 9 93	11 10 8 8 7 11 9 10 9 8 9 108	204 181 197 189 192 191 196 194 184 184 184 200 2,306	533 457 ^R 462 419 415 R 432 454 461 418 R 435 R 435 R 429 511 5,427

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44. ^b Includes coal coke net imports.

^c Natural gas, excluding supplemental gaseous fuels.

^d Distillate fuel oil, excluding biodiesel.

^e Liquefied petroleum gases.

^f Finished motor gasoline, excluding fuel ethanol.

^g Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, ^h Includes electric power sector use of geothermal energy and non-biomass

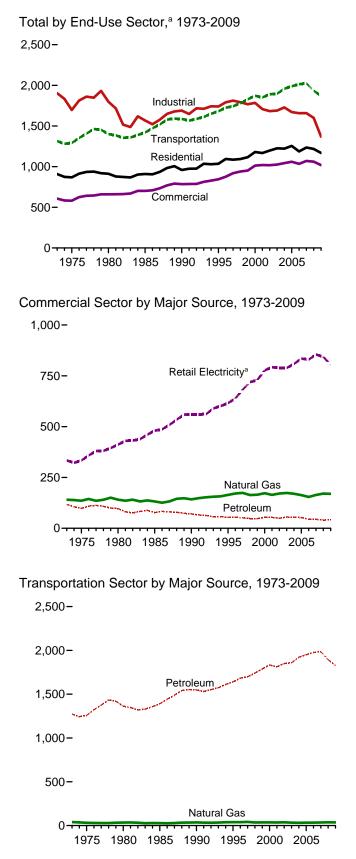
waste. See Table 12.6.

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

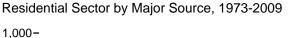
Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Totals may not equal sum of components due to independent rounding. Geographic • coverage is the 50 States and the District of Columbia.

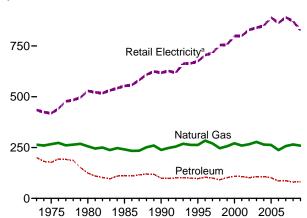
Web Page: See http://www.eia.doe.gov/emeu/mer/environ.html for all available data beginning in 1973.



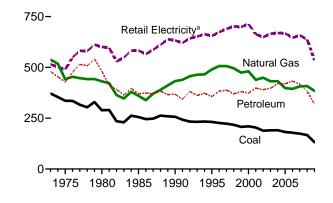


^a Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales.

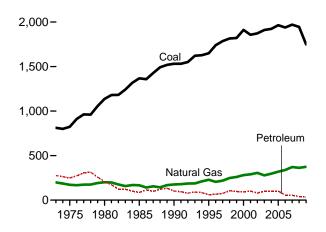




Industrial Sector by Major Source, 1973-2009 1,000-



Electric Power Sector by Major Source, 1973-2009 2,500-



Web Page: http://www.eia.doe.gov/emeu/mer/environ.html. Sources: Table 12.2-12.6.

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector

(Million Metric Tons of Carbon Dioxide^a)

				Petrol	eum			
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Retail Elec- tricity ^e	Total
973 Total	9	264	147	16	38	200	435	909
975 Total	6	266	132	12	33	177	419	868
980 Total	3	256	96	8	21	124	529	912
985 Total	4	241	80	11	21	112	553	909
	3	238	72	5	23	99	618	959
990 Total								
995 Total	2	263	66	5	25	97	674	1,035
996 Total	2	284	68	6	30	104	705	1,095
997 Total	2	270	64	7	29	100	715	1,086
998 Total	1	247	56	8	27	92	754	1,093
999 Total	1	257	61	8	34	102	757	1,117
000 Total	1	271	66	7	36	109	799	1,180
001 Total	1	259	66	7	34	107	800	1,167
002 Total	1	266	63	4	34	101	829	1,198
003 Total	1	200	66	5	34	107	839	1,130
	1							
004 Total		265	68	6	34	107	849	1,222
005 Total	1	263	62	6	33	101	890	1,255
006 Total	1	237	52	5	29	86	863	1,187
007 January	(s)	44	6	(s)	3	9	81	134
February	(s)	49	6	(s)	3	9	76	135
March	(s)	34	6	(s)	3	9	66	100
April	(s)	22	3	(S)	2	6	57	85
	• •			. ,				
May	(s)	12	3	(s)	2	5	61	78
June	(s)	7	3	(s)	2	5	76	89
July	(s)	6	3	(s)	2	5	90	102
August	(s)	6	3	(s)	2	6	99	111
September	(s)	6	3	(s)	2	6	80	92
October	(s)	9	4	(s)	2	7	66	82
November	(s)	22	5	(s)	3	8	61	92
December	(s)	39	8	(s)	3	11	78	128
Total	1	257	53	3	30	87	891	1,235
		10	-		0	10		
)08 January	(s)	48	7	(s)	3	10	86	144
February	(s)	^R 45	7	(s)	3	10	74	128
March	(s)	36	5	(s)	3	8	67	111
April	(s)	21	4	(s)	2	6	57	^R 84
May	(s)	12	3	(s)	2	5	58	76
June	(s)	8	3	(s)	2	5	77	^R 90
July	(s)	6	3	(s)	2	5	92	^R 103
August	(s)	6	3	(s)	2	5	R 88	100
September	(s)	6	3	(s)	2	5	72	83
October	(s)	12	3	(S)	2	6	R 60	78
	• •	23	4	. ,	2	6	62	92
November	(s)	42		(s)	2	9		
December	(s)		6	(s)			80 B 87 2	131 R 4 349
Total	1	265	50	1	29	80	^R 872	^R 1,218
09 January	(s)	51	7	(s)	3	10	86	147
February	(s)	41	6	(s)	2	8	68	117
March	(s)	32	5	(s)	^R 2	8	63	103
April	(s)	21	4	(s)	2	7	53	81
May	(s)	11	3	(s)	2	5	56	73
June	(s)	8	3	(S)	2	5	70	83
		7	3		2	5	83	95
July	(s)			(s)				
August	(s)	6	3	(s)	2	6	^R 86	97
September	(s)	6	4	(s)	2	6	67	79
October	(s)	14	3	(s)	3	6	_ 59	_ 79
November	(s)	20	4	(s)	3	7	^R 57	^R 85
December	(s)	41	6	(s)	3	9	79	130
Total	1	259	51	2	29	82	827	1,169

^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.

