



Supplemental Tables to the Annual Energy Outlook 2008

Part 2: Transportation Demand Sector Data



Energy Information Administration



Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Energy Use by Mode													
Highway													
Light-Duty Vehicles	16226.8	16407.2	16523.3	16466.2	16470.3	16516.5	16558.5	16693.1	16821.0	16927.6	17005.5	17092.9	17141.7
Automobiles	8129.0	8041.9	7982.6	7884.0	7831.6	7796.5	7776.7	7821.9	7873.4	7895.6	7881.7	7868.5	7832.7
Light Trucks	8074.9	8342.7	8518.3	8560.2	8616.9	8698.5	8760.5	8849.9	8926.3	9010.9	9102.7	9203.5	9288.2
Motorcycles	22.9	22.6	22.4	22.0	21.8	21.5	21.3	21.3	21.2	21.1	21.1	20.9	20.8
Commercial Light Trucks 1/ Buses	610.1	617.9	619.9	606.1	606.8	615.9	625.1	631.1	632.7	633.5	635.1	637.5	636.8
Transit	259.5	263.6	262.2	262.0	262.6	263.9	265.8	267.4	268.3	268.9	269.4	270.1	270.7
Intercity	90.2	91.6	91.1	91.1	91.3	91.7	92.4	93.0	93.3	93.5	93.7	93.9	94.1
School	46.9	47.6	47.3	47.3	47.4	47.7	48.0	48.3	48.5	48.6	48.7	48.8	48.9
Freight Trucks 2/ Medium (1000-26000 pounds)	122.4	124.3	123.8	123.6	123.9	124.5	125.4	126.1	126.5	126.8	127.1	127.4	127.7
Large (> 26000 pounds)	4744.7	4892.2	4967.1	4954.0	5018.6	5183.4	5337.8	5436.2	5494.5	5541.3	5601.3	5661.4	5698.6
Medium (1000-26000 pounds)	735.8	733.1	741.0	733.8	731.3	751.8	766.6	772.5	775.9	783.1	794.3	805.9	814.8
Large (> 26000 pounds)	4008.8	4159.1	4226.1	4220.1	4287.3	4431.6	4571.2	4663.7	4718.6	4758.2	4807.0	4855.4	4883.8
Non-Highway													
Air 3/ General Aviation	2723.2	2647.0	2660.3	2712.3	2794.2	2902.8	3020.3	3119.7	3170.8	3230.4	3293.3	3358.5	3420.7
Domestic Air Carriers	163.2	157.5	157.2	156.8	164.2	169.3	174.8	179.4	181.8	184.6	187.5	190.6	193.5
International Air Carriers	1573.4	1490.6	1466.9	1469.2	1486.8	1531.8	1579.9	1617.4	1620.5	1631.7	1643.6	1658.3	1671.2
Freight Carriers	559.1	571.6	617.4	659.2	705.2	757.3	814.4	861.8	895.3	923.8	952.0	978.6	1004.2
Freight Carriers	427.5	427.4	418.9	427.2	438.0	444.4	451.1	461.1	473.2	490.4	510.2	531.0	551.7
Water 4/ Freight	1316.3	1333.4	1393.2	1376.6	1369.2	1366.4	1360.8	1368.6	1374.5	1379.9	1387.5	1395.7	1401.1
Domestic Shipping	1077.5	1090.7	1144.4	1128.9	1120.9	1117.0	1110.2	1115.3	1118.6	1121.3	1126.1	1131.1	1133.7
International Shipping	310.6	315.3	320.9	316.4	319.1	325.8	329.6	333.6	335.9	337.6	341.4	345.3	346.9
Recreational Boats	766.9	775.4	823.5	812.5	801.8	791.2	780.6	781.7	782.7	783.7	784.7	785.8	786.8
Rail	238.8	242.7	248.7	247.7	248.3	249.4	250.6	253.2	255.9	258.6	261.4	264.6	267.4
Freight	587.0	611.4	618.0	616.2	617.1	628.4	648.3	656.2	659.9	664.6	669.7	680.6	685.8
Passenger	545.0	567.8	573.1	570.4	570.3	581.2	600.8	608.3	611.6	616.0	620.7	631.2	636.1
Intercity	42.0	43.6	44.8	45.8	46.8	47.2	47.5	47.9	48.3	48.6	49.0	49.3	49.7
Transit	13.4	14.5	15.2	16.0	15.8	15.3	14.9	14.4	14.1	13.8	13.4	13.1	12.9
Commuter	14.7	14.9	15.2	15.4	15.7	16.1	16.4	16.7	16.9	17.2	17.4	17.7	17.9
Lubricants	13.9	14.2	14.4	14.5	15.2	15.8	16.3	16.8	17.3	17.6	18.1	18.5	18.9
Pipeline Fuel Natural Gas	151.0	147.0	140.0	139.0	140.6	141.7	141.8	142.2	142.7	143.2	143.6	143.9	144.1
Freight	601.7	592.1	631.8	617.0	634.4	640.1	643.6	650.6	647.8	650.6	656.8	661.6	661.6
Military Use	679.6	688.2	712.5	742.5	738.0	725.4	714.7	708.1	706.0	707.1	709.9	713.4	717.1
Aviation	531.5	543.7	561.7	585.6	582.4	572.8	564.7	559.5	557.8	558.7	560.9	563.7	566.6
Residual Fuel Oil	19.8	15.7	17.3	17.8	17.4	16.8	16.3	16.2	16.1	16.2	16.2	16.3	16.4
Distillate Fuel Oil	128.3	128.7	133.6	139.1	138.2	135.8	133.7	132.5	132.1	132.3	132.8	133.4	134.1

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	27899.9	28200.0	28528.2	28492.0	28651.7	28984.6	29316.8	29673.2	29918.1	30147.1	30372.1	30615.7	30778.2
Energy Use by Type													
Motor Gasoline	17022.0	17195.0	17315.0	17221.2	17211.0	17252.2	17281.3	17397.0	17500.2	17540.7	17460.3	17421.2	17322.3
Distillate Fuel Oil (diesel)	5990.0	6182.0	6267.0	6269.4	6353.2	6544.7	6739.6	6871.1	6959.6	7038.4	7133.4	7238.5	7318.8
Jet Fuel (kerosene & naphtha)	3219.6	3157.7	3190.0	3269.0	3343.9	3443.0	3552.4	3646.7	3696.3	3756.8	3822.0	3890.0	3955.1
Residual Fuel Oil	828.0	832.0	887.0	874.1	862.8	852.7	841.6	843.7	845.2	846.7	848.8	851.0	852.6
Aviation Gasoline	35.1	33.0	32.0	29.0	32.7	32.6	32.5	32.4	32.4	32.3	32.2	32.2	32.2
Liquefied Petroleum Gases	14.9	17.5	17.7	20.2	16.7	15.7	15.8	15.6	15.2	14.9	14.6	14.3	13.9
Lubricants	151.0	147.0	140.0	139.0	140.6	141.7	141.8	142.2	142.7	143.2	143.6	143.9	144.1
Petroleum Subtotal	27260.6	27564.2	27848.8	27821.8	27960.9	28282.6	28605.0	28948.7	29191.6	29373.0	29454.9	29591.0	29638.9
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol	1.1	1.3	1.7	3.6	2.3	2.7	3.6	4.2	4.4	45.2	178.4	277.6	389.3
Electricity	21.4	21.7	22.1	22.4	22.9	23.3	23.7	24.0	24.4	24.6	25.0	25.3	25.6
Compressed Natural Gas	15.1	20.7	23.8	27.1	31.2	35.8	40.8	45.6	49.8	53.4	56.8	59.8	62.4
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5
Pipeline Fuel Natural Gas	601.7	592.1	631.8	617.0	634.4	640.1	643.6	650.6	647.8	650.6	656.8	661.6	661.6
Total Consumption	27899.9	28200.0	28528.2	28492.0	28651.7	28984.6	29316.8	29673.2	29918.1	30147.1	30372.1	30615.8	30778.2

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Energy Use by Mode														
Highway														
Light-Duty Vehicles	17162.1	17161.4	17103.6	17112.3	17101.2	17110.8	17120.6	17107.0	17159.3	17228.1	17309.7	17407.3	17519.8	0.3%
Automobiles	7791.6	7699.6	7608.4	7543.2	7440.2	7461.7	7476.5	7496.5	7528.1	7551.2	7588.6	7640.6	7684.9	-0.2%
Light Trucks	9349.9	9441.3	9474.8	9548.7	9640.6	9628.8	9623.9	9590.5	9611.2	9656.9	9701.1	9746.6	9814.8	0.7%
Motorcycles	20.6	20.5	20.4	20.4	20.4	20.3	20.2	20.0	20.0	20.0	20.0	20.0	20.1	-0.5%
Commercial Light Trucks 1/ Buses	635.5	634.0	631.2	630.2	628.2	627.9	627.8	627.2	629.3	631.9	634.5	638.2	643.3	0.2%
Transit	271.3	271.8	272.3	273.3	274.3	275.5	276.9	278.1	279.6	281.2	282.8	284.4	286.1	0.3%
Intercity	94.3	94.5	94.6	95.0	95.3	95.8	96.2	96.7	97.2	97.7	98.3	98.9	99.4	0.3%
School	49.0	49.1	49.2	49.4	49.6	49.8	50.1	50.3	50.6	50.9	51.2	51.4	51.7	0.3%
Freight Trucks 2/ Medium (1000-26000 pounds)	128.0	128.2	128.4	128.9	129.4	130.0	130.6	131.2	131.9	132.6	133.4	134.1	134.9	0.3%
Large (> 26000 pounds)	5745.4	5794.3	5850.1	5907.2	5959.9	6017.0	6074.2	6133.5	6196.2	6260.9	6321.5	6379.1	6444.9	1.2%
Medium (1000-26000 pounds)	825.6	837.1	849.4	861.9	873.1	884.9	895.6	906.1	917.2	928.2	938.4	945.7	954.0	1.1%
Large (> 26000 pounds)	4919.8	4957.2	5000.7	5045.3	5086.8	5132.1	5178.6	5227.4	5279.0	5332.7	5383.0	5433.4	5490.9	1.2%
Non-Highway														
Air 3/ General Aviation	3483.8	3546.4	3609.1	3671.9	3734.7	3795.9	3856.5	3917.0	3976.6	4036.6	4096.9	4156.6	4216.3	2.0%
Domestic Air Carriers	196.5	199.5	202.4	205.4	208.4	211.3	214.2	217.0	219.9	222.7	225.6	228.4	231.3	1.6%
International Air Carriers	1684.1	1697.2	1710.6	1724.2	1737.7	1750.5	1762.7	1774.0	1784.8	1795.2	1805.2	1814.9	1824.1	0.8%
Freight Carriers	1029.0	1053.1	1076.3	1098.7	1119.8	1139.5	1157.7	1174.1	1189.0	1202.5	1214.5	1225.2	1234.4	3.3%
Water 4/ Freight	574.1	596.6	619.7	643.6	668.8	694.6	722.0	751.9	782.9	816.2	851.5	888.0	926.6	3.3%
Domestic Shipping	1406.0	1410.9	1417.0	1423.3	1428.0	1431.8	1436.1	1439.3	1444.6	1449.5	1452.8	1456.0	1460.2	0.4%
International Shipping	1135.8	1137.7	1141.3	1144.5	1146.9	1147.9	1149.7	1151.0	1153.5	1155.7	1156.4	1157.0	1158.5	0.3%
Recreational Boats	347.9	348.7	351.3	353.6	354.8	354.8	355.5	355.7	357.1	358.3	357.8	357.3	357.7	0.5%
Rail	787.9	788.9	790.0	791.0	792.0	793.1	794.2	795.3	796.3	797.4	798.6	799.7	800.8	0.1%
Freight	270.2	273.2	275.7	278.7	281.2	283.9	286.4	288.4	291.1	293.8	296.4	299.1	301.6	0.9%
Passenger	691.6	697.9	704.3	712.3	718.5	726.4	733.9	740.4	747.1	753.8	761.3	766.8	774.1	1.0%
Intercity	641.4	647.1	652.9	660.4	666.1	673.5	680.5	686.5	692.7	698.9	705.9	710.8	717.6	1.0%
Transit	50.2	50.8	51.4	51.9	52.4	52.9	53.4	53.9	54.4	54.9	55.5	56.0	56.5	1.1%
Commuter	12.8	12.9	13.0	12.9	12.8	12.8	12.7	12.6	12.6	12.5	12.5	12.4	12.4	-0.6%
Lubricants	18.2	18.4	18.7	18.9	19.1	19.4	19.6	19.8	20.1	20.3	20.5	20.8	21.0	1.4%
Pipeline Fuel Natural Gas	19.2	19.5	19.8	20.1	20.5	20.8	21.1	21.4	21.8	22.1	22.4	22.8	23.1	2.1%
Lubricants	144.4	144.6	144.9	145.3	145.6	146.1	146.5	146.9	147.4	147.9	148.3	148.7	149.2	0.1%
Pipeline Fuel Natural Gas	660.7	658.6	690.1	722.9	724.3	722.4	722.4	720.5	722.1	721.9	722.7	719.3	718.5	0.8%
Military Use	720.9	724.7	728.5	732.2	736.0	739.7	743.3	747.0	750.6	754.1	757.6	761.1	764.5	0.4%
Aviation	569.6	572.6	575.6	578.6	581.6	584.5	587.4	590.3	593.2	596.0	598.8	601.5	604.2	0.4%
Residual Fuel Oil	16.5	16.6	16.7	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.3	17.4	17.5	0.4%
Distillate Fuel Oil	134.8	135.5	136.2	136.9	137.6	138.3	138.9	139.6	140.3	140.9	141.6	142.2	142.8	0.4%

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Total	30921.7	31044.6	31151.0	31330.8	31450.8	31593.5	31738.1	31857.1	32052.9	32265.9	32488.2	32717.6	32976.8	0.7%
Energy Use by Type														
Motor Gasoline	17213.3	16902.8	16563.9	16250.0	15786.3	15805.0	15805.6	15832.0	15865.8	15854.3	15882.7	15952.9	15965.3	-0.3%
Distillate Fuel Oil (diesel)	7412.6	7514.7	7629.0	7745.8	7860.5	7986.2	8115.8	8248.0	8387.8	8533.1	8678.6	8823.3	8980.2	1.6%
Jet Fuel (kerosene & naphtha)	4021.3	4086.9	4152.6	4218.4	4284.2	4348.4	4411.9	4475.3	4537.8	4600.5	4663.6	4726.0	4788.6	1.8%
Residual Fuel Oil	853.9	855.2	857.0	858.7	860.2	861.2	862.5	863.7	865.2	866.7	867.7	868.6	869.9	0.2%
Aviation Gasoline	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	-0.1%
Liquefied Petroleum Gases	13.6	13.4	13.3	13.3	13.3	13.4	13.4	13.5	13.5	13.6	13.7	13.7	13.7	-1.0%
Lubricants	144.4	144.6	144.9	145.3	145.6	146.1	146.5	146.9	147.4	147.9	148.3	148.7	149.2	0.1%
Petroleum Subtotal	29691.1	29549.7	29392.8	29263.6	28982.2	29192.3	29387.7	29611.5	29849.6	30048.1	30286.6	30565.3	30798.9	0.5%
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol	478.5	742.3	971.6	1245.2	1642.7	1574.6	1521.6	1416.7	1370.9	1383.8	1365.1	1317.9	1343.1	33.5%
Electricity	25.9	26.2	26.5	26.8	27.1	27.8	28.1	28.3	28.6	28.9	29.2	29.5	29.8	1.3%
Compressed Natural Gas	64.7	66.9	69.0	71.0	72.9	74.7	76.3	77.8	79.2	80.4	81.5	82.3	83.1	6.0%
Liquid Hydrogen	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3	3.5	44.8%
Pipeline Fuel Natural Gas	660.7	658.6	690.1	722.9	724.3	722.4	722.4	720.5	722.1	721.9	722.7	719.3	718.5	0.8%
Total Consumption	30921.7	31044.6	31151.0	31330.8	31450.8	31593.5	31738.1	31857.1	32052.9	32265.9	32488.2	32717.6	32976.8	0.7%

Table 35. Transportation Sector Energy Use by Mode and Type (trillion Btu)

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

2/ Does not include commercial bus and military use.

3/ Does not include military jet fuel use.

4/ Does not include military residual oil.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2005 and 2006 values derived using: Energy Information Administration (EIA), Annual Energy Review 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007); EIA, Fuel Oil and Kerosene Sales 2004, DOE/EIA-0535(2004) (Washington, DC, November 2005); EIA, State Energy Data Report 2004, DOE/EIA-0214(2004) (Washington, DC, June 2007); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 and Annual (Oak Ridge, TN, 2007); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Light-Duty Vehicle													
Motor Gasoline	15966.23	16134.44	16246.66	16176.08	16172.91	16204.86	16225.82	16336.46	16439.09	16478.04	16394.23	16349.91	16250.01
Ethanol	1.06	1.31	1.74	3.62	2.31	2.72	3.65	4.20	4.39	45.24	178.41	277.62	389.29
Compressed Natural Gas	6.88	9.87	10.62	11.20	11.49	11.86	12.11	12.21	12.24	12.20	12.04	11.85	11.69
Liquefied Petroleum Gases	5.15	7.26	6.88	8.79	4.63	2.94	2.60	2.26	1.98	1.78	1.59	1.43	1.32
Electricity	0.70	0.68	0.64	0.61	0.58	0.55	0.52	0.49	0.46	0.44	0.41	0.38	0.37
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49
Distillate Fuel Oil (diesel)	246.77	253.63	256.72	265.92	278.34	293.58	313.77	337.36	362.67	389.75	418.55	451.37	488.52
Total	16226.80	16407.19	16523.26	16466.22	16470.27	16516.54	16558.53	16693.09	16820.98	16927.62	17005.51	17092.95	17141.69
Commercial Light Trucks Gasoline 1/													
	610.08	617.92	619.93	606.07	606.75	615.86	625.14	631.15	632.68	633.53	635.09	637.53	636.81
Freight Trucks 2/													
Motor Gasoline	237.14	230.35	231.21	223.41	216.67	217.20	216.22	214.04	211.67	210.82	211.12	211.92	212.03
Distillate Fuel Oil (diesel)	4489.60	4640.85	4711.80	4703.32	4770.19	4929.51	5079.74	5175.53	5231.97	5276.14	5332.48	5388.71	5423.29
Compressed Natural Gas	8.24	10.78	13.21	15.87	19.76	23.90	28.64	33.35	37.59	41.25	44.72	47.95	50.66
Liquefied Petroleum Gases	9.70	10.26	10.86	11.36	12.03	12.75	13.20	13.30	13.24	13.11	12.98	12.82	12.58
Total	4744.68	4892.24	4967.07	4953.96	5018.63	5183.36	5337.80	5436.21	5494.47	5541.32	5601.31	5661.40	5698.56
Freight Rail 3/													
Distillate Fuel Oil (diesel)	545.03	567.82	573.15	570.41	570.29	581.23	600.76	608.29	611.62	615.96	620.72	631.25	636.07
Total	545.03	567.82	573.15	570.41	570.29	581.23	600.76	608.29	611.62	615.96	620.72	631.25	636.07
Domestic Shipping													
Distillate Fuel Oil (diesel)	219.47	223.52	223.57	221.37	224.22	229.95	233.65	236.50	238.12	239.33	241.98	244.75	245.89
Residual Oil	91.17	91.79	97.37	95.03	94.86	95.86	95.94	97.12	97.78	98.29	99.37	100.51	100.98
Total	310.64	315.31	320.94	316.40	319.08	325.80	329.60	333.62	335.90	337.62	341.36	345.26	346.88
International Shipping													
Distillate Fuel Oil (diesel)	49.82	50.91	51.18	51.19	51.20	51.23	51.26	51.34	51.40	51.46	51.53	51.60	51.67
Residual Oil	717.07	724.46	772.30	761.34	750.57	739.96	729.33	730.37	731.28	732.23	733.22	734.22	735.18
Total	766.89	775.37	823.49	812.53	801.78	791.20	780.60	781.71	782.68	783.69	784.75	785.82	786.84
Air Transportation													
Jet Fuel	2688.08	2614.02	2628.34	2683.31	2761.44	2870.22	2987.75	3087.25	3138.42	3198.13	3261.06	3326.35	3388.52
Aviation Gasoline	35.15	33.00	32.00	29.00	32.75	32.62	32.51	32.42	32.35	32.29	32.24	32.20	32.16
Total	2723.23	2647.02	2660.34	2712.31	2794.18	2902.83	3020.26	3119.67	3170.77	3230.42	3293.30	3358.55	3420.68
Miscellaneous Transportation													
Military Use													
Jet Fuel	531.48	543.69	561.68	585.65	582.44	572.79	564.68	559.50	557.84	558.70	560.92	563.67	566.59
Residual Fuel Oil	19.76	15.74	17.31	17.77	17.40	16.84	16.34	16.19	16.14	16.17	16.23	16.31	16.39
Distillate Fuel Oil	128.32	128.74	133.55	139.09	138.18	135.75	133.69	132.46	132.06	132.25	132.77	133.41	134.09
Total	679.56	688.17	712.55	742.52	738.03	725.39	714.71	708.15	706.03	707.12	709.92	713.39	717.07

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Bus Transportation													
Transit Bus (motor gasoline)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21
Transit Bus (diesel)	90.03	91.45	90.89	90.85	91.07	91.54	92.21	92.75	93.07	93.27	93.46	93.69	93.91
Intercity Bus (diesel)	46.88	47.62	47.33	47.31	47.43	47.67	48.02	48.31	48.48	48.58	48.69	48.81	48.93
School Bus (motor gasoline)	10.98	11.11	11.26	11.21	11.19	11.20	11.24	11.31	11.35	11.38	11.41	11.44	11.47
School Bus (diesel)	111.42	113.18	112.49	112.44	112.70	113.29	114.12	114.79	115.19	115.43	115.67	115.96	116.22
Total	259.50	263.55	262.18	262.01	262.59	263.90	265.79	267.37	268.29	268.86	269.43	270.11	270.73
Rail Transportation													
Intercity Rail (electricity)	1.37	1.45	1.52	1.60	1.59	1.54	1.49	1.45	1.41	1.38	1.35	1.32	1.30
Intercity Rail (diesel)	12.02	13.03	13.68	14.37	14.24	13.79	13.38	12.99	12.64	12.40	12.10	11.79	11.63
Transit Rail (electricity)	14.68	14.91	15.17	15.37	15.75	16.06	16.37	16.67	16.94	17.18	17.45	17.70	17.95
Commuter Rail (electricity)	4.63	4.68	4.77	4.83	4.98	5.15	5.29	5.42	5.54	5.64	5.76	5.87	5.97
Commuter Rail (diesel)	9.26	9.49	9.66	9.65	10.26	10.67	11.01	11.39	11.73	12.00	12.34	12.66	12.91
Total	41.96	43.56	44.81	45.82	46.81	47.21	47.55	47.92	48.25	48.61	48.99	49.35	49.75
Recreation Boats													
Gasoline	238.76	242.74	248.72	247.67	248.33	249.38	250.62	253.23	255.88	258.56	261.39	264.59	267.41
Distillate Fuel Oil (diesel)	197.38	200.98	205.74	204.19	203.27	202.85	202.66	203.85	205.24	206.72	208.24	210.14	211.77
Lubricants	41.39	41.76	42.98	43.48	45.06	46.53	47.96	49.38	50.64	51.84	53.15	54.45	55.64
Pipeline Fuel Natural Gas	151.00	147.00	140.00	139.00	140.61	141.72	141.81	142.17	142.71	143.18	143.60	143.92	144.13
Total	601.74	592.06	631.81	617.05	634.35	640.14	643.58	650.59	647.84	650.65	656.75	661.64	661.59
Total Miscellaneous	1972.51	1977.08	2040.06	2054.06	2070.73	2067.75	2064.07	2069.43	2069.01	2076.98	2090.08	2103.00	2110.68
Total Consumption	27899.85	28199.96	28528.24	28491.96	28651.71	28984.57	29316.75	29673.16	29918.12	30147.14	30372.11	30615.75	30778.21

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Light-Duty Vehicle														
Motor Gasoline	16139.73	15827.25	15488.16	15171.63	14707.44	14723.22	14721.14	14746.20	14774.31	14756.67	14779.00	14841.96	14845.51	-0.3%
Ethanol	478.54	742.26	971.55	1245.16	1642.66	1574.55	1521.61	1416.71	1370.87	1383.78	1365.13	1317.89	1343.05	33.5%
Compressed Natural Gas	11.52	11.36	11.19	11.03	10.94	10.90	10.88	10.91	10.94	10.98	11.03	11.08	11.13	0.5%
Liquefied Petroleum Gases	1.21	1.14	1.09	1.00	0.93	0.87	0.81	0.76	0.71	0.68	0.64	0.61	0.59	-9.9%
Electricity	0.35	0.33	0.31	0.29	0.26	0.65	0.58	0.55	0.50	0.45	0.41	0.38	0.35	-2.7%
Liquid Hydrogen	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%
Distillate Fuel Oil (diesel)	530.07	578.10	630.16	681.79	737.37	798.85	863.52	929.62	999.46	1072.79	1150.40	1232.06	1315.64	7.1%
Total	17162.14	17161.37	17103.59	17112.26	17101.19	17110.83	17120.60	17107.04	17159.33	17228.14	17309.65	17407.27	17519.79	0.3%
Commercial Light Trucks Gasoline 1/														
	635.49	633.99	631.20	630.25	628.24	627.94	627.77	627.22	629.34	631.86	634.52	638.18	643.25	0.2%
Freight Trucks 2/														
Motor Gasoline	212.95	214.49	216.07	217.89	219.08	220.69	222.15	223.28	225.24	227.31	229.29	231.38	233.75	0.1%
Distillate Fuel Oil (diesel)	5466.87	5512.09	5564.06	5617.06	5666.43	5720.00	5774.00	5830.65	5889.88	5951.23	6008.68	6063.46	6126.05	1.2%
Compressed Natural Gas	53.18	55.50	57.77	59.95	61.95	63.79	65.41	66.89	68.22	69.43	70.44	71.20	71.93	8.2%
Liquefied Petroleum Gases	12.37	12.26	12.24	12.30	12.40	12.52	12.61	12.71	12.82	12.94	13.05	13.08	13.14	1.0%
Total	5745.37	5794.34	5850.15	5907.21	5959.87	6017.00	6074.17	6133.52	6196.16	6260.92	6321.45	6379.12	6444.86	1.2%
Freight Rail 3/														
Distillate Fuel Oil (diesel)	641.35	647.08	652.89	660.38	666.09	673.52	680.52	686.54	692.71	698.90	705.90	710.83	717.57	1.0%
Total	641.35	647.08	652.89	660.38	666.09	673.52	680.52	686.54	692.71	698.90	705.90	710.83	717.57	1.0%
Domestic Shipping														
Distillate Fuel Oil (diesel)	246.62	247.22	249.04	250.62	251.52	251.47	251.99	252.14	253.15	253.96	253.64	253.25	253.55	0.5%
Residual Oil	101.29	101.53	102.29	102.94	103.31	103.30	103.51	103.58	104.00	104.34	104.21	104.05	104.18	0.5%
Total	347.91	348.75	351.33	353.55	354.84	354.77	355.50	355.72	357.15	358.30	357.84	357.31	357.73	0.5%
International Shipping														
Distillate Fuel Oil (diesel)	51.73	51.80	51.87	51.93	52.00	52.07	52.14	52.21	52.28	52.35	52.42	52.49	52.56	0.1%
Residual Oil	736.16	737.12	738.08	739.06	740.04	741.03	742.03	743.05	744.07	745.10	746.14	747.18	748.23	0.1%
Total	787.89	788.92	789.95	790.99	792.04	793.10	794.17	795.25	796.34	797.44	798.56	799.67	800.79	0.1%
Air Transportation														
Jet Fuel	3451.65	3514.31	3576.97	3639.82	3702.64	3763.88	3824.50	3885.01	3944.62	4004.56	4064.87	4124.54	4184.33	2.0%
Aviation Gasoline	32.14	32.11	32.09	32.08	32.06	32.05	32.04	32.04	32.03	32.02	32.02	32.02	32.01	-0.1%
Total	3483.79	3546.42	3609.07	3671.90	3734.70	3795.93	3856.54	3917.04	3976.65	4036.58	4096.89	4156.55	4216.34	2.0%
Miscellaneous Transportation														
Military Use														
Jet Fuel	569.61	572.62	575.63	578.60	581.56	584.51	587.41	590.30	593.16	595.97	598.76	601.51	604.23	0.4%
Residual Fuel Oil	16.48	16.56	16.65	16.74	16.82	16.90	16.99	17.07	17.15	17.23	17.31	17.39	17.47	0.4%
Distillate Fuel Oil	134.80	135.50	136.20	136.89	137.58	138.26	138.94	139.61	140.27	140.92	141.57	142.21	142.83	0.4%
Total	720.88	724.68	728.48	732.23	735.96	739.68	743.34	746.97	750.58	754.13	757.64	761.11	764.53	0.4%

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Bus Transportation														
Transit Bus (motor gasoline)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.4%
Transit Bus (diesel)	94.11	94.26	94.43	94.76	95.13	95.55	96.01	96.47	96.97	97.52	98.09	98.63	99.21	0.3%
Intercity Bus (diesel)	49.04	49.12	49.21	49.39	49.59	49.81	50.05	50.30	50.56	50.85	51.15	51.44	51.75	0.3%
School Bus (motor gasoline)	11.49	11.53	11.56	11.61	11.65	11.71	11.76	11.78	11.85	11.91	11.98	12.05	12.12	0.4%
School Bus (diesel)	116.47	116.66	116.87	117.28	117.74	118.26	118.82	119.39	120.02	120.69	121.39	122.07	122.78	0.3%
Total	271.32	271.78	272.28	273.25	274.32	275.54	276.86	278.15	279.61	281.18	282.83	284.42	286.07	0.3%
Rail Transportation														
Intercity Rail (electricity)	1.29	1.29	1.30	1.29	1.29	1.28	1.27	1.27	1.26	1.26	1.25	1.25	1.25	-0.6%
Intercity Rail (diesel)	11.55	11.59	11.67	11.58	11.53	11.47	11.40	11.34	11.29	11.24	11.21	11.20	11.17	-0.6%
Transit Rail (electricity)	18.19	18.42	18.65	18.89	19.12	19.35	19.59	19.82	20.07	20.31	20.55	20.79	21.04	1.4%
Commuter Rail (electricity)	6.07	6.15	6.24	6.34	6.43	6.52	6.61	6.70	6.79	6.88	6.97	7.06	7.15	1.8%
Commuter Rail (diesel)	13.14	13.33	13.53	13.81	14.03	14.26	14.51	14.75	14.99	15.23	15.46	15.70	15.94	2.2%
Total	50.23	50.78	51.39	51.91	52.38	52.89	53.38	53.88	54.39	54.91	55.45	56.00	56.55	1.1%
Recreation Boats														
Gasoline	213.42	215.29	216.67	218.40	219.68	221.21	222.54	223.33	224.83	226.30	227.72	229.14	230.48	0.6%
Distillate Fuel Oil (diesel)	56.82	57.93	59.07	60.31	61.48	62.67	63.86	65.03	66.24	67.46	68.70	69.93	71.16	2.2%
Lubricants	144.36	144.62	144.92	145.27	145.64	146.05	146.47	146.95	147.41	147.87	148.32	148.75	149.20	0.1%
Pipeline Fuel Natural Gas	660.73	658.64	690.07	722.86	724.34	722.36	722.42	720.50	722.14	721.91	722.70	719.31	718.48	0.8%
Total Miscellaneous	2117.75	2123.72	2162.87	2204.23	2213.81	2220.40	2228.85	2234.80	2245.20	2253.77	2263.36	2268.65	2276.47	0.6%
Total Consumption	30921.69	31044.59	31151.04	31330.77	31450.79	31593.49	31738.13	31857.14	32052.89	32265.92	32488.18	32717.59	32976.82	0.7%

Table 36. Transportation Sector Energy Use by Fuel Type Within a Mode (trillion Btu)

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

2/ Does not include military distillate. Does not include commercial buses.

