

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	2675	2715	2768	2834	2909	2982	3061	3137	3221	3297	
Commercial Light Trucks 1/	66	67	69	70	71	73	74	77	79	81	83	85	88	
Freight Trucks > 10000 pounds	226	230	236	245	252	258	265	273	282	290	298	307	317	
(billion seat miles available)														
Air	992	1027	1023	1037	1079	1132	1194	1224	1255	1287	1318	1349	1380	
(billion ton miles traveled)														
Rail	1590	1590	1636	1663	1682	1711	1754	1810	1849	1882	1922	1958	2009	
Domestic Shipping	618	613	604	635	657	672	682	693	707	713	727	736	743	
Energy Efficiency Indicators														
(miles per gallon)														
New Light-Duty Vehicle 2/	24.6	25.2	25.7	26.0	26.5	26.9	27.2	27.7	27.7	27.7	27.7	27.8	27.9	
New Car 2/	29.1	30.0	29.5	29.8	29.9	30.9	31.7	32.1	32.2	32.2	32.3	32.4	32.5	
New Light Truck 2/	21.5	21.8	22.0	22.2	23.2	23.3	23.7	24.4	24.4	24.5	24.5	24.7	24.8	
Light-Duty Stock 3/	19.6	19.6	19.7	19.6	19.6	19.6	19.7	19.9	20.1	20.3	20.4	20.6	20.7	
New Commercial Light Truck 1/	14.5	14.6	14.8	14.9	15.5	15.6	15.8	16.3	16.3	16.3	16.4	16.4	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	57.2	57.8	58.3	59.0	59.9	60.7	61.7	62.7	63.7	
(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	16.55	16.63	16.77	16.97	17.27	17.55	17.87	18.18	18.53	18.86	
Commercial Light Trucks 1/	0.59	0.59	0.60	0.61	0.62	0.63	0.63	0.64	0.65	0.67	0.68	0.69	0.70	
Bus Transportation	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	
Freight Trucks	4.70	4.77	4.90	5.09	5.24	5.37	5.51	5.66	5.82	5.96	6.08	6.21	6.35	
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	0.58	0.59	0.60	0.62	0.63	0.64	0.65	0.67	0.68	
Shipping, Domestic	0.26	0.26	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.31	
Shipping, International	0.69	0.76	0.70	0.72	0.74	0.76	0.77	0.77	0.78	0.78	0.78	0.78	0.78	
Recreational Boats	0.19	0.18	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	
Air	2.85	2.84	2.91	3.01	3.15	3.33	3.55	3.62	3.69	3.75	3.82	3.87	3.93	
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	0.16	0.16	
Pipeline Fuel	0.59	0.58	0.57	0.64	0.65	0.67	0.67	0.68	0.69	0.70	0.70	0.71	0.72	
Total	27.92	28.05	28.36	28.80	29.24	29.77	30.39	30.97	31.54	32.10	32.64	33.24	33.81	
(million barrels per day oil equivalent)														
Light-Duty Vehicles	8.57	8.58	8.69	8.79	8.85	8.99	9.11	9.27	9.42	9.59	9.76	9.95	10.12	
Commercial Light Trucks 1/	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.38	
Bus Transportation	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	
Freight Trucks	2.24	2.27	2.34	2.43	2.50	2.57	2.64	2.71	2.79	2.85	2.91	2.98	3.04	
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	0.28	0.28	0.29	0.30	0.31	0.31	0.32	0.32	
Shipping, Domestic	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	
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	0.12	0.12	0.12	0.12	0.13	
Air	1.38	1.37	1.41	1.46	1.52	1.61	1.72	1.75	1.78	1.82	1.85	1.87	1.90	

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	0.33	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36
Total	14.14	14.19	14.36	14.68	14.93	15.26	15.58	15.88	16.17	16.46	16.74	17.05	17.34