R=Revised. (s)=Less than 0.5 million metric tons. Notes: $\bullet\,$ Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note, "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.doe.gov/emeu/mer/environ.html for all available data beginning in 1973.

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

						Petroleum	I				
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total
1973 Total	15	141	47	5	7	6	NA	52	117	334	607
1975 Total	14	136	43	4	6	6	NA	39	97	333	581
1980 Total	11	141	38	3	4	8	NA	44	97	412	660
1985 Total	13	132	46	2	4	7	NA	18	77	480	702
1990 Total	12	142	39	1	4	8	0	18	70	561	785
1995 Total	11	164	35	2	4	1	(s)	11	54	616	845
1996 Total	12	171	35	2	5	2	(s)	11	55	638	876
1997 Total	12	174	32	2	5	3	(s)	9	51	682	920
1998 Total	9	164	31	2	5	3	(s)	7	48	719	940
1999 Total	10	165	32	2	6	2	(s)	6	48	729	952
2000 Total	9	173	36	2	6	3	(s)	7	55	777	1,013
2001 Total	9	164	37	2	6	3	(s)	6	54	792	1,019
2002 Total	9	171	32	1	6	3	(s)	6	49	789	1,018
2003 Total	8	174	35	1	6	4	(s)	9	56	789	1,026
2004 Total	10	170	34	1	6	3	(s)	10	55	809	1,043
2005 Total	9	163	33	2	6	3	(s)	9	52	835	1,060
2006 Total	6	154	29	1	5	3	(s)	6	45	830	1,035
2007 January	1	24	3	(s)	1	(s)	(s)	1	5	69	98
February	1	26	3	(s)	1	(s)	(s)	1	5	63	95
March	1	19	3	(s)	(s)	(s)	(s)	1	5	64	89
April	(s)	14	2	(s)	(s)	(s)	(s)	(s)	3	63	81
May	(s)	9	1	(s)	(s)	(s)	0	(s)	2	69	81
June	(s)	7	2	(s)	(s)	(s)	0	(s)	3	76	86
July	(s)	7	2	(s)	(s)	(s)	0	(s)	3	80	90
August	(s)	7	2	(s)	(s)	(s)	(s)	(s)	3	86	96
September	(s)	7	2	(s)	(s)	(s)	(s)	(s)	3	74	84
October	1	9	2	(s)	(s)	(s)	(s)	(s)	3	73	85
November	1	14	3	(s)	(s)	(s)	(s)	1	4	67	86
December	1	^R 22	4	(s)	(s)	(s)	(s)	1	6	70	98
Total	7	164	28	1	5	4	(s)	6	44	855	1,070
2008 January	1	26	4	(s)	1	(s)	(s)	1	5	^R 70	^R 102
February	1	_ 25	4	(s)	(s)	(s)	(s)	1	5	^R 65	96
March	1	^R 21	3	(s)	(s)	(s)	(s)	1	4	_ 65	^R 90
April	(s)	14	2	(s)	(s)	(s)	(s)	(s)	3	^R 63	^R 80
Мау	(s)	10	1	(s)	(s)	(s)	0	(s)	2	^R 68	^R 80
June	^R 1	7	2	(s)	(s)	(s)	0	(s)	3	^R 76	^R 86
July	(s)	7	2	(s)	(s)	(s)	0	(s)	3	^R 82	^R 92
August	(s)	7	1	(s)	(s)	(s)	0	(s)	2	^R 79	^R 89
September	(s)	7	1	(s)	(s)	(s)	(s)	(s)	2	^R 72	^R 82
October	1	10	2	(s)	(s)	(s)	(s)	(s)	3	^R 70	^R 83
November	1	15	2	(s)	(s)	(s)	(s)	(s)	3	^R 66	^R 85
December	1	23	3	(s)	(s)	(s)	(s)	1	5	^R 68	^R 97
Total	6	^R 171	26	(s)	5	3	(s)	6	41	^R 844	^R 1,062
2009 January	1	28	4	(s)	(s)	(s)	(s)	1	5	70	104
February	1	23	3	(s)	(s)	(s)	(s)	1	4	59	_ 87
March	1	20	3	(s)	(s)	(s)	(s)	1	4	61	^R 86
April	(s)	13	2	(s)	(s)	(s)	0	(s)	3	59	76
May	(s)	9	2	(s)	(s)	(s)	0	(s)	3	_ 64	76
June	(s)	7	1	(s)	(s)	(s)	0	(s)	2	^R 72	^R 82
July	(s)	7	2	(s)	(s)	(s)	0	(s)	3	75	85
August	(s)	7	2	(s)	(s)	(s)	(s)	(s)	3	77	88
September	(s)	7	2	(s)	(s)	(s)	(s)	(s)	3	67	78
October	^R (s)	11	2	(s)	(s)	(s)	0	(s)	3	66	_ 81
November	1	14	2	(s)	1	(s)	^R (s)	(s)	3	^R 62	^R 79
December	1	23	3	(s)	1	(s)	(s)	1	5	70	98
Total	6	169	27	(s)	5	3	(s)	6	41	803	1,019

(Million Metric Tons of Carbon Dioxide^a)

^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.

R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons. Notes: $\bullet\,$ Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note, "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.doe.gov/emeu/mer/environ.html for all available data beginning in 1973.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

(Million Metric Tons of Carbon Dioxide^a)