3/ Does not include passenger rail.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2005 and 2006 compressed natural gas volumes: Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Other 2005 and 2006 values derived using: EIA, Annual Energy Review, 2006, DOE/EIA-0384(2006) (Washington, DC, June 2007); EIA, Fuel Oil and Kerosene Sales 2004, DOE/EIA-0535(2004) (Washington, DC, November 2005); EIA, State Energy Data Report 2004, DOE/EIA-0214(2004) (Washington, DC, June 2007); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 and Annual (Oak Ridge, TN, 2007); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 37. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	15613.12	15743.84	15788.64	15643.91	15548.17	15465.04	15343.64	15287.93	15210.74	15088.97	14933.46	14761.27	14559.45
TDI Diesel ICE	246.77	253.63	256.72	265.92	278.34	293.58	313.77	337.36	362.67	389.75	418.55	451.37	488.52
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	350.69	380.41	436.17	495.67	565.40	656.14	767.86	896.80	1034.60	1189.79	1335.95	1501.81	1645.43
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Alcohol	350.69	380.41	436.17	495.67	565.40	656.14	767.86	896.80	1034.60	1189.79	1335.95	1501.81	1645.43
Natural Gas Technology													
Compressed Natural Gas ICE	2.85	3.14	3.30	3.42	3.45	3.53	3.57	3.58	3.57	3.54	3.48	3.42	3.36
Compressed Natural Gas Bi-fuel	5.86	6.75	7.32	7.78	8.04	8.33	8.54	8.64	8.69	8.67	8.58	8.47	8.37
Liquefied Petroleum Gases ICE	2.01	1.90	1.78	1.63	1.47	1.33	1.20	1.08	0.98	0.89	0.83	0.77	0.72
Liquefied Petroleum Gases Bi-fuel	10.42	10.14	9.26	8.13	7.22	6.09	5.34	4.61	3.99	3.50	3.10	2.76	2.48
Total Natural Gas Technology	21.14	21.93	21.67	20.95	20.18	19.27	18.66	17.90	17.23	16.60	15.98	15.42	14.93
Electric Technology													
Electric Vehicle	0.70	0.68	0.64	0.61	0.58	0.55	0.52	0.49	0.46	0.43	0.41	0.38	0.37
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.10
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.07	0.16	0.24	0.31	0.39	0.48
Electric-Gasoline Hybrid	11.44	25.00	41.27	60.54	81.85	106.56	136.94	173.84	215.85	261.65	315.87	376.33	443.08
Total Electricity	12.15	25.68	41.91	61.14	82.42	107.14	137.51	174.41	216.49	262.35	316.63	377.18	444.03
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49
Total Fuel Cell	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	15966.23	16134.44	16246.66	16176.08	16172.91	16204.86	16225.82	16336.46	16439.09	16478.04	16394.23	16349.91	16250.01
Distillate Fuel Oil (diesel)	246.77	253.63	256.72	265.92	278.34	293.58	313.77	337.36	362.67	389.75	418.55	451.37	488.52
Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol	1.06	1.31	1.74	3.62	2.31	2.72	3.65	4.20	4.39	45.24	178.41	277.62	389.29
Compressed Natural Gas	6.88	9.87	10.62	11.20	11.49	11.86	12.11	12.21	12.24	12.20	12.04	11.85	11.69
Liquefied Petroleum Gases	5.15	7.26	6.88	8.79	4.63	2.94	2.60	2.26	1.98	1.78	1.59	1.43	1.32
Electricity	0.70	0.68	0.64	0.61	0.58	0.55	0.52	0.49	0.46	0.44	0.41	0.38	0.37
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.10	0.14	0.18	0.28	0.39	0.49

Table 37. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Light-Duty Consumption by Technology Type														
Conventional Vehicles 1/														
Gasoline ICE Vehicles	14321.61	14039.31	13725.41	13446.11	13179.44	12943.43	12730.73	12532.61	12361.13	12210.49	12079.83	11970.28	11881.56	-1.2%
TDI Diesel ICE	530.07	578.10	630.16	681.79	737.37	798.85	863.52	929.62	999.46	1072.79	1150.40	1232.06	1315.64	7.1%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	1787.58	1941.74	2060.53	2211.50	2321.09	2421.49	2493.26	2522.42	2593.82	2657.84	2712.25	2759.90	2799.89	8.7%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Alcohol	1787.58	1941.74	2060.53	2211.50	2321.09	2421.49	2493.26	2522.42	2593.82	2657.84	2712.25	2759.90	2799.89	8.7%
Natural Gas Technology														
Compressed Natural Gas ICE	3.30	3.23	3.17	3.12	3.09	3.07	3.07	3.07	3.08	3.09	3.10	3.12	3.13	0.0%
Compressed Natural Gas Bi-fuel	8.25	8.13	8.02	7.91	7.85	7.83	7.82	7.84	7.87	7.90	7.93	7.97	8.01	0.7%
Liquefied Petroleum Gases ICE	0.68	0.66	0.62	0.59	0.56	0.53	0.51	0.49	0.47	0.46	0.44	0.43	0.42	-6.1%
Liquefied Petroleum Gases Bi-fuel	2.19	1.95	1.81	1.62	1.46	1.31	1.18	1.06	0.96	0.87	0.79	0.72	0.66	-10.8%
Total Natural Gas Technology	14.42	13.98	13.63	13.25	12.95	12.74	12.58	12.46	12.38	12.31	12.26	12.23	12.22	-2.4%
Electric Technology														
Electric Vehicle	0.35	0.32	0.30	0.28	0.25	0.63	0.57	0.53	0.48	0.43	0.39	0.35	0.32	-3.1%
Plug-in Gasoline Hybrid	0.12	0.14	0.17	0.20	0.24	0.28	0.32	0.37	0.42	0.48	0.55	0.63	0.72	--
Electric-Diesel Hybrid	0.56	0.63	0.70	0.76	0.82	0.88	0.93	0.98	1.03	1.07	1.11	1.14	1.17	--
Electric-Gasoline Hybrid	516.04	595.33	677.93	762.89	847.77	933.08	1018.44	1102.58	1185.88	1267.90	1348.03	1426.24	1502.95	18.6%
Total Electricity	517.07	596.42	679.10	764.13	849.08	934.87	1020.26	1104.46	1187.81	1269.88	1350.07	1428.36	1505.16	18.5%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%
Total Fuel Cell	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%
Light-Duty Consumption by Fuel Type 1/														
Motor Gasoline	16139.73	15827.25	15488.16	15171.63	14707.44	14723.22	14721.14	14746.20	14774.31	14756.67	14779.00	14841.96	14845.51	-0.3%
Distillate Fuel Oil (diesel)	530.07	578.10	630.16	681.79	737.37	798.85	863.52	929.62	999.46	1072.79	1150.40	1232.06	1315.64	7.1%
Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol	478.54	742.26	971.55	1245.16	1642.66	1574.55	1521.61	1416.71	1370.87	1383.78	1365.13	1317.89	1343.05	33.5%
Compressed Natural Gas	11.52	11.36	11.19	11.03	10.94	10.90	10.88	10.91	10.94	10.98	11.03	11.08	11.13	0.5%
Liquefied Petroleum Gases	1.21	1.14	1.09	1.00	0.93	0.87	0.81	0.76	0.71	0.68	0.64	0.61	0.59	-9.9%
Electricity	0.35	0.33	0.31	0.29	0.26	0.65	0.58	0.55	0.50	0.45	0.41	0.38	0.35	-2.7%
Liquid Hydrogen	0.72	0.93	1.14	1.37	1.59	1.81	2.06	2.30	2.55	2.80	3.04	3.29	3.53	44.8%

Table 37. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (trillion Btu)

1/ Includes personal vehicles and fleet vehicles. Includes both cars and trucks.

Btu = British thermal unit.

ICE = Internal combustion engine.

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	324.4	334.0	333.2	332.5	335.2	343.8	352.0	355.0	348.8	334.1	322.9	315.0	300.9
TDI Diesel ICE	1.9	2.4	3.6	4.1	3.6	4.0	4.8	5.5	6.1	6.4	6.8	7.3	7.8
Total Conventional	326.4	336.4	336.8	336.6	338.8	347.8	356.8	360.5	354.8	340.5	329.7	322.3	308.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	5.9	6.6	12.2	12.6	16.4	18.5	21.9	24.9	27.1	34.3	35.3	33.1	38.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Electric-Gasoline Hybrid	7.6	9.0	12.5	12.1	14.2	15.7	19.3	22.5	25.0	27.2	29.8	32.3	35.3
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.4	0.4
Total Alternatives	13.6	15.8	24.9	24.9	30.9	34.4	41.3	47.7	52.5	61.9	65.7	66.1	74.7
Percent Alternative Car Sales	4.00	4.48	6.88	6.89	8.35	9.01	10.39	11.69	12.90	15.38	16.61	17.02	19.48
Total New Car Sales	340.0	352.2	361.7	361.5	369.6	382.3	398.1	408.2	407.4	402.4	395.4	388.4	383.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	341.3	323.7	290.6	256.1	263.5	275.5	281.2	281.1	275.5	249.5	245.2	251.0	229.1
TDI Diesel ICE	11.7	13.4	14.4	15.5	13.8	17.3	22.1	25.1	27.1	27.4	29.5	34.6	36.1
Total Conventional	353.0	337.1	305.1	271.6	277.2	292.9	303.3	306.2	302.6	276.8	274.7	285.6	265.2

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	14.1	14.0	28.7	32.7	41.5	55.1	70.4	82.6	91.9	114.5	116.2	107.6	120.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	3.7	4.7	4.8	8.9	9.1	11.7	15.3	19.4	23.3	26.0	34.2	40.5	44.7
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Total Alternatives	18.1	19.1	33.8	41.9	51.0	67.2	86.0	102.5	115.6	140.9	150.9	148.5	165.5
Percent Alternative L.T. Sales	4.88	5.35	9.99	13.37	15.53	18.66	22.10	25.08	27.64	33.73	35.46	34.21	38.43
Total New Truck Sales	371.1	356.1	338.9	313.5	328.2	360.1	389.4	408.7	418.2	417.7	425.6	434.0	430.7
Percent Total Alternative Sales	4.46	4.92	8.38	9.90	11.72	13.69	16.18	18.39	20.36	24.72	26.38	26.09	29.50
EPACT Legislative Alternative Sales	1.62	1.70	1.62	1.51	1.53	1.58	1.63	1.66	1.67	1.66	1.65	1.63	1.62
Z EVP Legislative Alternative Sales	9.16	9.19	8.81	9.31	12.36	14.00	15.89	24.22	24.24	23.86	44.92	44.20	43.06
Total Vehicles Sales	711.0	708.3	700.6	675.0	697.8	742.3	787.5	816.9	825.5	820.1	821.0	822.5	814.1

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	293.1	291.3	288.5	284.0	288.3	292.3	295.1	295.5	298.1	299.2	300.2	301.4	302.4	-0.4%
TDI Diesel ICE	8.8	10.2	11.6	11.6	12.6	13.6	14.5	15.3	16.2	17.2	18.6	19.9	21.3	9.4%
Total Conventional	301.9	301.5	300.0	295.5	300.9	305.9	309.6	310.8	314.3	316.5	318.8	321.3	323.7	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	40.4	38.7	43.6	47.7	45.4	43.4	41.8	43.3	42.5	42.5	42.5	42.3	42.8	8.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	39.5	44.0	47.2	47.7	48.7	49.7	50.6	51.2	52.1	52.8	53.6	54.4	55.2	7.9%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	85.6%
Total Alternatives	81.0	83.8	91.9	96.5	95.3	94.3	93.6	95.8	95.8	96.7	97.4	98.0	99.3	8.0%
Percent Alternative Car Sales	21.16	21.75	23.45	24.61	24.05	23.56	23.22	23.56	23.36	23.40	23.41	23.36	23.48	7.1%
Total New Car Sales	382.9	385.3	391.9	392.0	396.2	400.2	403.2	406.6	410.1	413.1	416.2	419.3	423.0	0.8%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	216.7	211.8	195.0	188.8	190.6	192.9	194.7	191.6	192.4	191.6	189.5	187.8	185.9	-2.3%
TDI Diesel ICE	40.6	48.5	53.0	51.4	56.6	60.8	64.8	67.1	70.7	74.4	79.2	83.8	88.0	8.2%
Total Conventional	257.3	260.3	248.0	240.2	247.2	253.7	259.5	258.7	263.1	266.0	268.7	271.6	273.8	-0.9%

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	116.8	101.8	100.8	113.5	104.4	96.8	91.7	93.8	90.4	89.4	87.4	85.0	84.6	7.8%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	49.7	56.2	60.5	61.8	62.7	63.4	64.2	64.2	65.0	65.6	65.9	66.2	66.6	11.7%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.9%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.9%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.4%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	25.1%
Total Alternatives	167.1	158.5	161.7	175.8	167.7	160.7	156.5	158.6	156.1	155.6	154.0	151.9	151.9	9.0%
Percent Alternative L.T. Sales	39.37	37.85	39.48	42.27	40.41	38.78	37.62	38.02	37.23	36.91	36.43	35.87	35.68	8.2%
Total New Truck Sales	424.4	418.8	409.7	416.0	414.9	414.5	416.1	417.3	419.3	421.7	422.7	423.5	425.8	0.7%
Percent Total Alternative Sales														
EPACT Legislative Alternative Sales	1.60	1.60	1.60	1.61	1.62	1.63	1.64	1.64	1.65	1.67	1.67	1.68	1.69	0.0%
ZEVP Legislative Alternative Sales	65.07	64.65	64.18	67.73	67.34	66.90	74.70	74.44	75.32	79.33	80.15	80.95	82.36	9.6%
Total Vehicles Sales	807.3	804.1	801.7	808.0	811.1	814.6	819.3	823.9	829.3	834.8	838.9	842.8	848.8	0.8%

Table 38. Light-Duty Vehicle Sales by Technology Type (thousands)
New England - 01

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1038.5	1039.6	1013.3	991.1	979.3	994.0	1006.0	1004.5	978.4	942.7	903.3	866.7	834.7
TDI Diesel ICE	6.9	8.7	12.6	14.2	13.5	12.5	14.7	16.9	18.5	19.7	20.7	21.9	23.6
Total Conventional	1045.5	1048.4	1025.8	1005.3	992.8	1006.5	1020.7	1021.4	996.9	962.3	923.9	888.6	858.3
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	18.8	20.5	37.0	37.5	48.0	53.5	62.4	70.5	75.9	82.1	86.8	91.0	94.0
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.3	0.3	0.3	0.3
Electric-Gasoline Hybrid	24.1	28.1	38.1	36.2	42.6	45.4	55.0	63.8	70.1	76.3	82.9	88.8	97.4
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.6	0.6
Total Alternatives	43.4	49.1	75.7	74.3	91.2	99.6	118.1	135.0	147.2	159.5	171.1	181.4	192.9
Percent Alternative Car Sales	3.99	4.48	6.87	6.88	8.42	9.00	10.37	11.68	12.87	14.22	15.63	16.95	18.35
Total New Car Sales	1088.9	1097.5	1101.5	1079.7	1084.1	1106.1	1138.8	1156.4	1144.1	1121.8	1095.1	1070.0	1051.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1088.8	1002.3	878.5	757.6	759.3	793.9	801.0	792.5	769.3	729.0	703.9	686.7	652.3
TDI Diesel ICE	42.1	48.5	51.3	54.6	55.8	54.5	68.1	76.8	82.7	88.6	93.5	103.1	113.6
Total Conventional	1131.0	1050.8	929.8	812.3	815.0	848.4	869.1	869.4	851.9	817.6	797.3	789.8	765.9

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	44.8	43.3	86.7	96.6	119.3	158.6	200.2	232.5	256.2	271.5	283.8	293.7	289.0
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	11.9	14.6	14.6	26.6	27.2	33.9	43.7	54.9	65.4	74.3	96.6	111.1	124.9
Compressed Natural Gas ICE	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.2	0.2
Total Alternatives	57.6	59.0	102.3	124.1	147.5	193.4	244.8	288.5	322.5	346.7	381.4	405.8	415.0
Percent Alternative L.T. Sales	4.85	5.31	9.91	13.25	15.32	18.57	21.98	24.92	27.46	29.78	32.36	33.94	35.14
Total New Truck Sales	1188.6	1109.7	1032.0	936.3	962.5	1041.8	1113.9	1157.8	1174.4	1164.3	1178.7	1195.6	1180.9
Percent Total Alternative Sales	4.44	4.90	8.34	9.84	11.66	13.64	16.11	18.30	20.26	22.14	24.30	25.92	27.23
EPACT Legislative Alternative Sales	5.19	5.30	4.94	4.51	4.47	4.57	4.67	4.71	4.70	4.63	4.58	4.50	4.43
Z EVP Legislative Alternative Sales	12.98	13.18	12.79	12.36	16.85	19.43	22.45	34.77	37.71	37.09	69.59	68.26	66.46
Total Vehicles Sales	2277.5	2207.3	2133.6	2016.0	2046.6	2147.9	2252.8	2314.2	2318.5	2286.2	2273.8	2265.6	2232.1

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	811.2	797.3	780.2	772.5	781.1	790.2	796.8	801.9	805.2	807.0	808.5	810.2	812.7	-1.0%
TDI Diesel ICE	26.5	30.2	33.5	34.1	37.0	39.6	42.2	44.6	47.0	49.9	53.2	56.3	59.7	8.3%
Total Conventional	837.7	827.4	813.6	806.6	818.1	829.8	838.9	846.5	852.2	856.9	861.7	866.5	872.4	-0.8%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	97.3	99.1	120.3	123.0	117.9	112.4	107.4	105.2	105.4	105.8	106.0	106.2	106.8	7.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	--
Electric-Diesel Hybrid	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	108.6	120.0	127.6	129.3	131.7	134.1	136.2	138.3	140.1	141.9	143.7	145.6	147.7	7.2%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.1%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	1.3	1.3	1.2	1.3	1.3	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	85.9%
Total Alternatives	208.1	221.3	250.1	254.5	251.8	248.7	245.9	245.8	247.9	250.1	252.2	254.3	257.1	7.1%
Percent Alternative Car Sales	19.89	21.10	23.51	23.99	23.53	23.06	22.67	22.50	22.53	22.59	22.64	22.69	22.76	7.0%
Total New Car Sales	1045.8	1048.7	1063.7	1061.1	1069.8	1078.5	1084.8	1092.3	1100.1	1107.0	1113.9	1120.8	1129.5	0.1%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	615.9	582.8	520.7	515.3	516.2	520.2	524.7	524.6	521.8	517.7	511.3	505.7	501.2	-2.8%
TDI Diesel ICE	126.8	145.4	151.3	153.1	166.9	178.5	189.7	199.3	207.2	217.5	228.6	238.0	248.6	7.0%
Total Conventional	742.7	728.3	672.0	668.4	683.0	698.7	714.4	723.9	729.0	735.3	739.9	743.7	749.8	-1.4%

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	276.4	256.7	276.3	288.4	266.6	246.2	230.9	221.6	219.2	216.7	212.9	209.4	206.9	6.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.6%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	138.6	153.8	162.5	168.1	169.5	170.8	172.7	174.2	175.2	176.4	176.9	177.5	178.6	11.0%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.5%
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-1.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.6%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	25.6%
Total Alternatives	416.3	411.7	439.9	457.6	437.3	418.2	404.9	397.1	395.8	394.5	391.2	388.3	387.0	8.2%
Percent Alternative L.T. Sales	35.92	36.11	39.56	40.64	39.03	37.44	36.18	35.42	35.19	34.92	34.59	34.30	34.04	8.0%
Total New Truck Sales	1159.0	1140.0	1111.9	1126.0	1120.4	1117.0	1119.3	1121.0	1124.8	1129.8	1131.1	1132.0	1136.8	0.1%
Percent Total Alternative Sales	28.32	28.92	31.71	32.56	31.46	30.38	29.53	29.05	28.93	28.82	28.66	28.53	28.42	7.6%
EPACT Legislative Alternative Sales	4.38	4.36	4.35	4.36	4.37	4.38	4.40	4.42	4.44	4.46	4.48	4.49	4.52	-0.7%
Z EVP Legislative Alternative Sales	100.57	100.09	99.70	105.08	104.59	104.01	116.17	115.82	117.23	123.49	124.82	126.13	128.36	9.9%
Total Vehicles Sales	2204.8	2188.7	2175.6	2187.1	2190.2	2195.4	2204.2	2213.3	2224.9	2236.7	2245.0	2252.9	2266.3	0.1%

Table 39. Light-Duty Vehicle Sales by Technology Type (thousands)
Middle Atlantic - 02

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1192.5	1185.4	1148.7	1118.2	1099.5	1110.3	1120.5	1115.5	1084.2	1043.1	998.8	957.5	900.0
TDI Diesel ICE	8.2	9.5	13.6	15.2	15.0	14.8	16.9	19.9	22.0	23.3	24.4	25.9	26.9
Total Conventional	1200.7	1194.9	1162.3	1133.3	1114.5	1125.1	1137.4	1135.3	1106.2	1066.3	1023.2	983.4	926.9
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	21.5	23.4	42.0	42.3	53.9	59.8	69.5	78.3	84.1	90.7	95.9	100.4	127.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.4	0.3	0.4	0.3
Electric-Gasoline Hybrid	27.5	31.6	42.6	40.3	47.2	50.5	61.0	70.6	77.5	84.3	91.5	98.0	105.9
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	49.7	55.6	85.2	83.2	101.8	111.0	131.3	149.7	162.7	176.1	188.4	199.5	234.6
Percent Alternative Car Sales	3.98	4.45	6.83	6.84	8.37	8.98	10.35	11.65	12.83	14.17	15.55	16.87	20.20
Total New Car Sales	1250.4	1250.5	1247.4	1216.5	1216.3	1236.2	1268.7	1285.1	1268.9	1242.4	1211.6	1183.0	1161.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1249.3	1145.6	998.7	858.1	853.6	884.1	890.6	877.1	848.2	802.5	773.9	753.7	658.7
TDI Diesel ICE	49.6	51.7	54.1	57.0	61.3	65.3	78.7	91.2	99.2	105.9	111.6	123.4	121.8
Total Conventional	1298.9	1197.3	1052.8	915.1	914.8	949.3	969.3	968.2	947.4	908.4	885.5	877.1	780.5

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	51.3	49.5	98.5	109.4	134.1	176.5	222.4	256.9	282.1	298.4	311.4	321.6	391.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	13.5	16.4	16.3	29.6	30.2	37.7	48.4	60.7	72.1	81.9	106.3	122.3	131.6
Compressed Natural Gas ICE	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	0.7	0.8	0.7	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	66.0	67.1	115.9	139.9	165.2	215.0	271.7	318.4	355.1	381.1	418.6	444.8	524.4
Percent Alternative L.T. Sales	4.83	5.31	9.92	13.26	15.29	18.47	21.89	24.75	27.26	29.56	32.10	33.65	40.19
Total New Truck Sales	1364.9	1264.5	1168.7	1055.0	1080.0	1164.3	1241.0	1286.7	1302.5	1289.5	1304.2	1321.8	1304.9
Percent Total Alternative Sales	4.42	4.88	8.32	9.82	11.63	13.58	16.06	18.20	20.14	22.01	24.13	25.72	30.77
EPACT Legislative Alternative Sales	5.96	6.04	5.59	5.08	5.02	5.11	5.20	5.24	5.22	5.13	5.07	4.98	4.90
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	2615.3	2515.0	2416.2	2271.5	2296.3	2400.5	2509.7	2571.7	2571.4	2532.0	2515.8	2504.8	2466.4

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	873.2	865.6	852.1	843.8	848.5	859.9	868.1	867.5	873.9	876.2	878.3	881.0	882.8	-1.2%
TDI Diesel ICE	30.2	34.7	39.0	39.2	41.6	44.8	47.7	50.3	53.3	56.5	60.3	64.1	67.4	8.5%
Total Conventional	903.3	900.3	891.2	883.1	890.1	904.6	915.7	917.8	927.2	932.7	938.6	945.1	950.2	-1.0%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	132.6	125.3	141.6	145.1	146.0	138.5	132.2	136.8	133.6	133.8	133.5	132.3	134.3	7.6%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	--
Electric-Diesel Hybrid	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	117.9	130.9	139.8	141.4	143.4	146.1	148.5	150.2	152.6	154.5	156.6	158.8	161.0	7.0%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.3%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.3%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	251.5	257.1	282.4	287.5	290.4	285.6	281.8	288.1	287.3	289.4	291.2	292.3	296.6	7.2%
Percent Alternative Car Sales	21.78	22.22	24.06	24.56	24.60	24.00	23.53	23.89	23.66	23.68	23.68	23.62	23.79	7.2%
Total New Car Sales	1154.8	1157.5	1173.6	1170.5	1180.5	1190.3	1197.5	1205.9	1214.5	1222.2	1229.8	1237.4	1246.8	0.0%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	619.9	605.3	552.8	547.7	541.0	548.0	554.2	544.0	545.9	542.7	537.0	532.4	527.4	-3.2%
TDI Diesel ICE	135.4	161.6	174.0	173.1	180.7	195.3	208.4	215.1	226.9	238.1	250.8	263.4	272.1	7.2%
Total Conventional	755.3	766.9	726.8	720.8	721.7	743.3	762.7	759.1	772.8	780.8	787.8	795.7	799.5	-1.7%

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	377.9	326.1	323.5	339.1	332.5	305.5	286.6	292.3	280.7	276.9	270.6	262.7	263.0	7.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.7%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	145.7	164.3	175.5	181.4	181.2	183.1	185.5	185.3	187.3	188.7	189.4	190.3	191.5	10.8%
Compressed Natural Gas ICE	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.7%
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-1.7%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.5%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.3%
Total Alternatives	524.5	491.3	499.9	521.4	514.6	489.4	472.9	478.4	469.0	466.6	461.0	454.0	455.4	8.3%
Percent Alternative L.T. Sales	40.98	39.05	40.75	41.97	41.62	39.70	38.28	38.66	37.77	37.41	36.91	36.33	36.29	8.3%
Total New Truck Sales	1279.9	1258.2	1226.7	1242.2	1236.3	1232.7	1235.6	1237.5	1241.7	1247.4	1248.8	1249.7	1254.9	0.0%
Percent Total Alternative Sales	31.87	30.98	32.59	33.52	33.31	31.99	31.02	31.37	30.79	30.61	30.35	30.01	30.06	7.9%
EPACT Legislative Alternative Sales	4.84	4.81	4.80	4.81	4.82	4.84	4.86	4.88	4.90	4.93	4.94	4.96	4.99	-0.8%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	2434.7	2415.7	2400.3	2412.7	2416.8	2423.0	2433.1	2443.4	2456.3	2469.5	2478.6	2487.1	2501.7	0.0%

Table 40. Light-Duty Vehicle Sales by Technology Type (thousands)
East North Central - 03

- 1/ Includes personal and fleet light-duty cars.
- 2/ Includes personal and fleet light-duty trucks.
- ICE = Internal combustion engine.
- EPACT = Energy Policy Act of 1992.
- ZEVP = Zero emission vehicles from the low emission vehicle program.
- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	458.6	466.3	460.3	455.1	452.0	461.4	469.9	471.4	461.4	446.5	419.3	404.9	389.2
TDI Diesel ICE	3.2	3.4	4.9	5.5	6.5	6.3	7.2	8.6	9.5	10.2	10.4	11.1	12.2
Total Conventional	461.8	469.7	465.2	460.6	458.4	467.7	477.1	480.0	470.9	456.7	429.6	415.9	401.3
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	8.3	9.2	16.8	17.2	22.2	24.8	29.2	33.1	35.8	38.8	52.8	53.5	56.8
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.1	0.2	0.1
Electric-Gasoline Hybrid	10.5	12.3	16.9	16.2	19.4	20.9	25.5	29.8	32.9	36.0	38.7	41.7	45.8
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	19.1	21.8	34.0	33.7	41.9	46.1	55.0	63.2	69.2	75.3	91.9	95.7	103.0
Percent Alternative Car Sales	3.97	4.43	6.81	6.82	8.37	8.97	10.34	11.64	12.81	14.16	17.63	18.71	20.43
Total New Car Sales	480.9	491.4	499.2	494.3	500.3	513.8	532.2	543.2	540.1	532.0	521.6	511.6	504.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	480.3	452.6	402.2	351.7	349.8	366.9	373.0	370.1	360.4	343.0	303.0	299.8	281.8
TDI Diesel ICE	19.2	17.9	18.8	19.8	26.7	27.9	33.8	39.5	43.1	46.4	43.5	49.1	54.4
Total Conventional	499.5	470.4	421.0	371.5	376.5	394.8	406.8	409.6	403.6	389.4	346.5	348.9	336.2

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	19.7	19.6	39.7	44.9	54.9	73.2	93.1	108.4	119.8	127.5	171.1	171.9	173.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	5.2	6.4	6.5	12.0	12.4	15.6	20.3	25.6	30.6	35.0	43.5	50.5	56.6
Compressed Natural Gas ICE	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	25.3	26.5	46.6	57.2	67.7	89.2	113.7	134.3	150.8	162.8	214.9	222.8	230.4
Percent Alternative L.T. Sales	4.83	5.33	9.97	13.34	15.24	18.43	21.85	24.69	27.20	29.48	38.28	38.97	40.67
Total New Truck Sales	524.9	496.9	467.7	428.7	444.2	484.0	520.5	543.9	554.4	552.2	561.4	571.7	566.6
Percent Total Alternative Sales	4.42	4.88	8.34	9.85	11.60	13.56	16.03	18.17	20.10	21.96	28.34	29.40	31.14
EPACT Legislative Alternative Sales	2.29	2.37	2.24	2.06	2.07	2.12	2.18	2.21	2.22	2.20	2.18	2.15	2.13
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1005.7	988.3	966.8	923.0	944.5	997.8	1052.7	1087.1	1094.5	1084.2	1083.0	1083.4	1070.9

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	378.9	377.1	371.7	370.8	373.9	379.0	383.5	383.9	387.6	389.4	391.0	392.8	394.2	-0.7%
TDI Diesel ICE	13.7	15.8	17.8	18.0	19.2	20.6	22.0	23.3	24.7	26.3	28.1	29.9	31.5	9.7%
Total Conventional	392.5	392.9	389.5	388.9	393.0	399.6	405.5	407.2	412.4	415.6	419.1	422.7	425.7	-0.4%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	59.1	55.8	63.9	63.6	64.2	62.0	59.3	61.6	60.2	60.4	60.4	60.0	61.0	8.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	51.2	57.0	61.0	62.1	63.1	64.4	65.6	66.5	67.7	68.7	69.7	70.8	71.9	7.6%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2%
Compressed Natural Gas Bi-fuel	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	110.7	113.3	125.3	126.1	127.8	126.9	125.4	128.6	128.4	129.6	130.6	131.4	133.5	7.8%
Percent Alternative Car Sales	22.00	22.38	24.34	24.49	24.53	24.10	23.62	24.00	23.74	23.77	23.76	23.71	23.87	7.3%
Total New Car Sales	503.3	506.2	514.8	515.0	520.8	526.4	530.9	535.8	540.8	545.2	549.7	554.0	559.2	0.5%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	266.0	261.0	238.0	239.5	237.2	239.3	242.5	238.4	239.8	238.8	236.7	234.9	233.0	-2.7%
TDI Diesel ICE	60.8	73.0	78.3	79.5	83.2	89.4	95.6	98.8	104.4	109.7	115.8	121.7	126.0	8.5%
Total Conventional	326.8	334.0	316.4	319.1	320.4	328.7	338.1	337.2	344.2	348.5	352.4	356.6	359.0	-1.1%

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	167.7	144.7	145.3	147.7	145.1	135.9	127.8	130.7	125.6	124.1	121.4	118.2	118.4	7.8%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	62.9	71.2	76.1	79.4	79.5	80.3	81.5	81.6	82.7	83.4	83.9	84.4	85.0	11.4%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-1.1%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.2%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.2%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0%
Total Alternatives	231.0	216.2	221.8	227.5	225.0	216.6	209.7	212.7	208.7	208.0	205.7	203.0	203.8	8.9%
Percent Alternative L.T. Sales	41.41	39.30	41.21	41.62	41.26	39.72	38.28	38.68	37.74	37.37	36.86	36.27	36.22	8.3%
Total New Truck Sales	557.8	550.2	538.2	546.5	545.4	545.2	547.8	549.9	552.9	556.5	558.2	559.6	562.8	0.5%
Percent Total Alternative Sales	32.20	31.19	32.96	33.31	33.09	32.04	31.07	31.43	30.82	30.64	30.36	30.02	30.06	7.9%
EPACT Legislative Alternative Sales	2.11	2.10	2.10	2.12	2.13	2.14	2.15	2.17	2.18	2.20	2.21	2.22	2.24	-0.2%
Z EVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	1061.0	1056.4	1053.0	1061.5	1066.2	1071.7	1078.7	1085.6	1093.6	1101.7	1107.8	1113.6	1122.0	0.5%

Table 41. Light-Duty Vehicle Sales by Technology Type (thousands)
West North Central - 04

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1499.9	1498.5	1460.6	1424.3	1414.9	1435.2	1461.5	1468.5	1439.5	1396.6	1348.8	1304.6	1267.6
TDI Diesel ICE	9.4	11.4	16.3	18.1	18.7	19.2	20.4	24.2	27.0	28.9	30.7	32.9	35.8
Total Conventional	1509.3	1509.8	1476.9	1442.4	1433.6	1454.4	1481.9	1492.7	1466.5	1425.4	1379.5	1337.6	1303.4
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	27.1	29.5	53.3	60.7	69.4	79.0	92.9	103.3	111.7	121.6	129.7	137.1	142.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.5	0.5	0.4	0.5	0.4
Electric-Gasoline Hybrid	34.0	39.4	53.4	50.6	60.2	65.0	78.3	91.5	101.3	111.1	121.8	131.7	145.8
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	61.9	69.8	107.6	112.1	130.4	145.0	172.2	195.8	214.4	234.1	252.8	270.2	290.1
Percent Alternative Car Sales	3.94	4.42	6.79	7.21	8.34	9.07	10.41	11.60	12.76	14.11	15.49	16.81	18.20
Total New Car Sales	1571.2	1579.6	1584.5	1554.5	1564.0	1599.4	1654.1	1688.5	1680.9	1659.6	1632.2	1607.8	1593.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1576.5	1451.3	1273.2	1079.7	1100.4	1138.1	1162.6	1160.7	1132.8	1081.1	1051.7	1034.0	991.0
TDI Diesel ICE	55.7	61.2	63.9	65.4	75.7	84.5	92.3	109.1	119.8	129.5	138.4	154.8	172.3
Total Conventional	1632.2	1512.5	1337.1	1145.0	1176.2	1222.6	1254.9	1269.8	1252.6	1210.6	1190.1	1188.8	1163.3

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	64.8	62.7	125.6	165.1	172.9	234.4	299.8	341.1	377.2	402.5	423.8	441.9	438.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	16.7	20.5	20.5	36.9	38.4	48.4	62.1	78.6	94.4	108.2	141.8	164.7	186.9
Compressed Natural Gas ICE	0.4	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Compressed Natural Gas Bi-fuel	0.9	1.0	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	82.9	84.7	147.4	203.1	212.5	283.9	363.1	420.8	472.8	511.9	566.8	607.8	626.9
Percent Alternative L.T. Sales	4.83	5.30	9.93	15.06	15.30	18.84	22.44	24.89	27.40	29.72	32.26	33.83	35.02
Total New Truck Sales	1715.1	1597.2	1484.5	1348.1	1388.7	1506.5	1617.9	1690.6	1725.4	1722.5	1757.0	1796.6	1790.2
Percent Total Alternative Sales	4.40	4.86	8.31	10.86	11.61	13.81	16.36	18.25	20.18	22.06	24.18	25.79	27.10
EPACT Legislative Alternative Sales	7.49	7.63	7.10	6.49	6.46	6.61	6.79	6.88	6.91	6.85	6.83	6.77	6.72
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	3286.2	3176.9	3069.0	2902.7	2952.7	3105.9	3272.0	3379.2	3406.4	3382.0	3389.2	3404.3	3383.7

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1244.1	1234.3	1240.0	1218.2	1246.3	1284.8	1302.5	1319.9	1338.7	1355.5	1371.6	1387.9	1406.4	-0.3%
TDI Diesel ICE	40.7	46.8	53.9	53.5	57.8	63.5	67.8	72.5	77.3	82.7	89.0	95.4	101.5	9.5%
Total Conventional	1284.8	1281.1	1294.0	1271.7	1304.1	1348.3	1370.3	1392.4	1416.0	1438.2	1460.6	1483.3	1507.9	0.0%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	149.2	153.3	163.5	195.8	188.7	168.8	170.0	172.9	175.0	177.4	179.6	181.7	184.6	7.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Plug-in Gasoline Hybrid	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	--
Electric-Diesel Hybrid	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	--
Electric-Gasoline Hybrid	164.2	183.3	198.9	201.0	206.8	213.9	218.7	224.0	229.4	234.6	240.0	245.6	251.7	8.0%
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6%
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	314.7	337.9	363.8	398.3	396.9	384.1	390.3	398.5	406.0	413.6	421.3	429.1	438.2	8.0%
Percent Alternative Car Sales	19.68	20.87	21.94	23.85	23.33	22.17	22.17	22.25	22.28	22.34	22.39	22.44	22.52	7.0%
Total New Car Sales	1599.5	1619.0	1657.7	1670.0	1701.0	1732.4	1760.5	1790.9	1822.0	1851.8	1882.0	1912.4	1946.1	0.9%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	944.2	902.1	853.7	811.3	826.1	861.6	865.9	866.2	870.1	872.9	870.8	869.0	871.8	-2.1%
TDI Diesel ICE	194.7	225.1	254.0	238.6	258.5	289.7	305.2	322.4	339.1	358.8	381.0	402.0	421.0	8.4%
Total Conventional	1138.9	1127.3	1107.8	1049.8	1084.7	1151.3	1171.1	1188.6	1209.2	1231.7	1251.7	1271.0	1292.7	-0.7%