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	3385	3471	3552	3628	3717	3806	3897	3989	4084	4182	4279	4376	4479	4565	2.2%
Commercial Light Trucks 1/	90	92	95	97	100	102	105	108	111	114	118	121	124	127	2.6%
Freight Trucks > 10000 pounds	325	332	341	352	362	373	384	395	408	422	435	448	461	474	2.9%
(billion seat miles available)															
Air	1412	1444	1477	1497	1518	1541	1565	1589	1615	1640	1666	1693	1719	1745	2.1%
(billion ton miles traveled)															
Rail	2044	2070	2114	2163	2225	2292	2358	2430	2495	2557	2621	2679	2735	2799	2.3%
Domestic Shipping	750	759	773	782	792	801	807	814	823	834	843	854	864	871	1.4%
Energy Efficiency Indicators															
(miles per gallon)															
New Light-Duty Vehicle 2/	28.0	28.1	28.2	28.3	28.4	28.6	28.7	28.8	29.0	29.0	29.2	29.3	29.3	29.4	0.6%
New Car 2/	32.6	32.7	32.8	32.8	32.9	33.1	33.2	33.4	33.5	33.5	33.6	33.7	33.7	33.8	0.5%
New Light Truck 2/	24.9	25.0	25.2	25.3	25.5	25.7	25.8	26.0	26.1	26.2	26.3	26.5	26.5	26.6	0.8%
Light-Duty Stock 3/	20.8	21.0	21.1	21.2	21.3	21.4	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	0.5%
New Commercial Light Truck 1/	16.5	16.6	16.7	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.3	17.4	17.4	17.5	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	16.9	16.9	17.0	17.1	0.8%
Freight Truck	6.3	6.4	6.4	6.4	6.5	6.5	6.6	6.6	6.6	6.7	6.7	6.7	6.7	6.8	0.5%
(seat miles per gallon)															
Aircraft	64.8	65.8	66.8	67.9	69.0	70.0	71.0	72.0	72.9	73.7	74.4	75.1	75.6	75.9	1.2%
(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	19.24	19.62	19.96	20.29	20.68	21.06	21.46	21.86	22.28	22.71	23.14	23.57	24.02	24.39	1.6%
Commercial Light Trucks 1/	0.71	0.73	0.74	0.75	0.77	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.91	0.93	1.9%
Bus Transportation	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.7%
Freight Trucks	6.46	6.55	6.67	6.82	6.97	7.14	7.31	7.50	7.71	7.93	8.14	8.35	8.54	8.76	2.5%
Rail, Passenger	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	1.2%
Rail, Freight	0.69	0.70	0.72	0.73	0.75	0.77	0.79	0.82	0.84	0.86	0.88	0.90	0.92	0.94	2.2%
Shipping, Domestic	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	1.3%
Shipping, International	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.81	0.2%
Recreational Boats	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	1.8%
Air	4.00	4.05	4.10	4.13	4.16	4.19	4.22	4.26	4.31	4.35	4.41	4.47	4.53	4.61	2.0%
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	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.5%
Pipeline Fuel	0.72	0.76	0.80	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.83	0.83	1.5%
Total	34.40	35.00	35.61	36.16	36.79	37.43	38.09	38.78	39.50	40.26	41.01	41.76	42.54	43.25	1.7%
(million barrels per day oil equivalent)															
Light-Duty Vehicles	10.33	10.53	10.72	10.89	11.10	11.30	11.52	11.73	11.96	12.19	12.42	12.65	12.89	13.09	1.7%
Commercial Light Trucks 1/	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	2.0%
Bus Transportation	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.7%
Freight Trucks	3.09	3.14	3.19	3.26	3.34	3.42	3.50	3.59	3.69	3.80	3.90	4.00	4.09	4.20	2.5%
Rail, Passenger	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.2%
Rail, Freight	0.33	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	2.2%
Shipping, Domestic	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	1.3%
Shipping, International	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.2%
Recreational Boats	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	1.9%
Air	1.93	1.96	1.99	2.00	2.01	2.03	2.04	2.06	2.08	2.11	2.13	2.16	2.19	2.23	2.0%

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
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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.5%
Pipeline Fuel	0.36	0.38	0.40	0.41	0.42	0.42	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	1.5%
Total	17.65	17.96	18.27	18.55	18.88	19.21	19.55	19.90	20.27	20.66	21.05	21.43	21.83	22.20	1.8%

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 hm2007.d112106a.