		Coal								Petroleum										
	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						
1973 Total	371	-1	538	106	11	44	7	18	49	144	100	480	515	1,903						
1975 Total	336	2	442	97	9	40	6	16	48	117	97	429	490	1,697						
1980 Total	289	-4	431	96	13	62	7	11	45	105	142	481	601	1,798						
1985 Total	256	-2	360	81	3	60	6	15	54	57	93	370	583	1,567						
1990 Total	257	1	432	84	1	41	7	13	64	31	127	367	633	1,690						
1995 Total	231	7	490	82	1	47	7	14	67	24	114	357	655	1,740						
1996 Total	226	3	506	86	1	48	6	14	70	24	132	383	673	1,792						
1997 Total 1998 Total	223 218	5 8	506 495	88 88	1	50 41	7 7	15 14	68 77	21 16	138 125	388 370	690 701	1,812 1,792						
1999 Total	218	° 7	495	86	1	51	7	14	81	14	125	370	699	1,768						
2000 Total	210	7	481	87	1	59	7	11	74	17	117	373	713	1,785						
2001 Total	204	3	439	95	2	51	6	21	77	14	132	398	663	1,707						
2002 Total	188	7	449	88	1	57	6	22	76	13	127	390	649	1,683						
2003 Total	190	6	432	83	2	52	6	23	76	15	140	397	666	1,690						
2004 Total	191	16	432	88	2	58	6	26	82	17	142	421	669	1,728						
2005 Total	182	5	398	92	3	54	6	25	80	20	141	419	667	1,671						
2006 Total	178	7	394	92	2	58	6	26	82	16	150	432	646	1,658						
2007 January	15	(s)	_ 37	10	(s)	6	1	2	6	1	13	38	53	144						
February	14	(s)	^R 36	9	(s)	6	(s)	2	5	1	13	37	49	136						
March	15	(s)	35	9	(s)	5	1	2	8	1	12	38	52	139						
April	14	(s)	33 32	9	(s)	4 4	1	2 2	6 8	1	14 14	36 37	52 55	135 ^R 140						
May June	15 15	(s) 1	82 R 32	0 7	(s) (s)	4	(s)	2	о 6	1	14	37	55	^R 135						
July	14	(s)	R 32	6	(s)	4	(3)	2	6	1	12	32	58	135						
August	14	(s)	33	7	(s)	4	(s)	2	8	1	12	34	61	142						
September	14	(s)	32	8	(s)	4	(s)	2	7	1	11	33	54	133						
October	15	(s)	33	8	(s)	5	1	2	6	1	12	33	57	138						
November	14	1	^R 35	6	(s)	5	(s)	2	6	1	13	33	55	137						
December	15	(s)	37	6	(s)	6	(s)	2	8	1	12	35	55	143 P 1 9 9 9						
Total	174	3	^R 406	92	1	57	6	21	80	13	148	417	658	^R 1,658						
2008 January	14	(s)	39	9	(s)	6	(s)	1	7	1	12	38	^R 54	^R 146						
February	14	(s)	37	9	(s)	5	(s)	1	5 7	1	12	34	^R 51 ^R 52	^R 136 ^R 139						
March April	14 14	1	37 34	8	(s) (s)	5 4	1	1 1	7	1	10 11	34 ^R 32	^R 52	^R 139						
May	14	(s)	R 33	8	(s) (s)	4	1	1	6	1	11	32	R 55	^R 135						
June	14	(0)	32	5	(s)	4	(s)	1	6	1	10	28	^R 55	^R 131						
July	14	1	33	5	(s)	4	(s)	1	8	1	9	29	^R 56	^R 133						
August	14	(S)	33	5	(s)	4	1	1	7	1	9	27	^R 56	^R 131						
September	14	(s)	29	6	(s)	3	(s)	1	4	1	10	26	^R 52	^R 122						
October	15	(S)	33	10	(s)	4	1	1	6	1	12	36	^R 53	136						
November	13	(s)	R 33	7	(s)	4	(s)	1 1	6 7	1	12	32	^R 51 ^R 48	^R 130 ^R 127						
December Total	12 ^R 167	(s) 5	34 ^R 408	5 87	(s) (s)	5 54	(s) 6	17	76	12	12 130	33 382	R 638	^R 1,599						
		•		-	(0)	•••	•													
2009 January	12	(s)	36	9	(s)	5	(s)	1	6	1	11	34	46	127						
February	12	(s)	32	6	(s)	4	(s)	1	5	1	10	28	40	113						
March April	12 10	(s) (s)	33 31	6 3	(s) (s)	5 4	(s) (s)	1 1	6 7	1	8 8	27 25	42 41	114 107						
Арлі Мау	10	(S) (S)	30	4	(S) (S)	4	(S) (S)	1	7	1	о 8	25 25	41	107						
June	10	(S)	29	4	(s)	3	(S)	1	7	1	7	25	45	108						
July	10	(s)	30	3	(s)	4	(s)	1	5	1	11	25	46	111						
August	11	(s)	31	2	(s)	4	1	1	6	1	9	23	49	113						
September	_ 11	(s)	30	3	(s)	4	(s)	1	6	1	10	25	^R 45	_ 111						
October	^R 12	(s)	33	5	(s)	5	(s)	1	5	1	9	27	46	^R 117						
November	11	(s)	33	5	(s)	6	(s)	1	5	1	8	26	^R 45	^R 115						
December	11	(s)	36	6	(s)	6	(s)	1	5	1	9	29	47	124						
Total	132	-3	384	56	1	53	5	17	70	10	108	319	535	1,368						

^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 Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.

^g Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See

Tables 7.6 and 12.6.

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

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Totals may not equal sum of components due to independent rounding. coverage is the 50 States and the District of Columbia. Geographic

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

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector

(Million Metric Tons of Carbon Dioxide^a)