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	423.2	396.8	367.1	460.3	429.4	367.2	365.8	365.7	365.3	365.1	362.3	359.6	359.8	7.6%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	209.4	234.6	256.8	260.8	266.0	274.4	278.3	282.3	286.9	291.8	295.6	299.4	304.7	11.9%
Compressed Natural Gas ICE	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.8%
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	-0.8%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	-1.6%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7%
Total Alternatives	633.8	632.7	625.1	722.3	696.7	642.9	645.4	649.3	653.6	658.3	659.3	660.5	666.0	9.0%
Percent Alternative L.T. Sales	35.75	35.95	36.07	40.76	39.11	35.83	35.53	35.33	35.09	34.83	34.50	34.19	34.00	8.0%
Total New Truck Sales	1772.8	1759.9	1732.9	1772.2	1781.4	1794.2	1816.5	1837.9	1862.8	1890.0	1911.1	1931.5	1958.8	0.9%
Percent Total Alternative Sales	28.13	28.72	29.16	32.55	31.40	29.12	28.95	28.87	28.76	28.65	28.49	28.34	28.28	7.6%
EPACT Legislative Alternative Sales	6.70	6.72	6.78	6.86	6.95	7.04	7.14	7.24	7.35	7.46	7.57	7.67	7.79	0.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	3372.3	3379.0	3390.6	3442.1	3482.4	3526.6	3577.1	3628.8	3684.8	3741.8	3793.1	3843.9	3904.9	0.9%

Table 42. Light-Duty Vehicle Sales by Technology Type (thousands)
South Atlantic - 05

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	383.9	390.6	386.0	382.1	380.8	388.7	397.4	399.5	391.8	379.9	366.3	353.4	342.0
TDI Diesel ICE	2.6	3.0	4.3	4.9	5.0	5.2	5.5	6.5	7.2	7.8	8.2	8.8	9.8
Total Conventional	386.4	393.5	390.4	387.0	385.8	393.9	402.8	406.0	399.0	387.6	374.5	362.2	351.8
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	6.9	7.7	14.1	14.4	18.7	20.9	24.7	28.1	30.4	33.1	35.2	37.1	38.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Electric-Gasoline Hybrid	8.7	10.3	14.1	13.5	16.2	17.6	21.3	24.9	27.5	30.2	33.1	35.7	39.3
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	15.9	18.2	28.4	28.2	35.1	38.8	46.2	53.2	58.3	63.7	68.6	73.2	78.2
Percent Alternative Car Sales	3.94	4.41	6.78	6.79	8.34	8.96	10.29	11.59	12.76	14.11	15.49	16.81	18.19
Total New Car Sales	402.3	411.7	418.8	415.2	420.9	432.7	449.0	459.2	457.4	451.3	443.1	435.4	430.1
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	402.6	378.2	336.5	294.3	296.5	309.6	317.9	316.3	308.7	294.4	286.0	280.5	267.4
TDI Diesel ICE	15.3	16.0	16.9	18.0	19.9	22.7	24.6	29.0	31.9	34.5	36.9	41.2	46.7
Total Conventional	417.9	394.2	353.4	312.3	316.5	332.3	342.5	345.3	340.6	329.0	322.9	321.7	314.1

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	16.5	16.3	33.2	37.5	46.6	61.8	79.5	92.8	102.8	109.7	115.3	119.9	118.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	4.3	5.3	5.4	10.0	10.3	13.1	16.9	21.4	25.7	29.4	38.5	44.6	50.4
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	21.2	22.1	39.0	47.8	57.3	75.2	96.7	114.5	128.8	139.4	154.1	164.9	169.1
Percent Alternative L.T. Sales	4.82	5.30	9.93	13.27	15.32	18.46	22.01	24.90	27.45	29.77	32.31	33.88	35.00
Total New Truck Sales	439.1	416.3	392.3	360.1	373.7	407.5	439.2	459.8	469.5	468.4	477.0	486.5	483.2
Percent Total Alternative Sales	4.40	4.86	8.30	9.80	11.62	13.57	16.09	18.25	20.20	22.08	24.21	25.82	27.08
EPACT Legislative Alternative Sales	1.92	1.99	1.88	1.73	1.74	1.79	1.84	1.87	1.88	1.86	1.85	1.83	1.81
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	841.4	828.0	811.1	775.3	794.6	840.2	888.2	919.0	926.8	919.6	920.1	922.0	913.2

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	334.2	330.0	329.8	320.3	326.1	331.2	335.3	336.7	340.2	342.2	344.0	346.0	347.7	-0.5%
TDI Diesel ICE	11.1	12.7	14.6	14.3	15.3	16.5	17.7	18.7	19.9	21.1	22.6	24.1	25.4	9.3%
Total Conventional	345.3	342.8	344.4	334.5	341.4	347.7	352.9	355.4	360.1	363.3	366.6	370.1	373.1	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	40.1	41.0	43.5	54.1	51.6	49.5	47.6	49.0	48.0	48.2	48.2	48.0	48.9	8.0%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Plug-in Gasoline Hybrid	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	44.1	49.0	52.9	53.0	54.2	55.4	56.5	57.4	58.5	59.4	60.4	61.4	62.4	7.8%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Compressed Natural Gas Bi-fuel	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	84.5	90.3	96.7	107.5	106.2	105.3	104.5	106.7	106.9	108.0	109.0	109.8	111.8	7.9%
Percent Alternative Car Sales	19.67	20.86	21.93	24.31	23.72	23.24	22.84	23.10	22.90	22.92	22.92	22.88	23.05	7.1%
Total New Car Sales	429.9	433.1	441.2	442.0	447.6	453.0	457.4	462.2	467.0	471.3	475.7	479.9	484.8	0.7%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	253.6	241.1	227.0	210.7	214.0	216.7	219.5	217.0	218.2	217.7	216.0	214.8	213.3	-2.4%
TDI Diesel ICE	52.7	60.6	68.0	61.9	67.0	72.2	77.1	80.3	84.8	89.2	94.3	99.2	102.8	8.1%
Total Conventional	306.2	301.7	295.0	272.6	281.0	288.9	296.6	297.3	303.0	306.9	310.4	314.0	316.1	-0.9%

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	113.6	106.0	97.6	127.8	118.0	109.7	103.7	105.1	101.4	100.4	98.4	95.8	96.4	7.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	56.2	62.7	68.3	68.3	69.4	70.2	71.3	71.6	72.6	73.4	73.9	74.5	75.1	11.7%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.9%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.0%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.3%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7%
Total Alternatives	170.2	169.0	166.2	196.4	187.7	180.3	175.3	177.0	174.4	174.1	172.6	170.7	171.9	8.9%
Percent Alternative L.T. Sales	35.72	35.91	36.03	41.87	40.05	38.42	37.15	37.33	36.53	36.19	35.74	35.21	35.22	8.2%
Total New Truck Sales	476.4	470.8	461.2	469.0	468.7	469.2	471.9	474.3	477.4	481.1	483.0	484.7	488.0	0.7%
Percent Total Alternative Sales	28.10	28.70	29.13	33.35	32.07	30.97	30.11	30.30	29.79	29.62	29.38	29.08	29.16	7.8%
EPACT Legislative Alternative Sales	1.80	1.80	1.80	1.82	1.83	1.84	1.86	1.87	1.88	1.90	1.91	1.92	1.94	-0.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	906.3	903.9	902.4	911.0	916.3	922.2	929.3	936.5	944.4	952.4	958.7	964.6	972.8	0.7%

Table 43. Light-Duty Vehicle Sales by Technology Type (thousands)
East South Central - 06

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	800.1	809.7	798.1	788.8	785.4	802.0	819.0	825.2	811.4	788.9	764.0	740.0	719.5
TDI Diesel ICE	5.1	6.1	8.7	9.8	10.2	10.6	11.2	13.3	14.8	15.9	17.0	18.3	19.9
Total Conventional	805.2	815.8	806.8	798.6	795.6	812.6	830.1	838.4	826.2	804.9	781.0	758.3	739.5
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	14.4	16.0	29.1	29.8	38.5	43.2	52.8	59.6	64.3	70.0	73.6	77.8	81.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.2	0.3	0.2
Electric-Gasoline Hybrid	18.1	21.2	29.0	27.8	33.3	36.1	43.7	51.2	56.8	62.5	68.7	74.4	82.4
Compressed Natural Gas ICE	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	32.9	37.6	58.6	58.1	72.3	79.9	97.0	111.3	121.9	133.2	143.0	153.0	164.3
Percent Alternative Car Sales	3.93	4.41	6.77	6.78	8.33	8.95	10.46	11.72	12.86	14.20	15.48	16.79	18.18
Total New Car Sales	838.1	853.4	865.4	856.7	867.9	892.5	927.1	949.8	948.2	938.1	924.0	911.3	903.8
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	840.5	784.9	696.4	608.4	611.6	639.3	650.9	649.9	637.0	609.5	596.8	587.9	564.1
TDI Diesel ICE	30.2	32.2	33.9	35.8	41.0	46.1	49.7	58.7	64.9	70.3	75.9	85.2	95.0
Total Conventional	870.7	817.1	730.3	644.2	652.6	685.4	700.6	708.7	701.8	679.9	672.7	673.1	659.0

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	34.5	33.9	68.7	77.6	96.1	127.6	171.0	197.8	217.9	232.3	241.2	251.4	249.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	8.8	11.0	11.1	20.5	21.2	27.0	34.6	43.9	52.9	60.7	80.0	93.0	105.7
Compressed Natural Gas ICE	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Liquefied Petroleum Gases ICE	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	44.2	45.8	80.6	98.7	118.0	155.2	206.2	242.3	271.4	293.8	321.9	345.2	356.3
Percent Alternative L.T. Sales	4.83	5.30	9.94	13.29	15.31	18.46	22.74	25.48	27.89	30.17	32.36	33.90	35.09
Total New Truck Sales	914.9	862.9	810.9	742.9	770.6	840.6	906.8	951.0	973.2	973.6	994.6	1018.3	1015.4
Percent Total Alternative Sales	4.40	4.86	8.30	9.80	11.61	13.56	16.53	18.61	20.47	22.34	24.23	25.82	27.13
EPACT Legislative Alternative Sales	3.99	4.12	3.88	3.58	3.58	3.69	3.80	3.87	3.90	3.87	3.87	3.83	3.81
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1753.0	1716.2	1676.3	1599.6	1638.5	1733.1	1833.9	1900.7	1921.4	1911.7	1918.7	1929.5	1919.2

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	695.4	701.6	692.6	708.2	704.9	720.5	734.5	742.0	754.8	764.3	773.7	783.7	793.1	-0.1%
TDI Diesel ICE	22.2	26.2	29.4	30.8	32.1	34.9	37.5	40.0	42.8	45.8	49.3	52.9	56.2	9.7%
Total Conventional	717.6	727.8	722.0	739.1	737.0	755.4	772.0	782.0	797.6	810.1	823.0	836.6	849.3	0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	97.4	87.2	107.5	93.8	112.3	108.4	104.6	109.0	107.7	109.0	109.8	109.9	112.6	8.5%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	--
Electric-Diesel Hybrid	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	92.0	103.8	111.5	115.4	116.8	120.2	123.3	126.1	129.3	132.2	135.3	138.5	141.8	8.2%
Compressed Natural Gas ICE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	190.2	191.7	219.8	210.0	229.9	229.4	228.8	236.0	237.9	242.1	246.1	249.4	255.5	8.3%
Percent Alternative Car Sales	20.95	20.85	23.34	22.13	23.77	23.29	22.86	23.18	22.98	23.01	23.02	22.97	23.13	7.2%
Total New Car Sales	907.8	919.5	941.8	949.1	966.9	984.8	1000.8	1018.0	1035.5	1052.2	1069.1	1086.0	1104.8	1.1%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	509.8	514.6	462.7	493.6	463.7	472.7	482.6	479.2	485.4	487.5	487.2	488.0	488.3	-2.0%
TDI Diesel ICE	100.3	124.6	131.4	144.1	140.4	152.6	164.2	171.8	182.8	193.6	206.2	218.6	228.0	8.5%
Total Conventional	610.1	639.2	594.1	637.7	604.1	625.2	646.8	650.9	668.2	681.1	693.4	706.5	716.4	-0.5%

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	280.0	226.6	248.0	215.7	258.1	241.5	229.1	235.5	228.9	228.4	225.5	221.2	223.7	8.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	115.3	133.0	141.7	153.0	149.6	152.4	155.9	157.5	160.8	163.6	165.9	168.3	171.1	12.1%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.6%
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	-0.6%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.9%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9%
Total Alternatives	396.0	360.3	390.4	369.5	408.4	394.7	385.8	393.8	390.5	392.8	392.2	390.4	395.6	9.4%
Percent Alternative L.T. Sales	39.36	36.05	39.66	36.68	40.34	38.70	37.36	37.69	36.89	36.58	36.13	35.59	35.58	8.3%
Total New Truck Sales	1006.1	999.5	984.5	1007.1	1012.5	1019.9	1032.6	1044.7	1058.7	1073.9	1085.6	1096.9	1112.0	1.1%
Percent Total Alternative Sales	30.63	28.76	31.68	29.62	32.25	31.13	30.22	30.53	30.01	29.86	29.62	29.31	29.37	7.8%
EPACT Legislative Alternative Sales	3.80	3.82	3.85	3.90	3.95	4.00	4.06	4.12	4.18	4.24	4.30	4.35	4.42	0.3%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	1913.9	1918.9	1926.3	1956.2	1979.4	2004.7	2033.5	2062.7	2094.2	2126.1	2154.7	2182.9	2216.8	1.1%

Table 44. Light-Duty Vehicle Sales by Technology Type (thousands)
West South Central - 07

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	431.8	446.6	447.8	447.5	453.9	469.1	485.3	493.4	489.2	479.3	466.9	455.0	444.6
TDI Diesel ICE	3.0	3.3	4.8	5.5	6.0	6.3	6.7	8.0	9.0	9.8	10.5	11.3	12.7
Total Conventional	434.7	449.8	452.6	452.9	459.8	475.4	492.0	501.5	498.2	489.0	477.3	466.3	457.3
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	7.8	8.8	16.4	18.9	22.3	25.2	30.1	34.6	38.0	41.7	44.9	47.8	50.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.1	0.2	0.1
Electric-Gasoline Hybrid	10.1	12.0	16.7	16.3	19.5	21.4	26.2	31.0	34.7	38.4	42.5	46.3	51.5
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	18.1	21.1	33.4	35.5	42.0	47.0	56.7	66.0	73.2	80.6	87.8	94.6	102.1
Percent Alternative Car Sales	4.01	4.47	6.87	7.26	8.37	9.00	10.33	11.63	12.81	14.16	15.54	16.86	18.25
Total New Car Sales	452.9	470.9	486.0	488.4	501.9	522.4	548.6	567.5	571.4	569.7	565.1	560.9	559.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	452.2	433.2	391.1	340.4	353.3	373.6	388.3	390.6	385.5	371.6	364.6	361.1	347.5
TDI Diesel ICE	18.1	17.4	18.7	19.5	23.9	27.5	30.1	35.8	39.8	43.4	46.8	52.8	60.6
Total Conventional	470.4	450.7	409.8	359.9	377.2	401.1	418.3	426.5	425.3	415.0	411.4	413.9	408.1

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
 Mountain - 08

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	18.6	18.7	38.6	51.4	55.5	74.6	97.1	114.6	128.4	138.4	147.0	154.5	153.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	5.0	6.3	6.5	11.9	12.5	16.0	20.8	26.7	32.4	37.5	49.5	57.9	66.1
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	24.0	25.5	45.5	63.6	68.4	91.0	118.3	141.7	161.2	176.3	196.9	212.8	220.4
Percent Alternative L.T. Sales	4.85	5.35	9.99	15.03	15.34	18.49	22.05	24.94	27.49	29.82	32.37	33.95	35.07
Total New Truck Sales	494.3	476.1	455.3	423.5	445.6	492.1	536.6	568.2	586.5	591.3	608.3	626.7	628.5
Percent Total Alternative Sales	4.45	4.91	8.38	10.87	11.65	13.60	16.13	18.29	20.24	22.13	24.26	25.88	27.15
EPACT Legislative Alternative Sales	2.16	2.27	2.18	2.04	2.07	2.16	2.25	2.31	2.35	2.35	2.36	2.36	2.36
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	947.2	947.0	941.3	911.9	947.4	1014.5	1085.3	1135.6	1157.8	1160.9	1173.5	1187.6	1187.9

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	438.9	437.7	441.7	437.1	449.5	463.9	472.8	482.0	491.0	499.8	508.5	516.9	526.8	0.7%
TDI Diesel ICE	14.6	16.8	19.5	19.1	20.7	23.0	23.0	22.9	24.4	24.5	26.1	27.9	27.8	9.3%
Total Conventional	453.4	454.5	461.2	456.2	470.2	486.9	495.8	504.9	515.4	524.3	534.6	544.8	554.6	0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	52.6	54.3	58.2	69.4	66.8	60.9	61.7	63.2	64.3	65.5	66.7	67.8	69.3	9.0%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	--
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	58.3	65.4	71.3	72.3	74.7	77.6	80.6	83.7	86.0	89.3	91.6	94.1	97.8	9.1%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.5%
Compressed Natural Gas Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total Alternatives	111.4	120.2	130.0	142.2	142.1	139.1	142.8	147.5	150.9	155.4	159.0	162.5	167.9	9.0%
Percent Alternative Car Sales	19.72	20.92	21.99	23.77	23.21	22.21	22.37	22.61	22.64	22.86	22.92	22.98	23.24	7.1%
Total New Car Sales	564.8	574.7	591.2	598.4	612.3	626.0	638.7	652.4	666.2	679.8	693.5	707.3	722.4	1.8%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	333.0	319.8	304.0	292.8	300.2	311.7	317.9	323.6	326.9	333.1	335.7	337.7	344.3	-1.0%
TDI Diesel ICE	68.8	79.9	90.8	84.0	91.4	103.5	102.7	101.3	106.6	106.5	111.6	117.5	116.2	8.2%
Total Conventional	401.8	399.8	394.8	376.8	391.7	415.2	420.6	424.9	433.6	439.6	447.4	455.2	460.5	0.1%

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	149.3	140.7	130.7	163.6	152.5	132.9	134.8	137.6	138.3	140.9	141.5	141.7	144.8	8.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric-Gasoline Hybrid	74.4	83.8	92.1	94.1	96.6	99.7	103.0	106.5	108.7	112.8	114.8	116.9	121.3	13.1%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2%
Compressed Natural Gas Bi-fuel	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.2%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.5%
Total Alternatives	224.1	224.9	223.3	258.2	249.5	233.1	238.3	244.6	247.6	254.2	256.9	259.2	266.6	10.3%
Percent Alternative L.T. Sales	35.81	36.00	36.13	40.66	38.92	35.95	36.17	36.54	36.35	36.64	36.48	36.28	36.67	8.3%
Total New Truck Sales	626.0	624.7	618.0	635.1	641.2	648.3	659.0	669.5	681.2	693.8	704.2	714.4	727.1	1.8%
Percent Total Alternative Sales	28.18	28.78	29.22	32.47	31.24	29.20	29.38	29.66	29.57	29.82	29.75	29.66	29.97	7.8%
EPACT Legislative Alternative Sales	2.37	2.39	2.42	2.46	2.50	2.54	2.59	2.64	2.69	2.74	2.79	2.84	2.89	1.0%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Vehicles Sales	1190.8	1199.4	1209.2	1233.5	1253.4	1274.3	1297.6	1321.8	1347.4	1373.6	1397.7	1421.7	1449.6	1.8%

Table 45. Light-Duty Vehicle Sales by Technology Type (thousands)
Mountain - 08

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1213.8	1220.8	1194.9	1169.7	1168.3	1187.4	1203.0	1207.1	1181.6	1120.9	1082.1	1047.2	1027.5
TDI Diesel ICE	8.8	10.0	14.5	16.3	15.8	17.3	22.4	24.2	25.4	27.1	28.7	29.5	33.7
Total Conventional	1222.6	1230.9	1209.4	1186.0	1184.2	1204.6	1225.4	1231.3	1207.0	1148.0	1110.8	1076.7	1061.2
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	22.0	24.1	43.7	49.2	57.3	63.9	74.5	84.6	91.6	123.2	125.2	127.9	115.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.5	0.4	0.3	0.4	0.4
Electric-Gasoline Hybrid	29.1	33.2	45.2	43.1	50.1	54.8	68.2	79.5	87.8	94.9	103.7	111.6	124.2
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	1.1	1.3	1.2
Total Alternatives	51.7	58.0	89.6	93.0	108.1	119.6	143.6	165.0	181.1	219.6	231.1	241.9	242.0
Percent Alternative Car Sales	4.06	4.50	6.90	7.27	8.37	9.03	10.49	11.82	13.04	16.06	17.22	18.35	18.57
Total New Car Sales	1274.3	1288.8	1299.0	1279.0	1292.3	1324.2	1369.0	1396.3	1388.1	1367.6	1341.9	1318.6	1303.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1268.4	1178.4	1037.3	883.6	906.7	939.1	939.3	938.8	920.5	808.8	796.1	791.1	791.3
TDI Diesel ICE	54.8	55.3	58.7	60.9	65.0	78.8	111.0	115.1	115.8	115.7	124.4	133.7	164.1
Total Conventional	1323.2	1233.7	1096.1	944.5	971.7	1017.8	1050.3	1053.9	1036.3	924.5	920.6	924.8	955.4
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	52.2	50.9	102.4	132.2	142.5	187.3	233.6	274.4	305.7	404.4	405.0	410.8	349.0
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	14.3	17.3	17.4	31.5	32.0	40.9	53.8	68.1	81.6	89.3	117.3	136.4	158.1
Compressed Natural Gas ICE	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.7	0.2	0.2	0.5	0.4	0.4
Total Alternatives	67.8	69.5	121.0	164.7	175.7	229.4	288.7	344.2	388.5	494.9	523.9	548.6	508.6
Percent Alternative L.T. Sales	4.87	5.33	9.94	14.84	15.31	18.40	21.56	24.62	27.26	34.87	36.27	37.23	34.74
Total New Truck Sales	1390.9	1303.2	1217.0	1109.2	1147.4	1247.3	1339.0	1398.0	1424.8	1419.5	1444.4	1473.4	1464.0
Percent Total Alternative Sales	4.48	4.92	8.37	10.79	11.63	13.57	15.97	18.22	20.25	25.64	27.10	28.31	27.12
EPACT Legislative Alternative Sales	6.07	6.22	5.82	5.34	5.33	5.47	5.62	5.69	5.71	5.64	5.61	5.55	5.49
Z EVP Legislative Alternative Sales	38.05	38.16	36.59	34.95	43.94	47.46	51.68	75.85	78.45	77.26	145.59	143.44	139.76
Total Vehicles Sales	2665.2	2592.0	2516.0	2388.2	2439.7	2571.5	2708.0	2794.4	2812.9	2787.1	2786.3	2792.1	2767.2

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1004.1	984.8	979.8	970.3	996.0	1016.7	1037.9	1051.9	1070.2	1084.5	1100.0	1115.6	1132.7	-0.3%
TDI Diesel ICE	37.3	40.4	45.2	44.4	48.0	51.0	51.0	50.7	53.7	57.1	61.0	64.9	65.7	8.1%
Total Conventional	1041.4	1025.1	1025.0	1014.7	1044.0	1067.8	1088.8	1102.6	1124.0	1141.7	1161.0	1180.5	1198.4	-0.1%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	120.1	135.1	152.3	167.9	156.9	151.7	145.2	149.3	147.5	148.6	148.6	148.4	150.1	7.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Plug-in Gasoline Hybrid	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	--
Electric-Diesel Hybrid	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	139.3	153.5	165.3	167.5	172.5	177.2	183.7	189.9	194.8	199.2	203.8	208.6	216.1	8.1%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5%
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	2.7	2.7	2.6	2.7	2.6	2.6	2.9	2.8	2.8	2.9	2.9	2.9	3.0	83.3%
Total Alternatives	263.2	292.4	321.3	339.2	333.1	332.7	333.1	343.3	346.4	352.1	356.7	361.4	370.7	8.0%
Percent Alternative Car Sales	20.17	22.19	23.87	25.06	24.19	23.76	23.43	23.74	23.56	23.57	23.50	23.44	23.63	7.2%
Total New Car Sales	1304.5	1317.5	1346.3	1354.0	1377.1	1400.5	1422.0	1445.9	1470.4	1493.8	1517.7	1541.9	1569.1	0.8%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	752.1	698.6	647.9	633.3	653.2	665.0	688.1	694.4	705.1	710.6	714.9	719.3	729.3	-2.0%
TDI Diesel ICE	179.2	187.6	201.7	190.7	209.0	223.2	224.3	220.3	232.1	244.4	258.2	271.6	273.4	6.9%
Total Conventional	931.3	886.2	849.6	824.0	862.2	888.2	912.4	914.7	937.2	955.0	973.1	990.9	1002.7	-0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	336.1	350.4	346.5	395.7	357.2	335.5	319.3	327.3	318.9	317.6	312.1	306.1	307.9	7.8%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	--

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric-Diesel Hybrid	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	176.5	193.8	209.4	215.3	220.9	224.8	233.5	239.7	245.0	249.7	253.6	257.8	266.2	12.1%
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.8%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	-0.9%
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-2.0%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.8	0.7	0.7	0.8	0.8	0.8	1.0	1.0	1.1	1.2	1.2	1.2	1.3	23.8%
Total Alternatives	514.5	546.0	557.7	612.8	580.0	562.2	554.8	569.1	566.1	569.6	568.1	566.4	576.6	9.2%
Percent Alternative L.T. Sales	35.58	38.12	39.63	42.65	40.22	38.76	37.81	38.36	37.66	37.36	36.86	36.37	36.51	8.3%
Total New Truck Sales	1445.8	1432.2	1407.3	1436.8	1442.2	1450.4	1467.2	1483.9	1503.3	1524.6	1541.2	1557.3	1579.3	0.8%
Percent Total Alternative Sales	28.27	30.49	31.92	34.11	32.39	31.39	30.73	31.14	30.69	30.54	30.23	29.94	30.09	7.8%
EPACT Legislative Alternative Sales	5.46	5.47	5.50	5.56	5.63	5.69	5.77	5.85	5.93	6.02	6.10	6.18	6.28	0.0%
Z EVP Legislative Alternative Sales	211.13	209.64	207.84	219.46	218.08	216.59	241.80	240.91	243.74	256.70	259.31	261.88	266.39	8.4%
Total Vehicles Sales	2750.4	2749.7	2753.6	2790.8	2819.3	2850.9	2889.1	2929.8	2973.6	3018.3	3058.9	3099.1	3148.4	0.8%

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	7343.5	7391.4	7242.8	7109.3	7069.3	7192.0	7314.6	7340.2	7186.3	6931.9	6672.2	6444.3	6225.9
TDI Diesel ICE	49.1	57.8	83.4	93.5	94.2	96.1	109.6	127.0	139.4	148.9	157.4	167.1	182.6
Total Conventional	7392.6	7449.3	7326.2	7202.8	7163.5	7288.2	7424.2	7467.1	7325.8	7080.8	6829.6	6611.4	6408.5
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	132.7	145.7	264.6	282.6	346.7	388.9	458.0	517.0	558.9	635.5	679.4	705.7	745.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.3	0.9	0.8
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	2.7	2.4	2.0	2.4	2.1
Electric-Gasoline Hybrid	169.6	197.0	268.5	256.3	302.8	327.5	398.5	464.8	513.7	561.0	612.6	660.5	727.7
Compressed Natural Gas ICE	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3
Compressed Natural Gas Bi-fuel	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.5	2.5	2.4	2.4	2.3
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	2.0	2.2	2.2
Total Alternatives	306.3	346.9	537.2	543.1	653.7	721.3	861.5	987.1	1080.6	1204.1	1300.5	1375.7	1481.9
Percent Alternative Car Sales	3.98	4.45	6.83	7.01	8.36	9.01	10.40	11.68	12.86	14.53	16.00	17.22	18.78
Total New Car Sales	7698.9	7796.1	7863.4	7745.9	7817.3	8009.5	8285.7	8454.3	8406.4	8284.9	8130.1	7987.0	7890.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	7700.1	7150.2	6304.5	5430.0	5494.7	5720.0	5804.8	5777.3	5637.9	5289.4	5121.1	5045.9	4783.2
TDI Diesel ICE	296.7	313.6	330.8	346.4	383.0	424.5	510.3	580.2	624.3	661.7	700.6	777.8	864.5
Total Conventional	7996.8	7463.8	6635.3	5776.4	5877.7	6144.5	6315.1	6357.5	6262.2	5951.1	5821.8	5823.7	5647.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	316.6	308.9	622.1	747.3	863.7	1149.1	1467.1	1701.0	1881.9	2099.2	2214.9	2273.2	2284.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4
Electric-Gasoline Hybrid	83.3	102.4	103.1	187.9	193.4	244.3	315.9	399.2	478.4	542.3	707.6	821.0	925.0
Compressed Natural Gas ICE	2.1	2.4	2.0	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Compressed Natural Gas Bi-fuel	4.3	4.9	4.2	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7
Liquefied Petroleum Gases ICE	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Liquefied Petroleum Gases Bi-fuel	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.4	0.4	0.5	1.2	0.3	0.3	0.9	0.8	0.7
Total Alternatives	407.0	419.2	732.1	941.0	1063.1	1399.6	1789.3	2107.2	2366.6	2647.9	2929.5	3101.0	3216.6
Percent Alternative L.T. Sales	4.84	5.32	9.94	14.01	15.32	18.55	22.08	24.89	27.43	30.79	33.48	34.75	36.29
Total New Truck Sales	8403.8	7883.0	7367.4	6717.4	6940.8	7544.1	8104.4	8464.7	8628.8	8599.0	8751.3	8924.7	8864.3
Percent Total Alternative Sales	4.43	4.89	8.33	10.26	11.63	13.64	16.17	18.29	20.24	22.81	25.06	26.47	28.04
EPACT Legislative Alternative Sales	36.69	37.64	35.25	32.33	32.27	33.11	33.99	34.45	34.56	34.18	34.01	33.61	33.25
Z EVP Legislative Alternative Sales	60.18	60.53	58.19	56.61	73.14	80.89	90.02	134.85	140.41	138.21	260.10	255.91	249.28
Total Vehicles Sales	16102.7	15679.1	15230.8	14463.2	14758.1	15553.6	16390.1	16919.0	17035.2	16883.9	16881.4	16911.8	16754.6

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	6072.9	6019.6	5976.4	5925.3	6014.5	6138.6	6226.4	6281.4	6359.7	6418.2	6475.9	6535.4	6598.7	-0.5%
TDI Diesel ICE	205.1	233.8	264.5	265.0	284.3	307.5	323.2	338.3	359.3	381.1	408.1	435.4	456.5	9.0%
Total Conventional	6278.0	6253.4	6240.9	6190.2	6298.8	6446.0	6549.6	6619.7	6719.0	6799.3	6883.9	6970.8	7055.2	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	788.8	789.9	894.5	960.5	949.8	895.6	870.0	890.4	884.3	891.2	895.3	896.6	910.4	7.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%
Plug-in Gasoline Hybrid	0.8	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.6	3.1	--
Electric-Diesel Hybrid	1.9	1.7	1.7	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	--
Electric-Gasoline Hybrid	815.1	906.9	975.6	989.7	1012.0	1038.6	1063.7	1087.3	1110.4	1132.6	1154.8	1177.7	1205.7	7.8%
Compressed Natural Gas ICE	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	0.4%
Compressed Natural Gas Bi-fuel	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.7	0.4%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Liquefied Petroleum Gases Bi-fuel	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	4.8	4.7	4.7	4.9	4.7	4.6	5.3	5.1	5.1	5.3	5.3	5.3	5.3	84.3%
Total Alternatives	1615.3	1708.0	1881.4	1961.8	1973.3	1946.0	1946.2	1990.2	2007.5	2037.1	2063.6	2088.3	2130.6	7.9%
Percent Alternative Car Sales	20.46	21.45	23.16	24.06	23.86	23.19	22.91	23.12	23.00	23.05	23.06	23.05	23.19	7.1%
Total New Car Sales	7893.3	7961.4	8122.3	8152.0	8272.2	8392.0	8495.9	8609.9	8726.5	8836.3	8947.5	9059.1	9185.9	0.7%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	4511.3	4337.3	4001.9	3932.9	3942.2	4028.0	4090.2	4078.9	4105.6	4112.6	4099.2	4089.5	4094.5	-2.3%
TDI Diesel ICE	959.4	1106.3	1202.5	1176.6	1253.7	1365.3	1432.1	1476.4	1554.7	1632.2	1725.6	1815.8	1876.2	7.7%
Total Conventional	5470.7	5443.6	5204.5	5109.5	5195.9	5393.3	5522.3	5555.2	5660.3	5744.8	5824.8	5905.3	5970.6	-0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	2241.0	2049.8	2035.7	2251.7	2163.7	1971.2	1889.6	1909.4	1868.9	1859.6	1832.0	1799.7	1805.4	7.6%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-1.0%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	--

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric-Diesel Hybrid	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--
Electric-Gasoline Hybrid	1028.8	1153.4	1242.9	1282.2	1295.4	1319.0	1345.9	1362.9	1384.3	1405.4	1420.1	1435.4	1460.2	11.7%
Compressed Natural Gas ICE	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	-1.0%
Compressed Natural Gas Bi-fuel	3.6	3.6	3.5	3.6	3.6	3.6	3.7	3.7	3.7	3.8	3.8	3.8	3.9	-1.0%
Liquefied Petroleum Gases ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-2.1%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	1.5	1.3	1.3	1.4	1.4	1.4	1.7	1.8	1.9	2.1	2.2	2.2	2.3	24.5%
Total Alternatives	3277.5	3210.6	3286.0	3541.5	3466.9	3298.1	3243.8	3280.7	3261.7	3273.7	3261.0	3244.2	3274.9	8.9%
Percent Alternative L.T. Sales	37.47	37.10	38.70	40.94	40.02	37.95	37.00	37.13	36.56	36.30	35.89	35.46	35.42	8.2%
Total New Truck Sales	8748.2	8654.2	8490.5	8651.0	8662.9	8691.4	8766.0	8835.9	8922.0	9018.6	9085.8	9149.5	9245.5	0.7%
Percent Total Alternative Sales	29.40	29.60	31.10	32.75	32.12	30.70	30.07	30.21	29.86	29.74	29.53	29.29	29.33	7.8%
EPACT Legislative Alternative Sales	33.06	33.07	33.20	33.50	33.79	34.11	34.46	34.82	35.22	35.61	35.97	36.32	36.75	-0.1%
Z EVP Legislative Alternative Sales	376.77	374.38	371.71	392.27	390.01	387.50	432.66	431.17	436.29	459.51	464.27	468.97	477.10	9.0%
Total Vehicles Sales	16641.4	16615.7	16612.7	16803.0	16935.0	17083.4	17261.9	17445.8	17648.5	17854.9	18033.4	18208.6	18431.4	0.7%

Table 47. Light-Duty Vehicle Sales by Technology Type
United States (thousands)

