

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Key Indicators													
Travel Indicators													
(billion vehicle miles traveled)													
Light-Duty Vehicles < 8500 pounds	2652	2655	2653	2667	2690	2722	2761	2803	2846	2888	2933	2978	3026
Commercial Light Trucks 1/	66	67	69	69	70	70	71	72	74	75	77	78	80
Freight Trucks > 10000 pounds	226	230	236	241	245	248	252	257	263	268	274	281	288
(billion seat miles available)													
Air	992	1027	1023	1037	1072	1112	1162	1202	1225	1249	1272	1295	1319
(billion ton miles traveled)													
Rail	1590	1590	1636	1651	1658	1672	1711	1759	1786	1816	1851	1874	1919
Domestic Shipping	618	613	603	627	641	644	648	655	658	660	667	675	682
Energy Efficiency Indicators													
(miles per gallon)													
New Light-Duty Vehicle 2/	24.6	25.2	25.7	26.0	26.8	27.3	27.8	28.6	28.8	28.9	29.0	29.3	29.5
New Car 2/	29.1	30.0	29.5	29.8	30.0	31.1	31.9	32.5	32.8	32.9	33.0	33.2	33.4
New Light Truck 2/	21.5	21.8	22.0	22.2	23.3	23.5	23.9	24.7	24.9	25.0	25.1	25.3	25.5
Light-Duty Stock 3/	19.6	19.6	19.7	19.6	19.6	19.7	19.8	20.0	20.2	20.4	20.7	20.9	21.1
New Commercial Light Truck 1/	14.5	14.6	14.8	14.9	15.6	15.7	15.9	16.5	16.5	16.6	16.7	16.8	16.9
Stock Commercial Light Truck 1/	14.0	14.1	14.2	14.3	14.4	14.6	14.7	14.9	15.1	15.3	15.5	15.7	15.8
Freight Truck	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.1	6.1	6.2	6.2	6.3
(seat miles per gallon)													
Aircraft	55.5	55.7	55.9	56.6	57.2	57.8	58.3	58.8	59.5	60.3	61.1	62.0	63.0
(ton miles/thousand Btu)													
Rail	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Domestic Shipping	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Energy Use by Mode													
(quadrillion Btu)													
Light-Duty Vehicles	16.34	16.36	16.55	16.51	16.47	16.47	16.49	16.55	16.61	16.67	16.75	16.83	16.93
Commercial Light Trucks 1/	0.59	0.59	0.61	0.61	0.60	0.60	0.60	0.61	0.61	0.62	0.62	0.63	0.63
Bus Transportation	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Freight Trucks	4.70	4.77	4.90	5.02	5.09	5.15	5.23	5.32	5.41	5.50	5.56	5.64	5.72
Rail, Passenger	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Rail, Freight	0.55	0.55	0.56	0.57	0.57	0.57	0.58	0.60	0.61	0.62	0.63	0.64	0.65
Shipping, Domestic	0.26	0.26	0.25	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
Shipping, International	0.69	0.76	0.70	0.72	0.74	0.75	0.77	0.77	0.77	0.78	0.78	0.78	0.78
Recreational Boats	0.19	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20
Air	2.85	2.84	2.91	3.01	3.13	3.28	3.46	3.56	3.61	3.66	3.70	3.74	3.78
Military Use	0.71	0.71	0.68	0.70	0.71	0.72	0.73	0.73	0.74	0.74	0.74	0.75	0.75
Lubricants	0.15	0.15	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Pipeline Fuel	0.59	0.58	0.57	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.67
Total	27.92	28.05	28.36	28.66	28.87	29.12	29.44	29.73	29.96	30.18	30.39	30.61	30.87
(million barrels per day oil equivalent)													
Light-Duty Vehicles	8.57	8.58	8.69	8.76	8.78	8.84	8.86	8.90	8.93	8.97	9.01	9.05	9.10
Commercial Light Trucks 1/	0.31	0.31	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.34	0.34
Bus Transportation	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Freight Trucks	2.24	2.27	2.34	2.40	2.43	2.46	2.50	2.55	2.59	2.63	2.67	2.70	2.74
Rail, Passenger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Rail, Freight	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.29	0.29	0.29	0.30	0.30	0.31
Shipping, Domestic	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13
Shipping, International	0.30	0.33	0.31	0.32	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Recreational Boats	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11
Air	1.38	1.37	1.41	1.46	1.51	1.59	1.67	1.72	1.75	1.77	1.79	1.81	1.83
Military Use	0.34	0.34	0.33	0.33	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36
Lubricants	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Pipeline Fuel	0.30	0.29	0.29	0.32	0.32	0.33	0.32	0.33	0.33	0.33	0.33	0.33	0.34
Total	14.14	14.19	14.36	14.62	14.75	14.93	15.11	15.25	15.37	15.48	15.59	15.70	15.83