						Petro	oleum				D (11	
	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
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1999 Total 2000 Total 2000 Total 2001 Total 2003 Total 2004 Total 2005 Total 2005 Total 2005 Total 2006 Total	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	39 32 34 28 36 38 39 41 35 36 35 36 35 37 33 32 33 33 33	6 5 4 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2	163 155 204 232 268 307 327 342 352 366 378 387 394 414 434 444 469	152 145 155 178 223 232 234 238 245 254 243 237 237 231 240 246 240	3 3 1 2 1 1 1 1 1 1 1 1 1 1 2 2	6 6 6 6 7 6 6 6 6 6 6 6 6 5	886 889 881 908 966 1,030 1,047 1,057 1,088 1,115 1,122 1,127 1,156 1,160 R ⁻¹ ,181 1,184 1,187	57 56 110 62 80 72 67 56 53 52 70 46 53 45 53 45 58 66 71	1,273 1,258 1,363 1,391 1,548 ^R 1,640 1,683 1,699 1,741 1,789 1,833 1,813 1,850 1,859 1,922 1,951 1,976	2 2 2 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 5 5 5	1,315 1,291 1,400 1,421 1,587 1,682 1,725 1,744 1,780 1,828 1,873 1,851 1,891 1,897 1,959 1,989 2,014
2007 January February March April June July September October November December Total	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	4 3 3 2 2 3 3 2 2 3 4 35	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	37 35 39 40 41 41 42 43 40 41 37 37 472	20 18 19 20 20 21 21 18 20 19 20 238	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 (s) 1 (s) (s) (s) (s) (s) 1 (s) (s) 6	97 88 100 97 103 100 105 104 97 100 97 100 1,187	7 6 6 7 7 6 6 6 6 8 7 7 8	161 148 165 ^R 163 172 168 ^R 174 175 163 168 162 164 1,985	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	165 153 169 167 175 171 177 178 165 171 165 168 R 2,025
2008 January February March May June July August September October November December Total	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	4 R4 3 2 3 3 3 2 3 3 4 R 3 7	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	35 33 37 38 39 39 39 39 39 37 40 36 35 446	20 18 19 20 20 20 20 20 18 18 18 17 17 226	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	95 89 98 95 100 95 98 98 88 98 88 96 92 95 1,139	7 5 6 7 7 6 7 5 5 6 5 8 7 4	157 146 162 160 167 159 164 163 148 ^R 161 151 ^R 155 1,893	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	162 150 166 163 170 162 167 166 150 164 154 160 ^R 1,935
2009 January February April June July August September October November December Total	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	4 3 3 2 2 3 3 8 3 3 3 4 37	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	34 31 35 34 36 37 38 37 35 37 34 35 424	17 15 18 17 17 17 19 18 17 16 17 205	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	93 86 95 93 97 95 99 99 92 95 91 94 1,128	6 4 7 5 6 3 5 3 8 6 4 6 3 8 6 3	150 137 155 152 156 159 160 147 156 146 154 154	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	155 ^R 141 159 155 ^R 159 162 163 150 159 149 158 1,869

^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 Beginning in 1978, the small amounts of coal consumed for transportation are

reported as industrial sector consumption.

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

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at end of section. . See "Carbon Dioxide" in Glossary. . See Note, "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.doe.gov/emeu/mer/environ.html for all available data beginning in 1973.

Table 12.6 Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector

(Million Metric Tons of Carbon Dioxide^a)

	Coal			Petro	leum				Total
		Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Non- Biomass Waste ^d	
973 Total	812	199	20	2	254	276	NA	NA	1,286
975 Total	824	172	17	(s)	231	248	NA	NA	1,244
980 Total	1,137	200	12	(3)	194	207	NA	NA	1,544
985 Total	1,367	166	6	1	79	86	NA	NA	1,619
				-					
990 Total	1,531	176	7	3	92	102	(s)	6	1,815
95 Total	1,649	228	8	8	45	61	(s)	10	1,948
96 Total	1,740	205	8	8	50	66	(s)	10	2,020
97 Total	1,785	219	8	10	56	75	(s)	10	2,090
98 Total	1,815	248	10	13	82	105	(s)	10	2,178
99 Total	1,821	260	10	11	76	97	(s)	10	2,189
00 Total	1,911	281	13	10	69	91	(s)	10	2,294
01 Total	1,856	290	12	11	79	102	(s)	11	2,259
02 Total	1,872	306	9	18	52	79	(s)	13	2,270
03 Total	1,911	278	12	18	69	98	(s)	11	2,299
04 Total	1,923	297	8	23	69	100	(s)	11	2,331
05 Total	1,964	319	8	25	69	100	(s)	11	2,397
06 Total	1,938	338	5	23	28	56		11	2,397
	1,330	330		22	20	50	(s)		2,343
07 January	173	24	1	2	3	5	(s)	1	203
-	158	24		1	5	7		1	190
February				1		4	(s)	1	
March	154	23		1	3	-	(s)		182
April	143	25	(s)	1	2	4	(s)	1	173
Мау	153	28	(s)	1	2	4	(s)	1	186
June	169	34	1	2	3	5	(s)	1	209
July	182	41	1	1	3	5	(s)	1	229
August	187	53	1	2	4	6	(S)	1	246
September	166	37	(s)	1	2	4	(s)	1	208
October	158	33	(s)	1	2	4	(s)	1	196
November	155	24	(s)	1	1	3	(s)	1	183
December	172	27	(s)	2	2	4	(s)	1	204
Total	1,971	372	7	17	31	55	(s)	11	2,409
	1,011	0.2			0.		(0)	••	2,100
08 January	176	29	1	^R 1	2	4	(s)	1	^R 210
February	^R 162	24	1	1	1	3	(s)	1	^R 190
March	155	25	(s)	1	1	3	(s)	1	184
April	^R 143	^R 26	(S)	1	1	3	(s)	1	173
May	^R 151	26	(s)	1	1	3	(s)	1	R 181
June	167	36	(3)	1	2	4		1	R 208
		⁸ 42	1 .	1		4	(s)	1	
July	183 ^R 179		(s)	1	2	-	(s)		230
August		41	(s)	1	2	3	(s)	1	224
September	^R 159	33	(s)	1	2	4	(s)	1	197 P 197
October	^R 149	30	(s)	1	1	3	(s)	1	^R 183
November	^R 151	25	(s)	1	1	3	(s)	1	_ 180
December	167	26	1	1	2	4	(s)	1	^R 197
Total	^R 1,944	362	5	16	19	40	(s)	11	^R 2,358
09 January	170	26		1	3	5	(s)	1	202
February	139	^R 25	(s)	1	1	3	(s)	1	167
March	135	27	1	1	1	3	(s)	1	166
April	126	25	(s)	1	1	2	(s)	1	154
May	132	28	(s)	1	1	3	(s)	1	164
June	148	35	(s)	1	1	3	(s)	1	187
July	158	42	(S)	1	1	3	(s)	1	204
	162	⁴² ^R 46		1	2	3		1	212
August			(s)	1	∠ 4		(s)	1	
September	138	37	(s)	1	1	3	(s)	1	179 ^R 172
October	140	29	(s)	1	1	2	(s)	1	1/2 D
November	^R 137	^R 25	(s)	1	1	2	(s)	1	^R 165
December	165	28	(s)	1	1	2	(s)	1	197
Total	1,750	374	5	14	14	34	(s)	11	2,169

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44. b Natural gas, excluding supplemental gaseous fuels.

^c Distillate fuel oil, excluding biodiesel.

