

Table 11.2d Carbon Dioxide Emissions From Energy Consumption: Transportation Sector, Selected Years, 1949-2011
(Million Metric Tons of Carbon Dioxide ¹)

Year	Coal	Natural Gas ³	Petroleum								Retail Electricity ⁷	Total ²	Biomass ²		
			Aviation Gasoline	Distillate Fuel Oil ⁴	Jet Fuel	LPG ⁵	Lubricants	Motor Gasoline ⁶	Residual Fuel Oil	Total			Fuel Ethanol ⁸	Biodiesel	Total
1949	161	NA	12	30	NA	(s)	4	306	91	443	6	611	NA	NA	NA
1950	146	7	14	35	NA	(s)	5	332	95	481	6	640	NA	NA	NA
1955	39	13	24	58	21	1	6	439	80	629	5	687	NA	NA	NA
1960	7	19	21	65	53	1	6	511	66	723	2	751	NA	NA	NA
1965	1	27	15	80	87	2	6	597	61	847	2	878	NA	NA	NA
1970	1	40	7	115	141	3	5	763	60	1,093	2	1,136	NA	NA	NA
1975	(s)	32	5	155	145	3	6	889	56	1,258	2	1,292	NA	NA	NA
1976	(s)	30	5	167	143	3	6	933	65	1,322	2	1,354	NA	NA	NA
1977	(s)	29	5	182	149	3	6	958	72	1,375	2	1,406	NA	NA	NA
1978	(⁹)	29	5	196	153	3	7	991	78	1,433	2	1,464	NA	NA	NA
1979	(⁹)	32	5	213	156	1	7	941	97	1,420	2	1,454	NA	NA	NA
1980	(⁹)	34	4	204	155	1	6	881	110	1,363	2	1,400	NA	NA	NA
1981	(⁹)	35	4	212	147	2	6	881	96	1,348	2	1,385	(s)	NA	(s)
1982	(⁹)	32	3	204	148	2	6	876	80	1,319	2	1,354	1	NA	1
1983	(⁹)	27	3	213	153	3	6	888	65	1,330	3	1,359	2	NA	2
1984	(⁹)	29	3	216	172	3	6	895	64	1,358	3	1,390	3	NA	3
1985	(⁹)	28	3	232	178	2	6	908	62	1,391	3	1,421	3	NA	3
1986	(⁹)	26	4	235	191	2	6	936	69	1,443	3	1,472	4	NA	4
1987	(⁹)	28	3	244	202	1	6	959	71	1,487	3	1,519	5	NA	5
1988	(⁹)	34	3	265	212	1	6	981	72	1,542	3	1,579	5	NA	5
1989	(⁹)	34	3	270	218	1	6	979	77	1,554	3	1,591	5	NA	5
1990	(⁹)	36	3	268	223	1	7	967	80	1,548	3	1,588	4	NA	4
1991	(⁹)	33	3	263	215	1	6	962	81	1,532	3	1,568	5	NA	5
1992	(⁹)	32	3	269	213	1	6	979	84	1,556	3	1,592	5	NA	5
1993	(⁹)	34	3	278	215	1	6	1,000	71	1,574	3	1,611	6	NA	6
1994	(⁹)	38	3	295	224	2	6	1,007	70	1,607	3	1,647	7	NA	7
1995	(⁹)	38	3	307	222	1	6	1,029	72	1,639	3	1,681	8	NA	8
1996	(⁹)	39	3	327	232	1	6	1,047	67	1,683	3	1,725	6	NA	6
1997	(⁹)	41	3	342	234	1	6	1,057	56	1,699	3	1,744	7	NA	7
1998	(⁹)	35	2	352	238	1	7	1,090	53	1,743	3	1,782	8	NA	8
1999	(⁹)	36	3	366	245	1	7	1,115	52	1,789	3	1,828	8	NA	8
2000	(⁹)	36	3	378	254	1	7	1,121	70	1,833	4	1,872	9	NA	9
2001	(⁹)	35	2	387	243	1	6	1,127	46	1,813	4	1,852	10	(s)	10
2002	(⁹)	37	2	394	237	1	6	1,158	53	1,851	4	1,892	11	(s)	12
2003	(⁹)	33	2	414	231	1	6	1,161	45	1,861	5	1,899	16	(s)	16
2004	(⁹)	32	2	434	240	1	6	1,185	58	1,926	5	1,962	20	(s)	20
2005	(⁹)	33	2	444	246	2	6	1,186	66	1,953	5	1,991	22	1	23
2006	(⁹)	33	2	469	240	2	5	1,194	71	1,984	5	2,022	30	2	33
2007	(⁹)	35	2	472	238	1	6	1,201	78	1,999	5	2,040	38	3	^R 41
2008	(⁹)	37	2	440	226	3	5	1,146	72	1,895	5	1,937	54	3	57
2009	(⁹)	^R 38	2	404	204	2	5	1,137	64	1,818	5	^R 1,860	61	3	64
2010	(⁹)	^R 38	2	^R 425	^R 210	2	5	^R 1,124	^R 69	^R 1,836	5	^R 1,879	^R 71	2	^R 74
2011 ^P	(⁹)	39	2	430	209	2	5	1,089	65	1,802	4	1,845	71	8	80

¹ Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

² Carbon dioxide emissions from biomass energy consumption are excluded from total emissions in this table. See Note, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section.

³ Natural gas, excluding supplemental gaseous fuels.

⁴ Distillate fuel oil, excluding biodiesel.

⁵ Liquefied petroleum gases.

⁶ Finished motor gasoline, excluding fuel ethanol.

⁷ 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 8.9 and 11.2e.

⁸ Fuel ethanol minus denaturant.

⁹ Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.5 million metric tons of carbon dioxide.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the non-combustion use of fossil fuels. • See "Carbon Dioxide" in Glossary. • Totals may not equal sum of components due to independent rounding.

Web Pages: • See <http://www.eia.gov/totalenergy/data/monthly/#environment> for updated monthly and annual data. • See <http://www.eia.gov/totalenergy/data/annual/#environment> for all annual data beginning in 1949. • See <http://www.eia.gov/environment/> for related information.

Sources: • 1949-1972—U.S. Energy Information Administration (EIA) estimates based on data in *Annual Energy Review* Tables 2.1e, 5.14c, 8.9, 10.2b, and 11.2e. • 1973 forward—EIA, *Monthly Energy Review (MER)* (May 2012), Tables 12.5 and 12.7, and MER data system calculations.