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Key Indicators															
Travel Indicators															
(billion vehicle miles traveled)															
Light-Duty Vehicles < 8500 pounds	3079	3134	3191	3251	3314	3377	3443	3511	3579	3647	3717	3786	3856	3924	1.6%
Commercial Light Trucks 1/	82	83	85	87	89	90	92	94	96	98	101	103	105	107	1.9%
Freight Trucks > 10000 pounds	294	299	307	314	321	328	335	343	352	361	369	378	386	395	2.2%
(billion seat miles available)															
Air	1343	1367	1393	1405	1419	1433	1447	1461	1474	1488	1501	1515	1528	1541	1.6%
(billion ton miles traveled)															
Rail	1954	1986	2032	2084	2138	2190	2238	2285	2337	2382	2445	2487	2546	2590	2.0%
Domestic Shipping	687	695	709	719	724	729	738	744	754	761	767	772	781	789	1.0%
Energy Efficiency Indicators															
(miles per gallon)															
New Light-Duty Vehicle 2/	29.7	30.0	30.3	30.5	30.7	31.0	31.1	31.2	31.4	31.5	31.6	31.7	31.8	31.9	0.9%
New Car 2/	33.6	34.0	34.3	34.5	34.8	35.1	35.2	35.4	35.6	35.7	35.8	36.0	36.1	36.2	0.8%
New Light Truck 2/	25.8	26.1	26.4	26.6	26.8	27.1	27.2	27.4	27.6	27.8	27.9	28.0	28.1	28.2	1.0%
Light-Duty Stock 3/	21.3	21.6	21.8	22.0	22.2	22.5	22.7	22.9	23.1	23.3	23.4	23.6	23.8	23.9	0.8%
New Commercial Light Truck 1/	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.0	18.1	18.2	18.2	18.3	18.4	18.4	0.9%
Stock Commercial Light Truck 1/	16.0	16.2	16.3	16.5	16.7	16.8	17.0	17.2	17.3	17.4	17.5	17.7	17.8	17.9	0.9%
Freight Truck	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.9	6.9	0.5%
(seat miles per gallon)															
Aircraft	63.9	64.8	65.8	66.9	68.4	69.9	71.6	73.4	75.2	77.1	79.0	80.9	82.7	84.4	1.7%
(ton miles/thousand Btu)															
Rail	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.1%
Domestic Shipping	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	0.1%
Energy Use by Mode															
(quadrillion Btu)															
Light-Duty Vehicles	17.05	17.18	17.31	17.46	17.62	17.79	17.98	18.18	18.38	18.59	18.82	19.04	19.28	19.50	0.7%
Commercial Light Trucks 1/	0.64	0.64	0.65	0.66	0.67	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	1.0%
Bus Transportation	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.3%
Freight Trucks	5.77	5.82	5.90	5.99	6.07	6.17	6.26	6.37	6.50	6.63	6.76	6.89	7.02	7.16	1.6%
Rail, Passenger	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.3%
Rail, Freight	0.66	0.67	0.69	0.70	0.72	0.74	0.75	0.77	0.79	0.80	0.82	0.83	0.85	0.87	1.9%
Shipping, Domestic	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.9%
Shipping, International	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.2%
Recreational Boats	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.9%
Air	3.83	3.87	3.90	3.91	3.90	3.88	3.85	3.83	3.80	3.77	3.74	3.71	3.69	3.67	1.0%
Military Use	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.80	0.80	0.5%
Lubricants	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.4%
Pipeline Fuel	0.66	0.69	0.73	0.74	0.75	0.74	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.0%
Total	31.12	31.40	31.72	32.01	32.28	32.56	32.85	33.17	33.52	33.87	34.22	34.59	34.97	35.36	0.9%
(million barrels per day oil equivalent)															
Light-Duty Vehicles	9.17	9.24	9.31	9.40	9.49	9.58	9.68	9.79	9.90	10.02	10.15	10.28	10.41	10.56	0.8%
Commercial Light Trucks 1/	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	1.1%
Bus Transportation	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.3%
Freight Trucks	2.77	2.79	2.83	2.87	2.91	2.96	3.00	3.05	3.12	3.18	3.24	3.30	3.37	3.43	1.7%
Rail, Passenger	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.3%
Rail, Freight	0.32	0.32	0.33	0.34	0.34	0.35	0.36	0.37	0.37	0.38	0.39	0.40	0.41	0.41	1.9%
Shipping, Domestic	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.9%
Shipping, International	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.2%
Recreational Boats	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.0%
Air	1.85	1.87	1.89	1.89	1.88	1.88	1.86	1.85	1.84	1.82	1.81	1.79	1.78	1.77	1.0%
Military Use	0.36	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.5%
Lubricants	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.4%
Pipeline Fuel	0.33	0.35	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	1.0%
Total	15.96	16.10	16.26	16.42	16.56	16.70	16.86	17.03	17.21	17.39	17.58	17.78	17.99	18.21	1.0%

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

1/ Commercial trucks 8,500 to 10,000 pounds.

2/ Environmental Protection Agency rated miles per gallon.

3/ Combined car and light truck "on-the-road" estimate.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 2004 and 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005: Energy Information Administration (EIA), Natural Gas Annual 2004, DOE/EIA-0131(2004) (Washington, DC, December 2005); EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006); Federal Highway Administration, Highway Statistics 2004 (Washington, DC, October 2005); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 25 and Annual (Oak Ridge, TN, 2006); National Highway Traffic and Safety Administration, Summary of Fuel Economy Performance (Washington, DC, February 2000); U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); EIA, Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; EIA, State Energy Data Report 2002, DOE/EIA-0214(2002) (Washington, DC, December 2005); U.S. Department of Transportation, Research and Special Programs Administration, Air Carrier Statistics Monthly, December 2005/2004 (Washington, DC, 2005); EIA, Fuel Oil and Kerosene Sales 2004, DOE/EIA-0535(2004) (Washington, DC, November 2005); and United States Department of Defense, Defense Fuel Supply Center. Projections: EIA, AEO2007 National Energy Modeling System run hp2007.d112106a.