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

R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates. See "Section 12 Methodology and Sources" at

end of section. • See "Carbon Dioxide" in Glossary. • See Note, "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.doe.gov/emeu/mer/environ.html for all available data beginning in 1973.

Environment

Note. 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.

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.doe.gov/oiaf/1605/ggrpt/carbon.html.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1-12.6, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine Fossil Fuel Consumption

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

Coal Coke Net Imports—Coal coke net imports data in trillion Btu are derived from coal coke imports and exports data in *MER* Tables 1.4a and 1.4b.

Natural Gas (excluding supplemental gaseous fuels)—Natural gas sectoral consumption data in trillion Btu are from *MER* Tables 2.2-2.6.

Petroleum—Total and sectoral consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, liquefied petroleum gases (LPG), lubricants, motor

gasoline, petroleum coke, and residual fuel oil are from MER Tables 3.5 and 3.7a-c. 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 LPG and motor gasoline).

Step 2. Remove Biofuels From Petroleum

Distillate Fuel Oil—Beginning in 2009, the distillate fuel oil data (for total and transportation sector) in Step 1 include biodiesel, a non-fossil renewable fuel. To remove the biodiesel portion from distillate fuel oil, data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel (from the *PSA/PSM*) are converted to trillion Btu by multiplying by the biodiesel heat content factor in *MER* Table A3, and then subtracted from the distillate fuel oil consumption values.

Motor Gasoline-Beginning in 1993, the motor gasoline data (for total, commercial sector, industrial sector, and transportation sector) in Step 1 include fuel ethanol, a nonfossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from MER Tables 10.2a, 10.2b, and 10.3) are subtracted from the motor gasoline consumption values. (Note that about 2 percent of fuel ethanol is fossil-based petroleum denaturant, to make the fuel ethanol undrinkable. For 1993-2008, petroleum denaturant is double counted in the PSA product supplied statistics, in both the original product category-e.g., pentanes plus-and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

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

Estimates of annual nonfuel use and associated carbon sequestration are from EIA's Office of Integrated Forecasting and Analysis—for details, see "Documentation for *Emissions of Greenhouse Gases in the United States 2006*" at http://www.eia.doe.gov/oiaf/1605/ggrpt/documentation/pdf/0638(2006).pdf.

To obtain monthly estimates of nonfuel use and associated carbon sequestration, monthly patterns for industrial consumption and product supplied data series are used. For coal nonfuel use, the monthly pattern for coke plants coal consumption from *MER* Table 6.2 is used. For natural gas, the monthly pattern for other industrial non-CHP natural gas consumption from *MER* Table 4.3 is used. For distillate fuel oil, petroleum coke, and residual fuel oil, the monthly patterns for industrial consumption from *MER* Table 3.7b are used. For the other petroleum products, the monthly patterns for product supplied from the *PSA* and *PSM* are used.

Step 4. Determine Carbon Dioxide Emissions From Energy Consumption

Carbon dioxide emissions data in million metric tons for fossil fuels are calculated by multiplying consumption values in trillion Btu from Steps 1 and 2 (minus the carbon sequestered in nonfuel use in Step 3) by the CO₂ emissions factors at http://www.eia.doe.gov/oiaf/1605/ggrpt/excel/ CO2_coeff.xls. For 2007-2009, the 2006 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 using a coal coke factor of 114.14 million metric tons CO₂ per quadrillion Btu.

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. Residual fuel oil emissions are calculated using the "Residual Fuel" (not the "Residual Fuel-Electric Utility") factor.

Geothermal and Non-Biomass Waste—Annual 1989-2007 CO_2 emissions data for geothermal and non-biomass waste are from EIA's *Annual Energy Review* (*AER*), Table 12.7b. Monthly estimates are created by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month. (Annual estimates for the current year are set equal to those of the previous year.)



Appendix

British Thermal Unit Conversion Factors

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

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

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

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

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

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

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Pentanes Plus	4.620
Aviation Gasoline	5.048	Petrochemical Feedstocks	
Butane	4.326	Naptha Less Than 401°F	5.248
Butane-Propane Mixture ^a	4.130	Other Oils Equal to or Greater Than 401°F	5.825
Distillate Fuel Oil ^b	5.825	Still Gas	6.000
Ethane	3.082	Petroleum Coke	6.024
Ethane-Propane Mixture ^c	3.308	Plant Condensate	5.418
Isobutane	3.974	Propane	3.836
Jet Fuel, Kerosene Type	5.670	Residual Fuel Oil	6.287
Jet Fuel, Naphtha Type	5.355	Road Oil	6.636
Kerosene	5.670	Special Naphthas	5.248
Lubricants	6.065	Still Gas	6.000
Motor Gasoline ^d		Unfinished Oils	5.825
Conventional	5.253	Unfractionated Stream	5.418
Reformulated	5.150	Waxes	5.537
Oxygenated	5.150	Miscellaneous	5.796
Natural Gasoline and Isopentane	4.620		

^a 60 percent butane and 40 percent propane.

^b Does not include biodiesel. See Table A3 for biodiesel heat contents.

° 70 percent ethane and 30 percent propane.

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

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

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

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	
973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752	
1974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774	
1975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748	
976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745	
	5.800	3.941	5.810	5.908	5.834	5.800	5.745	5.743	
977	5.800		5.802			5.800	5.814	5.808	
978		3.925		5.955	5.839				
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	5.901	5.599	5.820	5.800	5.860	5.858	
988	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840	
989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857	
990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833	
991	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823	
992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777	
993	5.800	3.801	5.954	5.620	5.883	5.800	5.777	5.779	
994	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779	
995	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746	
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	
2008	5.800	3.706	5.990	5.479	5.866	5.800	5.762	5.762	
2009 ^P	5.800	^R 3.690	^R 5.989	^R 5.530	^R 5.885	5.800	^R 5.736	^R 5.737	

^a Includes lease condensate.