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes" (El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Light-Duty Car Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	132.58	132.84	132.79	132.46	131.97	131.51	131.16	130.82	130.33	129.59	128.61	127.43	126.06
TDI Diesel ICE	0.51	0.53	0.58	0.64	0.70	0.76	0.84	0.94	1.05	1.17	1.29	1.42	1.56
Total Conventional	133.09	133.37	133.36	133.10	132.67	132.27	132.00	131.77	131.38	130.76	129.90	128.85	127.63
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	0.49	0.63	0.89	1.16	1.49	1.86	2.30	2.79	3.31	3.89	4.51	5.13	5.77
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Compressed Natural Gas Bi-fuel	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Technology													
Electric Vehicle	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Electric-Gasoline Hybrid	0.26	0.46	0.73	0.98	1.28	1.60	1.99	2.43	2.92	3.44	4.00	4.60	5.24
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total Alternatives	0.82	1.15	1.68	2.20	2.83	3.52	4.35	5.29	6.30	7.41	8.58	9.81	11.10
Total Car Stock	133.91	134.52	135.04	135.30	135.50	135.79	136.35	137.05	137.68	138.16	138.48	138.66	138.72
Light-Duty Truck Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	81.27	84.75	87.22	88.65	89.96	91.33	92.58	93.66	94.49	94.85	94.93	94.83	94.37
TDI Diesel ICE	3.10	3.29	3.50	3.71	3.95	4.23	4.57	4.98	5.42	5.89	6.38	6.93	7.55
Total Conventional	84.37	88.04	90.72	92.36	93.91	95.55	97.15	98.64	99.91	100.74	101.31	101.76	101.93
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	3.85	4.12	4.67	5.32	6.06	7.07	8.37	9.87	11.52	13.36	15.26	17.17	19.03
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	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
Compressed Natural Gas Bi-fuel	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
Liquefied Petroleum Gases ICE	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gases Bi-fuel	0.09	0.08	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02
Electric Technology													
Electric Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.02	0.12	0.22	0.41	0.61	0.85	1.16	1.55	2.02	2.54	3.23	4.01	4.88
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total Alternatives	4.04	4.40	5.05	5.88	6.81	8.05	9.66	11.55	13.67	16.02	18.60	21.29	24.02
Total Truck Stock	88.41	92.44	95.77	98.24	100.72	103.60	106.81	110.20	113.58	116.76	119.91	123.05	125.95
Total Vehicle Stock	222.32	226.96	230.80	233.54	236.22	239.40	243.16	247.25	251.26	254.92	258.40	261.71	264.67

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Light-Duty Car Stock 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	124.58	123.09	121.60	120.11	118.77	117.62	116.62	115.75	115.03	114.44	113.98	113.63	113.41	-0.7%
TDI Diesel ICE	1.72	1.90	2.11	2.31	2.53	2.76	3.00	3.24	3.50	3.76	4.05	4.34	4.65	9.5%
Total Conventional	126.30	124.99	123.71	122.42	121.30	120.38	119.62	119.00	118.53	118.20	118.02	117.98	118.06	-0.5%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	6.44	7.08	7.80	8.55	9.26	9.88	10.44	10.99	11.49	11.96	12.39	12.79	13.17	13.5%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	1.9%
Compressed Natural Gas Bi-fuel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	3.5%
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.2%
Liquefied Petroleum Gases Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.7%
Electric Technology														
Electric Vehicle	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-8.3%
Plug-in Gasoline Hybrid	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	--
Electric-Diesel Hybrid	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	--
Electric-Gasoline Hybrid	5.95	6.73	7.55	8.35	9.15	9.94	10.73	11.49	12.24	12.96	13.67	14.35	15.02	15.7%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	--
Total Alternatives	12.48	13.90	15.45	17.01	18.53	19.95	21.30	22.62	23.88	25.08	26.22	27.31	28.36	14.3%
Total Car Stock	138.78	138.90	139.16	139.44	139.83	140.33	140.92	141.62	142.41	143.28	144.24	145.28	146.42	0.4%
Light-Duty Truck Stock 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	93.57	92.53	91.11	89.59	88.08	86.66	85.32	84.02	82.80	81.65	80.55	79.52	78.56	-0.3%
TDI Diesel ICE	8.25	9.07	9.97	10.81	11.70	12.68	13.68	14.68	15.73	16.81	17.93	19.09	20.26	7.9%
Total Conventional	101.82	101.60	101.07	100.40	99.78	99.33	99.00	98.71	98.53	98.45	98.48	98.61	98.82	0.5%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	20.77	22.24	23.62	25.12	26.44	27.47	28.34	29.13	29.79	30.35	30.81	31.15	31.43	8.8%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	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	0.5%
Compressed Natural Gas Bi-fuel	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.8%
Liquefied Petroleum Gases ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-4.4%
Liquefied Petroleum Gases Bi-fuel	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	-11.1%
Electric Technology														
Electric Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.6%
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	5.84	6.90	8.02	9.16	10.27	11.36	12.43	13.47	14.47	15.44	16.36	17.24	18.08	23.2%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	37.1%
Total Alternatives	26.72	29.25	31.75	34.38	36.81	38.94	40.88	42.71	44.37	45.90	47.28	48.51	49.63	10.6%
Total Truck Stock	128.54	130.85	132.83	134.79	136.59	138.27	139.88	141.42	142.90	144.36	145.76	147.11	148.45	2.0%
Total Vehicle Stock	267.32	269.75	271.98	274.22	276.42	278.60	280.80	283.03	285.31	287.64	290.00	292.39	294.87	1.1%

Table 48. Light-Duty Vehicle Stock by Technology Type (millions)

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; Oak Ridge National Laboratory, Transportation Energy Data Book: 26 and Annual (Oak Ridge, TN, 2007); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	29.91	30.77	30.62	30.54	30.69	31.04	31.58	31.68	31.76	32.93	34.05	35.56	36.78
TDI Diesel ICE	42.11	42.84	41.74	41.40	41.01	41.07	41.55	41.60	41.62	43.35	44.74	46.47	47.72
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	29.05	30.24	30.04	29.91	30.49	30.90	31.44	31.53	31.58	32.79	33.91	35.40	36.56
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	32.41	33.53	33.28	33.09	33.21	33.50	34.02	34.11	34.19	35.52	36.78	38.35	39.53
Compressed Natural Gas Bi-fuel	29.26	30.57	30.35	30.23	30.37	30.64	31.14	31.22	31.29	32.40	33.48	34.79	35.70
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	29.95	30.89	30.69	30.55	30.82	31.18	31.69	31.78	31.86	33.07	34.25	35.78	36.89
Electric Technology													
Electric Vehicle	85.70	91.91	93.11	92.20	91.64	92.53	94.16	95.58	96.89	98.75	99.30	100.29	101.43
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.50	65.42	66.51	67.62	66.47	67.89
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	53.20	53.12	53.05	50.44	50.70	51.50	52.55	53.46
Electric-Gasoline Hybrid	44.15	45.12	44.95	44.56	43.31	43.13	43.66	43.76	43.79	45.46	46.84	48.56	49.84
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	39.44	39.15	39.07	39.41	39.38	39.35	39.77	40.25	40.59	40.76
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	61.25	62.11	59.02	58.45	58.17	58.03	58.28	58.28	51.37	51.76	52.08	51.67	51.96
Average New Car MPG	30.16	31.08	31.02	30.94	31.13	31.49	32.10	32.28	32.42	33.70	34.92	36.54	37.88
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	22.17	22.96	22.87	22.82	22.99	23.19	23.81	24.54	25.23	25.76	26.62	26.95	27.57
TDI Diesel ICE	28.91	30.21	29.83	29.64	29.77	30.07	30.95	31.80	32.53	33.05	33.89	34.25	34.85

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	21.28	21.72	23.06	22.92	23.08	23.24	23.83	24.54	25.26	25.82	26.73	27.10	27.76
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	22.60	24.21	24.13	24.07	24.17	24.26	24.87	25.59	26.30	26.88	27.68	28.08	28.72
Compressed Natural Gas Bi-fuel	20.71	22.31	22.24	22.20	22.27	22.35	22.92	23.56	24.20	24.73	25.46	25.84	26.40
Liquefied Petroleum Gases ICE	23.38	24.29	24.25	24.23	24.35	24.48	25.02	25.86	26.74	27.41	28.28	28.62	29.29
Liquefied Petroleum Gases Bi-fuel	20.62	22.24	22.18	22.15	22.22	22.32	22.92	23.60	24.28	24.87	25.65	26.05	26.65
Electric Technology													
Electric Vehicle	70.53	73.32	73.29	72.60	72.64	73.89	75.90	77.94	79.66	80.86	81.35	81.37	81.51
Plug-in Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.39	56.57	57.01	58.04
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	45.14	39.84
Electric-Gasoline Hybrid	30.30	30.28	30.00	33.00	33.22	33.45	34.14	34.75	35.20	35.52	36.51	36.74	37.26
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.53	37.87	38.24	38.47	38.47	38.54
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	44.74	45.01	43.49	43.07	43.10	43.25	43.82	44.37	44.72	44.69	44.96	44.96	45.03
Average New Truck MPG	22.37	23.21	23.20	23.31	23.50	23.74	24.46	25.29	26.07	26.69	27.73	28.21	29.00
Fleet Average Stock Car MPG 2/	22.90	23.21	23.15	23.20	23.19	23.28	23.49	23.74	23.95	24.23	24.59	25.00	25.46
Fleet Average Stock Truck MPG 2/	16.53	17.20	17.19	17.26	17.27	17.37	17.58	17.85	18.14	18.47	18.84	19.23	19.65
Fleet Average Stock Vehicle MPG 2/	19.86	20.32	20.24	20.26	20.23	20.30	20.47	20.69	20.92	21.20	21.54	21.91	22.32

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Automobiles 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	38.23	39.23	40.38	40.46	40.46	40.43	40.40	40.38	40.36	40.33	40.31	40.29	40.26	1.1%
TDI Diesel ICE	49.18	50.29	51.35	51.40	51.40	51.35	51.30	51.26	51.21	51.17	51.13	51.09	51.04	0.7%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	38.06	39.34	40.71	40.84	40.84	40.79	40.74	40.73	40.69	40.67	40.64	40.60	40.57	1.2%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	41.16	42.22	43.48	43.62	43.60	43.55	43.51	43.48	43.45	43.41	43.38	43.35	43.31	1.1%
Compressed Natural Gas Bi-fuel	36.90	37.77	38.74	38.86	38.83	38.79	38.76	38.73	38.71	38.68	38.65	38.62	38.60	1.0%
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases Bi-fuel	38.36	39.37	40.47	40.60	40.57	40.54	40.51	40.48	40.45	40.42	40.40	40.37	40.34	1.1%
Electric Technology														
Electric Vehicle	102.53	103.26	104.11	104.08	103.98	103.87	103.77	103.66	103.57	103.47	103.37	103.29	103.20	0.5%
Plug-in Gasoline Hybrid	70.06	72.06	73.15	73.44	73.43	73.36	73.29	73.24	73.19	73.13	73.09	73.02	72.93	--
Electric-Diesel Hybrid	54.72	55.84	57.48	57.79	57.76	57.70	57.65	57.60	57.55	57.50	57.46	57.41	57.36	--
Electric-Gasoline Hybrid	51.42	52.66	53.93	54.02	54.02	53.97	53.92	53.88	53.84	53.79	53.76	53.71	53.66	0.7%
Fuel Cell Technology														
Fuel Cell Gasoline	41.09	41.43	41.85	41.85	41.80	41.76	41.72	41.68	41.64	41.60	41.56	41.53	41.49	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	52.53	53.19	53.70	53.57	53.45	53.35	53.25	53.16	53.08	53.00	52.93	52.85	52.78	-0.7%
Average New Car MPG	39.50	40.70	41.99	42.09	42.12	42.12	42.11	42.12	42.11	42.12	42.12	42.13	42.13	1.3%
Light-Duty Trucks 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	28.20	28.48	29.24	29.36	29.46	29.59	29.69	29.80	29.84	29.83	29.82	29.82	29.81	1.1%
TDI Diesel ICE	35.49	35.76	36.54	36.69	36.79	36.90	37.00	37.09	37.11	37.08	37.05	37.03	37.01	0.8%

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol-Flex Fuel ICE	28.44	28.73	29.53	29.65	29.77	29.92	30.04	30.16	30.21	30.20	30.20	30.20	30.20	1.4%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Technology														
Compressed Natural Gas ICE	29.34	29.63	30.36	30.51	30.61	30.72	30.82	30.91	30.92	30.90	30.87	30.86	30.84	1.0%
Compressed Natural Gas Bi-fuel	26.92	27.16	27.71	27.82	27.91	28.01	28.11	28.20	28.21	28.19	28.17	28.16	28.14	1.0%
Liquefied Petroleum Gases ICE	29.93	30.18	31.19	31.30	31.39	31.50	31.61	31.71	31.74	31.73	31.72	31.72	31.72	1.1%
Liquefied Petroleum Gases Bi-fuel	27.22	27.49	28.09	28.24	28.33	28.45	28.55	28.65	28.66	28.64	28.62	28.61	28.59	1.1%
Electric Technology														
Electric Vehicle	81.79	81.84	82.43	82.36	82.31	82.33	82.34	82.30	82.25	82.15	82.06	81.97	81.88	0.5%
Plug-in Gasoline Hybrid	59.22	59.82	62.69	63.22	56.12	56.29	56.42	56.56	56.57	56.49	56.67	56.60	56.54	--
Electric-Diesel Hybrid	40.12	40.24	44.74	44.88	45.01	45.18	45.34	45.49	45.54	45.51	45.48	45.46	45.44	--
Electric-Gasoline Hybrid	37.84	38.10	39.08	39.28	39.38	39.49	39.59	39.66	39.66	39.62	39.59	39.56	39.53	1.1%
Fuel Cell Technology														
Fuel Cell Gasoline	38.67	38.69	38.96	38.93	38.91	38.92	38.93	38.91	38.89	38.84	38.80	38.76	38.72	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	45.17	45.19	45.50	45.46	45.42	45.42	45.41	44.62	44.52	44.39	44.25	44.12	43.99	-0.1%
Average New Truck MPG	29.83	30.36	31.36	31.48	31.65	31.88	32.04	32.18	32.27	32.30	32.35	32.41	32.44	1.4%
Fleet Average Stock Car MPG 2/	25.98	26.55	27.16	27.76	28.37	28.96	29.53	30.06	30.57	31.05	31.49	31.90	32.25	1.4%
Fleet Average Stock Truck MPG 2/	20.08	20.52	20.98	21.44	21.88	22.31	22.72	23.10	23.47	23.81	24.13	24.42	24.68	1.5%
Fleet Average Stock Vehicle MPG 2/	22.76	23.24	23.75	24.25	24.75	25.23	25.69	26.13	26.55	26.94	27.30	27.64	27.93	1.3%

Table 49. Light-Duty Vehicle Miles per Gallon by Technology Type (miles per gallon gasoline equivalent)

1/ Fuel efficiencies are EPA rated. Includes personal and fleet vehicles.

2/ Stock values are on-road efficiencies. Includes personal vehicles, fleet vehicles, and freight light trucks.

MPG = Miles per Gallon.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 derived using: National Highway Traffic and Safety Administration, Final Fuel Economy Reports from Auto Manufacturers; Federal Highway Administration, Highway Statistics 2006 (Washington, DC, 2007); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey", EC97TV (Washington, DC, October 1999); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 50. Light-Duty Vehicle Miles Traveled by Technology Type (billion miles, unless otherwise noted)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Conventional Vehicles 1/													
Gasoline ICE Vehicles	2584.4	2581.3	2546.2	2553.9	2569.2	2588.7	2606.0	2622.1	2636.6	2646.9	2656.1	2665.0	2670.9
TDI Diesel ICE	43.2	44.5	45.9	48.6	51.9	55.7	60.7	66.6	73.0	80.1	87.7	96.5	106.5
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	52.7	56.6	64.4	74.5	86.5	102.2	122.0	144.7	169.8	198.2	228.5	260.0	292.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas Technology													
Compressed Natural Gas ICE	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
Compressed Natural Gas Bi-fuel	0.8	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5
Liquefied Petroleum Gases ICE	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases Bi-fuel	1.4	1.3	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3
Electric Technology													
Electric Vehicle	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2
Electric-Gasoline Hybrid	3.4	6.8	10.7	15.6	21.0	27.3	35.3	44.8	55.8	67.9	82.7	99.4	118.2
Fuel Cell Technology													
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
VMT Equation Components													
Total VMT (billion miles)	2687.1	2692.6	2670.6	2695.9	2731.9	2777.1	2827.1	2881.3	2938.2	2996.1	3058.1	3123.9	3190.8
VMT/Driving Population (thousand miles)	13.4	13.2	13.0	12.9	13.0	13.1	13.2	13.3	13.5	13.6	13.8	14.0	14.2
Driving Population (million)	232.2	235.0	237.7	240.2	242.6	244.9	247.1	249.2	251.3	253.3	255.3	257.3	259.5
Price Effects													
Motor Gasoline Price (1987 \$/million Btu)	12.11	13.31	14.14	15.39	14.27	13.33	12.99	12.60	12.25	12.18	11.80	11.50	11.56
Fleet Miles per Gallon	20.06	20.08	20.23	20.38	20.53	20.70	20.90	21.14	21.40	21.70	22.05	22.43	22.84
Real Cost of Driving per Mile (1987 cents)	10.309	11.322	11.946	12.907	11.875	11.005	10.617	10.186	9.782	9.589	9.144	8.764	8.645
Point Price Elasticity	-0.024	-0.027	-0.029	-0.032	-0.029	-0.027	-0.026	-0.024	-0.023	-0.022	-0.021	-0.020	-0.019
Income Effects													
Disposable Income (billion 1987 dollars)	8148.0	8397.0	8656.5	8852.2	9137.5	9471.9	9818.9	10140.6	10439.9	10737.8	11054.7	11373.6	11684.1
Point Income Elasticity	187.252	192.999	200.603	203.210	207.000	211.084	214.941	217.809	219.895	221.802	223.714	225.319	226.620
Demographic Driving Population Effect													
Percentage Female Driving Population	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Point Demographic Elasticity	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830

Table 50. Light-Duty Vehicle Miles Traveled by Technology Type (billion miles, unless otherwise noted)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Conventional Vehicles 1/														
Gasoline ICE Vehicles	2672.3	2666.7	2656.7	2650.7	2645.7	2643.8	2644.5	2646.1	2649.6	2654.4	2660.2	2667.1	2675.3	0.1%
TDI Diesel ICE	117.9	131.1	145.8	160.4	176.1	193.3	211.4	229.9	249.4	269.8	291.3	313.8	336.8	8.8%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	324.0	352.5	381.3	413.6	443.8	470.0	493.7	516.7	537.7	557.1	574.7	590.4	604.8	10.4%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Natural Gas Technology														
Compressed Natural Gas ICE	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5%
Compressed Natural Gas Bi-fuel	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2%
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-5.2%
Liquefied Petroleum Gases Bi-fuel	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	-9.8%
Electric Technology														
Electric Vehicle	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-6.7%
Plug-in Gasoline Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	--
Electric-Diesel Hybrid	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	--
Electric-Gasoline Hybrid	139.3	162.7	187.9	214.0	240.2	266.8	293.5	320.1	346.5	372.6	398.1	423.1	447.6	19.1%
Fuel Cell Technology														
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	45.7%
VMT Equation Components														
Total VMT (billion miles)	3256.8	3316.3	3375.1	3442.1	3509.4	3577.5	3646.9	3716.8	3787.2	3858.0	3928.6	3998.8	4069.0	1.7%
VMT/Driving Population (thousand miles)	14.3	14.5	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.2	0.9%
Driving Population (million)	261.7	263.9	266.0	268.2	270.5	272.7	275.0	277.3	279.7	282.1	284.5	286.9	289.3	0.9%
Price Effects														
Motor Gasoline Price (1987 \$/million Btu)	11.70	12.03	12.35	12.15	12.26	12.30	12.29	12.36	12.41	12.48	12.60	12.71	12.80	-0.2%
Fleet Miles per Gallon	23.29	23.77	24.30	24.82	25.33	25.83	26.32	26.80	27.24	27.66	28.05	28.40	28.72	1.5%
Real Cost of Driving per Mile (1987 cents)	8.580	8.647	8.684	8.367	8.269	8.133	7.975	7.880	7.782	7.708	7.672	7.647	7.611	-1.6%
Point Price Elasticity	-0.019	-0.019	-0.019	-0.018	-0.018	-0.017	-0.017	-0.016	-0.016	-0.016	-0.015	-0.015	-0.015	-2.5%
Income Effects														
Disposable Income (billion 1987 dollars)	12003.8	12323.0	12653.8	12986.5	13320.0	13658.3	13999.7	14349.1	14713.0	15085.4	15466.4	15852.5	16246.1	2.8%
Point Income Elasticity	228.104	229.964	232.027	233.490	234.896	236.273	237.570	238.926	240.428	241.989	243.644	245.340	247.097	1.0%
Demographic Driving Population Effect														
Percentage Female Driving Population	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	--
Point Demographic Elasticity	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	--

Table 50. Light-Duty Vehicle Miles Traveled by Technology Type (billion miles, unless otherwise noted)

1/ Includes personal and fleet vehicles. Includes both cars and light trucks.

VMT = Vehicle miles traveled.

ICE = Internal combustion engine.

MmBtu = Million British thermal units.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Federal Highway Administration, Highway Statistics 2006 (Washington, DC, 2007); Oak Ridge National Laboratory, Transportation Energy Data Book: 26 and Annual (Oak Ridge, TN, 2007); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (MPG)													
Minicompact	28.4	28.9	28.9	29.1	29.5	30.0	30.4	30.6	30.7	31.5	32.3	33.3	34.7
Subcompact	29.4	31.2	31.0	31.0	31.3	31.7	32.4	32.5	32.6	33.7	34.8	36.4	37.9
Compact	33.0	33.3	33.1	33.0	33.5	33.9	34.5	34.6	34.7	36.0	37.2	38.9	40.5
Midsized	29.5	30.5	30.2	30.1	30.4	30.7	31.1	31.2	31.3	32.5	33.7	35.3	36.3
Large	27.1	29.0	28.8	28.6	28.7	29.0	29.4	29.5	29.6	30.7	31.9	33.1	33.9
Two Seater	24.5	25.8	25.6	25.6	25.7	25.9	26.3	26.4	26.5	27.1	27.8	29.0	30.2
Average New Car	29.9	30.7	30.6	30.5	30.6	31.0	31.5	31.6	31.7	32.9	34.0	35.5	36.7
Average New Car On-Road MPG	24.3	25.0	24.9	24.9	25.0	25.3	25.8	25.9	26.0	27.0	27.9	29.2	30.2
Conventional Light Trucks													
Small Pickup	23.4	23.1	23.2	23.2	23.5	23.7	24.4	25.2	25.9	26.6	27.7	28.1	28.8
Large Pickup	19.3	21.4	21.3	21.2	21.3	21.4	22.0	22.6	23.2	23.8	24.5	24.9	25.5
Small Van	25.0	25.3	25.2	25.2	25.3	25.6	26.1	26.9	27.6	28.0	29.0	29.1	29.8
Large Van	23.1	23.8	23.8	23.7	23.9	24.0	24.5	25.4	26.3	27.0	28.0	28.3	29.0
Small Utility	24.7	25.7	25.7	25.7	26.0	26.3	27.1	28.0	28.9	29.5	30.5	30.8	31.4
Large Utility	20.9	20.9	20.9	20.9	21.0	21.2	21.8	22.4	22.9	23.4	24.2	24.5	25.1
Average New Light Truck	22.2	23.0	22.9	22.9	23.0	23.2	23.9	24.6	25.3	25.9	26.7	27.1	27.7
Average New LT On-Road MPG	17.8	18.5	18.5	18.4	18.6	18.8	19.3	19.9	20.5	21.0	21.7	22.0	22.6
Degradation Factors 1/													
Cars	0.813	0.814	0.815	0.816	0.817	0.818	0.819	0.820	0.821	0.822	0.823	0.824	0.825
Light Trucks	0.803	0.804	0.805	0.806	0.807	0.808	0.809	0.810	0.811	0.812	0.813	0.814	0.815
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	--	--	--	--	--	--	--	--	--	--	31.9	32.4	33.0
Subcompact	61.2	62.1	59.0	58.4	58.2	58.0	38.5	38.4	38.5	38.7	39.3	40.7	42.2
Compact	47.9	48.3	47.9	47.5	39.6	38.0	38.8	39.1	39.3	40.6	41.6	43.4	45.3
Midsized	36.0	37.9	36.2	35.6	35.5	35.8	36.3	36.4	36.6	38.0	39.5	41.4	42.6
Large	27.3	29.3	29.1	28.9	33.6	34.1	34.4	34.4	34.4	35.5	36.8	38.3	39.3
Two Seater	35.6	37.3	37.0	36.7	36.7	36.8	37.0	37.1	31.6	31.8	32.3	33.1	34.0
Average New Alternative Cars	36.7	37.9	36.4	35.7	35.6	35.7	36.3	36.5	36.6	37.9	39.2	40.9	42.2
Alternative-Fuel Light Trucks													
Small Pickup	23.6	23.4	23.4	23.4	23.7	24.0	24.7	25.4	26.2	26.9	28.0	28.4	29.2
Large Pickup	19.5	21.6	21.5	21.5	21.5	21.6	22.2	23.2	24.1	24.7	25.5	26.1	26.8
Small Van	25.3	25.6	25.4	25.4	25.6	28.2	29.0	29.7	30.4	30.6	31.8	32.1	33.0
Large Van	23.4	24.0	24.0	24.0	24.1	24.3	24.8	25.6	26.6	27.3	30.8	31.6	32.5
Small Utility	44.7	45.0	25.7	27.9	27.9	28.1	28.9	29.8	30.7	31.4	32.6	33.2	34.2
Large Utility	23.3	23.7	23.2	22.8	22.7	22.8	23.4	24.1	24.7	25.2	26.1	26.6	27.3
Average New Alt. Light Trucks	22.8	23.5	23.9	24.5	24.5	24.6	25.2	26.0	26.8	27.4	28.6	29.2	30.0
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	29.8	31.0	30.8	30.7	31.0	31.3	31.8	32.0	32.0	33.2	34.3	35.9	37.1
Light Trucks	21.9	22.7	22.6	22.6	22.7	22.9	23.5	24.2	24.9	25.4	26.3	26.6	27.2

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Average On-Road MPG													
Cars	23.2	23.9	24.4	24.7	25.0	25.2	25.5	25.8	26.0	26.4	26.9	27.7	28.7
Light Trucks	16.5	17.1	17.5	17.8	18.0	18.3	18.5	18.8	19.2	19.6	20.2	20.7	21.2
New Vehicle Sales Shares (%)													
Conventional Cars													
Minicompact	1.402	1.667	1.742	1.783	1.546	1.557	1.616	1.611	1.617	1.658	1.611	1.622	1.666
Subcompact	8.885	10.921	11.361	11.619	10.137	10.192	10.560	10.558	10.590	10.749	10.514	10.528	10.827
Compact	32.348	25.492	26.592	27.007	24.089	24.264	25.062	24.997	25.023	25.288	24.827	24.873	25.498
Midsize	39.109	38.016	37.226	36.956	38.861	38.754	38.255	38.292	38.283	38.119	38.421	38.363	37.953
Large	16.125	21.590	20.772	20.332	23.033	22.900	22.184	22.227	22.171	21.848	22.280	22.259	21.717
Two Seater	2.132	2.314	2.307	2.303	2.335	2.333	2.322	2.316	2.316	2.338	2.347	2.354	2.339
Conventional Light Trucks													
Small Pickup	6.916	7.905	7.507	7.396	8.236	8.184	7.954	7.983	7.971	7.876	7.933	7.986	7.777
Large Pickup	20.161	19.601	19.420	19.518	19.283	19.262	19.302	19.328	19.357	19.389	19.324	19.385	19.408
Small Van	7.720	6.263	6.523	6.627	5.901	5.932	6.126	6.064	6.093	6.216	6.033	6.152	6.226
Large Van	9.335	8.836	8.694	8.736	8.684	8.670	8.690	8.644	8.635	8.692	8.622	8.722	8.684
Small Utility	27.206	28.401	28.499	28.380	28.801	28.815	28.701	28.743	28.724	28.620	28.792	28.622	28.633
Large Utility	28.662	28.994	29.356	29.342	29.095	29.136	29.228	29.238	29.220	29.207	29.295	29.132	29.273
New Vehicle Average Horsepower													
Conventional Cars													
Minicompact	193	204	207	208	210	212	212	213	213	213	214	216	218
Subcompact	174	162	164	166	169	172	174	175	176	177	179	183	186
Compact	146	160	161	163	166	168	168	169	169	170	172	173	173
Midsize	190	193	195	197	199	202	203	204	204	209	213	217	219
Large	217	237	239	241	245	247	246	247	248	250	252	254	256
Two Seater	298	284	287	290	293	296	296	297	299	299	301	302	301
Average New Car	181	193	194	196	201	203	203	204	205	207	210	213	213
Conventional Light Trucks													
Small Pickup	204	214	217	220	223	225	225	227	229	229	231	231	231
Large Pickup	281	279	283	285	290	294	293	294	295	296	296	297	298
Small Van	195	197	200	202	205	207	208	210	211	212	213	214	216
Large Van	220	226	229	232	234	236	236	236	237	238	239	238	238
Small Utility	196	190	193	195	197	197	196	196	197	198	200	200	201
Large Utility	269	262	266	268	272	278	279	281	281	280	280	279	279
Average New Light Truck	237	234	237	240	243	246	246	247	248	248	248	249	249
New Vehicle Average Weight													
Conventional Cars													
Minicompact	3133	3151	3179	3198	3200	3202	3182	3180	3181	3152	3127	3103	3066
Subcompact	2986	2943	2972	3002	3016	3023	3010	3010	3012	2981	2958	2927	2897
Compact	2863	2978	3008	3037	3044	3050	3036	3037	3039	3009	2990	2961	2933
Midsize	3338	3346	3378	3406	3416	3425	3411	3413	3415	3389	3369	3340	3321
Large	3700	3731	3766	3801	3830	3837	3805	3807	3810	3770	3725	3693	3678
Two Seater	3261	3145	3176	3207	3227	3239	3227	3224	3226	3210	3193	3161	3126
Average New Car	3207	3283	3306	3332	3373	3380	3354	3356	3358	3324	3303	3273	3245
Conventional Light Trucks													
Small Pickup	4206	4191	4235	4279	4308	4326	4295	4277	4261	4259	4235	4233	4229
Large Pickup	5328	5419	5474	5529	5568	5593	5546	5537	5530	5517	5496	5500	5499
Small Van	4379	4438	4483	4526	4541	4544	4513	4450	4420	4418	4369	4374	4373
Large Van	4827	4809	4858	4904	4933	4952	4929	4876	4823	4802	4768	4762	4742
Small Utility	4017	3993	4034	4073	4070	4056	4004	3954	3923	3921	3897	3896	3890
Large Utility	5235	5154	5206	5257	5296	5330	5318	5284	5240	5207	5146	5130	5101
Average New Light Truck	4747	4725	4774	4822	4838	4852	4820	4784	4754	4740	4702	4698	4687
Average Weight for the Stock													
Conventional Cars	3304	3381	3376	3374	3375	3374	3372	3370	3369	3367	3363	3358	3352
Conventional Light Trucks	4328	4372	4410	4447	4483	4520	4554	4583	4606	4626	4642	4654	4664

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Personal Vehicles														
EPA Rated New Vehicle Fuel Efficiency														
Conventional Cars (MPG)														
Minicompact	35.5	36.1	37.2	37.2	37.1	37.1	37.1	37.1	37.0	37.0	37.0	37.0	37.0	1.0%
Subcompact	39.4	40.2	41.7	41.8	41.8	41.7	41.7	41.7	41.6	41.6	41.6	41.5	41.5	1.2%
Compact	42.5	43.6	45.0	45.2	45.1	45.1	45.1	45.0	45.0	45.0	45.0	44.9	44.9	1.2%
Midsized	37.7	38.7	39.6	39.7	39.7	39.7	39.7	39.6	39.6	39.6	39.6	39.5	39.5	1.1%
Large	35.1	36.1	37.2	37.4	37.4	37.3	37.3	37.3	37.3	37.3	37.2	37.2	37.2	1.0%
Two Seater	31.3	31.9	32.8	32.9	32.9	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	1.0%
Average New Car	38.1	39.1	40.3	40.3	40.3	40.3	40.3	40.3	40.2	40.2	40.2	40.2	40.1	1.1%
Average New Car On-Road MPG	31.5	32.3	33.3	33.4	33.5	33.5	33.5	33.5	33.5	33.6	33.6	33.6	33.6	1.2%
Conventional Light Trucks														
Small Pickup	29.7	30.0	31.0	31.1	31.3	31.4	31.5	31.6	31.7	31.7	31.6	31.6	31.6	1.3%
Large Pickup	26.0	26.3	26.7	26.8	26.9	27.0	27.2	27.2	27.3	27.2	27.2	27.2	27.2	1.0%
Small Van	30.6	30.9	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	1.0%
Large Van	29.7	30.0	31.2	31.3	31.4	31.5	31.6	31.7	31.7	31.7	31.7	31.8	31.8	1.2%
Small Utility	32.2	32.5	33.8	33.9	34.0	34.2	34.3	34.5	34.5	34.5	34.5	34.5	34.5	1.2%
Large Utility	25.6	25.8	26.3	26.4	26.5	26.6	26.8	26.9	26.9	26.9	26.9	26.9	26.9	1.0%
Average New Light Truck	28.3	28.6	29.4	29.5	29.6	29.8	29.9	30.0	30.0	30.0	30.0	30.0	30.0	1.1%
Average New LT On-Road MPG	23.1	23.4	24.0	24.2	24.3	24.4	24.5	24.7	24.7	24.8	24.8	24.8	24.8	1.2%
Degradation Factors 1/														
Cars	0.826	0.827	0.828	0.829	0.830	0.831	0.832	0.833	0.834	0.835	0.836	0.837	0.838	0.1%
Light Trucks	0.816	0.817	0.818	0.819	0.820	0.821	0.822	0.823	0.824	0.825	0.826	0.827	0.828	0.1%
New Fuel Efficiency by Size Class 2/														
Alternative-Fuel Cars														
Minicompact	33.5	34.2	35.7	35.7	35.7	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	--
Subcompact	43.9	46.0	47.9	47.7	47.9	48.4	48.7	48.6	48.7	48.8	48.8	48.9	48.9	-1.0%
Compact	47.5	49.6	51.1	51.0	51.1	51.4	51.6	51.5	51.6	51.6	51.6	51.7	51.7	0.3%
Midsized	44.2	45.6	46.5	46.5	46.6	46.8	46.9	46.8	46.9	46.9	46.9	46.9	47.0	0.9%
Large	40.8	42.3	43.4	43.5	43.5	43.7	43.8	43.8	43.9	43.9	43.9	43.9	43.9	1.7%
Two Seater	34.9	36.3	37.3	36.9	37.2	37.9	38.2	38.2	38.4	38.5	38.5	38.7	38.7	0.2%
Average New Alternative Cars	44.0	45.6	46.8	46.7	46.8	47.1	47.2	47.2	47.2	47.2	47.2	47.3	47.3	0.9%
Alternative-Fuel Light Trucks														
Small Pickup	30.1	30.4	32.9	33.6	33.9	34.6	34.9	35.0	35.2	35.3	35.4	35.5	35.5	1.8%
Large Pickup	27.5	28.1	28.6	28.6	28.8	29.1	29.3	29.4	29.5	29.6	29.6	29.6	29.6	1.3%
Small Van	34.1	35.0	36.3	35.9	36.1	36.5	36.8	36.8	36.9	36.9	36.9	37.0	37.0	1.6%
Large Van	33.5	34.1	35.4	35.3	35.5	35.9	36.1	36.2	36.3	36.3	36.4	36.4	36.5	1.7%
Small Utility	35.4	36.2	37.8	37.8	38.1	38.4	38.6	38.7	38.8	38.9	38.9	38.9	38.9	-0.6%
Large Utility	28.0	28.6	29.3	29.3	29.4	29.7	30.0	30.1	30.2	30.2	30.2	30.3	30.3	1.0%
Average New Alt. Light Trucks	30.9	31.6	32.6	32.6	32.8	33.2	33.4	33.6	33.7	33.7	33.7	33.8	33.8	1.5%
Fleet Vehicles														
EPA Rated New Vehicle Fuel Efficiency														
Cars	38.6	39.6	40.8	40.9	40.8	40.8	40.8	40.8	40.7	40.7	40.7	40.7	40.6	1.1%
Light Trucks	27.8	28.1	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.3	29.3	29.3	29.3	1.1%

