

**Table A7. Transportation sector key indicators and delivered energy consumption**

Key indicators and consumption	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
<b>Key indicators</b>								
<b>Travel indicators</b>								
(billion vehicle miles traveled)								
Light-duty vehicles less than 8,501 pounds ....	2,654	2,629	2,870	3,089	3,323	3,532	3,719	1.2%
Commercial light trucks <sup>1</sup> .....	65	65	80	87	94	102	110	1.8%
Freight trucks greater than 10,000 pounds .....	235	240	323	350	371	401	438	2.1%
(billion seat miles available)								
Air .....	999	982	1,082	1,131	1,177	1,222	1,274	0.9%
(billion ton miles traveled)								
Rail .....	1,581	1,557	1,719	1,833	1,910	1,969	2,017	0.9%
Domestic shipping .....	508	514	612	600	578	584	591	0.5%
<b>Energy efficiency indicators</b>								
(miles per gallon)								
New light-duty vehicle CAFE standard <sup>2</sup> .....	25.5	27.6	37.0	46.8	47.2	47.5	47.8	1.9%
New car <sup>2</sup> .....	27.7	30.9	43.9	54.6	54.6	54.7	54.7	2.0%
New light truck <sup>2</sup> .....	23.4	24.6	30.9	39.5	39.5	39.5	39.5	1.6%
Compliance new light-duty vehicle <sup>3</sup> .....	31.8	32.6	37.9	47.3	48.2	48.6	49.0	1.4%
New car <sup>3</sup> .....	36.1	37.4	44.4	55.0	55.6	55.9	56.1	1.4%
New light truck <sup>3</sup> .....	28.1	28.5	32.0	40.0	40.3	40.4	40.5	1.2%
Tested new light-duty vehicle <sup>4</sup> .....	30.8	31.5	37.9	47.3	48.1	48.6	49.0	1.5%
New car <sup>4</sup> .....	35.7	36.4	44.4	55.0	55.6	55.8	56.1	1.5%
New light truck <sup>4</sup> .....	26.9	27.3	32.0	40.0	40.3	40.4	40.4	1.4%
On-road new light-duty vehicle <sup>5</sup> .....	24.9	25.5	30.6	38.2	38.9	39.3	39.7	1.5%
New car <sup>5</sup> .....	29.1	29.8	36.3	44.9	45.4	45.6	45.8	1.5%
New light truck <sup>5</sup> .....	21.5	21.8	25.6	32.0	32.3	32.3	32.3	1.4%
Light-duty stock <sup>6</sup> .....	20.9	20.6	24.1	27.6	31.3	34.2	36.1	2.0%
New commercial light truck <sup>1</sup> .....	18.2	18.1	20.0	23.9	24.1	24.2	24.2	1.0%
Stock commercial light truck <sup>1</sup> .....	14.6	14.9	17.9	20.1	22.2	23.5	24.1	1.7%
Freight truck .....	6.7	6.7	7.3	7.7	8.0	8.1	8.2	0.7%
(seat miles per gallon)								
Aircraft .....	62.3	62.3	63.9	65.2	67.0	69.2	71.5	0.5%
(ton miles per thousand Btu)								
Rail .....	3.4	3.4	3.5	3.5	3.5	3.5	3.5	0.1%
Domestic shipping .....	2.4	2.4	2.5	2.5	2.5	2.5	2.6	0.2%
<b>Energy use by mode</b>								
<b>(quadrillion Btu)</b>								
Light-duty vehicles .....	15.94	15.56	14.35	13.48	12.77	12.44	12.43	-0.8%
Commercial light trucks <sup>1</sup> .....	0.55	0.54	0.56	0.54	0.53	0.54	0.57	0.2%
Bus transportation .....	0.25	0.25	0.27	0.28	0.29	0.31	0.32	0.9%
Freight trucks .....	4.86	4.95	6.07	6.24	6.39	6.76	7.31	1.4%
Rail, passenger .....	0.05	0.05	0.05	0.06	0.06	0.06	0.06	1.1%
Rail, freight .....	0.46	0.45	0.49	0.53	0.54	0.56	0.57	0.8%
Shipping, domestic .....	0.21	0.21	0.25	0.24	0.23	0.23	0.23	0.3%
Shipping, international .....	0.85	0.80	0.81	0.82	0.82	0.83	0.84	0.2%
Recreational boats .....	0.25	0.24	0.26	0.27	0.28	0.28	0.29	0.6%
Air .....	2.52	2.46	2.65	2.73	2.78	2.82	2.86	0.5%
Military use .....	0.76	0.74	0.63	0.65	0.68	0.72	0.77	0.1%
Lubricants .....	0.14	0.13	0.12	0.12	0.12	0.13	0.13	-0.1%
Pipeline fuel .....	0.68	0.70	0.71	0.73	0.74	0.76	0.78	0.4%
<b>Total .....</b>	<b>27.52</b>	<b>27.09</b>	<b>27.24</b>	<b>26.68</b>	<b>26.24</b>	<b>26.43</b>	<b>27.14</b>	<b>0.0%</b>