R=Revised. P=Preliminary. Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary. Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html. 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 Petroleum ^a Consumption by Sector		Liquefied	Matan		Fuel		Biodiesel			
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^b	Electric Power ^{c,d}	Total ^b	Petroleum Gases Con- sumption ^e	Motor Gasoline Con- sumption ^f	Fuel Ethanol ^g	Ethanol Feed- stock Factor ^h	Biodiesel	Biodiesei Feed- stock Factor ⁱ
1973	5.205	5.749	5.569	5.395	6.245	5.515	3.746	5.253	^R 3.563	NA	NA	NA
1974		5.740	5.538	5.394	6.238	5.504	3.730	5.253	^R 3.563	NA	NA	NA
1975		5.704	5.527	5.392	6.250	5.494	3.715	5.253	R 3.563	NA	NA	NA
1976	5.215	5.726	5.536	5.395	6.251	5.504	3.711	5.253	R 3.563	NA	NA	NA
1977	5.213	5.733	5.554	5.400	6.249	5.518	3.677	5.253	R 3.563	NA	NA	NA
1978	5.213	5.716	5.554	5.404	6.251	5.519	3.669	5.253	R 3.563	NA	NA	NA
1979	5.298	5.769	5.419	5.428	6.258	5.494	3.680	5.253	^R 3.563	NA	NA	NA
1980		5.803	5.374	5.440	6.254	5.479	3.674	5.253	R 3.563	6.586	NA	NA
1981	5.191	5.751	5.312	5.432	6.258	5.448	3.643	5.253	^R 3.563	6.562	NA	NA
1982	5.167	5.751	5.263	5.422	6.258	5.415	3.615	5.253	^R 3.563	6.539	NA	NA
1983	5.022	5.642	5.275	5.415	6.255	5.406	3.614	5.253	^R 3.563	6.515	NA	NA
1984	5.205	5.707	5.222	5.418	6.251	5.395	3.599	5.253	^R 3.563	6.492	NA	NA
1985	5.153	5.661	5.215	5.422	6.247	5.387	3.603	5.253	^R 3.563	6.469	NA	NA
1986	5.169	5.694	5.283	5.425	6.257	5.418	3.640	5.253	^R 3.563	6.446	NA	NA
1987	5.144	5.661	5.248	5.429	6.249	5.403	3.659	5.253	^R 3.563	6.423	NA	NA
1988	5.165	5.661	5.241	5.433	6.250	5.410	3.652	5.253	^R 3.563	6.400	NA	NA
1989	5.105	5.621	5.234	5.437	^c 6.240	5.410	3.683	5.253	^R 3.563	6.377	NA	NA
1990	5.027	5.621	5.270	5.442	6.244	5.411	3.625	5.253	^R 3.563	6.355	NA	NA
1991	4.968	5.599	5.186	5.440	6.246	5.384	3.614	5.253	^R 3.563	6.332	NA	NA
1992	5.004	5.589	5.185	5.442	6.238	5.378	3.624	5.253	^R 3.563	6.309	NA	NA
1993	4.975	^b 5.580	^b 5.196	^b 5.436	6.230	^b 5.379	3.606	5.253	^R 3.563	6.287	NA	NA
1994	4.983	5.592	5.166	5.424	6.213	5.361	3.635	^f 5.230	^R 3.563	6.264	NA	NA
1995	4.940	5.554	5.137	5.417	6.188	5.341	3.623	5.215	^R 3.563	6.242	NA	NA
1996	4.869	5.498	5.133	5.420	6.195	5.336	3.613	5.216	^R 3.563	6.220	NA	NA
1997	4.859	5.459	5.138	5.416	6.199	5.336	3.616	5.213	^R 3.563	6.198	NA	NA
1998	4.837	5.446	5.155	5.413	6.210	5.349	3.614	5.212	^R 3.563	6.176	NA	NA
1999	4.761	5.369	5.113	5.413	6.205	5.328	3.616	5.211	^R 3.563	6.167	NA	NA
2000	4.761	5.394	5.082	5.421	6.189	5.326	3.607	5.210	^R 3.563	6.159	NA	NA
2001	4.796	5.403	5.164	5.412	6.199	5.345	3.614	5.210	^R 3.563	6.151	5.359	5.433
2002	4.742	5.364	5.116	5.410	6.173	5.324	3.613	5.208	^R 3.563	6.143	5.359	5.433
2003		5.407	5.161	5.408	6.182	5.340	3.629	5.207	^R 3.563	^R 6.116	5.359	5.433
2004		5.434	5.164	5.420	6.192	5.350	3.618	5.215	^R 3.563	^R 6.089	5.359	5.433
2005		5.427	5.200	5.426	6.188	5.365	3.620	5.218	^R 3.563	^R 6.063	5.359	5.433
2006	4.742	5.392	5.179	5.431	6.143	5.353	3.605	5.218	^R 3.563	^R 6.036	5.359	5.433
2007	_4.696	_5.350	_5.146	_5.433	_6.151	5.346	3.591	5.219	^R 3.563	^R 6.009	5.359	5.433
2008	^E 4.705	^E 5.353	^E 5.129	^E 5.429	^P 6.124	5.339	3.600	5.218	^R 3.563	^R 5.983	5.359	5.433
2009		^E 5.353	^E 5.129	^E 5.429	^E 6.124	^{R P} 5.303	^{R P} 3.553	^P 5.218	^R 3.563	^R 5.957	5.359	5.433
2010	^E 4.705	^E 5.353	^E 5.129	^E 5.429	^E 6.124	^{RE} 5.303	^{RE} 3.553	^E 5.218	^R 3.563	^R 5.930	5.359	5.433

^a Petroleum products supplied, including natural gas plant liquids and crude oil burned directly as fuel. Quantity-weighted averages of the petroleum products included in each category are calculated by using heat content values shown in Table A1.

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

^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.

Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids. Quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

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. ^g 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 used as denaturant (5.253 million Btu per barrel). The factor for 2009 is used as the estimated factor for 1980-2008

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

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

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

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

Web Page: http://www.eia.doe.gov/emeu/mer/append a.html.