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Average On-Road MPG														
Cars	29.8	30.9	32.0	32.8	33.4	33.7	33.9	33.9	33.9	33.9	34.0	34.0	34.0	1.5%
Light Trucks	21.7	22.2	22.6	23.0	23.4	23.6	23.8	24.0	24.1	24.1	24.2	24.3	24.3	1.5%
New Vehicle Sales Shares (%)														
Conventional Cars														
Minicompact	1.677	1.701	1.703	1.634	1.671	1.663	1.658	1.667	1.665	1.667	1.672	1.673	1.669	0.0%
Subcompact	10.890	11.106	11.038	10.712	10.942	10.894	10.861	10.921	10.904	10.919	10.953	10.955	10.929	0.0%
Compact	25.472	25.967	25.962	25.203	25.682	25.580	25.510	25.627	25.596	25.625	25.690	25.692	25.638	0.0%
Midsize	38.026	37.702	37.663	38.194	37.859	37.928	37.973	37.897	37.918	37.899	37.855	37.856	37.894	0.0%
Large	21.590	21.196	21.299	21.940	21.537	21.625	21.686	21.578	21.607	21.581	21.521	21.516	21.562	0.0%
Two Seater	2.345	2.328	2.335	2.316	2.309	2.310	2.311	2.310	2.310	2.309	2.309	2.308	2.309	0.0%
Conventional Light Trucks														
Small Pickup	7.739	7.707	7.666	7.946	7.821	7.860	7.890	7.851	7.874	7.871	7.853	7.851	7.867	0.0%
Large Pickup	19.427	19.489	19.506	19.467	19.521	19.515	19.509	19.530	19.512	19.516	19.523	19.525	19.524	0.0%
Small Van	6.240	6.375	6.240	6.200	6.313	6.284	6.269	6.295	6.291	6.298	6.315	6.315	6.301	0.0%
Large Van	8.672	8.750	8.633	8.764	8.774	8.772	8.772	8.775	8.780	8.792	8.794	8.793	8.794	0.0%
Small Utility	28.616	28.467	28.591	28.540	28.464	28.478	28.484	28.464	28.469	28.460	28.449	28.449	28.455	0.0%
Large Utility	29.307	29.212	29.365	29.083	29.107	29.096	29.076	29.085	29.075	29.063	29.066	29.066	29.061	0.0%
New Vehicle Average Horsepower														
Conventional Cars														
Minicompact	218	218	217	217	217	218	218	218	219	219	220	220	220	0.3%
Subcompact	186	186	188	189	189	189	190	190	190	191	191	191	192	0.7%
Compact	173	174	172	172	173	173	173	173	173	174	174	174	174	0.4%
Midsize	220	219	218	219	219	219	220	220	220	221	221	221	221	0.6%
Large	260	262	260	261	262	262	262	263	263	264	264	264	265	0.5%
Two Seater	301	301	299	300	301	301	302	303	303	304	305	306	307	0.3%
Average New Car	215	215	214	215	215	215	216	216	216	216	217	217	217	0.5%
Conventional Light Trucks														
Small Pickup	230	230	229	229	229	229	230	230	230	230	231	231	231	0.3%
Large Pickup	299	299	300	300	300	300	301	301	302	303	304	305	306	0.4%
Small Van	218	219	221	222	222	223	223	224	224	225	225	226	226	0.6%
Large Van	239	240	239	240	240	240	240	240	241	241	241	242	242	0.3%
Small Utility	202	202	203	203	203	203	203	204	204	205	205	205	206	0.3%
Large Utility	280	280	282	283	283	283	283	284	285	285	286	286	287	0.4%
Average New Light Truck	250	250	251	252	252	252	252	252	253	254	254	255	255	0.4%
New Vehicle Average Weight														
Conventional Cars														
Minicompact	3040	3018	2969	2972	2975	2978	2981	2984	2987	2990	2993	2996	2999	-0.2%
Subcompact	2855	2834	2805	2806	2809	2812	2815	2817	2820	2823	2826	2829	2831	-0.2%
Compact	2892	2878	2847	2846	2849	2852	2855	2858	2861	2863	2866	2869	2872	-0.2%
Midsize	3285	3244	3215	3216	3219	3222	3226	3229	3232	3235	3239	3242	3245	-0.1%
Large	3648	3619	3583	3583	3586	3590	3593	3597	3600	3604	3607	3610	3613	-0.1%
Two Seater	3092	3070	3045	3046	3049	3052	3055	3058	3061	3064	3067	3069	3072	-0.1%
Average New Car	3208	3175	3144	3152	3150	3154	3158	3160	3164	3166	3169	3172	3175	-0.1%
Conventional Light Trucks														
Small Pickup	4215	4211	4190	4191	4192	4196	4198	4201	4205	4211	4217	4223	4229	0.0%
Large Pickup	5498	5499	5495	5498	5503	5504	5507	5511	5518	5525	5533	5541	5549	0.1%
Small Van	4354	4357	4318	4323	4328	4333	4338	4342	4347	4352	4357	4361	4365	-0.1%
Large Van	4728	4732	4716	4721	4725	4728	4730	4732	4735	4741	4746	4751	4757	0.0%
Small Utility	3876	3874	3846	3849	3852	3851	3851	3852	3855	3859	3864	3868	3872	-0.1%
Large Utility	5084	5086	5072	5077	5082	5084	5085	5085	5089	5095	5101	5107	5113	0.0%
Average New Light Truck	4675	4677	4659	4660	4665	4667	4668	4670	4674	4680	4686	4692	4697	0.0%
Average Weight for the Stock														
Conventional Cars	3344	3333	3322	3310	3298	3286	3275	3264	3254	3245	3236	3228	3222	-0.2%
Conventional Light Trucks	4671	4677	4680	4682	4683	4682	4684	4683	4682	4682	4682	4683	4683	0.3%

Table 51. Summary of New Light-Duty Vehicle Size Class Attributes

1/ Conversion factor used to convert Environmental Protection Agency rated to "on road" miles per gallon.

2/ Environmental Protection Agency rated miles per gallon.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: National Highway Traffic and Safety Administration, Final Fuel Economy Reports from Auto Manufacturers; Federal Highway Administration, Highway Statistics 2006 (Washington, DC, 2007); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 52. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (trillion Btu)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	337.34	409.41	480.63	531.90	578.04	576.12	583.19	588.86	592.86	588.20	574.50	551.32	523.93
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	5.30	6.42	7.65	8.57	9.40	10.27	10.36	10.39	10.43	10.40	10.23	9.90	9.48
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.74	0.76	0.78	0.79	0.82	0.85	0.86	0.87	0.87	0.86	0.84	0.81	0.78
Compressed Natural Gas Bi-fuel	1.08	1.27	1.44	1.61	1.78	1.93	2.05	2.14	2.19	2.19	2.16	2.13	2.09
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.41	0.34	0.21	0.18	0.17	0.15	0.15	0.14	0.11	0.11	0.10	0.10	0.10
Electric	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	344.93	418.27	490.77	543.10	590.24	589.35	596.63	602.42	606.49	601.77	587.85	564.29	536.39
Light Trucks 1/													
Conventional Gasoline	462.30	570.62	663.37	707.55	739.47	759.88	676.89	645.87	639.01	632.14	620.73	608.96	597.01
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	18.38	21.98	24.43	24.90	24.90	24.54	23.17	21.94	21.47	21.24	20.96	20.59	20.20
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	2.11	2.35	2.45	2.53	2.41	2.39	2.39	2.35	2.31	2.27	2.17	2.08	2.02
Compressed Natural Gas Bi-fuel	4.77	5.45	5.74	6.00	5.78	5.81	5.85	5.80	5.75	5.66	5.44	5.21	5.06
Liquefied Petroleum Gases	1.50	1.31	1.12	0.90	0.70	0.49	0.35	0.22	0.13	0.08	0.07	0.07	0.07
Liquefied Petroleum Gases Bi-fuel	7.70	6.87	5.96	4.74	3.65	2.37	1.63	0.92	0.42	0.15	0.10	0.09	0.08
Electric	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	496.82	608.65	703.13	746.68	776.96	795.54	710.33	677.15	669.14	661.58	649.49	637.04	624.46
Total Fleet Vehicles	841.75	1026.92	1193.91	1289.78	1367.21	1384.89	1306.96	1279.57	1275.63	1263.35	1237.34	1201.33	1160.85
Commercial Light Trucks 2/	610.08	617.92	619.93	606.07	606.75	615.86	625.14	631.15	632.68	633.53	635.09	637.53	636.81

Table 52. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (trillion Btu)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	497.84	476.31	461.20	451.81	448.62	449.16	452.41	457.32	462.55	467.84	473.15	478.41	483.80	0.7%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	9.01	8.63	8.33	8.14	8.06	8.02	8.05	8.12	8.21	8.30	8.39	8.48	8.57	1.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	0.75	0.73	0.71	0.69	0.68	0.67	0.67	0.68	0.68	0.69	0.69	0.70	0.70	-0.3%
Compressed Natural Gas Bi-fuel	2.05	2.01	1.97	1.93	1.90	1.89	1.88	1.89	1.90	1.91	1.92	1.93	1.95	1.8%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases Bi-fuel	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-5.3%
Electric	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	-4.9%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	509.77	487.79	472.31	462.68	459.35	459.85	463.12	468.11	473.45	478.84	484.26	489.62	495.13	0.7%
Light Trucks 1/														
Conventional Gasoline	582.35	568.55	551.99	538.85	528.95	522.86	519.50	521.06	522.19	524.61	527.91	531.42	535.60	-0.3%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	19.73	19.30	18.78	18.37	18.07	17.81	17.66	17.64	17.67	17.74	17.84	17.95	18.08	-0.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	1.96	1.90	1.85	1.80	1.76	1.74	1.73	1.73	1.73	1.73	1.73	1.74	1.74	-1.2%
Compressed Natural Gas Bi-fuel	4.92	4.77	4.64	4.50	4.42	4.38	4.35	4.34	4.33	4.33	4.34	4.35	4.36	-0.9%
Liquefied Petroleum Gases	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	-11.6%
Liquefied Petroleum Gases Bi-fuel	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-18.5%
Electric	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	-3.9%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Trucks	609.12	594.68	577.41	563.67	553.35	546.93	543.39	544.91	546.06	548.56	551.96	555.60	559.94	-0.3%
Total Fleet Vehicles	1118.89	1082.46	1049.73	1026.34	1012.70	1006.78	1006.51	1013.03	1019.51	1027.39	1036.22	1045.22	1055.07	0.1%
Commercial Light Trucks 2/	635.49	633.99	631.20	630.25	628.24	627.94	627.77	627.22	629.34	631.86	634.52	638.18	643.25	0.2%

Table 52. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (trillion Btu)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 53. Transportation Fleet Car and Truck Sales by Type and Technology (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	1492.37	1410.00	1420.61	1397.82	1409.15	1442.20	1490.28	1518.91	1508.64	1485.18	1455.80	1428.60	1409.73
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	22.42	21.18	21.34	21.00	21.17	21.66	22.39	22.82	22.66	22.31	21.87	21.46	21.18
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	1.15	1.09	1.10	1.08	1.09	1.11	1.15	1.17	1.17	1.15	1.13	1.10	1.09
Compressed Natural Gas Bi-fuel	2.16	2.04	2.06	2.03	2.04	2.09	2.16	2.20	2.19	2.15	2.11	2.07	2.04
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.17	0.16	0.17	0.16	0.16	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.16
Electric	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	1518.36	1434.56	1445.35	1422.17	1433.69	1467.32	1516.24	1545.37	1534.92	1511.05	1481.16	1453.48	1434.29
Light Trucks 1/													
Conventional Gasoline	1222.13	1386.14	1188.93	986.88	969.52	999.23	1014.84	1019.15	1038.90	1035.31	1053.65	1052.58	1045.45
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	38.90	44.12	37.84	31.41	30.86	31.80	32.30	32.44	33.07	32.95	33.54	33.50	33.28
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	2.04	2.31	1.98	1.65	1.62	1.67	1.69	1.70	1.73	1.73	1.76	1.75	1.74
Compressed Natural Gas Bi-fuel	4.28	4.85	4.16	3.46	3.40	3.50	3.55	3.57	3.64	3.63	3.69	3.69	3.66
Liquefied Petroleum Gases	0.06	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Liquefied Petroleum Gases Bi-fuel	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Electric	0.08	0.10	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	1267.54	1437.64	1233.10	1023.54	1005.54	1036.35	1052.54	1057.01	1077.50	1073.78	1092.80	1091.69	1084.30
Total Fleet Vehicles	2785.90	2872.20	2678.45	2445.71	2439.23	2503.67	2568.78	2602.38	2612.42	2584.83	2573.96	2545.18	2518.58
Commercial Light Trucks 2/	663.61	632.03	610.83	571.82	591.65	616.17	650.00	661.06	663.46	655.69	655.64	656.89	650.58

Table 53. Transportation Fleet Car and Truck Sales by Type and Technology (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	1408.68	1419.26	1446.31	1449.98	1469.70	1489.32	1506.05	1524.55	1543.46	1561.12	1578.98	1596.86	1617.37	0.6%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	21.16	21.32	21.73	21.78	22.08	22.37	22.62	22.90	23.19	23.45	23.72	23.99	24.30	0.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	1.09	1.10	1.12	1.12	1.14	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.25	0.6%
Compressed Natural Gas Bi-fuel	2.04	2.06	2.10	2.10	2.13	2.16	2.18	2.21	2.24	2.26	2.29	2.32	2.35	0.6%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Liquefied Petroleum Gases Bi-fuel	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.6%
Electric	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.6%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	1433.22	1443.98	1471.50	1475.24	1495.30	1515.26	1532.28	1551.11	1570.34	1588.31	1606.48	1624.68	1645.54	0.6%
Light Trucks 1/														
Conventional Gasoline	1031.76	1020.68	1001.37	1020.30	1021.70	1025.07	1033.87	1042.11	1052.26	1063.65	1071.59	1079.09	1090.42	-1.0%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	32.84	32.49	31.87	32.47	32.52	32.63	32.91	33.17	33.49	33.85	34.11	34.35	34.71	-1.0%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	1.72	1.70	1.67	1.70	1.70	1.71	1.72	1.74	1.75	1.77	1.79	1.80	1.82	-1.0%
Compressed Natural Gas Bi-fuel	3.61	3.57	3.51	3.57	3.58	3.59	3.62	3.65	3.68	3.72	3.75	3.78	3.82	-1.0%
Liquefied Petroleum Gases	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-1.0%
Liquefied Petroleum Gases Bi-fuel	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.0%
Electric	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	-1.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Trucks	1070.09	1058.60	1038.57	1058.21	1059.66	1063.15	1072.28	1080.83	1091.36	1103.17	1111.40	1119.19	1130.93	-1.0%
Total Fleet Vehicles	2503.31	2502.58	2510.07	2533.45	2554.96	2578.41	2604.56	2631.94	2661.70	2691.48	2717.88	2743.86	2776.47	-0.1%
Commercial Light Trucks 2/	646.17	645.13	645.11	652.48	657.61	663.44	670.35	677.54	685.40	693.45	700.38	707.22	715.87	0.5%

Table 53. Transportation Fleet Car and Truck Sales by Type and Technology (thousands)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 54. Transportation Fleet Car and Truck Stock by Type and Technology (thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	4302.50	4820.95	5301.25	5712.80	6060.95	5933.31	6025.41	6141.45	6235.94	6282.16	6259.21	6182.11	6087.88
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	64.70	73.04	81.51	88.70	95.59	103.01	104.17	105.70	107.32	108.38	108.48	107.50	105.90
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	10.18	9.83	9.55	9.34	9.28	9.34	9.46	9.62	9.68	9.65	9.60	9.58	9.53
Compressed Natural Gas Bi-fuel	14.71	15.58	16.47	17.35	18.30	19.33	20.34	21.32	21.97	22.27	22.42	22.66	22.80
Liquefied Petroleum Gases	3.04	2.22	1.12	0.77	0.56	0.38	0.29	0.20	0.05	0.02	0.01	0.01	0.00
Liquefied Petroleum Gases Bi-fuel	5.45	4.20	2.44	1.98	1.76	1.57	1.51	1.43	1.19	1.16	1.14	1.15	1.15
Electric	2.30	2.06	1.75	1.43	1.16	0.98	0.87	0.80	0.80	0.79	0.76	0.72	0.59
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	4402.88	4927.89	5414.10	5832.37	6187.60	6067.93	6162.05	6280.53	6376.96	6424.43	6401.61	6323.73	6227.85
Light Trucks 1/													
Conventional Gasoline	4197.04	4822.44	5269.79	5467.82	5587.93	5664.25	5070.27	4908.93	4955.88	5018.68	5072.46	5109.69	5134.69
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	178.74	190.31	196.05	193.42	188.53	183.14	174.09	167.13	166.71	168.54	170.53	171.86	172.69
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	19.20	20.22	20.38	20.53	19.11	18.69	18.56	18.47	18.51	18.53	18.25	17.97	17.88
Compressed Natural Gas Bi-fuel	40.32	42.98	43.80	44.62	42.14	41.74	41.89	42.02	42.37	42.61	42.02	41.36	41.14
Liquefied Petroleum Gases	13.29	10.80	8.98	7.01	5.48	3.74	2.69	1.69	1.00	0.61	0.58	0.60	0.61
Liquefied Petroleum Gases Bi-fuel	66.27	53.55	44.18	34.12	26.30	17.42	11.99	6.84	3.20	1.13	0.79	0.74	0.63
Electric	1.78	1.68	1.56	1.43	1.34	1.27	1.22	1.17	1.03	0.90	0.80	0.73	0.65
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	4516.64	5141.99	5584.75	5768.95	5870.82	5930.26	5320.72	5146.26	5188.70	5251.01	5305.42	5342.96	5368.29
Total Fleet Vehicles	8919.52	10069.88	10998.85	11601.32	12058.43	11998.19	11482.77	11426.79	11565.65	11675.44	11707.03	11666.68	11596.15
Commercial Light Trucks 2/													
	7792.46	7621.97	7566.94	7554.70	7607.39	7706.56	7845.18	7992.32	8134.61	8259.24	8372.55	8475.53	8560.97

Table 54. Transportation Fleet Car and Truck Stock by Type and Technology (thousands)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	6008.89	5966.48	5976.70	6009.47	6066.24	6135.82	6200.87	6277.44	6353.18	6429.19	6505.65	6581.46	6659.25	1.4%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	104.45	103.53	103.45	103.81	104.70	105.88	107.13	108.29	109.65	110.97	112.28	113.60	114.95	1.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	9.55	9.55	9.58	9.58	9.60	9.65	9.70	9.77	9.84	9.91	9.99	10.08	10.18	0.1%
Compressed Natural Gas Bi-fuel	23.16	23.42	23.72	23.74	23.78	23.88	23.98	24.10	24.21	24.32	24.47	24.65	24.87	2.0%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-33.5%
Liquefied Petroleum Gases Bi-fuel	1.16	1.16	1.17	1.17	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.26	-4.9%
Electric	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.63	0.63	-4.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	6147.80	6104.73	6115.21	6148.36	6206.08	6277.00	6343.46	6421.40	6498.69	6576.23	6654.25	6731.66	6811.15	1.4%
Light Trucks 1/														
Conventional Gasoline	5127.76	5112.00	5060.68	5029.47	5006.94	5000.98	5014.56	5053.45	5085.55	5126.91	5172.52	5216.94	5264.31	0.4%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	172.65	172.12	170.66	169.66	168.88	168.56	168.89	169.94	171.14	172.47	173.95	175.44	177.03	-0.3%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	17.79	17.61	17.46	17.24	17.14	17.15	17.19	17.23	17.27	17.34	17.41	17.49	17.57	-0.6%
Compressed Natural Gas Bi-fuel	40.88	40.42	40.05	39.50	39.25	39.29	39.38	39.47	39.57	39.70	39.84	40.01	40.18	-0.3%
Liquefied Petroleum Gases	0.62	0.63	0.65	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	-11.0%
Liquefied Petroleum Gases Bi-fuel	0.55	0.50	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.49	-17.8%
Electric	0.65	0.67	0.69	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	-3.6%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Trucks	5360.91	5343.94	5290.68	5257.67	5234.00	5227.78	5241.82	5281.88	5315.34	5358.23	5405.53	5451.70	5500.92	0.3%
Total Fleet Vehicles	11508.71	11448.67	11405.88	11406.02	11440.08	11504.77	11585.28	11703.28	11814.03	11934.46	12059.78	12183.36	12312.07	0.8%
Commercial Light Trucks 2/	8632.43	8693.86	8746.79	8799.16	8849.26	8898.09	8947.00	8995.41	9045.35	9098.06	9153.29	9212.00	9277.00	0.8%

Table 54. Transportation Fleet Car and Truck Stock by Type and Technology (thousands)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data); and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 55. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (billion miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cars 1/													
Conventional Gasoline	65.07	79.94	93.55	105.72	116.95	118.27	121.68	124.13	126.12	127.03	126.49	124.85	122.90
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	0.98	1.21	1.44	1.64	1.84	2.05	2.10	2.14	2.17	2.19	2.19	2.17	2.14
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.20	0.20	0.19	0.19	0.19
Compressed Natural Gas Bi-fuel	0.22	0.26	0.29	0.32	0.35	0.39	0.41	0.43	0.44	0.45	0.45	0.46	0.46
Liquefied Petroleum Gases	0.05	0.04	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-fuel	0.08	0.07	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
Electric	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	66.59	81.71	95.55	107.93	119.40	120.95	124.44	126.95	128.97	129.91	129.37	127.71	125.73
Light Trucks 1/													
Conventional Gasoline	63.47	79.96	93.00	101.19	107.83	112.90	102.39	99.22	100.23	101.48	102.51	103.19	103.66
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	2.70	3.16	3.46	3.58	3.64	3.65	3.52	3.38	3.37	3.41	3.45	3.47	3.49
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.29	0.34	0.36	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36
Compressed Natural Gas Bi-fuel	0.61	0.71	0.77	0.83	0.81	0.83	0.85	0.85	0.86	0.86	0.85	0.84	0.83
Liquefied Petroleum Gases	0.20	0.18	0.16	0.13	0.11	0.07	0.05	0.03	0.02	0.01	0.01	0.01	0.01
Liquefied Petroleum Gases Bi-fuel	1.00	0.89	0.78	0.63	0.51	0.35	0.24	0.14	0.06	0.02	0.02	0.01	0.01
Electric	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Truck	68.31	85.26	98.56	106.76	113.28	118.21	107.45	104.02	104.94	106.18	107.21	107.90	108.37
Total Fleet Vehicles	134.89	166.97	194.10	214.69	232.68	239.16	231.88	230.97	233.91	236.08	236.58	235.61	234.10
Commercial Light Trucks 2/	68.60	70.50	71.62	70.68	71.43	73.13	74.96	76.58	77.85	79.10	80.64	82.27	83.67

Table 55. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (billion miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Cars 1/														
Conventional Gasoline	121.29	120.45	120.69	121.40	122.58	124.01	125.33	126.89	128.43	129.97	131.52	133.05	134.62	2.2%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	2.11	2.09	2.09	2.10	2.12	2.14	2.17	2.19	2.22	2.24	2.27	2.30	2.32	2.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.21	1.0%
Compressed Natural Gas Bi-fuel	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	2.8%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-32.9%
Liquefied Petroleum Gases Bi-fuel	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	-4.1%
Electric	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-4.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Cars	124.10	123.25	123.49	124.21	125.41	126.87	128.21	129.80	131.37	132.94	134.52	136.09	137.69	2.2%
Light Trucks 1/														
Conventional Gasoline	103.51	103.20	102.20	101.60	101.18	101.08	101.35	102.15	102.80	103.64	104.57	105.46	106.42	1.2%
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol														
Flex	3.49	3.47	3.45	3.43	3.41	3.41	3.41	3.44	3.46	3.49	3.52	3.55	3.58	0.5%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compressed Natural Gas	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.2%
Compressed Natural Gas Bi-fuel	0.83	0.82	0.81	0.80	0.79	0.79	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.5%
Liquefied Petroleum Gases	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10.3%
Liquefied Petroleum Gases Bi-fuel	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-17.1%
Electric	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Total Fleet Light Truck	108.21	107.89	106.84	106.21	105.77	105.66	105.95	106.77	107.45	108.32	109.28	110.21	111.21	1.1%
Total Fleet Vehicles	232.31	231.13	230.33	230.42	231.17	232.52	234.16	236.57	238.82	241.26	243.80	246.30	248.90	1.7%
Commercial Light Trucks 2/	85.02	86.19	87.41	88.73	90.02	91.38	92.77	94.27	95.75	97.19	98.54	99.90	101.39	1.5%

Table 55. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (billion miles)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 56. Air Travel Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cost (1987 dollars per million Btu)	8.4	9.3	9.4	9.9	10.2	9.9	9.7	9.2	8.8	8.6	8.3	8.0	8.0
Yield-domestic (ticket price) 1/	10.2	10.5	10.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.7	10.7	10.7
Yield-international (1996 dollars) 1/	9.3	9.6	9.7	9.7	9.6	9.6	9.6	9.6	9.6	9.6	9.7	9.7	9.7
Yield-Non U.S. (1996 dollars) 1/ 4/	9.3	9.6	9.7	9.7	9.6	9.6	9.6	9.6	9.6	9.6	9.7	9.7	9.7
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	584.0	568.5	566.7	575.5	588.7	611.5	635.3	651.6	658.3	667.6	677.4	688.2	698.6
Load Factor, Domestic 2/	0.77	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81
Revenue Passenger Miles, International	210.7	217.9	238.2	257.7	278.5	301.4	326.2	347.4	364.0	378.3	392.7	406.5	420.2
Load Factor, International 2/	0.78	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Revenue Passenger Miles, Non U.S.	1702.0	1833.8	1830.9	1880.1	1952.9	2036.3	2132.1	2233.6	2337.5	2442.7	2548.5	2663.9	2783.8
Load Factor, Non U.S. 2/	0.78	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Revenue Ton Miles, Freight US (billion)	37.5	37.4	36.8	37.9	39.1	39.9	40.7	41.8	43.2	45.0	47.1	49.3	51.6
Revenue Ton Miles, Freight Non US (billion)	37.5	37.5	41.2	42.8	44.5	45.8	47.2	48.9	51.0	53.6	56.6	59.8	63.1
Revenue Ton Miles, Freight World (billion)	0.0	0.0	78.1	80.7	83.7	85.7	87.8	90.6	94.1	98.6	103.7	109.1	114.7
Seat Miles Demanded (billion)													
Narrow Body Aircraft - US	628.5	608.2	607.6	619.0	635.7	662.5	690.9	714.7	725.2	737.8	750.8	764.7	778.1
Wide Body Aircraft - US	284.7	277.4	293.8	311.1	330.2	352.4	376.7	397.1	411.8	424.6	437.6	450.2	462.7
Regional Jets - US	115.4	108.2	106.9	108.2	110.6	115.0	119.7	123.7	125.3	127.5	129.8	132.3	134.8
US Total Seat Miles Demanded	1028.6	993.8	1008.3	1038.3	1076.5	1130.0	1187.2	1235.5	1262.3	1289.9	1318.2	1347.2	1375.6
Narrow Body Aircraft - Non US	1435.6	1522.1	1482.3	1500.6	1543.1	1596.5	1661.1	1730.9	1803.1	1876.6	1950.8	2032.5	2117.5
Wide Body Aircraft - Non US	614.8	649.5	644.4	658.4	680.8	706.9	737.1	769.2	801.9	834.9	867.8	903.9	941.1
Regional Jets - Non US	258.8	256.9	253.6	259.7	269.9	282.1	296.4	311.8	327.8	344.4	361.3	379.8	399.3
Non US Total Seat Miles Demanded	2309.2	2428.5	2380.3	2418.6	2493.8	2585.5	2694.6	2811.9	2932.9	3055.8	3179.9	3316.1	3457.9
Narrow Body Aircraft - World	2064.1	2130.3	2090.0	2119.6	2178.8	2259.1	2352.0	2445.6	2528.4	2614.4	2701.5	2797.1	2895.6
Wide Body Aircraft - World	899.5	926.9	938.2	969.5	1011.0	1059.3	1113.8	1166.3	1213.7	1259.5	1305.5	1354.1	1403.8
Regional Jets - World	374.2	365.0	360.5	367.9	380.5	397.1	416.0	435.4	453.2	471.9	491.1	512.2	534.1
World Total Seat Miles Demanded	3337.8	3422.2	3388.7	3457.0	3570.3	3715.4	3881.8	4047.3	4195.3	4345.7	4498.1	4663.3	4833.5
Aircraft Sales													
Narrow Body Aircraft - US	120.0	136.0	142.8	144.2	144.5	153.4	156.4	149.7	142.4	137.3	135.3	135.1	131.4
Wide Body Aircraft - US	10.0	17.0	37.8	38.5	38.9	41.7	42.8	41.3	39.7	38.5	38.3	38.5	37.8
Regional Jets - US	192.0	94.0	105.0	105.7	105.6	111.8	113.6	108.4	102.8	98.7	97.0	96.5	93.6
US Total Aircraft Sales	322.0	247.0	285.5	288.4	289.0	306.9	312.8	299.5	284.8	274.5	270.7	270.1	262.9
Narrow Body Aircraft - Non US	383.0	506.0	390.9	366.0	355.8	324.0	314.6	305.9	295.7	300.3	303.6	323.8	346.7
Wide Body Aircraft - Non US	142.0	171.0	103.4	97.7	95.8	88.0	86.2	84.5	82.3	84.3	86.0	92.4	99.7
Regional Jets - Non US	92.0	123.0	287.5	268.3	260.0	236.0	228.4	221.5	213.4	216.0	217.7	231.4	246.9
Non US Total Aircraft Sales	617.0	800.0	781.8	731.9	711.7	648.0	629.2	611.9	591.4	600.5	607.3	647.6	693.3
Narrow Body Aircraft - World	503.0	642.0	533.7	510.2	500.3	477.5	471.0	455.7	438.1	437.5	439.0	458.9	478.1
Wide Body Aircraft - World	152.0	188.0	141.2	136.2	134.7	129.6	129.0	125.8	122.0	122.8	124.3	131.0	137.5
Regional Jets - World	284.0	217.0	392.4	374.0	365.6	347.8	342.0	329.8	316.1	314.7	314.7	327.9	340.6
World Total Aircraft Sales	939.0	1047.0	1067.3	1020.4	1000.7	954.9	942.0	911.3	876.3	875.1	878.0	917.7	956.2

