

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	2661	2685	2722	2768	2817	2864	2919	2972	3032	3086	
Commercial Light Trucks 1/	66	67	69	68	68	69	70	71	72	73	74	76	77	
Freight Trucks > 10000 pounds	226	230	236	238	240	242	245	249	253	258	262	267	271	
(billion seat miles available)														
Air	992	1027	1023	1037	1066	1100	1144	1186	1204	1222	1239	1256	1273	
(billion ton miles traveled)														
Rail	1590	1590	1636	1640	1639	1647	1674	1702	1717	1732	1752	1768	1794	
Domestic Shipping	618	613	603	619	632	636	641	645	650	651	659	664	666	
Energy Efficiency Indicators														
(miles per gallon)														
New Light-Duty Vehicle 2/	24.6	25.2	25.7	26.0	26.6	27.0	27.4	27.9	27.9	27.9	27.8	27.9	28.0	
New Car 2/	29.1	30.0	29.5	29.8	30.0	31.0	31.8	32.2	32.3	32.3	32.4	32.5	32.6	
New Light Truck 2/	21.5	21.8	22.0	22.2	23.3	23.4	23.8	24.5	24.5	24.6	24.6	24.8	24.9	
Light-Duty Stock 3/	19.6	19.6	19.7	19.6	19.6	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	
New Commercial Light Truck 1/	14.5	14.6	14.8	14.9	15.6	15.7	15.9	16.3	16.4	16.4	16.4	16.5	16.5	
Stock Commercial Light Truck 1/	14.0	14.1	14.2	14.3	14.4	14.6	14.7	14.9	15.1	15.2	15.4	15.6	15.7	
Freight Truck	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.1	6.1	6.1	6.2	6.2	
(seat miles per gallon)														
Aircraft	55.5	55.7	55.9	56.6	57.1	57.6	58.0	58.4	59.0	59.7	60.4	61.1	61.9	
(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	16.47	16.45	16.50	16.59	16.73	16.85	17.04	17.23	17.45	17.65	
Commercial Light Trucks 1/	0.59	0.59	0.61	0.60	0.59	0.59	0.59	0.59	0.60	0.60	0.61	0.61	0.62	
Bus Transportation	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	
Freight Trucks	4.70	4.77	4.90	4.95	4.98	5.02	5.09	5.16	5.22	5.30	5.35	5.40	5.44	
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	0.56	0.56	0.56	0.57	0.58	0.59	0.59	0.60	0.60	0.61	
Shipping, Domestic	0.26	0.26	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	
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	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	
Air	2.85	2.84	2.91	3.01	3.12	3.26	3.44	3.55	3.60	3.64	3.67	3.70	3.73	
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	0.65	0.65	0.66	0.66	0.67	0.67	0.68	0.68	
Total	27.92	28.05	28.36	28.54	28.72	28.98	29.35	29.72	29.98	30.30	30.60	30.93	31.23	
(million barrels per day oil equivalent)														

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Light-Duty Vehicles	8.57	8.58	8.69	8.74	8.76	8.84	8.90	8.98	9.05	9.14	9.25	9.37	9.47
Commercial Light Trucks 1/	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33
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	2.37	2.38	2.40	2.43	2.47	2.50	2.54	2.56	2.59	2.61
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	0.27	0.28	0.28	0.28	0.28	0.29	0.29
Shipping, Domestic	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	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	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
Air	1.38	1.37	1.41	1.46	1.51	1.58	1.66	1.72	1.74	1.76	1.78	1.79	1.80
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	0.33	0.33	0.34	0.34	0.34	0.34	0.34
Total	14.14	14.19	14.36	14.56	14.67	14.86	15.06	15.24	15.38	15.54	15.70	15.87	16.02