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

Fuel ethanol heat contents are revised to include denaturant. Fuel ethanol feedstock factors for 2003-2010 are revised to incorporate a newly obtained 2009 observed ethanol yield.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
072	1,093	1,021	1,020	1,024	1,021	1,026	1,023
973 974	1,093	1,024	1,020	1,024	1,021	1,020	1,023
	1,097	1,024	1,024	1,022	1,024	1,027	1,016
975							
976	1,093	1,020	1,019	1,023	1,020	1,025	1,013
977	1,093	1,021	1,019	1,029	1,021	1,026	1,013
978	1,088	1,019	1,016	1,034	1,019	1,030	1,013
979	1,092	1,021	1,018	1,035	1,021	1,037	1,013
980	1,098	1,026	1,024	1,035	1,026	1,022	1,013
981	1,103	1,027	1,025	1,035	1,027	1,014	1,011
982	1,107	1,028	1,026	1,036	1,028	1,018	1,011
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1,112	1,031	1,031	1,032	1,031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1,107	1,031	1,031	^c 1,028	1,031	1,004	1,019
990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
991	1,108	1,030	1,031	1,025	1,030	1,014	1,022
992	1,110	1,030	1,031	1,025	1,030	1,011	1,018
993	1,106	1,027	1,028	1,025	1,027	1,020	1,016
994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1,106	1,026	1,027	1,021	1,026	1,021	1,011
996	1,109	1,026	1,027	1,020	1,026	1,022	1,011
997	1,107	1,026	1,027	1,020	1,026	1,023	1,011
998	1,109	1,020	1,033	1,024	1,031	1,023	1,011
999	1,103	1,027	1,033	1,024	1,027	1,023	1,006
000	1,107	1,025	1,026	1,022	1,025	1,022	1,000
000	1,107	1,023	1,020	1,026	1,023	1,023	1,000
002	1,105	1,028	1,029	1,020	1,027	1,023	1,008
002	1,106	1,027	1,029	1,025	1,031	1,025	1,008
004	1,105	1,027	1,027	1,027	1,027	1,025	1,009
005	1,105	1,029	1,029	1,028	1,029	1,025	1,009
006	1,103	1,028	1,028	1,028	1,028	1,025	1,009
007	1,104	1,028	1,029	1,027	1,028	1,025	1,009
008	^E 1,104	^E 1,028	^E 1,029	P1,027	^E 1,028	^E 1,025	^E 1,009
009	^E 1,104	^E 1,028	^E 1,029	^E 1,027	^E 1,028	^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 gascous facto.
 ^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.doe.gov/emeu/mer/append_a.html. Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

					Coal					Coal Coke
				C	onsumption					
		Waste	Residential and	Industria	I 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	22.095	26.798	22.691	21.134	21.576	25.000	26.223	24.800
1983	22.052	NA	22.844	26.799	22.091	21.133	21.578	25.000	26.402	24.800
1985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986	21.913	NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
1988	21.823	NA	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800
1989	21.765	^b 10.391	23.650	26.800	22.347	^d 20.898	21.307	25.000	26.160	24.800
1990	21.822	9.303	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
1991	21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
1992	21.682	10.396	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	12.000	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2007 2008 ^P	20.240	12.348	21.386	26.281	22.348	19.726	19.988	25.000	25.399	24.800
2009 ^E	20.219	12.348	21.386	26.281	22.348	19.726	19.988	25.000	25.399	24.800
2003	20.213	12.040	21.000	20.201	22.040	13.720	19.900	20.000	20.000	24.000

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

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

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

^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.doe.gov/emeu/mer/append_a.html.

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-Fueled Plants ^{b,c}	Nuclear Plants ^d	Geothermal Energy Plants ^e	Heat Content ^f of Electricity ^g
070	10.000	10.000	04.074	0.440
973	10,389	10,903	21,674	3,412
974	10,442	11,161	21,674	3,412
975	10,406	11,013	21,611	3,412
976	10,373	11,047	21,611	3,412
977	10,435	10,769	21,611	3,412
978	10,361	10,941	21,611	3,412
979	10,353	10,879	21,545	3,412
980	10,388	10,908	21,639	3,412
981	10,453	11,030	21,639	3,412
982	10,454	11,073	21,629	3,412
983	10,520	10,905	21,290	3,412
984	10,440	10,843	21,303	3,412
985	10,447	10,622	21,263	3,412
986	10.446	10.579	21.263	3.412
987	10,419	10,442	21,263	3,412
88	10,324	10,602	21,096	3,412
	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	10,304	20,914	3,412
995	10,310	10,432	20,914	3,412
995	10,340	10,507	20,914	3,412
			<i>'</i>	
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
	10,201	10,429	21,017	3,412
	^c 10,333	10,443	21,017	3,412
)02	10,173	10,442	21,017	3,412
003	10,241	10,421	21,017	3,412
	10,022	10,427	21,017	3,412
005	9,999	10,436	21,017	3,412
006	9,919	10,436	21,017	3,412
007	9,884	10,485	21,017	3,412
008	9,854	10,453	21,017	3,412
009	^E 9,854	E 10.453	^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, solar/photovoltaic, and wind electricity net generation to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste at electric utilities are available from surveys.

^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.

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

^e Used as the thermal conversion factor for geothermal electricity net generation.

f See "Heat Content" in Glossary.

⁹ The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports. E=Estimate.

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

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

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The U.S. Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

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

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

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

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See **Fuel Ethanol (Denatured).**

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

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

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

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

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

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

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

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

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

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form

EIA-923, "Power Plant Operations Report"; and predecessor forms.

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

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

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

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

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

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

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

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

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

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**)

and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970.*

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

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

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

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

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

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

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

Approximate Heat Content of Biofuels

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

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the

National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). 1981-2008: EIA used the 2009 factor. 2009: Calculated by EIA as the quantityweighted 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 used as denaturant (5.253 million Btu per barrel). The quantity of ethanol consumed is from EIA, 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 EIA, PSM, Table 1, data for renewable fuels and oxygenate plant net production of pentanes plus, multiplied by -1. The quantity of conventional motor gasoline used as denaturant is from EIA, PSM, Table 1, data for renewable fuels and oxygenate plant net production of conventional motor gasoline, 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 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, End-Use Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed.

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 2001-2003, data are from Form EIA-906, "Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report-Manufacturing Plants." For 2004-2007, data are from 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." Beginning in 2008, data are from Form EIA-923, "Power Plant Operations Reports;" and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants." The computation includes data for all electric utilities and electric-only independent producers using fossil fuels.

Approximate Heat Rates for Electricity

Electricity Net Generation, Fossil-Fueled Plants. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for 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 reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and the generation on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for all electric utilities and electricity-only independent power producers using fossil fuels.