**Table A7. Transportation sector key indicators and delivered energy consumption (continued)**

Key indicators and consumption	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
<b>Energy use by mode</b>								
<b>(million barrels per day oil equivalent)</b>								
Light-duty vehicles .....	8.37	8.46	7.85	7.38	6.99	6.80	6.80	-0.7%
Commercial light trucks <sup>1</sup> .....	0.28	0.28	0.29	0.28	0.27	0.28	0.29	0.2%
Bus transportation.....	0.12	0.12	0.13	0.14	0.14	0.15	0.15	0.9%
Freight trucks.....	2.34	2.39	2.92	3.01	3.08	3.25	3.52	1.3%
Rail, passenger.....	0.02	0.02	0.02	0.03	0.03	0.03	0.03	1.1%
Rail, freight.....	0.22	0.22	0.24	0.25	0.26	0.27	0.27	0.8%
Shipping, domestic .....	0.10	0.10	0.12	0.11	0.11	0.11	0.11	0.3%
Shipping, international .....	0.37	0.35	0.35	0.36	0.36	0.36	0.37	0.2%
Recreational boats.....	0.13	0.13	0.14	0.15	0.15	0.15	0.16	0.6%
Air .....	1.22	1.19	1.28	1.32	1.35	1.36	1.38	0.5%
Military use.....	0.37	0.36	0.30	0.31	0.33	0.35	0.37	0.1%
Lubricants .....	0.07	0.06	0.06	0.06	0.06	0.06	0.06	-0.1%
Pipeline fuel .....	0.32	0.33	0.34	0.34	0.35	0.36	0.37	0.4%
<b>Total .....</b>	<b>13.93</b>	<b>14.00</b>	<b>14.05</b>	<b>13.73</b>	<b>13.47</b>	<b>13.53</b>	<b>13.87</b>	<b>-0.0%</b>

<sup>1</sup>Commercial trucks 8,501 to 10,000 pounds gross vehicle weight rating.

<sup>2</sup>CAFE standard based on projected new vehicle sales.

<sup>3</sup>Includes CAFE credits for alternative fueled vehicle sales and credit banking.

<sup>4</sup>Environmental Protection Agency rated miles per gallon.

<sup>5</sup>Tested new vehicle efficiency revised for on-road performance.

<sup>6</sup>Combined "on-the-road" estimate for all cars and light trucks.

CAFE = Corporate average fuel economy.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 2010 and 2011 are model results and may differ slightly from official EIA data reports.

Sources: 2010 and 2011: U.S. Energy Information Administration (EIA), *Annual Energy Review 2011*, DOE/EIA-0384(2011) (Washington, DC, September 2012); Federal Highway Administration, *Highway Statistics 2010* (Washington, DC, February 2012); Oak Ridge National Laboratory, *Transportation Energy Data Book: Edition 31* (Oak Ridge, TN, July 2012); National Highway Traffic and Safety Administration, *Summary of Fuel Economy Performance* (Washington, DC, October 28, 2010); U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC02TV (Washington, DC, December 2004); EIA, *Alternatives to Traditional Transportation Fuels 2009 (Part II - User and Fuel Data)*, April 2011; EIA, *State Energy Data Report 2010*, DOE/EIA-0214(2010) (Washington, DC, June 2012); U.S. Department of Transportation, Research and Special Programs Administration, *Air Carrier Statistics Monthly, December 2010/2009* (Washington, DC, December 2010); and United States Department of Defense, Defense Fuel Supply Center, *Factbook* (January, 2010). **Projections:** EIA, AEO2013 National Energy Modeling System run REF2013.D102312A.