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	3149	3203	3257	3317	3384	3436	3495	3552	3606	3663	3718	3773	3828	3882	1.5%
Commercial Light Trucks 1/	78	80	81	82	83	84	85	86	88	89	90	91	92	93	1.3%
Freight Trucks > 10000 pounds	275	279	283	287	291	295	298	301	305	309	313	317	321	325	1.4%
(billion seat miles available)															
Air	1290	1308	1325	1330	1337	1342	1347	1351	1355	1357	1359	1361	1363	1365	1.1%
(billion ton miles traveled)															
Rail	1807	1811	1829	1848	1872	1892	1913	1937	1959	1980	2005	2029	2060	2085	1.1%
Domestic Shipping	667	671	677	679	681	683	683	681	682	682	681	682	683	685	0.4%
Energy Efficiency Indicators															
(miles per gallon)															
New Light-Duty Vehicle 2/	28.0	28.1	28.2	28.2	28.3	28.5	28.6	28.7	28.9	28.9	29.0	29.1	29.1	29.1	0.6%
New Car 2/	32.6	32.7	32.7	32.8	32.9	33.1	33.1	33.2	33.4	33.4	33.5	33.5	33.6	33.6	0.5%
New Light Truck 2/	25.0	25.1	25.2	25.3	25.4	25.6	25.7	25.9	26.0	26.1	26.2	26.3	26.4	26.4	0.8%
Light-Duty Stock 3/	20.9	21.0	21.1	21.2	21.3	21.5	21.6	21.7	21.8	21.8	21.9	22.0	22.1	22.2	0.5%
New Commercial Light Truck 1/	16.6	16.6	16.7	16.7	16.8	16.9	17.0	17.1	17.2	17.2	17.3	17.3	17.3	17.4	0.7%
Stock Commercial Light Truck 1/	15.8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.8	16.9	17.0	17.0	0.7%
Freight Truck	6.3	6.3	6.4	6.4	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.7	6.7	6.7	0.4%
(seat miles per gallon)															
Aircraft	62.7	63.4	64.0	64.7	65.4	66.3	67.2	68.2	69.3	70.4	71.3	72.1	72.9	73.7	1.1%
(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	17.90	18.11	18.31	18.56	18.84	19.05	19.29	19.52	19.74	19.97	20.20	20.42	20.65	20.88	1.0%
Commercial Light Trucks 1/	0.62	0.63	0.63	0.64	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.68	0.68	0.69	0.6%
Bus Transportation	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.4%
Freight Trucks	5.47	5.49	5.53	5.58	5.62	5.66	5.69	5.73	5.78	5.84	5.89	5.95	6.01	6.07	1.0%
Rail, Passenger	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	1.0%
Rail, Freight	0.61	0.61	0.62	0.62	0.63	0.64	0.64	0.65	0.66	0.66	0.67	0.68	0.69	0.70	1.0%
Shipping, Domestic	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.4%
Shipping, International	0.78	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	0.2%
Recreational Boats	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	1.2%
Air	3.76	3.79	3.82	3.83	3.84	3.83	3.82	3.80	3.78	3.76	3.74	3.73	3.73	3.72	1.1%
Military Use	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.80	0.80	0.80	0.80	0.5%
Lubricants	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.2%
Pipeline Fuel	0.68	0.72	0.76	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.76	0.75	0.75	1.1%
Total	31.57	31.88	32.21	32.55	32.91	33.16	33.44	33.71	33.97	34.26	34.55	34.84	35.14	35.44	0.9%
(million barrels per day oil equivalent)															

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2030
Light-Duty Vehicles	9.61	9.72	9.83	9.96	10.11	10.22	10.35	10.47	10.58	10.71	10.83	10.95	11.07	11.19	1.1%
Commercial Light Trucks 1/	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.7%
Bus Transportation	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.4%
Freight Trucks	2.62	2.63	2.65	2.67	2.69	2.71	2.73	2.75	2.77	2.80	2.82	2.85	2.88	2.91	1.0%
Rail, Passenger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.1%
Rail, Freight	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	1.0%
Shipping, Domestic	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	0.13	0.4%
Shipping, International	0.34	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	0.2%
Recreational Boats	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	1.3%
Air	1.82	1.83	1.85	1.85	1.86	1.85	1.85	1.84	1.83	1.82	1.81	1.81	1.80	1.80	1.1%
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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.2%
Pipeline Fuel	0.35	0.36	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	1.1%
Total	16.20	16.36	16.53	16.71	16.90	17.03	17.18	17.32	17.46	17.61	17.76	17.91	18.06	18.22	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/databables/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 lm2007.d112106a.