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

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



Appendix

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

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

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

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

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels 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)
mass	1 long ton	_	1.016 047	metric tons (t)
	1 pound (lb)	_	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb U_3O_8)	_	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m ³)
	1 cubic yard (yd^3)	=	0.764 555	cubic meters (m^3)
	1 cubic foot (ft ³)	=	0.028 316 85	cubic meters (m^3)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in ³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
-	1 yard (yd)	=	0.914 4ª	meters (m)
	1 foot (ft)	=	0.304 8ª	meters (m)
	1 inch (in)	=	2.54ª	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km ²)
	1 square yard (yd ²)	=	0.836 127 4	square meters (m ²)
	1 square foot (ft ²)	=	0.092 903 04ª	square meters (m ²)
	1 square inch (in ²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu)°	=	1,055.055 852 62ª	joules (J)
	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.

^eThe 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 (^oF) to degrees Celsius (^oC) 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.doe.gov/emeu/mer/append_b.html.

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.doe.gov/emeu/mer/append_b.html.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equiva	Ilent in Final Units
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)
Coal	1 short ton	=	2,000ª	pounds (lb)
	1 long ton	=	2,240 ^a	pounds (lb)
	1 metric ton (t)	=	1,000 ^a	kilograms (kg)
Wood	1 cord (cd)	=	1.25 [⊳]	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.doe.gov/emeu/mer/append_b.html.

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 soy diesel fuel); electricity (including electricity from solar energy); and "... any other fuel the Secretary determines, by rule, is substantially not petroleum and would yield substantial energy security benefits and substantial environmental benefits." The term "alternative fuel" does not include alcohol or other blended portions of primarily petroleum-based fuels used as oxygenates or extenders, i.e., MTBE, ETBE, other ethers, and the 10-percent ethanol portion of gasohol.

Alternative-Fuel Vehicle (AFV): A vehicle designed to operate on an alternative fuel (e.g., compressed natural gas, methane blend, or electricity). The vehicle could be either a dedicated vehicle designed to operate exclusively on alternative fuel or a nondedicated vehicle designed to operate on alternative fuel and/or a traditional fuel.

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million **Btu** per short ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). *Note:* Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthropogenic: Made or generated by a human or caused by human activity. The term is used in the context of global **climate change** to refer to gaseous emissions that are the result of human activities, as well as other potentially climate-altering activities, such as deforestation.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petro-leum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. Gallons.

Base Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Biodiesel: A fuel typically made from soybean, canola, or other vegetable oils; animal fats; and recycled grease. It can serve as a substitute for **petroleum**-derived **diesel fuel** or **distillate fuel oil**. For U.S. Energy Information Administration reporting, it is a fuel composed of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100, and meeting the requirements of ASTM (American Society for Testing & Materials) D 6751.

Biofuels: Liquid fuels and blending components produced from **biomass** (plant) feedstocks, used primarily for transportation. See **Biodiesel** and **Fuel Ethanol**.

Biogenic: Produced by biological processes of living organisms. Note: EIA uses the term "biogenic" to refer only to organic nonfossil material of biological origin.

Biomass: Organic non-fossil material of biological origin constituting a **renewable energy** source. See **Biodiesel**, **Biofuels**, **Biomass Waste**, **Fuel Ethanol**, and **Wood and Wood-Derived Fuels**. **Biomass Waste:** Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from **biogenic** sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other **biomass** solids, liquids, and gases; but excludes **wood and wood-derived fuels** (including **black liquor**), **biofuels** feedstock, **biodiesel**, and **fuel ethanol**. **Note:** EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Bituminous Coal: A dense **coal**, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steamelectric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make **coke**. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See British Thermal Unit.

Btu Conversion Factor: A factor for converting **energy** data between one unit of measurement and **British thermal units (Btu)**. Btu conversion factors are generally used to convert energy data from physical units of measure (such as **barrels, cubic feet**, or **short tons**) into the energy-equivalent measure of Btu. (See http://www.eia.doe.gov/emeu/mer/append_a.html for further information on Btu conversion factors.)

Butane: A normally gaseous straight-chain or branchedchain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of

10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, 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.doe.gov/neic/datadefinitions/Guideforwebcom.html. See **End-Use Sectors** and **Energy-Use Sectors**.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by **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.doe.gov/emeu/mer/append_a.html and http://www.eia.doe.gov/emeu/mer/append_b.html for further information on conversion factors.) See **Btu Conversion Factor** and **Thermal Conversion Factor**.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degreeday readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically pentanes plus or conventional motor gasoline, added to fuel ethanol to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

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

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) Production.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes **electricity** and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and State and Federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs

covering either cost-of-service and/or market-based rates under the authority of the Federal Power Act. See **Electric Power Sector**.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or 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 abovementioned industrial activities. Various EIA programs

differ in sectoral coverage-for more information see http://www.eia.doe.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 blend-ing (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to http://www.census.gov/epcd/ www/naics.html.

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): Members are Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States and its territories (Guam, Puerto Rico, and the Virgin Islands).

Organization of the Petroleum Exporting Countries (**OPEC**): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present), Kuwait (1960–present), Libya (1962–present), Nigeria (1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. **Ethanol, Methyl Tertiary Butyl Ether (MTBE),** Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See Products Supplied (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products. **Petroleum Stocks, Primary:** For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources-e.g., coal coke from coal-are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas-excluding supplemental gaseous fuels-consumption; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossilfueled 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 fossilfueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; fuel ethanol and biodiesel consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour).

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 fossilfueled 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 (C₃H₆) 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.doe.gov/neic/datadefinitions/Guideforwebres.html. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by **NAICS (North American Industry Classification System)**.

Solar Energy: See Solar Thermal Energy and Photovoltaic Energy.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million **Btu** per short ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as **barrels**, **cubic feet**, or **short tons**) and thermal units of measure (such as **British thermal units**, calories, or joules); or for converting data between different thermal units of measure. See **Btu Conversion Factor.**

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.doe.gov/neic/datadefinitions/Guideforwebtrans.html See **End-Use Sectors** and **Energy-Use Sectors**.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous **coal** processing operations. Waste coal is usually

composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood and Wood-Derived Fuels: Wood and products derived from wood that are used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, paper pellets, railroad ties, utility poles, **black liquor**, red liquor, sludge wood, spent sulfite liquor, and other wood-based solids and liquids.

Working Gas: The volume of gas in a reservoir that is in addition to the base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.