Table 56. Air Travel Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Aircraft Stock													
Narrow Body Aircraft - US	4707.0	4537.0	4562.2	4615.5	4673.3	4751.3	4834.3	4909.0	4966.0	5019.5	5054.1	5096.3	5165.6
Wide Body Aircraft - US	1371.0	1378.0	1391.6	1402.0	1408.9	1414.8	1419.0	1427.3	1437.2	1443.6	1451.7	1459.4	1466.5
Regional Jets - US	2009.0	2047.0	2101.0	2172.4	2248.9	2338.7	2429.2	2510.0	2571.8	2629.3	2684.2	2736.5	2783.1
US Total Aircraft Stock	8087.0	7962.0	8054.8	8189.9	8331.0	8504.8	8682.5	8846.3	8974.9	9092.4	9190.1	9292.2	9415.2
Narrow Body Aircraft - Non US	6756.0	7299.0	7642.6	7938.1	8205.8	8422.1	8621.4	8812.7	9005.8	9193.1	9378.3	9566.9	9754.2
Wide Body Aircraft - Non US	3077.0	3187.0	3263.2	3328.6	3386.5	3431.1	3468.7	3492.5	3505.3	3517.2	3523.1	3529.8	3538.0
Regional Jets - Non US	1469.0	1594.0	1887.0	2146.0	2388.1	2594.3	2788.0	2972.3	3153.8	3327.2	3498.7	3678.2	3866.1
Non US Total Aircraft Stock	11302.0	12080.0	12792.9	13412.8	13980.4	14447.5	14878.2	15277.5	15664.9	16037.5	16400.1	16774.9	17158.3
Narrow Body Aircraft - World	11463.0	11836.0	12204.8	12553.7	12879.1	13173.4	13455.7	13721.7	13971.8	14212.6	14432.5	14663.2	14919.8
Wide Body Aircraft - World	4448.0	4565.0	4654.8	4730.6	4795.4	4845.9	4887.7	4919.8	4942.4	4960.9	4974.8	4989.2	5004.5
Regional Jets - World	3478.0	3641.0	3988.0	4318.4	4636.9	4933.0	5217.2	5482.3	5725.6	5956.5	6182.9	6414.7	6649.2
World Total Aircraft Stock	19389.0	20042.0	20847.7	21602.7	22311.4	22952.2	23560.7	24123.8	24639.9	25130.0	25590.2	26067.1	26573.5
Aircraft Active Stock													
Narrow Body Aircraft - US	3941.0	3969.0	4007.6	4085.3	4179.5	4324.8	4482.9	4622.6	4696.2	4788.2	4890.3	5002.1	5104.3
Wide Body Aircraft - US	1114.0	1184.0	1221.5	1255.2	1287.1	1320.7	1354.6	1380.2	1393.6	1402.3	1411.1	1419.1	1426.5
Regional Jets - US	1898.0	1929.0	1892.1	1900.9	1928.4	1989.3	2053.9	2106.2	2118.0	2138.4	2160.3	2185.7	2209.8
US Total Aircraft Active Stock	6953.0	7082.0	7121.2	7241.4	7395.0	7634.8	7891.3	8108.9	8207.7	8328.9	8461.7	8607.0	8740.6
Narrow Body Aircraft - Non US	6334.0	6902.0	7373.9	7722.3	8020.9	8278.0	8509.7	8710.6	8908.0	9109.7	9316.0	9519.9	9717.2
Wide Body Aircraft - Non US	2915.0	3056.0	3167.0	3265.7	3346.8	3403.1	3445.3	3470.5	3485.6	3497.7	3504.7	3514.5	3525.7
Regional Jets - Non US	1273.0	1418.0	1677.3	1915.3	2142.3	2342.2	2531.1	2709.5	2876.5	3042.7	3207.5	3382.9	3570.4
Non US Total Aircraft Active Stock	10522.0	11376.0	12218.3	12903.4	13510.0	14023.4	14486.1	14890.6	15270.1	15650.2	16028.1	16417.3	16813.4
Narrow Body Aircraft - World	10275.0	10871.0	11381.5	11807.6	12200.4	12602.8	12992.6	13333.3	13604.2	13897.8	14206.3	14522.0	14821.5
Wide Body Aircraft - World	4029.0	4240.0	4388.5	4520.9	4634.0	4723.8	4799.9	4850.7	4879.2	4900.0	4915.8	4933.6	4952.3
Regional Jets - World	3171.0	3347.0	3569.5	3816.2	4070.7	4331.5	4584.9	4815.6	4994.5	5181.1	5367.8	5568.6	5780.2
World Total Aircraft Active Stock	17475.0	18458.0	19339.4	20144.8	20905.1	21658.2	22377.4	22999.5	23477.8	23979.0	24489.9	25024.2	25553.9
Aircraft Parked Stock													
Narrow Body Aircraft - US	766.0	568.0	554.6	530.2	493.8	426.5	351.4	286.3	269.8	231.3	163.8	94.2	61.3
Wide Body Aircraft - US	257.0	194.0	170.1	146.7	121.7	94.0	64.4	47.1	43.6	41.3	40.6	40.3	40.0
Regional Jets - US	111.0	118.0	208.9	271.5	320.5	349.4	375.3	403.9	453.8	490.9	523.9	550.8	573.3
US Total Aircraft Parked Stock	1134.0	880.0	933.6	948.5	935.9	870.0	791.2	737.3	767.2	763.6	728.3	685.3	674.6
Narrow Body Aircraft - Non US	422.0	397.0	268.7	215.8	184.9	144.0	111.7	102.1	97.8	83.4	62.3	47.0	37.0
Wide Body Aircraft - Non US	162.0	131.0	96.2	62.9	39.7	28.0	23.4	22.0	19.7	19.5	18.4	15.3	12.3
Regional Jets - Non US	196.0	176.0	209.6	230.7	245.8	252.1	256.9	262.8	277.3	284.4	291.2	295.3	295.7
Non US Total Aircraft Parked Stock	780.0	704.0	574.6	509.4	470.4	424.1	392.1	386.9	394.8	387.4	372.0	357.6	344.9
Narrow Body Aircraft - World	1188.0	965.0	823.3	746.0	678.7	570.6	463.1	388.4	367.6	314.8	226.2	141.2	98.3
Wide Body Aircraft - World	419.0	325.0	266.3	209.7	161.4	122.0	87.8	69.1	63.2	60.8	59.0	55.6	52.3
Regional Jets - World	307.0	294.0	418.5	502.2	566.2	601.5	632.3	666.7	731.1	775.3	815.1	846.1	869.0
World Total Aircraft Parked Stock	1914.0	1584.0	1508.2	1457.9	1406.3	1294.0	1183.2	1124.2	1162.0	1151.0	1100.3	1042.9	1019.6
Aircraft Cargo Stock													
Narrow Body Aircraft - US	626.0	574.0	642.2	681.5	708.4	730.5	757.0	792.3	837.1	881.8	920.4	961.5	1002.2
Wide Body Aircraft - US	604.0	651.0	655.7	655.0	648.8	638.1	623.7	608.9	593.8	577.9	561.7	545.8	529.5
Regional Jets - US	1.0	1.0	1.4	1.3	1.2	1.2	1.1	1.1	1.3	1.4	1.6	2.0	2.4
US Total Aircraft Cargo Stock	1231.0	1226.0	1299.3	1337.8	1358.4	1369.8	1381.8	1402.4	1432.1	1461.1	1483.7	1509.3	1534.1
Narrow Body Aircraft - Non US	379.0	398.0	538.1	643.7	721.4	779.4	819.5	851.0	883.1	926.8	985.2	1061.5	1153.7
Wide Body Aircraft - Non US	382.0	409.0	436.1	459.6	478.7	494.1	505.5	514.9	524.7	538.5	556.3	578.0	605.1
Regional Jets - Non US	34.0	33.0	36.8	40.0	42.4	44.1	45.2	45.9	46.3	46.4	46.7	47.2	48.2
Non US Total Aircraft Cargo Stock	795.0	840.0	1010.9	1143.3	1242.5	1317.6	1370.2	1411.8	1454.2	1511.7	1588.2	1686.7	1807.0
Narrow Body Aircraft - World	1005.0	972.0	1180.3	1325.2	1429.7	1509.9	1576.5	1643.3	1720.2	1808.6	1905.6	2023.0	2155.9
Wide Body Aircraft - World	986.0	1060.0	1091.7	1114.6	1127.5	1132.2	1129.1	1123.8	1118.5	1116.4	1118.0	1123.8	1134.6
Regional Jets - World	35.0	34.0	38.2	41.3	43.6	45.3	46.4	47.0	47.6	47.8	48.3	49.2	50.6
World Total Aircraft Cargo Stock	2026.0	2066.0	2310.3	2481.1	2600.9	2687.4	2752.0	2814.2	2886.2	2972.8	3071.9	3196.0	3341.1

Table 56. Air Travel Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.62	0.79	0.87	0.93	0.95	0.97	0.98	0.99	0.99	1.00
Propfan	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weight Reducing Materials	0.00	0.00	0.01	0.02	0.04	0.08	0.14	0.25	0.40	0.57	0.73	0.85	0.92
New Aircraft Efficiency 3/ 5/													
Narrow Body Aircraft	65.4	66.1	66.6	66.8	67.0	67.2	67.4	67.6	67.8	68.0	68.2	68.5	68.7
Wide Body Aircraft	63.6	64.2	64.1	64.3	64.4	64.6	64.8	65.0	65.2	65.4	65.6	65.8	66.0
Regional Jets	43.1	43.5	43.8	43.9	44.0	44.2	44.3	44.4	44.6	44.7	44.8	45.0	45.1
Average Aircraft	62.4	63.1	62.4	62.6	62.9	63.1	63.3	63.5	63.7	63.9	64.1	64.3	64.5
Aircraft Stock Efficiency 3/ 5/													
Narrow Body Aircraft	64.5	65.8	66.5	67.1	67.5	67.9	68.2	68.5	69.0	69.3	69.7	70.1	70.6
Wide Body Aircraft	60.1	61.4	61.8	62.3	62.7	63.1	63.3	63.7	64.3	64.8	65.3	65.8	66.3
Regional Jets	44.1	44.3	44.5	44.7	44.9	45.0	45.2	45.3	45.4	45.6	45.7	45.8	45.9
Average Aircraft	60.9	62.2	62.2	62.7	63.1	63.5	63.7	64.1	64.5	64.9	65.3	65.7	66.1
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel - US	2688.1	2614.0	2628.3	2683.3	2761.4	2870.2	2987.7	3087.2	3138.4	3198.1	3261.1	3326.4	3388.5
Jet Fuel - Non US	5358.4	5593.6	5658.4	5711.9	5855.4	6036.0	6255.6	6491.0	6723.9	6969.8	7218.1	7491.4	7770.3
Jet Fuel - World	8046.5	8207.6	8286.8	8395.3	8616.8	8906.2	9243.3	9578.2	9862.3	10168.0	10479.1	10817.8	11158.8
Aviation Gasoline - US	35.1	33.0	32.0	29.0	32.7	32.6	32.5	32.4	32.4	32.3	32.2	32.2	32.2
Military													
Jet Fuel - US	531.5	543.7	561.7	585.6	582.4	572.8	564.7	559.5	557.8	558.7	560.9	563.7	566.6

Table 56. Air Travel Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cost (1987 dollars per million Btu)	8.1	8.2	8.3	8.4	8.5	8.6	8.8	8.9	9.0	9.2	9.4	9.5	9.6	0.1%
Yield-domestic (ticket price) 1/	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8	10.8	0.1%
Yield-international (1996 dollars) 1/	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	0.1%
Yield-Non U.S. (1996 dollars) 1/ 4/	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	0.1%
Travel Demand (billion miles)														
Revenue Passenger Miles, Domestic	708.8	718.8	728.7	738.4	748.0	757.3	766.3	775.1	783.6	791.7	799.4	806.8	813.6	1.5%
Load Factor, Domestic 2/	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.1%
Revenue Passenger Miles, International	433.5	446.5	459.0	471.0	482.5	493.5	503.8	513.5	522.5	530.8	538.4	545.2	551.2	3.9%
Load Factor, International 2/	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.1%
Revenue Passenger Miles, Non U.S.	2905.6	3028.3	3151.3	3286.3	3426.6	3569.4	3713.3	3857.8	4012.7	4176.1	4347.4	4526.3	4713.0	4.0%
Load Factor, Non U.S. 2/	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.1%
Revenue Ton Miles, Freight US (billion)	54.0	56.4	58.9	61.5	64.2	66.9	69.9	73.1	76.4	80.0	83.8	87.7	91.7	3.8%
Revenue Ton Miles, Freight Non US (billion)	66.6	70.3	74.0	77.9	82.0	86.3	91.0	96.0	101.3	107.0	113.0	119.3	126.0	5.2%
Revenue Ton Miles, Freight World (billion)	120.6	126.7	132.9	139.4	146.2	153.3	160.8	169.1	177.7	187.0	196.8	207.0	217.7	--
Seat Miles Demanded (billion)														
Narrow Body Aircraft - US	791.3	804.1	816.7	829.0	840.9	852.5	863.6	874.3	884.5	894.2	903.2	911.7	919.5	1.7%
Wide Body Aircraft - US	474.9	486.7	498.1	509.1	519.6	529.6	539.1	547.9	556.1	563.7	570.5	576.5	581.8	3.1%
Regional Jets - US	137.2	139.7	142.1	144.5	146.9	149.2	151.5	153.8	156.0	158.1	160.2	162.2	164.1	1.8%
US Total Seat Miles Demanded	1403.4	1430.5	1456.9	1482.6	1507.4	1531.4	1554.3	1576.1	1596.7	1616.0	1633.9	1650.4	1665.4	2.2%
Narrow Body Aircraft - Non US	2204.0	2291.2	2378.6	2475.0	2575.2	2677.2	2779.9	2882.9	2993.5	3110.4	3232.9	3360.9	3494.5	3.5%
Wide Body Aircraft - Non US	978.8	1016.5	1054.1	1095.4	1138.2	1181.5	1224.9	1268.2	1314.6	1363.5	1414.5	1467.8	1523.1	3.6%
Regional Jets - Non US	419.4	439.9	460.8	483.7	507.7	532.5	557.8	583.6	611.3	640.8	671.8	704.5	738.9	4.5%
Non US Total Seat Miles Demanded	3602.2	3747.6	3893.5	4054.0	4221.2	4391.3	4562.7	4734.7	4919.5	5114.6	5319.2	5533.2	5756.5	3.7%
Narrow Body Aircraft - World	2995.3	3095.4	3195.3	3303.9	3416.2	3529.7	3643.6	3757.2	3878.1	4004.5	4136.1	4272.6	4414.0	3.1%
Wide Body Aircraft - World	1453.6	1503.2	1552.2	1604.5	1657.8	1711.2	1764.0	1816.1	1870.7	1927.1	1985.0	2044.3	2104.9	3.5%
Regional Jets - World	556.6	579.6	602.9	628.2	654.6	681.8	709.4	737.4	767.3	798.9	832.0	866.8	903.1	3.8%
World Total Seat Miles Demanded	5005.6	5178.1	5350.4	5536.6	5728.6	5922.6	6117.0	6310.7	6516.1	6730.6	6953.1	7183.7	7422.0	3.3%
Aircraft Sales														
Narrow Body Aircraft - US	127.5	122.5	117.8	112.7	108.2	102.6	98.6	97.0	96.2	96.7	98.1	101.3	108.6	-0.9%
Wide Body Aircraft - US	37.0	35.8	34.7	33.5	32.4	30.9	30.0	29.7	29.7	30.1	30.7	32.0	34.8	3.0%
Regional Jets - US	90.5	86.7	83.1	79.2	75.8	71.6	68.6	67.3	66.5	66.7	67.4	69.4	73.9	-1.0%
US Total Aircraft Sales	254.9	245.0	235.6	225.3	216.4	205.1	197.2	194.1	192.4	193.4	196.2	202.7	217.3	-0.5%
Narrow Body Aircraft - Non US	371.4	397.5	425.0	451.9	481.7	513.4	546.6	581.0	615.8	653.0	692.3	733.8	777.4	1.8%
Wide Body Aircraft - Non US	107.7	116.2	125.2	134.2	144.1	154.8	166.1	177.9	190.0	202.9	216.7	231.4	248.8	1.6%
Regional Jets - Non US	263.7	281.3	299.8	317.7	337.5	358.6	380.5	403.1	425.9	450.1	475.6	502.4	528.6	6.3%
Non US Total Aircraft Sales	742.7	795.1	849.9	903.7	963.3	1026.8	1093.2	1162.0	1231.6	1306.0	1384.6	1467.6	1554.8	2.8%
Narrow Body Aircraft - World	498.8	520.0	542.7	564.5	589.9	616.0	645.2	678.0	712.0	749.7	790.4	835.1	886.1	1.4%
Wide Body Aircraft - World	144.7	152.0	159.9	167.6	176.5	185.7	196.0	207.6	219.6	233.0	247.5	263.4	283.5	1.7%
Regional Jets - World	354.2	368.0	382.8	396.9	413.4	430.2	449.2	470.5	492.4	516.7	543.0	571.7	602.5	4.3%
World Total Aircraft Sales	997.7	1040.1	1085.5	1129.1	1179.7	1231.9	1290.4	1356.1	1424.0	1499.4	1580.9	1670.2	1772.1	2.2%

Table 56. Air Travel Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Aircraft Stock														
Narrow Body Aircraft - US	5242.9	5308.5	5362.7	5403.2	5441.4	5483.3	5527.7	5581.0	5626.4	5661.0	5685.2	5697.2	5699.5	1.0%
Wide Body Aircraft - US	1467.1	1467.0	1462.4	1460.0	1455.6	1452.6	1452.5	1457.4	1459.0	1457.4	1450.1	1440.8	1430.8	0.2%
Regional Jets - US	2823.9	2858.4	2886.8	2908.5	2922.1	2925.5	2919.6	2905.1	2881.9	2850.2	2810.2	2762.1	2708.1	1.2%
US Total Aircraft Stock	9533.9	9634.0	9711.9	9771.7	9819.1	9861.4	9899.8	9943.5	9967.3	9968.6	9945.5	9900.1	9838.4	0.9%
Narrow Body Aircraft - Non US	9961.5	10188.8	10440.6	10713.5	10998.7	11291.6	11595.0	11909.1	12245.8	12614.8	13015.2	13453.7	13932.2	2.7%
Wide Body Aircraft - Non US	3551.2	3569.3	3591.9	3620.5	3654.4	3690.2	3729.8	3773.5	3822.9	3881.1	3950.3	4036.8	4145.6	1.1%
Regional Jets - Non US	4063.4	4269.4	4484.7	4708.4	4944.7	5192.3	5453.7	5732.3	6024.5	6331.7	6653.4	6992.1	7348.9	6.6%
Non US Total Aircraft Stock	17576.1	18027.4	18517.3	19042.4	19597.7	20174.1	20778.6	21414.9	22093.2	22827.5	23619.0	24482.6	25426.7	3.1%
Narrow Body Aircraft - World	15204.5	15497.3	15803.3	16116.7	16440.1	16774.8	17122.7	17490.1	17872.2	18275.8	18700.4	19150.9	19631.8	2.1%
Wide Body Aircraft - World	5018.3	5036.3	5054.3	5080.5	5110.0	5142.8	5182.3	5231.0	5281.9	5338.5	5400.4	5477.6	5576.4	0.8%
Regional Jets - World	6887.3	7127.8	7371.5	7616.9	7866.7	8117.8	8373.3	8637.4	8906.5	9181.9	9463.6	9754.2	10057.0	4.3%
World Total Aircraft Stock	27110.0	27661.4	28229.2	28814.1	29416.9	30035.5	30678.4	31358.4	32060.5	32796.1	33564.4	34382.7	35265.1	2.4%
Aircraft Active Stock														
Narrow Body Aircraft - US	5194.7	5270.6	5330.9	5376.0	5417.2	5461.5	5509.3	5563.8	5613.4	5651.8	5679.4	5694.0	5697.5	1.5%
Wide Body Aircraft - US	1430.3	1431.4	1430.1	1427.8	1425.4	1425.4	1428.5	1433.4	1438.0	1440.4	1439.1	1433.8	1424.8	0.8%
Regional Jets - US	2233.1	2255.9	2278.3	2300.8	2323.8	2348.1	2374.4	2403.4	2435.1	2468.8	2503.3	2536.6	2566.3	1.2%
US Total Aircraft Active Stock	8858.1	8957.9	9039.2	9104.5	9166.5	9235.1	9312.2	9400.6	9486.5	9561.0	9621.8	9664.3	9688.6	1.3%
Narrow Body Aircraft - Non US	9927.5	10158.8	10414.6	10693.5	10981.7	11276.6	11582.0	11896.1	12232.8	12601.8	13005.2	13446.7	13929.2	3.0%
Wide Body Aircraft - Non US	3543.0	3561.1	3585.9	3614.5	3650.4	3687.2	3726.8	3770.5	3819.9	3878.1	3948.3	4035.8	4144.6	1.3%
Regional Jets - Non US	3770.5	3982.8	4207.3	4441.8	4688.7	4949.4	5225.4	5517.6	5825.2	6149.1	6488.6	6843.4	7213.8	7.0%
Non US Total Aircraft Active Stock	17241.0	17702.7	18207.8	18749.8	19320.7	19913.2	20534.2	21184.2	21877.9	22629.0	23442.1	24326.0	25287.6	3.4%
Narrow Body Aircraft - World	15122.3	15429.4	15745.5	16069.5	16398.9	16738.1	17091.4	17459.9	17846.2	18253.6	18684.6	19140.7	19626.7	2.5%
Wide Body Aircraft - World	4973.3	4992.5	5016.0	5042.2	5075.9	5112.6	5155.3	5203.9	5257.9	5318.5	5387.4	5469.6	5569.4	1.1%
Regional Jets - World	6003.5	6238.6	6485.5	6742.6	7012.5	7297.5	7599.8	7921.0	8260.3	8617.9	8991.9	9380.1	9780.1	4.6%
World Total Aircraft Active Stock	26099.1	26660.6	27247.0	27854.4	28487.2	29148.3	29846.4	30584.8	31364.3	32190.0	33063.9	33990.3	34976.3	2.7%
Aircraft Parked Stock														
Narrow Body Aircraft - US	48.2	37.9	31.9	27.2	24.2	21.7	18.4	17.2	13.0	9.2	5.8	3.3	2.0	-20.9%
Wide Body Aircraft - US	36.8	35.6	32.3	32.2	30.2	27.2	24.1	24.0	21.0	17.0	11.0	7.0	6.0	-13.5%
Regional Jets - US	590.8	602.6	608.5	607.7	598.3	577.5	545.2	501.8	446.9	381.5	306.9	225.5	141.8	0.8%
US Total Aircraft Parked Stock	675.8	676.1	672.7	667.2	652.7	626.3	587.6	543.0	480.9	407.7	323.7	235.8	149.8	-7.1%
Narrow Body Aircraft - Non US	34.0	30.0	26.0	20.0	17.0	15.0	13.0	13.0	13.0	13.0	10.0	7.0	3.0	-18.4%
Wide Body Aircraft - Non US	8.2	8.2	6.0	6.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0	1.0	1.0	-18.4%
Regional Jets - Non US	292.9	286.6	277.4	266.6	256.0	242.9	228.3	214.7	199.3	182.5	164.8	148.7	135.1	-1.1%
Non US Total Aircraft Parked Stock	335.1	324.8	309.4	292.6	277.0	260.9	244.3	230.7	215.3	198.5	176.8	156.7	139.1	-6.5%
Narrow Body Aircraft - World	82.2	67.9	57.9	47.2	41.2	36.7	31.4	30.2	26.0	22.2	15.8	10.3	5.0	-19.7%
Wide Body Aircraft - World	45.0	43.7	38.3	38.2	34.2	30.2	27.1	27.0	24.0	20.0	13.0	8.0	7.0	-14.8%
Regional Jets - World	883.7	889.2	886.0	874.3	854.3	820.3	773.5	716.4	646.2	564.0	471.7	374.1	276.8	-0.3%
World Total Aircraft Parked Stock	1010.9	1000.8	982.1	959.7	929.7	887.2	832.0	773.7	696.2	606.2	500.5	392.4	288.9	-6.8%
Aircraft Cargo Stock														
Narrow Body Aircraft - US	1048.6	1083.8	1108.6	1121.6	1133.0	1150.2	1172.6	1206.5	1235.7	1256.8	1270.5	1275.5	1274.0	3.4%
Wide Body Aircraft - US	507.4	485.3	459.6	437.0	413.3	392.1	375.0	364.2	351.3	336.7	317.9	298.4	280.0	-3.5%
Regional Jets - US	3.0	3.7	4.7	6.6	9.9	15.3	23.8	36.1	52.4	72.0	93.9	116.0	136.1	22.7%
US Total Aircraft Cargo Stock	1559.0	1572.8	1572.9	1565.2	1556.2	1557.5	1571.4	1606.8	1639.4	1665.6	1682.2	1689.9	1690.1	1.3%
Narrow Body Aircraft - Non US	1245.8	1330.2	1406.0	1478.7	1554.9	1642.4	1735.6	1834.0	1936.0	2036.9	2130.3	2220.4	2314.1	7.6%
Wide Body Aircraft - Non US	634.6	664.5	693.3	724.3	758.1	790.7	818.3	839.5	852.8	857.4	852.2	841.9	830.0	3.0%
Regional Jets - Non US	49.8	51.7	53.8	55.8	57.8	60.1	63.3	68.2	74.3	80.8	86.7	91.4	95.2	4.5%
Non US Total Aircraft Cargo Stock	1930.1	2046.4	2153.1	2258.8	2370.9	2493.1	2617.2	2741.8	2863.1	2975.1	3069.2	3153.7	3239.3	5.8%
Narrow Body Aircraft - World	2294.4	2414.0	2514.5	2600.2	2688.0	2792.5	2908.2	3040.5	3171.7	3293.8	3400.7	3495.8	3588.0	5.6%
Wide Body Aircraft - World	1142.0	1149.8	1153.0	1161.3	1171.4	1182.8	1193.3	1203.7	1204.1	1194.1	1170.1	1140.4	1110.0	0.2%
Regional Jets - World	52.7	55.4	58.6	62.4	67.7	75.4	87.1	104.4	126.7	152.8	180.5	207.4	231.3	8.3%
World Total Aircraft Cargo Stock	3489.1	3619.2	3726.1	3824.0	3927.1	4050.7	4188.6	4348.6	4502.5	4640.6	4751.4	4843.6	4929.4	3.7%

Table 56. Air Travel Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Advanced Technology Penetration														
Ultra-high Bypass	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	28.4%
Propfan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9%
Thermodynamics	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.09	0.19	0.35	0.56	25.3%
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Weight Reducing Materials	0.96	0.98	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	24.7%
New Aircraft Efficiency 3/ 5/														
Narrow Body Aircraft	68.9	69.1	69.3	69.5	69.7	69.9	70.1	70.3	70.5	70.8	71.0	71.2	71.4	0.3%
Wide Body Aircraft	66.1	66.3	66.5	66.7	66.9	67.1	67.3	67.5	67.7	67.9	68.1	68.3	68.5	0.3%
Regional Jets	45.2	45.4	45.5	45.6	45.8	45.9	46.0	46.2	46.3	46.5	46.6	46.7	46.9	0.3%
Average Aircraft	64.7	64.9	65.0	65.2	65.4	65.6	65.8	66.0	66.2	66.4	66.6	66.8	67.0	0.2%
Aircraft Stock Efficiency 3/ 5/														
Narrow Body Aircraft	71.0	71.5	71.9	72.2	72.6	73.0	73.3	73.7	74.1	74.5	74.8	75.1	75.4	0.6%
Wide Body Aircraft	66.8	67.2	67.5	67.9	68.2	68.5	68.9	69.2	69.5	69.8	70.0	70.3	70.5	0.6%
Regional Jets	46.1	46.2	46.3	46.4	46.4	46.5	46.6	46.6	46.7	46.7	46.8	46.8	46.9	0.2%
Average Aircraft	66.5	66.9	67.2	67.5	67.8	68.1	68.4	68.7	69.0	69.3	69.6	69.8	70.0	0.5%
Fuel Consumption (trillion Btu)														
Commercial														
Jet Fuel - US	3451.7	3514.3	3577.0	3639.8	3702.6	3763.9	3824.5	3885.0	3944.6	4004.6	4064.9	4124.5	4184.3	2.0%
Jet Fuel - Non US	8056.5	8345.8	8637.7	8961.5	9299.9	9642.8	9988.4	10336.2	10710.3	11108.2	11528.8	11971.1	12436.4	3.4%
Jet Fuel - World	11508.2	11860.1	12214.7	12601.3	13002.5	13406.7	13812.9	14221.2	14654.9	15112.7	15593.7	16095.6	16620.8	3.0%
Aviation Gasoline - US	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	-0.1%
Military														
Jet Fuel - US	569.6	572.6	575.6	578.6	581.6	584.5	587.4	590.3	593.2	596.0	598.8	601.5	604.2	0.4%

Table 56. Air Travel Energy Use

1/ 1992 cents per passenger mile.

2/ Fraction of seats filled.

3/ Seat miles per gallon.

4/ Assumed to be the same as International US.

5/ Non US Efficiency assumed equal to US Efficiency.

Btu = British thermal unit.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 (Oak Ridge, TN, 2007); U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 2005/2006 (Washington, DC, 2005); Energy Information Administration (EIA), State Energy Data Report 2004, DOE/EIA-0214(2004) (Washington, DC, June 2007); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 2005; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 57. Freights Transportation Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	34.66	34.96	35.42	35.35	35.51	36.74	37.71	38.19	38.52	39.03	39.72	40.44	41.02
Motor Gasoline	14.12	13.65	13.67	13.18	12.73	12.73	12.63	12.46	12.28	12.21	12.21	12.23	12.23
Liquefied Petroleum Gases	0.35	0.37	0.39	0.42	0.45	0.48	0.51	0.52	0.52	0.52	0.53	0.53	0.53
Compressed Natural Gas	0.25	0.32	0.41	0.50	0.63	0.78	0.94	1.10	1.25	1.39	1.54	1.67	1.79
Medium Subtotal	49.38	49.30	49.90	49.45	49.32	50.74	51.79	52.27	52.58	53.15	54.00	54.87	55.56
Heavy													
Diesel	176.79	183.60	186.64	186.47	189.60	196.30	203.21	208.53	212.68	216.48	220.96	225.56	229.35
Motor Gasoline	1.80	1.84	1.90	1.88	1.88	1.93	1.98	2.03	2.06	2.10	2.15	2.21	2.26
Liquefied Petroleum Gases	0.18	0.21	0.22	0.23	0.25	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.24
Compressed Natural Gas	0.24	0.32	0.38	0.45	0.56	0.67	0.80	0.93	1.04	1.12	1.19	1.26	1.31
Heavy Subtotal	179.01	185.97	189.14	189.03	192.30	199.16	206.26	211.75	216.06	219.97	224.56	229.28	233.16
Total Vehicle Miles Traveled	228.39	235.27	239.04	238.48	241.62	249.89	258.05	264.02	268.63	273.12	278.56	284.15	288.73
Consumption (trillion Btu)													
Medium													
Diesel	519.48	522.80	529.05	527.49	529.41	547.28	560.97	567.31	571.29	577.80	587.28	597.00	604.77
Motor Gasoline	205.95	198.62	198.61	191.10	184.17	183.83	181.94	178.97	175.96	174.42	174.01	173.77	173.14
Liquefied Petroleum Gases	6.35	6.48	6.82	7.16	7.56	8.09	8.41	8.49	8.48	8.47	8.47	8.42	8.33
Compressed Natural Gas	4.06	5.20	6.51	7.99	9.99	12.31	14.85	17.34	19.68	21.91	24.13	26.25	28.11
Medium Subtotal	735.84	733.10	740.98	733.73	731.12	751.50	766.17	772.11	775.41	782.60	793.89	805.44	814.36
Heavy													
Diesel	3970.12	4118.05	4182.75	4176.27	4241.49	4383.04	4519.72	4609.40	4662.17	4700.17	4747.39	4794.28	4821.50
Motor Gasoline	31.18	31.73	32.60	32.15	32.19	32.93	33.70	34.40	34.97	35.56	36.33	37.20	38.00
Liquefied Petroleum Gases	3.35	3.78	4.04	4.21	4.47	4.67	4.79	4.81	4.75	4.64	4.51	4.39	4.25
Compressed Natural Gas	4.18	5.58	6.71	7.88	9.77	11.59	13.79	16.00	17.90	19.34	20.59	21.70	22.55
Heavy Subtotal	4008.83	4159.14	4226.09	4220.51	4287.92	4432.23	4572.00	4664.61	4719.80	4759.70	4808.82	4857.57	4886.30
Medium and Heavy Total													
Diesel	4489.60	4640.85	4711.80	4703.75	4770.90	4930.32	5080.69	5176.71	5233.46	5277.97	5334.67	5391.28	5426.28
Motor Gasoline	237.14	230.35	231.21	223.24	216.36	216.76	215.64	213.37	210.93	209.97	210.34	210.96	211.14
Liquefied Petroleum Gases	9.70	10.26	10.86	11.36	12.03	12.75	13.20	13.30	13.24	13.11	12.98	12.82	12.58
Compressed Natural Gas	8.24	10.78	13.21	15.87	19.76	23.90	28.64	33.35	37.59	41.25	44.72	47.95	50.66
Total	4744.68	4892.24	4967.07	4954.23	5019.04	5183.72	5338.16	5436.72	5495.21	5542.30	5602.71	5663.01	5700.66

Table 57. Freights Transportation Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.37	8.39	8.40	8.41	8.42	8.43	8.45	8.46	8.48	8.50	8.51	8.53	8.54
Motor Gasoline	8.56	8.58	8.59	8.61	8.63	8.65	8.67	8.69	8.72	8.74	8.76	8.79	8.82
Liquefied Petroleum Gases	6.93	7.06	7.17	7.26	7.35	7.42	7.49	7.55	7.60	7.66	7.71	7.76	7.80
Compressed Natural Gas	7.72	7.77	7.82	7.85	7.88	7.90	7.92	7.94	7.95	7.96	7.96	7.97	7.98
Medium Average	8.41	8.43	8.44	8.45	8.46	8.47	8.49	8.50	8.52	8.54	8.55	8.57	8.58
Heavy													
Diesel	5.57	5.58	5.58	5.58	5.59	5.60	5.62	5.66	5.71	5.76	5.82	5.88	5.95
Motor Gasoline	7.23	7.26	7.28	7.30	7.31	7.33	7.35	7.36	7.38	7.39	7.41	7.42	7.43
Liquefied Petroleum Gases	6.69	6.82	6.88	6.93	6.99	7.02	7.06	7.09	7.12	7.14	7.16	7.18	7.20
Compressed Natural Gas	7.08	7.14	7.17	7.20	7.22	7.23	7.24	7.25	7.25	7.26	7.26	7.26	7.26
Heavy Average	5.58	5.59	5.60	5.60	5.61	5.62	5.64	5.68	5.73	5.78	5.84	5.90	5.97
Average	6.02	6.01	6.02	6.02	6.02	6.03	6.05	6.07	6.11	6.16	6.22	6.28	6.33
Stock (millions)													
Medium													
Diesel	2.28	2.36	2.41	2.44	2.49	2.53	2.58	2.63	2.69	2.73	2.77	2.80	2.84
Motor Gasoline	1.90	1.87	1.83	1.78	1.75	1.71	1.68	1.65	1.63	1.60	1.58	1.56	1.54
Liquefied Petroleum Gases	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Compressed Natural Gas	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12
Medium Subtotal	4.24	4.30	4.31	4.30	4.33	4.33	4.36	4.41	4.45	4.47	4.50	4.52	4.55
Heavy													
Diesel	4.61	4.82	4.89	4.95	5.08	5.15	5.28	5.44	5.59	5.70	5.80	5.90	6.00
Motor Gasoline	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Liquefied Petroleum Gases	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Compressed Natural Gas	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07
Heavy Subtotal	4.95	5.15	5.21	5.26	5.39	5.46	5.60	5.76	5.91	6.03	6.13	6.24	6.34
Total Stock	9.19	9.45	9.52	9.56	9.72	9.80	9.96	10.17	10.36	10.50	10.63	10.76	10.89
New Trucks by Size Class													
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.51	8.50	8.51	8.51	8.51	8.57	8.61	8.66	8.66	8.67	8.67	8.66	8.66
Motor Gasoline	8.94	8.94	8.93	8.95	8.97	8.99	9.02	9.04	9.07	9.10	9.15	9.19	9.24
Liquefied Petroleum Gases	7.97	7.95	7.98	8.01	8.06	8.13	8.20	8.26	8.31	8.35	8.39	8.43	8.46
Compressed Natural Gas	7.95	7.94	7.94	7.95	7.97	7.98	7.99	8.00	8.00	8.00	8.00	8.00	8.00
Medium Average	8.58	8.57	8.57	8.57	8.57	8.62	8.65	8.70	8.70	8.71	8.72	8.72	8.73
Heavy													
Diesel	5.63	5.61	5.62	5.63	5.65	5.71	5.79	5.90	6.04	6.18	6.29	6.35	6.42
Motor Gasoline	7.50	7.50	7.50	7.51	7.51	7.51	7.51	7.51	7.50	7.50	7.50	7.50	7.50
Liquefied Petroleum Gases	7.28	7.28	7.28	7.28	7.28	7.28	7.34	7.35	7.36	7.37	7.37	7.37	7.37
Compressed Natural Gas	7.27	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.64	5.63	5.64	5.65	5.68	5.73	5.82	5.92	6.06	6.21	6.31	6.37	6.44
Average	5.98	5.94	5.99	6.00	6.00	6.07	6.14	6.23	6.36	6.50	6.60	6.65	6.72

Table 57. Freights Transportation Energy Use

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Sales (millions)													
Medium													
Diesel	0.15	0.15	0.12	0.12	0.14	0.13	0.15	0.16	0.16	0.15	0.15	0.15	0.15
Motor Gasoline	0.06	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.22	0.23	0.18	0.17	0.21	0.19	0.22	0.23	0.23	0.22	0.22	0.22	0.22
Heavy													
Diesel	0.36	0.39	0.27	0.26	0.34	0.29	0.35	0.39	0.39	0.35	0.35	0.36	0.36
Motor Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Heavy Subtotal	0.37	0.41	0.28	0.27	0.36	0.31	0.37	0.41	0.41	0.38	0.37	0.38	0.38
Total Sales	0.60	0.64	0.46	0.44	0.56	0.50	0.59	0.65	0.64	0.60	0.59	0.60	0.61
Railroads													
Ton Miles by Rail (billion)	1587.57	1655.61	1672.80	1666.62	1668.04	1701.78	1760.75	1784.68	1796.36	1811.02	1826.96	1859.93	1876.16
Fuel Efficiency (ton miles per thousand Btu)	2.91	2.92	2.92	2.92	2.92	2.93	2.93	2.93	2.94	2.94	2.94	2.95	2.95
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	545.03	567.82	573.15	570.41	570.29	581.23	600.76	608.29	611.62	615.96	620.72	631.25	636.07
Residual Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Domestic Shipping													
Ton Miles Shipping (billion)	609.67	619.50	630.66	622.64	628.74	642.75	650.95	659.59	664.79	668.90	677.02	685.49	689.43
Fuel Efficiency (ton miles per thousand Btu)	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.99
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	219.47	223.52	223.57	221.37	224.22	229.95	233.65	236.50	238.12	239.33	241.98	244.75	245.89
Residual Fuel Oil	91.17	91.79	97.37	95.03	94.86	95.86	95.94	97.12	97.78	98.29	99.37	100.51	100.98
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
International Shipping													
Gross Trade (billion 2000 dollars)	2427.33	2604.32	2714.06	2845.15	3010.46	3208.98	3422.05	3620.16	3804.63	4011.14	4238.28	4481.03	4728.07
Exports (billion 2000 dollars)	843.50	927.35	1003.91	1112.92	1218.64	1304.85	1387.49	1475.99	1572.66	1684.36	1806.99	1937.76	2076.35
Imports (billion 2000 dollars)	1583.83	1676.97	1710.15	1732.24	1791.81	1904.13	2034.55	2144.17	2231.97	2326.78	2431.29	2543.27	2651.72
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	49.82	50.91	51.18	51.19	51.20	51.23	51.26	51.34	51.40	51.46	51.53	51.60	51.67
Residual Fuel Oil	717.07	724.46	772.30	761.34	750.57	739.96	729.33	730.37	731.28	732.23	733.22	734.22	735.18

Table 57. Freights Transportation Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Existing Trucks by Size Class														
Vehicle Miles Traveled (billion miles)														
Medium														
Diesel	41.69	42.37	43.10	43.83	44.50	45.20	45.90	46.62	47.32	48.02	48.67	49.32	50.01	1.5%
Motor Gasoline	12.27	12.33	12.41	12.49	12.55	12.63	12.71	12.80	12.89	12.99	13.08	13.18	13.30	-0.1%
Liquefied Petroleum Gases	0.52	0.52	0.53	0.54	0.55	0.55	0.56	0.57	0.58	0.59	0.59	0.60	0.60	2.1%
Compressed Natural Gas	1.90	2.01	2.11	2.21	2.30	2.38	2.46	2.52	2.59	2.64	2.69	2.73	2.77	9.3%
Medium Subtotal	56.39	57.23	58.15	59.06	59.90	60.77	61.63	62.51	63.38	64.24	65.04	65.83	66.68	1.3%
Heavy														
Diesel	233.49	237.52	241.73	245.84	249.66	253.51	257.30	261.18	265.07	268.94	272.52	276.01	279.76	1.8%
Motor Gasoline	2.31	2.37	2.42	2.48	2.53	2.59	2.64	2.70	2.76	2.82	2.88	2.94	3.00	2.1%
Liquefied Petroleum Gases	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.7%
Compressed Natural Gas	1.35	1.39	1.43	1.47	1.51	1.54	1.56	1.59	1.61	1.63	1.64	1.65	1.66	7.1%
Heavy Subtotal	237.40	241.51	245.82	250.02	253.93	257.87	261.74	265.70	269.68	273.63	277.29	280.84	284.67	1.8%
Total Vehicle Miles Traveled	293.78	298.74	303.97	309.09	313.83	318.64	323.37	328.21	333.05	337.87	342.33	346.67	351.35	1.7%
Consumption (trillion Btu)														
Medium														
Diesel	613.99	623.36	633.48	643.58	652.98	662.76	671.71	680.88	689.96	699.01	707.42	713.04	719.46	1.3%
Motor Gasoline	173.15	173.39	173.99	174.62	175.08	175.70	176.39	177.24	178.18	179.24	180.25	181.36	182.74	-0.3%
Liquefied Petroleum Gases	8.25	8.22	8.25	8.32	8.40	8.50	8.58	8.66	8.75	8.84	8.93	8.94	8.97	1.4%
Compressed Natural Gas	29.88	31.52	33.12	34.64	36.03	37.33	38.48	39.55	40.53	41.43	42.21	42.80	43.36	9.2%
Medium Subtotal	825.26	836.50	848.83	861.16	872.50	884.29	895.16	906.34	917.43	928.53	938.81	946.14	954.52	1.1%
Heavy														
Diesel	4856.33	4892.66	4935.02	4978.42	5018.92	5063.27	5108.92	5156.99	5207.77	5260.70	5310.40	5360.23	5417.10	1.1%
Motor Gasoline	38.90	39.79	40.71	41.61	42.47	43.36	44.27	45.22	46.19	47.19	48.15	49.11	50.13	1.9%
Liquefied Petroleum Gases	4.13	4.04	4.00	3.99	4.00	4.01	4.03	4.05	4.07	4.09	4.12	4.14	4.17	0.4%
Compressed Natural Gas	23.30	23.98	24.65	25.31	25.92	26.46	26.93	27.33	27.69	28.00	28.23	28.40	28.57	7.0%
Heavy Subtotal	4922.65	4960.46	5004.37	5049.33	5091.31	5137.11	5184.15	5233.58	5285.72	5339.98	5390.89	5441.88	5499.98	1.2%
Medium and Heavy Total														
Diesel	5470.32	5516.02	5568.50	5622.01	5671.90	5726.03	5780.62	5837.87	5897.73	5959.71	6017.81	6073.28	6136.56	1.2%
Motor Gasoline	212.04	213.18	214.69	216.23	217.55	219.06	220.66	222.46	224.37	226.42	228.40	230.47	232.87	0.0%
Liquefied Petroleum Gases	12.37	12.26	12.24	12.30	12.40	12.52	12.61	12.71	12.82	12.94	13.05	13.08	13.14	1.0%
Compressed Natural Gas	53.18	55.50	57.77	59.95	61.95	63.79	65.41	66.89	68.22	69.43	70.44	71.20	71.93	8.2%
Total	5747.91	5796.96	5853.20	5910.49	5963.81	6021.40	6079.31	6139.92	6203.14	6268.51	6329.70	6388.03	6454.50	1.2%

Table 57. Freights Transportation Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Efficiency (gasoline equivalent MPG)														
Medium														
Diesel	8.55	8.56	8.57	8.58	8.59	8.59	8.63	8.66	8.69	8.72	8.75	8.77	8.80	0.2%
Motor Gasoline	8.85	8.87	8.90	8.92	8.94	8.96	8.98	9.00	9.02	9.03	9.05	9.06	9.07	0.2%
Liquefied Petroleum Gases	7.85	7.89	7.93	7.97	8.01	8.04	8.07	8.10	8.13	8.15	8.18	8.20	8.22	0.6%
Compressed Natural Gas	7.98	7.98	7.98	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	8.00	0.1%
Medium Average	8.59	8.60	8.62	8.63	8.64	8.65	8.68	8.70	8.73	8.75	8.77	8.80	8.82	0.2%
Heavy														
Diesel	6.01	6.07	6.13	6.18	6.22	6.26	6.30	6.33	6.37	6.39	6.42	6.44	6.46	0.6%
Motor Gasoline	7.43	7.44	7.45	7.45	7.46	7.46	7.47	7.47	7.48	7.48	7.48	7.48	7.49	0.1%
Liquefied Petroleum Gases	7.21	7.22	7.23	7.25	7.26	7.27	7.28	7.29	7.30	7.31	7.32	7.33	7.34	0.3%
Compressed Natural Gas	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.1%
Heavy Average	6.03	6.09	6.14	6.19	6.24	6.28	6.31	6.35	6.38	6.41	6.43	6.45	6.47	0.6%
Average	6.39	6.45	6.50	6.54	6.58	6.62	6.65	6.69	6.72	6.74	6.76	6.79	6.81	0.5%
Stock (millions)														
Medium														
Diesel	2.87	2.90	2.93	2.96	2.99	3.02	3.05	3.08	3.11	3.14	3.17	3.20	3.23	1.3%
Motor Gasoline	1.52	1.50	1.48	1.47	1.45	1.44	1.43	1.42	1.42	1.41	1.41	1.41	1.41	-1.2%
Liquefied Petroleum Gases	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.2%
Compressed Natural Gas	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23	9.1%
Medium Subtotal	4.57	4.59	4.61	4.64	4.66	4.69	4.72	4.75	4.78	4.81	4.85	4.88	4.92	0.6%
Heavy														
Diesel	6.09	6.17	6.26	6.33	6.41	6.49	6.56	6.64	6.71	6.78	6.86	6.93	7.00	1.6%
Motor Gasoline	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.1%
Liquefied Petroleum Gases	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	-1.1%
Compressed Natural Gas	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	8.1%
Heavy Subtotal	6.44	6.53	6.62	6.71	6.79	6.87	6.95	7.04	7.12	7.20	7.27	7.35	7.43	1.5%
Total Stock	11.01	11.13	11.24	11.35	11.46	11.57	11.67	11.78	11.90	12.01	12.12	12.23	12.35	1.1%
New Trucks by Size Class														
Fuel Efficiency (gasoline equivalent MPG)														
Medium														
Diesel	8.66	8.66	8.68	8.68	8.68	8.68	9.05	9.04	9.04	9.05	9.05	9.05	9.05	0.3%
Motor Gasoline	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	0.1%
Liquefied Petroleum Gases	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	0.3%
Compressed Natural Gas	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0.0%
Medium Average	8.73	8.73	8.74	8.75	8.75	8.75	9.02	9.02	9.02	9.03	9.03	9.03	9.03	0.2%
Heavy														
Diesel	6.47	6.48	6.51	6.53	6.54	6.56	6.57	6.61	6.61	6.61	6.61	6.61	6.61	0.7%
Motor Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.51	7.51	7.51	7.51	7.51	7.51	7.51	0.0%
Liquefied Petroleum Gases	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.39	7.39	7.40	7.40	7.40	0.1%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	7.28	7.28	7.28	0.0%
Heavy Average	6.49	6.50	6.53	6.54	6.56	6.58	6.59	6.62	6.63	6.63	6.63	6.63	6.63	0.7%
Average	6.76	6.77	6.80	6.82	6.83	6.84	6.87	6.90	6.90	6.90	6.90	6.93	6.93	0.6%

Table 57. Freights Transportation Energy Use

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Sales (millions)														
Medium														
Diesel	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.4%
Motor Gasoline	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.2%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.0%
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.9%
Medium Subtotal	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.4%
Heavy														
Diesel	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.40	0.1%
Motor Gasoline	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.2%
Liquefied Petroleum Gases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.6%
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.1%
Heavy Subtotal	0.38	0.38	0.38	0.39	0.39	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.42	0.1%
Total Sales	0.61	0.60	0.61	0.61	0.62	0.63	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.3%
Railroads														
Ton Miles by Rail (billion)	1893.79	1912.77	1932.04	1956.30	1975.38	1999.58	2022.58	2042.71	2063.32	2084.04	2107.20	2124.27	2146.76	1.1%
Fuel Efficiency (ton miles per thousand Btu)	2.95	2.95	2.96	2.96	2.96	2.97	2.97	2.97	2.97	2.98	2.98	2.98	2.99	0.1%
Fuel Consumption (trillion Btu)														
Distillate Fuel Oil (diesel)	641.35	647.08	652.89	660.38	666.09	673.52	680.52	686.54	692.71	698.90	705.90	710.83	717.57	1.0%
Residual Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Domestic Shipping														
Ton Miles Shipping (billion)	692.22	694.64	700.52	705.72	709.05	709.68	711.90	713.11	716.76	719.84	719.71	719.42	721.05	0.6%
Fuel Efficiency (ton miles per thousand Btu)	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	0.1%
Fuel Consumption (trillion Btu)														
Distillate Fuel Oil (diesel)	246.62	247.22	249.04	250.62	251.52	251.47	251.99	252.14	253.15	253.96	253.64	253.25	253.55	0.5%
Residual Fuel Oil	101.29	101.53	102.29	102.94	103.31	103.30	103.51	103.58	104.00	104.34	104.21	104.05	104.18	0.5%
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
International Shipping														
Gross Trade (billion 2000 dollars)	4994.08	5272.66	5564.76	5877.74	6212.48	6569.68	6951.21	7360.26	7796.76	8263.43	8764.47	9293.96	9862.20	5.7%
Exports (billion 2000 dollars)	2225.25	2380.79	2543.88	2715.80	2898.76	3091.56	3297.90	3521.14	3758.87	4014.27	4287.99	4577.69	4886.24	7.2%
Imports (billion 2000 dollars)	2768.83	2891.87	3020.88	3161.94	3313.72	3478.12	3653.31	3839.13	4037.89	4249.15	4476.48	4716.28	4975.96	4.6%
Fuel Consumption (trillion Btu)														
Distillate Fuel Oil (diesel)	51.73	51.80	51.87	51.93	52.00	52.07	52.14	52.21	52.28	52.35	52.42	52.49	52.56	0.1%
Residual Fuel Oil	736.16	737.12	738.08	739.06	740.04	741.03	742.03	743.05	744.07	745.10	746.14	747.18	748.23	0.1%

Table 57. Freight Transportation Energy Use

MPG = Miles per gallon.

Btu = British thermal unit.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 26 and Annual (Oak Ridge, TN, 2007); United States Department of Transportation, 1989 Carload Waybill Statistics Traffic and Revenue by Commodity Classes, September 1991 and prior issues; Reebie Associates, TRANSEARCH Database, (Greenwich, Connecticut, 1989); Army Corps of Engineers, Waterborne Commerce of the United States, (New Orleans), 1991 and prior issues; U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2004 (Washington, DC, October 2005); and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Car													
Unit Body Construction	91.23	89.81	90.09	90.23	89.35	90.01	91.67	91.65	91.67	93.43	94.49	95.23	95.29
Material Substitution II	46.15	47.65	47.60	48.39	55.09	63.89	72.43	72.41	72.39	79.71	75.00	58.88	44.42
Material Substitution III	0.89	0.96	0.96	0.96	1.04	1.37	2.32	2.84	3.13	8.44	18.30	33.16	43.07
Material Substitution IV	0.00	0.04	0.07	0.09	0.14	0.22	0.32	0.40	0.46	1.06	2.29	5.43	9.80
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.27	0.45
Drag Reduction II	55.44	56.83	56.63	58.43	65.40	71.96	73.22	71.09	68.98	50.33	25.92	1.54	0.00
Drag Reduction III	2.20	2.39	2.46	3.13	6.04	9.77	13.70	15.77	17.56	29.27	40.81	46.11	27.61
Drag Reduction IV	0.60	0.67	0.73	0.85	1.36	2.68	4.97	6.32	7.14	16.52	28.10	42.92	55.35
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.11	0.30	0.40	0.46	1.26	2.91	7.16	14.78
Roll-Over Technology	24.48	39.10	53.76	68.42	83.08	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74
Side Impact Technology	24.48	39.10	53.76	68.42	83.08	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74
Advanced Low Loss Torque Converter	12.90	17.69	21.20	24.83	29.42	32.68	35.30	37.95	40.56	50.63	60.49	68.46	72.99
Early Torque Converter Lockup	61.83	63.19	63.36	65.07	72.82	79.06	83.21	83.21	83.19	86.17	85.93	82.85	79.81
Aggressive Shift Logic	36.81	36.65	36.43	36.32	37.32	40.28	46.56	46.63	46.63	53.85	58.96	65.58	68.01
4-Speed Automatic	57.57	54.94	54.59	53.92	53.05	51.35	49.42	48.09	47.04	41.57	37.35	29.61	25.40
5-Speed Automatic	20.78	20.83	20.68	20.61	20.90	20.82	20.62	20.56	20.53	20.44	20.43	20.53	18.27
6-Speed Automatic	2.52	4.54	4.40	4.35	4.87	4.89	4.80	4.81	4.78	4.94	5.78	7.21	8.30
6-Speed Manual	2.91	3.24	3.31	3.36	3.16	3.21	3.33	3.37	3.42	4.63	6.05	8.69	10.30
CVT	1.34	1.35	1.35	1.36	1.37	1.39	1.44	1.46	1.53	2.31	3.78	7.17	10.44
Automated Manual Trans	0.45	0.51	0.75	1.34	2.60	4.24	6.03	7.35	8.33	11.63	12.28	12.44	12.73
Roller Cam	92.92	93.25	94.20	94.84	96.32	97.04	97.33	97.40	97.44	97.58	97.63	97.66	97.69
OHC/AdvOHV-4 Cylinder	2.52	3.29	3.38	3.43	3.13	2.81	2.38	2.39	2.39	2.41	2.38	2.13	1.53
OHC/AdvOHV-6 Cylinder	4.98	4.76	4.72	4.69	4.86	4.85	4.53	4.53	4.51	1.81	0.00	0.00	0.00
OHC/AdvOHV-8 Cylinder	2.94	3.83	3.74	3.70	3.99	3.97	3.89	3.89	3.89	2.71	1.05	0.91	0.87
4-Valve/4-Cylinder	42.17	37.11	37.96	38.34	35.87	36.33	37.50	37.45	37.49	37.74	37.32	37.59	38.76
4-Valve/6-Cylinder	22.84	23.41	23.07	22.92	23.86	23.79	24.04	24.06	24.07	29.84	33.73	35.41	35.13
4-Valve/8-Cylinder	9.94	13.34	13.00	12.82	13.95	13.89	13.59	13.60	13.60	14.91	16.94	17.08	16.84
5-Valve/6-Cylinder	1.80	2.04	2.04	2.05	2.02	2.05	2.10	2.10	2.11	2.11	2.11	2.10	2.10
VVT-4 Cylinder	18.85	16.18	17.24	19.32	23.36	28.68	32.83	33.63	34.19	38.41	38.16	38.37	38.62
VVT-6 Cylinder	3.58	3.55	3.51	3.49	3.59	3.63	3.87	3.96	4.02	6.88	11.67	17.71	19.91
VVT-8 Cylinder	1.36	3.10	2.96	2.89	3.35	3.39	3.36	3.41	3.46	4.26	6.30	8.19	8.75
VVL-4 Cylinder	5.07	5.40	5.43	5.45	5.32	5.38	5.90	5.93	5.98	7.38	9.85	12.77	13.91
VVL-6 Cylinder	1.11	1.25	1.27	1.28	1.21	1.20	1.25	1.28	1.33	1.93	3.07	5.16	6.08
VVL-8 Cylinder	1.37	1.58	1.55	1.53	1.63	1.63	1.61	1.63	1.66	1.88	2.21	2.96	3.18
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.03	0.06	0.08	0.10	0.13	0.25	0.44	1.02	1.95
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.03	0.06	0.08	0.11	0.14	0.17	0.31	0.61	1.20	2.01
Camless Valve Actuation-8cyl	0.00	0.00	0.03	0.05	0.07	0.09	0.13	0.16	0.19	0.35	0.63	1.12	1.58
Cylinder Deactivation	0.06	0.08	0.12	0.16	0.25	0.38	0.56	0.67	0.80	1.60	2.84	5.22	5.97
Turbocharging/Supercharging	4.80	5.18	5.21	5.23	5.12	5.12	5.16	5.16	5.16	5.22	5.45	6.14	6.54
Engine Friction Reduction I	66.11	67.16	67.14	65.18	55.40	45.20	36.23	34.32	33.61	18.73	10.42	2.11	1.01
Engine Friction Reduction II	28.31	26.59	26.96	30.37	41.75	51.99	60.54	62.15	62.76	75.69	80.24	80.57	72.16
Engine Friction Reduction III	0.00	0.00	0.00	0.08	0.21	0.46	0.97	1.27	1.37	3.32	7.08	14.81	23.89
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.68
Stoichiometric GDI/4-Cylinder	0.00	0.03	0.06	0.08	0.11	0.18	0.28	0.34	0.43	1.04	2.31	5.72	10.65
Stoichiometric GDI/6-Cylinder	0.00	0.03	0.06	0.08	0.11	0.16	0.22	0.27	0.34	0.72	1.41	2.83	4.47
Lean Burn GDI	0.00	0.04	0.08	0.11	0.17	0.28	0.44	0.52	0.58	1.37	3.01	7.00	11.59
5W-30 Engine Oil	39.36	41.03	40.92	41.25	47.83	57.94	66.81	66.81	66.75	74.26	63.41	47.33	33.60
5W-20 Engine Oil	0.31	0.41	0.66	1.12	2.54	4.69	7.04	8.73	10.67	21.49	34.33	50.41	64.14
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.06	0.07	0.10	0.14	0.20	0.28	0.39	0.49	0.62	1.24	2.19	3.84	5.24
Improved Alternator	0.04	0.08	0.11	0.16	0.25	0.39	0.61	0.71	0.81	1.88	3.96	8.44	12.58

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Improved Oil/Water Pump	1.93	2.17	2.21	2.84	5.66	9.35	13.28	15.42	17.27	29.05	41.11	55.53	66.81
Electric Oil/Water Pump	0.00	0.00	0.04	0.07	0.10	0.16	0.24	0.30	0.35	0.71	1.49	3.31	5.85
Tires II	56.33	59.25	59.71	63.46	73.99	82.04	87.03	86.90	86.44	81.69	70.06	53.41	37.01
Tires III	0.08	0.21	0.39	0.71	1.68	3.42	5.36	6.38	7.49	16.05	27.22	42.62	57.30
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.72	3.42
Front Wheel Drive	79.34	75.19	75.16	75.13	75.21	75.22	75.50	75.51	75.51	76.02	76.46	76.99	77.34
Four Wheel Drive Improvements	0.39	0.43	0.43	0.43	0.44	0.50	0.69	0.82	0.95	1.68	2.72	3.89	5.19
42V-Launch Assist and Regen	0.00	0.03	0.05	0.06	0.09	0.11	0.15	0.19	0.23	0.30	0.55	0.90	1.39
42V-Engine Off at Idle	0.03	0.05	0.06	0.09	0.11	0.15	0.19	0.23	0.30	0.55	0.90	1.39	1.85
Tier 2 Emissions Technology	0.00	32.58	65.16	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74
Increased Size/Weight	3.77	7.52	11.28	15.04	18.80	22.56	26.31	30.07	33.83	37.59	41.35	45.11	48.87
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.18
Light Truck													
Unit Body Construction	12.17	10.80	10.96	11.43	14.19	17.86	20.98	24.70	27.19	27.25	27.85	27.86	27.91
Material Substitution II	30.26	31.74	31.56	31.78	36.58	44.33	56.37	64.25	65.99	66.20	63.39	63.02	61.60
Material Substitution III	0.44	0.51	0.52	0.57	0.70	1.08	2.79	6.94	13.30	17.89	27.58	29.79	33.12
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.22	0.37	0.56	1.15	1.61	3.03
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drag Reduction II	43.81	48.20	50.05	53.28	55.40	52.89	43.09	26.45	12.90	4.21	0.14	0.06	0.00
Drag Reduction III	9.21	11.12	14.39	19.24	27.18	35.89	48.58	62.78	70.06	69.91	58.83	51.49	36.82
Drag Reduction IV	0.00	0.18	0.37	0.66	1.53	2.98	5.48	9.69	17.04	25.60	40.08	47.09	60.71
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.94	1.36	2.47
Roll-Over Technology	0.00	33.33	50.00	66.67	83.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	33.33	50.00	66.67	83.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.25	1.32	2.31	3.40	5.00	6.66	9.17	15.70	26.29	40.08	55.97	66.03	78.21
Early Torque Converter Lockup	91.08	92.00	92.32	92.60	92.86	93.53	93.30	93.87	94.23	94.68	94.89	95.41	95.45
Aggressive Shift Logic	49.75	47.23	47.29	47.51	49.78	53.13	56.45	62.90	67.85	69.32	75.17	75.18	77.63
4-Speed Automatic	64.60	62.09	61.98	61.89	61.79	61.52	58.71	55.25	51.36	47.58	41.02	37.78	34.57
5-Speed Automatic	31.11	33.08	33.19	33.21	32.96	32.93	33.62	34.40	34.55	34.85	35.33	35.42	35.66
6-Speed Automatic	0.59	0.79	0.82	0.86	0.93	1.07	1.44	2.39	3.75	4.94	7.45	8.62	10.42
6-Speed Manual	0.44	0.63	0.62	0.65	0.80	0.99	1.73	3.01	4.81	6.39	9.08	10.63	11.43
CVT	0.53	0.77	0.78	0.78	0.80	0.81	1.78	1.95	2.13	2.32	2.86	3.09	3.56
Automated Manual Trans	0.01	0.04	0.10	0.19	0.38	0.56	0.80	1.41	2.26	2.85	3.36	3.56	3.47
Roller Cam	84.46	85.68	88.86	91.50	93.78	95.52	96.82	98.54	99.46	99.88	99.99	99.99	99.99
OHC/AdvOHV-4 Cylinder	1.01	0.95	0.91	0.89	0.64	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OHC/AdvOHV-6 Cylinder	30.42	30.17	30.26	30.26	30.09	29.20	23.71	17.56	14.68	13.43	11.35	10.87	10.69
OHC/AdvOHV-8 Cylinder	34.41	32.26	32.28	32.33	31.91	30.58	25.43	21.35	19.42	18.37	16.88	16.22	15.86
4-Valve/4-Cylinder	6.98	7.68	7.57	7.53	8.15	8.53	8.68	8.69	8.68	8.64	8.67	8.69	8.60
4-Valve/6-Cylinder	14.23	14.68	14.64	14.63	14.75	15.65	21.15	27.27	30.16	31.43	33.47	34.00	34.15
4-Valve/8-Cylinder	12.53	13.86	13.95	13.96	14.10	15.54	21.03	25.13	27.06	28.13	29.63	30.22	30.70
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VVT-4 Cylinder	5.58	6.40	7.62	8.19	8.80	8.77	8.68	8.69	8.68	8.60	8.60	8.59	8.42
VVT-6 Cylinder	1.91	2.00	2.00	2.00	2.00	2.13	4.39	8.56	14.01	16.68	20.87	21.61	22.06
VVT-8 Cylinder	1.44	1.47	1.47	1.47	1.47	1.55	3.71	7.73	12.20	14.96	19.31	20.74	21.82
VVL-4 Cylinder	0.37	0.39	0.39	0.39	0.41	0.50	1.11	2.54	4.60	5.07	5.52	5.17	3.56
VVL-6 Cylinder	1.54	1.60	1.60	1.60	1.60	1.60	2.12	3.47	5.27	6.40	8.71	9.28	9.63
VVL-8 Cylinder	0.00	0.05	0.07	0.10	0.15	0.22	0.40	0.69	1.09	1.64	2.64	3.36	4.44
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.10	0.18
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.15	0.24	0.41	0.57	1.10
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.17	0.26	0.47	0.68	1.11
Cylinder Deactivation	0.07	0.12	0.17	0.23	0.37	0.60	1.38	2.92	4.96	7.09	10.69	11.88	13.04

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Turbocharging/Supercharging	1.51	1.47	1.48	1.48	1.51	1.53	1.58	1.70	2.00	2.27	2.86	3.04	3.38
Engine Friction Reduction I	74.11	76.15	76.80	71.50	61.29	50.83	35.92	20.55	9.69	3.61	0.42	0.35	0.00
Engine Friction Reduction II	12.59	15.88	21.42	27.95	38.57	48.88	62.57	76.10	84.90	88.49	84.47	79.25	65.74
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.29	1.51	3.34	5.41	7.90	15.11	20.09	33.24
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.02
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.02	0.05	0.07	0.14	0.32	0.62	1.04	2.61	2.95	4.75
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.05	0.12	0.22	0.37	0.57	1.14	1.61	3.32
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.06	0.17	0.39	0.71	1.08	2.32	3.12	5.57
5W-30 Engine Oil	51.63	55.06	55.69	58.67	67.59	76.38	83.83	80.56	68.80	56.05	39.30	31.96	20.71
5W-20 Engine Oil	0.57	1.09	1.74	2.76	4.60	6.78	10.85	19.44	31.20	43.95	60.70	68.04	79.29
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.02	0.03	0.04	0.06	0.09	0.13	0.22	0.44	0.85	1.25	2.14	2.46	3.19
Improved Alternator	0.05	0.11	0.16	0.23	0.39	0.67	1.63	3.68	6.95	10.07	17.04	19.55	22.31
Improved Oil/Water Pump	9.29	11.20	14.60	19.44	27.46	36.17	48.81	62.91	73.78	80.43	87.20	88.88	91.38
Electric Oil/Water Pump	0.00	0.00	0.00	0.05	0.10	0.15	0.34	0.67	1.16	1.98	4.22	6.00	10.61
Tires II	58.42	63.23	70.92	77.08	85.94	90.91	91.53	85.37	75.23	63.87	46.52	37.62	22.46
Tires III	0.12	0.51	1.03	1.85	3.43	5.23	8.20	14.63	24.77	36.13	52.78	60.85	74.29
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	1.53	3.25
Front Wheel Drive	27.17	26.84	27.11	27.19	26.53	26.57	26.75	26.68	26.69	26.82	26.65	26.77	26.83
Four Wheel Drive Improvements	1.10	1.16	1.16	1.16	1.17	1.33	2.92	6.63	12.03	15.78	26.66	29.12	32.06
42V-Launch Assist and Regen	0.00	0.03	0.06	0.07	0.10	0.13	0.17	0.25	0.44	0.75	1.15	1.68	2.01
42V-Engine Off at Idle	0.03	0.06	0.07	0.10	0.13	0.17	0.25	0.44	0.75	1.15	1.71	2.00	2.49
Tier 2 Emissions Technology	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	3.85	7.69	11.54	15.38	19.23	23.08	26.92	30.77	34.62	38.46	42.31	46.15	50.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.09
Light-Duty Vehicle Total													
Unit Body Construction	50.30	50.46	52.18	54.00	54.35	55.35	57.04	58.47	59.31	60.03	60.25	59.99	59.96
Material Substitution II	37.92	39.73	39.92	40.75	46.47	54.49	64.56	68.36	69.18	72.89	69.03	61.05	53.43
Material Substitution III	0.65	0.73	0.75	0.78	0.88	1.23	2.55	4.87	8.23	13.21	23.07	31.40	37.85
Material Substitution IV	0.00	0.02	0.04	0.05	0.08	0.14	0.22	0.31	0.41	0.81	1.71	3.43	6.25
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.13	0.21
Drag Reduction II	49.42	52.54	53.48	56.07	60.75	62.80	58.46	48.97	40.83	27.06	12.68	0.77	0.00
Drag Reduction III	5.83	6.74	8.18	10.54	15.89	22.32	30.78	39.07	43.91	49.78	50.07	48.93	32.44
Drag Reduction IV	0.29	0.43	0.56	0.76	1.44	2.82	5.22	7.99	12.11	21.10	34.26	45.11	58.16
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.06	0.15	0.20	0.23	0.77	1.90	4.13	8.33
Roll-Over Technology	11.81	36.23	51.96	67.61	83.20	98.82	98.85	98.86	98.87	98.88	98.90	98.92	98.92
Side Impact Technology	11.81	36.23	51.96	67.61	83.20	98.82	98.85	98.86	98.87	98.88	98.90	98.92	98.92
Advanced Low Loss Torque Converter	6.35	9.53	12.15	14.98	18.05	20.18	22.50	26.92	33.40	45.31	58.17	67.19	75.73
Early Torque Converter Lockup	76.97	77.54	77.23	77.73	82.15	86.01	88.15	88.49	88.73	90.47	90.54	89.42	88.01
Aggressive Shift Logic	43.51	41.92	41.64	41.46	43.12	46.45	51.40	54.69	57.28	61.66	67.29	70.60	73.06
4-Speed Automatic	61.21	58.50	58.13	57.58	57.12	56.24	53.97	51.64	49.21	44.60	39.23	33.88	30.21
5-Speed Automatic	26.13	26.93	26.67	26.40	26.51	26.64	26.99	27.42	27.57	27.71	28.09	28.32	27.39
6-Speed Automatic	1.52	2.67	2.69	2.75	3.04	3.05	3.15	3.61	4.26	4.94	6.64	7.95	9.41
6-Speed Manual	1.63	1.94	2.02	2.11	2.06	2.14	2.55	3.19	4.12	5.52	7.61	9.70	10.89
CVT	0.92	1.06	1.08	1.09	1.10	1.11	1.60	1.70	1.83	2.32	3.31	5.03	6.83
Automated Manual Trans	0.22	0.27	0.43	0.81	1.57	2.47	3.47	4.41	5.29	7.20	7.70	7.80	7.88
Roller Cam	88.54	89.48	91.64	93.31	95.14	96.31	97.08	97.96	98.45	98.74	98.84	98.88	98.90
OHC/AdvOHV-4 Cylinder	1.74	2.13	2.19	2.26	1.97	1.58	1.22	1.20	1.19	1.20	1.16	1.02	0.73
OHC/AdvOHV-6 Cylinder	18.15	17.42	16.95	16.45	16.61	16.55	13.92	10.99	9.61	7.68	5.83	5.68	5.61
OHC/AdvOHV-8 Cylinder	19.23	17.99	17.42	16.86	16.99	16.76	14.44	12.54	11.68	10.61	9.18	8.92	8.73
4-Valve/4-Cylinder	23.95	22.45	23.40	24.18	22.97	22.98	23.38	23.20	23.03	23.05	22.60	22.47	22.94

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
4-Valve/6-Cylinder	18.39	19.06	19.03	19.11	19.62	19.88	22.62	25.65	27.12	30.64	33.60	34.67	34.62
4-Valve/8-Cylinder	11.28	13.60	13.45	13.34	14.02	14.69	17.23	19.32	20.35	21.58	23.46	23.95	24.11
5-Valve/6-Cylinder	0.87	1.02	1.06	1.10	1.08	1.07	1.07	1.06	1.05	1.05	1.02	1.00	1.00
VVT-4 Cylinder	11.98	11.31	12.63	14.20	16.58	19.12	21.00	21.27	21.39	23.37	22.97	22.80	22.79
VVT-6 Cylinder	2.71	2.78	2.79	2.81	2.85	2.91	4.12	6.24	9.03	11.83	16.39	19.75	21.04
VVT-8 Cylinder	1.40	2.29	2.25	2.23	2.47	2.50	3.53	5.55	7.85	9.66	12.98	14.75	15.60
VVL-4 Cylinder	2.63	2.91	3.01	3.12	3.04	3.04	3.55	4.25	5.29	6.22	7.62	8.80	8.48
VVL-6 Cylinder	1.33	1.43	1.43	1.43	1.39	1.40	1.67	2.36	3.31	4.19	5.96	7.31	7.94
VVL-8 Cylinder	0.66	0.82	0.84	0.87	0.94	0.95	1.02	1.16	1.37	1.76	2.43	3.17	3.84
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.02	0.03	0.04	0.05	0.06	0.14	0.25	0.54	1.02
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.02	0.03	0.04	0.06	0.12	0.16	0.27	0.51	0.87	1.53
Camless Valve Actuation-8cyl	0.00	0.00	0.01	0.03	0.03	0.05	0.09	0.13	0.18	0.30	0.55	0.89	1.33
Cylinder Deactivation	0.06	0.10	0.14	0.20	0.31	0.49	0.96	1.78	2.89	4.37	6.87	8.71	9.68
Turbocharging/Supercharging	3.10	3.33	3.42	3.51	3.44	3.40	3.40	3.44	3.58	3.73	4.12	4.52	4.88
Engine Friction Reduction I	70.25	71.64	71.77	68.08	58.14	47.90	36.08	27.50	21.60	11.10	5.28	1.19	0.48
Engine Friction Reduction II	20.17	21.26	24.31	29.26	40.27	50.50	61.54	69.07	73.87	82.15	82.42	79.88	68.80
Engine Friction Reduction III	0.00	0.00	0.00	0.04	0.11	0.38	1.23	2.30	3.40	5.63	11.20	17.57	28.79
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.86
Stoichiometric GDI/4-Cylinder	0.00	0.02	0.03	0.05	0.08	0.13	0.21	0.33	0.52	1.04	2.47	4.27	7.55
Stoichiometric GDI/6-Cylinder	0.00	0.02	0.03	0.04	0.06	0.11	0.17	0.25	0.35	0.64	1.27	2.19	3.87
Lean Burn GDI	0.00	0.02	0.04	0.06	0.09	0.17	0.31	0.46	0.65	1.23	2.65	4.97	8.43
5W-30 Engine Oil	45.71	48.02	48.00	49.26	57.03	66.80	75.15	73.62	67.78	65.07	51.02	39.29	26.84
5W-20 Engine Oil	0.44	0.75	1.17	1.88	3.50	5.70	8.91	14.04	20.97	32.82	47.88	59.63	72.08
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.04	0.05	0.07	0.10	0.15	0.21	0.30	0.47	0.74	1.24	2.16	3.12	4.17
Improved Alternator	0.04	0.10	0.13	0.19	0.32	0.52	1.11	2.18	3.89	6.01	10.68	14.25	17.69
Improved Oil/Water Pump	5.74	6.67	8.15	10.47	15.81	22.23	30.68	38.95	45.63	54.98	64.79	72.97	79.69
Electric Oil/Water Pump	0.00	0.00	0.02	0.06	0.10	0.16	0.29	0.48	0.76	1.35	2.89	4.72	8.34
Tires II	57.41	61.24	65.08	69.72	79.56	86.30	89.23	86.14	80.81	72.70	57.97	45.15	29.38
Tires III	0.10	0.36	0.70	1.24	2.49	4.29	6.75	10.47	16.16	26.18	40.35	52.15	66.21
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	1.62	3.33
Front Wheel Drive	52.33	51.11	52.14	53.09	52.55	51.85	51.62	51.31	51.01	51.19	50.87	50.72	50.85
Four Wheel Drive Improvements	0.76	0.79	0.78	0.77	0.78	0.90	1.78	3.70	6.51	8.79	15.02	17.08	19.28
42V-Launch Assist and Regen	0.00	0.03	0.05	0.07	0.09	0.12	0.16	0.22	0.34	0.53	0.85	1.31	1.71
42V-Engine Off at Idle	0.03	0.05	0.07	0.09	0.12	0.16	0.22	0.34	0.53	0.85	1.32	1.71	2.18
Tier 2 Emissions Technology	0.00	32.96	65.88	98.78	98.79	98.82	98.85	98.86	98.87	98.88	98.90	98.92	98.92
Increased Size/Weight	3.81	7.61	11.40	15.20	19.00	22.81	26.61	30.42	34.23	38.03	41.84	45.66	49.46
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.13

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Car														
Unit Body Construction	95.30	95.34	95.33	95.26	95.30	95.30	95.29	95.30	95.30	95.30	95.31	95.31	95.30	0.2%
Material Substitution II	24.29	12.55	2.00	1.87	1.83	1.84	1.84	1.83	1.82	1.82	1.81	1.80	1.78	-12.8%
Material Substitution III	53.97	56.40	56.20	55.56	55.45	55.47	55.49	55.46	55.47	55.46	55.44	55.44	55.45	18.4%
Material Substitution IV	18.56	26.97	35.87	35.67	35.81	35.78	35.76	35.79	35.78	35.79	35.81	35.81	35.80	33.0%
Material Substitution V	0.92	1.81	3.68	4.64	4.66	4.65	4.65	4.66	4.67	4.67	4.68	4.69	4.71	--
Drag Reduction II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.3%
Drag Reduction III	4.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-44.4%
Drag Reduction IV	66.44	61.04	47.47	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	19.1%
Drag Reduction V	26.57	36.70	50.27	53.53	53.54	53.54	53.54	53.54	53.54	53.54	53.54	53.54	53.54	--
Roll-Over Technology	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	3.9%
Side Impact Technology	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	3.9%
Advanced Low Loss Torque Converter	69.63	65.72	63.03	63.28	63.12	63.15	63.18	63.14	63.15	63.14	63.12	63.11	63.13	5.4%
Early Torque Converter Lockup	74.85	70.96	68.28	68.46	68.33	68.36	68.38	68.35	68.35	68.35	68.33	68.33	68.34	0.3%
Aggressive Shift Logic	68.51	68.76	70.53	70.53	70.54	70.54	70.54	70.54	70.54	70.54	70.54	70.54	70.54	2.8%
4-Speed Automatic	15.68	8.96	6.36	6.49	6.41	6.43	6.44	6.42	6.42	6.42	6.41	6.41	6.42	-8.6%
5-Speed Automatic	18.09	17.78	16.27	16.41	16.31	16.33	16.34	16.32	16.32	16.32	16.30	16.30	16.31	-1.0%
6-Speed Automatic	11.43	13.82	14.52	14.66	14.56	14.58	14.60	14.57	14.58	14.57	14.56	14.55	14.57	5.0%
6-Speed Manual	12.07	12.70	13.45	13.41	13.44	13.44	13.43	13.44	13.44	13.44	13.44	13.44	13.44	6.1%
CVT	15.39	19.15	21.86	21.88	21.87	21.87	21.87	21.87	21.87	21.87	21.87	21.87	21.87	12.3%
Automated Manual Trans	12.76	12.87	12.84	12.71	12.80	12.78	12.77	12.80	12.79	12.79	12.81	12.81	12.80	14.4%
Roller Cam	97.69	97.69	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	0.2%
OHC/AdvOHV-4 Cylinder	1.53	1.55	1.00	0.98	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	-4.9%
OHC/AdvOHV-6 Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.0%
OHC/AdvOHV-8 Cylinder	0.75	0.66	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	-7.4%
4-Valve/4-Cylinder	38.78	39.24	39.71	39.09	39.52	39.43	39.37	39.48	39.45	39.48	39.53	39.54	39.49	0.3%
4-Valve/6-Cylinder	35.15	34.90	34.92	35.26	35.04	35.08	35.11	35.06	35.08	35.06	35.03	35.03	35.06	1.7%
4-Valve/8-Cylinder	16.91	16.79	16.90	17.18	16.97	17.02	17.05	16.99	17.01	17.00	16.97	16.96	16.99	1.0%
5-Valve/6-Cylinder	2.11	2.11	2.10	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	0.1%
VVT-4 Cylinder	37.22	35.43	31.74	30.69	31.09	31.01	30.95	31.05	31.02	31.05	31.10	31.11	31.06	2.8%
VVT-6 Cylinder	22.59	23.78	24.70	24.96	24.79	24.82	24.85	24.81	24.82	24.81	24.78	24.78	24.80	8.4%
VVT-8 Cylinder	9.79	10.40	10.98	11.23	11.06	11.10	11.12	11.08	11.09	11.08	11.05	11.05	11.07	5.4%
VVL-4 Cylinder	14.33	13.59	9.14	8.42	8.54	8.52	8.50	8.53	8.52	8.53	8.54	8.54	8.53	1.9%
VVL-6 Cylinder	7.55	8.59	8.80	8.94	8.85	8.87	8.89	8.86	8.87	8.86	8.85	8.85	8.86	8.5%
VVL-8 Cylinder	3.85	3.56	3.34	3.40	3.36	3.37	3.37	3.36	3.37	3.36	3.36	3.36	3.36	3.2%
Camless Valve Actuation-4cyl	3.63	5.92	9.53	9.91	9.97	9.96	9.95	9.97	9.96	9.97	9.97	9.98	9.97	--
Camless Valve Actuation-6cyl	3.32	4.76	6.57	6.64	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	--
Camless Valve Actuation-8cyl	2.21	2.80	3.37	3.40	3.38	3.38	3.39	3.38	3.38	3.38	3.38	3.38	3.38	--
Cylinder Deactivation	7.25	8.11	8.32	8.45	8.36	8.38	8.39	8.37	8.38	8.37	8.36	8.36	8.37	21.3%
Turbocharging/Supercharging	7.30	7.76	8.04	8.01	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	1.8%
Engine Friction Reduction I	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-16.8%
Engine Friction Reduction II	61.33	51.10	37.47	34.57	34.41	34.44	34.44	34.28	34.14	34.10	34.05	33.98	33.85	1.0%
Engine Friction Reduction III	33.85	42.50	51.62	52.77	52.91	52.88	52.86	52.89	52.89	52.89	52.91	52.91	52.89	--
Engine Friction Reduction IV	1.74	3.32	7.84	9.58	9.61	9.60	9.61	9.75	9.90	9.93	9.96	10.04	10.18	--
Stoichiometric GDI/4-Cylinder	16.06	17.91	22.24	21.93	22.20	22.14	22.10	22.17	22.15	22.17	22.21	22.21	22.18	31.5%
Stoichiometric GDI/6-Cylinder	7.03	8.86	11.16	11.89	11.84	11.85	11.86	11.85	11.85	11.85	11.84	11.84	11.85	28.0%
Lean Burn GDI	18.35	21.65	25.18	25.37	25.51	25.48	25.46	25.50	25.49	25.50	25.52	25.52	25.50	31.0%
5W-30 Engine Oil	21.95	15.08	9.11	9.08	9.07	9.07	9.08	9.07	9.07	9.07	9.07	9.07	9.03	-6.1%
5W-20 Engine Oil	75.79	82.66	88.63	88.66	88.67	88.66	88.66	88.66	88.66	88.66	88.67	88.67	88.66	25.1%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	--
Electric Power Steering	7.41	9.15	11.19	11.18	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	23.3%
Improved Alternator	19.90	22.83	27.50	27.47	27.49	27.49	27.48	27.49	27.49	27.49	27.49	27.49	27.49	27.5%

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Improved Oil/Water Pump	76.80	82.37	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	87.71	16.7%
Electric Oil/Water Pump	10.77	16.94	25.00	24.99	24.99	24.99	24.99	24.99	24.99	24.99	24.99	24.99	24.99	--
Tires II	20.74	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.6%
Tires III	70.65	79.22	75.61	69.73	69.72	69.72	69.72	69.59	69.42	69.35	69.31	69.14	69.03	27.3%
Tires IV	6.35	11.83	22.13	28.01	28.02	28.01	28.01	28.15	28.32	28.39	28.43	28.60	28.71	--
Front Wheel Drive	77.47	77.50	77.84	77.83	77.85	77.85	77.85	77.85	77.85	77.85	77.85	77.85	77.85	0.1%
Four Wheel Drive Improvements	5.22	5.26	5.38	5.32	5.35	5.35	5.34	5.35	5.35	5.35	5.35	5.35	5.35	11.1%
42V-Launch Assist and Regen	1.85	2.34	2.68	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	21.3%
42V-Engine Off at Idle	2.34	2.68	2.99	2.98	2.99	2.98	2.98	2.99	2.98	2.99	2.99	2.99	2.99	18.4%
Tier 2 Emissions Technology	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	97.74	4.7%
Increased Size/Weight	52.63	56.39	60.15	63.91	67.67	71.42	75.18	78.94	82.70	86.46	90.22	93.98	97.74	11.3%
Variable Compression Ratio	0.30	0.54	1.00	1.21	1.22	1.29	1.45	1.63	1.78	1.89	1.98	2.07	2.22	--
Light Truck														
Unit Body Construction	27.94	27.97	28.00	27.98	28.03	28.01	28.00	28.01	28.01	28.01	28.02	28.02	28.01	4.1%
Material Substitution II	57.02	54.78	45.48	44.47	43.62	41.95	40.65	39.77	39.32	39.20	39.07	38.90	38.74	0.8%
Material Substitution III	37.33	37.96	43.70	43.92	43.96	44.59	44.84	44.66	44.48	44.48	44.47	44.47	44.47	20.5%
Material Substitution IV	5.15	6.85	10.67	11.42	12.16	13.02	13.80	14.47	14.77	14.77	14.76	14.76	14.77	--
Material Substitution V	0.06	0.08	0.16	0.18	0.27	0.44	0.71	1.10	1.44	1.56	1.69	1.86	2.02	--
Drag Reduction II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-51.1%
Drag Reduction III	23.36	16.73	4.20	3.92	3.72	3.51	3.44	3.38	3.37	3.37	3.37	3.37	3.37	-4.8%
Drag Reduction IV	71.25	74.47	77.41	75.04	71.90	68.89	66.74	64.96	64.10	63.93	63.84	63.55	63.37	27.5%
Drag Reduction V	5.39	8.80	18.40	21.05	24.38	27.60	29.82	31.66	32.53	32.70	32.78	33.08	33.26	--
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	4.7%
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	4.7%
Advanced Low Loss Torque Converter	84.24	86.83	87.78	87.89	87.98	87.84	87.79	87.79	87.79	87.79	87.79	87.79	87.79	19.1%
Early Torque Converter Lockup	94.86	94.55	93.69	93.55	93.46	93.32	93.27	93.26	93.26	93.26	93.26	93.26	93.26	0.1%
Aggressive Shift Logic	80.36	80.35	83.85	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82	2.4%
4-Speed Automatic	30.19	29.05	25.99	25.80	25.76	25.22	24.95	24.75	24.68	24.68	24.69	24.69	24.68	-3.8%
5-Speed Automatic	34.77	34.43	33.57	33.20	33.07	32.84	32.73	32.70	32.68	32.68	32.69	32.69	32.68	0.0%
6-Speed Automatic	14.03	14.81	17.31	17.42	17.50	17.65	17.61	17.59	17.57	17.57	17.57	17.57	17.57	13.8%
6-Speed Manual	12.52	12.91	13.48	13.67	13.72	14.19	14.54	14.81	14.89	14.89	14.88	14.88	14.89	14.1%
CVT	4.15	4.47	5.33	5.46	5.56	5.70	5.75	5.76	5.76	5.76	5.77	5.77	5.76	8.8%
Automated Manual Trans	3.45	3.44	3.42	3.54	3.49	3.51	3.52	3.51	3.51	3.51	3.51	3.51	3.51	20.6%
Roller Cam	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	0.6%
OHC/AdvOHV-4 Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50.2%
OHC/AdvOHV-6 Cylinder	10.17	10.16	9.53	9.52	9.55	9.41	9.32	9.25	9.23	9.23	9.24	9.24	9.23	-4.8%
OHC/AdvOHV-8 Cylinder	15.47	15.47	15.09	15.03	15.05	14.93	14.77	14.61	14.56	14.56	14.57	14.57	14.56	-3.3%
4-Valve/4-Cylinder	8.58	8.56	8.54	8.66	8.61	8.62	8.64	8.62	8.63	8.63	8.62	8.62	8.62	0.5%
4-Valve/6-Cylinder	34.66	34.71	35.24	35.34	35.32	35.45	35.55	35.61	35.65	35.65	35.65	35.64	35.65	3.8%
4-Valve/8-Cylinder	31.12	31.11	31.61	31.45	31.47	31.58	31.72	31.90	31.93	31.93	31.94	31.94	31.93	3.5%
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
VVT-4 Cylinder	8.23	7.99	7.27	7.01	6.81	6.56	6.26	5.93	5.82	5.75	5.69	5.48	5.43	-0.7%
VVT-6 Cylinder	22.89	22.43	23.82	23.63	23.37	23.38	23.39	23.34	23.30	23.24	23.23	23.21	23.20	10.7%
VVT-8 Cylinder	22.99	22.92	24.32	24.10	24.03	24.32	24.61	24.87	24.83	24.84	24.84	24.84	24.84	12.5%
VVL-4 Cylinder	1.67	1.63	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	-12.3%
VVL-6 Cylinder	10.31	9.75	9.87	9.18	8.84	8.83	8.88	8.85	8.78	8.74	8.73	8.71	8.71	7.3%
VVL-8 Cylinder	5.41	5.66	6.40	6.32	6.27	6.30	6.31	6.31	6.22	6.22	6.22	6.22	6.22	22.6%
Camless Valve Actuation-4cyl	0.35	0.57	1.27	1.66	1.80	2.06	2.38	2.69	2.81	2.88	2.93	3.14	3.20	--
Camless Valve Actuation-6cyl	1.96	3.03	5.08	5.64	6.12	6.62	7.02	7.36	7.51	7.58	7.58	7.60	7.62	--
Camless Valve Actuation-8cyl	1.83	2.48	3.40	3.78	4.06	4.36	4.57	4.74	5.05	5.06	5.06	5.08	5.09	--
Cylinder Deactivation	14.22	14.24	15.21	15.17	15.17	15.30	15.45	15.62	15.66	15.66	15.66	15.66	15.66	22.4%

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Turbocharging/Supercharging	3.71	3.77	4.13	4.15	4.16	4.19	4.20	4.22	4.22	4.22	4.22	4.22	4.22	4.5%
Engine Friction Reduction I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.7%
Engine Friction Reduction II	49.75	39.14	19.04	13.31	11.01	10.62	9.62	8.04	6.38	5.42	4.48	3.19	2.62	-7.2%
Engine Friction Reduction III	47.88	57.27	72.77	75.76	73.67	68.61	62.58	57.25	55.09	54.90	54.72	54.19	53.44	--
Engine Friction Reduction IV	2.37	3.59	8.19	10.93	15.32	20.77	27.80	34.71	38.52	39.67	40.80	42.61	43.95	--
Stoichiometric GDI/4-Cylinder	6.53	6.34	7.24	6.98	6.78	6.53	6.23	5.90	5.79	5.72	5.67	5.46	5.41	--
Stoichiometric GDI/6-Cylinder	5.19	6.32	9.23	10.17	10.66	11.00	10.82	11.32	11.48	11.46	11.46	11.46	11.46	--
Lean Burn GDI	8.61	9.79	14.09	14.89	15.36	15.53	15.11	15.35	15.47	15.42	15.39	15.33	15.33	--
5W-30 Engine Oil	13.56	11.57	6.20	5.77	5.68	5.48	5.40	5.34	5.33	5.33	5.33	5.33	5.28	-9.3%
5W-20 Engine Oil	86.44	88.43	93.80	94.23	94.32	94.52	94.60	94.66	94.67	94.67	94.67	94.67	94.67	20.5%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	--
Electric Power Steering	4.01	4.22	5.42	5.57	5.66	5.83	5.99	6.11	6.18	6.18	6.18	6.18	6.18	24.4%
Improved Alternator	25.93	26.57	30.58	30.73	30.85	31.64	32.22	32.68	32.80	32.80	32.80	32.80	32.80	26.6%
Improved Oil/Water Pump	92.84	93.00	94.15	94.15	94.15	94.22	94.26	94.29	94.30	94.30	94.30	94.30	94.30	9.3%
Electric Oil/Water Pump	17.18	19.60	27.85	29.62	31.15	33.34	35.02	36.22	36.62	36.62	36.62	36.62	36.62	--
Tires II	11.12	5.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.5%
Tires III	83.23	85.67	80.93	75.91	70.04	62.21	54.64	48.61	45.07	43.51	42.34	40.32	39.00	19.8%
Tires IV	5.65	9.26	19.07	24.09	29.96	37.79	45.36	51.39	54.93	56.49	57.66	59.68	61.00	--
Front Wheel Drive	26.83	26.96	26.80	26.80	26.90	26.87	26.85	26.88	26.87	26.88	26.89	26.89	26.88	0.0%
Four Wheel Drive Improvements	35.17	35.49	39.57	39.53	39.51	39.77	39.91	40.02	40.04	40.03	40.02	40.02	40.03	15.9%
42V-Launch Assist and Regen	2.49	2.81	2.95	3.00	3.04	3.07	3.11	3.14	3.16	3.16	3.16	3.16	3.16	21.5%
42V-Engine Off at Idle	2.84	2.95	3.25	3.28	3.30	3.33	3.35	3.37	3.37	3.37	3.37	3.37	3.37	18.5%
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	4.7%
Increased Size/Weight	53.85	57.69	61.54	65.38	69.23	73.08	76.92	80.77	84.62	88.46	92.31	96.15	100.00	11.3%
Variable Compression Ratio	0.15	0.24	0.47	0.56	0.75	1.01	1.25	1.46	1.59	1.65	1.69	1.75	1.83	--
Light-Duty Vehicle Total														
Unit Body Construction	60.20	60.57	61.24	60.94	61.21	61.38	61.44	61.54	61.60	61.63	61.72	61.81	61.87	0.9%
Material Substitution II	41.34	34.35	24.02	23.60	23.01	22.06	21.37	20.87	20.60	20.52	20.41	20.27	20.15	-2.8%
Material Substitution III	45.30	46.88	49.87	49.62	49.62	49.99	50.13	50.04	49.96	49.96	49.97	49.98	50.00	19.2%
Material Substitution IV	11.57	16.58	23.11	23.30	23.82	24.31	24.71	25.09	25.26	25.27	25.31	25.33	25.35	35.0%
Material Substitution V	0.47	0.92	1.89	2.37	2.43	2.53	2.67	2.87	3.05	3.11	3.19	3.28	3.37	--
Drag Reduction II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.0%
Drag Reduction III	14.44	8.63	2.13	2.00	1.88	1.77	1.73	1.70	1.69	1.69	1.68	1.68	1.68	-5.6%
Drag Reduction IV	68.95	67.98	62.63	59.93	58.24	56.64	55.54	54.61	54.16	54.07	54.00	53.83	53.72	22.3%
Drag Reduction V	15.53	22.30	34.13	36.96	38.76	40.47	41.61	42.56	43.02	43.11	43.18	43.35	43.46	--
Roll-Over Technology	98.92	98.91	98.88	98.89	98.88	98.88	98.88	98.87	98.87	98.87	98.87	98.86	98.86	4.3%
Side Impact Technology	98.92	98.91	98.88	98.89	98.88	98.88	98.88	98.87	98.87	98.87	98.87	98.86	98.86	4.3%
Advanced Low Loss Torque Converter	77.24	76.62	75.56	75.83	75.72	75.60	75.56	75.51	75.49	75.47	75.43	75.40	75.38	9.0%
Early Torque Converter Lockup	85.28	83.14	81.15	81.26	81.07	80.94	80.90	80.85	80.83	80.81	80.77	80.74	80.72	0.2%
Aggressive Shift Logic	74.69	74.74	77.28	77.31	77.27	77.23	77.22	77.20	77.19	77.18	77.17	77.15	77.14	2.6%
4-Speed Automatic	23.24	19.33	16.30	16.34	16.22	15.90	15.75	15.61	15.57	15.56	15.53	15.51	15.49	-5.4%
5-Speed Automatic	26.78	26.37	25.03	24.97	24.80	24.65	24.59	24.54	24.51	24.51	24.48	24.46	24.45	-0.4%
6-Speed Automatic	12.78	14.33	15.93	16.07	16.05	16.13	16.11	16.08	16.08	16.07	16.06	16.06	16.06	7.8%
6-Speed Manual	12.31	12.81	13.46	13.54	13.59	13.82	13.99	14.13	14.17	14.17	14.16	14.16	14.16	8.6%
CVT	9.53	11.57	13.49	13.50	13.61	13.72	13.76	13.79	13.80	13.81	13.83	13.86	13.87	11.3%
Automated Manual Trans	7.91	8.00	8.07	8.03	8.08	8.11	8.12	8.13	8.14	8.15	8.16	8.18	8.18	15.2%
Roller Cam	98.89	98.88	98.87	98.88	98.87	98.86	98.86	98.86	98.86	98.86	98.85	98.85	98.85	0.4%
OHC/AdvOHV-4 Cylinder	0.73	0.75	0.50	0.48	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.50	-5.8%
OHC/AdvOHV-6 Cylinder	5.30	5.24	4.83	4.86	4.84	4.74	4.69	4.64	4.62	4.62	4.61	4.60	4.59	-5.4%
OHC/AdvOHV-8 Cylinder	8.42	8.30	7.95	7.97	7.93	7.83	7.73	7.64	7.60	7.59	7.58	7.56	7.54	-3.6%
4-Valve/4-Cylinder	23.05	23.41	23.93	23.57	23.85	23.90	23.91	23.99	24.01	24.04	24.10	24.15	24.15	0.3%

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
4-Valve/6-Cylinder	34.89	34.80	35.08	35.30	35.18	35.27	35.34	35.34	35.36	35.36	35.34	35.34	35.35	2.6%
4-Valve/8-Cylinder	24.31	24.18	24.35	24.46	24.32	24.36	24.43	24.47	24.48	24.47	24.44	24.42	24.41	2.5%
5-Valve/6-Cylinder	1.01	1.02	1.04	1.03	1.04	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.06	0.2%
VVT-4 Cylinder	22.12	21.27	19.35	18.61	18.78	18.69	18.53	18.44	18.40	18.39	18.42	18.35	18.32	2.0%
VVT-6 Cylinder	22.75	23.08	24.26	24.28	24.07	24.10	24.11	24.07	24.06	24.02	24.01	24.00	24.01	9.4%
VVT-8 Cylinder	16.67	16.86	17.74	17.80	17.64	17.77	17.91	18.00	17.97	17.96	17.94	17.92	17.91	9.0%
VVL-4 Cylinder	7.74	7.42	4.53	4.14	4.23	4.24	4.24	4.26	4.26	4.27	4.29	4.30	4.30	1.6%
VVL-6 Cylinder	8.99	9.19	9.34	9.06	8.85	8.85	8.88	8.86	8.82	8.80	8.79	8.78	8.78	7.9%
VVL-8 Cylinder	4.66	4.64	4.89	4.89	4.83	4.85	4.85	4.84	4.79	4.79	4.79	4.78	4.78	7.6%
Camless Valve Actuation-4cyl	1.92	3.16	5.35	5.70	5.83	5.98	6.14	6.32	6.38	6.42	6.46	6.57	6.60	--
Camless Valve Actuation-6cyl	2.61	3.87	5.82	6.13	6.38	6.63	6.84	7.01	7.08	7.11	7.12	7.13	7.13	--
Camless Valve Actuation-8cyl	2.01	2.63	3.39	3.59	3.72	3.87	3.98	4.06	4.22	4.22	4.22	4.22	4.23	--
Cylinder Deactivation	10.88	11.27	11.81	11.87	11.81	11.87	11.95	12.01	12.03	12.02	12.01	12.00	11.99	22.0%
Turbocharging/Supercharging	5.43	5.70	6.06	6.04	6.07	6.09	6.10	6.12	6.12	6.12	6.13	6.13	6.14	2.6%
Engine Friction Reduction I	0.39	0.39	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	-19.4%
Engine Friction Reduction II	55.30	44.93	28.13	23.72	22.55	22.43	21.95	21.11	20.24	19.75	19.29	18.65	18.33	-0.6%
Engine Friction Reduction III	41.16	50.12	62.33	64.50	63.43	60.81	57.75	55.08	53.99	53.90	53.82	53.55	53.16	--
Engine Friction Reduction IV	2.07	3.46	8.02	10.27	12.50	15.23	18.76	22.27	24.23	24.81	25.35	26.25	26.96	--
Stoichiometric GDI/4-Cylinder	11.10	11.94	14.65	14.30	14.38	14.28	14.12	14.01	13.96	13.94	13.95	13.87	13.85	32.7%
Stoichiometric GDI/6-Cylinder	6.07	7.55	10.18	11.01	11.24	11.42	11.34	11.59	11.67	11.65	11.65	11.65	11.65	31.7%
Lean Burn GDI	13.28	15.53	19.57	20.02	20.37	20.47	20.25	20.41	20.47	20.45	20.46	20.45	20.45	33.6%
5W-30 Engine Oil	17.58	13.26	7.64	7.39	7.35	7.26	7.23	7.20	7.20	7.20	7.21	7.21	7.17	-7.6%
5W-20 Engine Oil	81.34	85.64	91.25	91.50	91.53	91.62	91.65	91.67	91.67	91.67	91.66	91.65	91.65	22.2%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	--
Electric Power Steering	5.63	6.60	8.27	8.32	8.39	8.49	8.57	8.64	8.68	8.68	8.69	8.69	8.70	23.7%
Improved Alternator	23.04	24.76	29.06	29.13	29.19	29.58	29.87	30.09	30.15	30.15	30.14	30.14	30.13	27.0%
Improved Oil/Water Pump	85.16	87.86	90.97	90.99	90.97	90.99	91.00	91.01	91.01	91.01	91.00	90.99	90.99	11.5%
Electric Oil/Water Pump	14.11	18.31	26.44	27.35	28.12	29.20	30.04	30.63	30.82	30.81	30.80	30.78	30.77	--
Tires II	15.73	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53.0%
Tires III	77.20	82.55	78.31	72.88	69.88	65.94	62.13	59.06	57.22	56.42	55.85	54.79	54.11	23.2%
Tires IV	5.99	10.50	20.58	26.01	29.00	32.94	36.74	39.81	41.65	42.45	43.02	44.07	44.76	--
Front Wheel Drive	51.08	51.41	51.99	51.80	52.03	52.15	52.19	52.27	52.32	52.34	52.42	52.49	52.52	0.1%
Four Wheel Drive Improvements	20.83	20.86	22.69	22.77	22.66	22.70	22.74	22.74	22.72	22.70	22.66	22.61	22.58	15.0%
42V-Launch Assist and Regen	2.18	2.58	2.81	2.94	2.96	2.97	3.00	3.01	3.02	3.02	3.02	3.02	3.02	21.4%
42V-Engine Off at Idle	2.60	2.82	3.12	3.13	3.14	3.16	3.17	3.18	3.18	3.18	3.18	3.18	3.18	18.5%
Tier 2 Emissions Technology	98.92	98.91	98.88	98.89	98.88	98.88	98.88	98.87	98.87	98.87	98.87	98.86	98.86	4.7%
Increased Size/Weight	53.26	57.06	60.85	64.66	68.46	72.26	76.06	79.86	83.66	87.46	91.26	95.06	98.86	11.3%
Variable Compression Ratio	0.22	0.38	0.73	0.88	0.98	1.15	1.35	1.54	1.68	1.77	1.84	1.91	2.02	--

Table 58. Technology Market Penetration in Light-Duty Vehicles (percent)

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Gasoline													
Mini-compact Cars	28.45	28.93	28.94	29.08	29.50	29.95	30.43	30.60	30.71	31.51	32.31	33.33	34.70
Subcompact Cars	29.42	31.20	31.02	30.96	31.28	31.73	32.36	32.50	32.59	33.69	34.76	36.38	37.89
Compact Cars	33.04	33.35	33.14	33.04	33.46	33.95	34.52	34.64	34.71	36.02	37.17	38.90	40.53
Midsized Cars	29.46	30.45	30.25	30.14	30.38	30.68	31.14	31.23	31.30	32.50	33.70	35.30	36.35
Large Cars	27.06	29.01	28.79	28.65	28.73	28.97	29.44	29.52	29.60	30.68	31.85	33.07	33.86
Two Seater Cars	24.53	25.75	25.64	25.59	25.74	25.94	26.32	26.44	26.52	27.14	27.84	28.98	30.23
Small Pickup	23.41	23.14	23.19	23.23	23.47	23.73	24.42	25.16	25.95	26.59	27.68	28.06	28.85
Large Pickup	19.32	21.38	21.30	21.25	21.31	21.39	22.04	22.63	23.21	23.76	24.48	24.92	25.47
Small Van	25.02	25.31	25.20	25.15	25.35	25.61	26.09	26.94	27.58	27.98	29.03	29.15	29.85
Large Van	23.12	23.80	23.78	23.74	23.87	24.03	24.52	25.38	26.30	26.97	27.95	28.27	28.99
Small Utility	24.70	25.69	25.67	25.65	25.96	26.31	27.06	28.02	28.90	29.46	30.48	30.77	31.44
Large Utility	20.91	20.94	20.88	20.86	21.00	21.19	21.75	22.35	22.93	23.41	24.16	24.50	25.06
Turbo Direct Injection Diesel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	41.98	41.99	42.00	42.00	42.90	43.68	45.37	47.05
Compact Cars	44.60	44.99	44.64	44.32	44.26	44.49	45.09	45.19	45.22	47.17	48.53	50.49	51.99
Midsized Cars	39.77	41.10	40.75	40.44	40.36	40.51	40.93	40.97	40.98	42.70	44.22	46.00	47.07
Large Cars	0.00	0.00	38.83	38.52	38.30	38.24	38.46	38.47	38.45	39.96	41.48	42.97	44.04
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	30.97	30.73	30.75	30.87	31.72	32.39	33.12	33.73	34.87	35.28	35.95
Large Pickup	26.08	28.79	28.56	28.42	28.48	28.53	29.36	29.99	30.51	30.99	31.66	32.10	32.62
Small Van	0.00	0.00	0.00	0.00	0.00	34.00	34.13	34.93	35.53	35.82	36.99	37.06	38.09
Large Van	31.19	32.07	31.83	31.69	31.84	32.00	32.59	33.70	34.74	35.39	36.36	36.64	37.33
Small Utility	33.33	34.62	34.36	34.21	34.39	34.66	35.77	37.14	38.20	38.74	39.83	40.10	40.71
Large Utility	28.22	28.23	28.02	27.91	28.01	28.18	28.95	29.64	30.24	30.67	31.43	31.77	32.33
Methanol Flex													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Plug-in Gasoline Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.50	65.42	66.51	67.62	69.76	72.49
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.02	66.12
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.39	56.57	57.01	58.04
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol Flex													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.87	32.41	32.96
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	32.11	32.19	32.22	32.82	33.51	34.84	36.12
Compact Cars	0.00	0.00	0.00	0.00	33.16	33.26	33.78	33.91	33.95	35.15	36.10	37.62	39.23
Midsize Cars	29.75	30.76	30.55	30.43	30.66	30.96	31.41	31.50	31.58	32.80	34.02	35.65	36.71
Large Cars	27.33	29.30	29.08	28.93	29.01	29.24	29.70	29.79	29.86	30.97	32.17	33.40	34.20
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.71	27.00	27.39	27.95	28.78
Small Pickup	23.64	23.36	23.41	23.45	23.69	23.95	24.66	25.40	26.20	26.86	28.04	28.43	29.22
Large Pickup	19.51	21.59	21.50	21.45	21.51	21.59	22.24	22.84	23.43	23.98	24.71	25.15	25.71
Small Van	25.27	25.56	25.44	25.39	25.58	25.84	26.32	27.18	27.83	28.24	29.31	29.42	30.13
Large Van	23.35	24.03	24.01	23.97	24.10	24.27	24.76	25.62	26.60	27.28	28.28	28.60	29.32
Small Utility	0.00	0.00	25.73	25.64	25.80	26.09	26.76	27.55	28.38	28.99	30.14	30.50	31.32
Large Utility	21.12	21.14	21.08	21.06	21.20	21.39	21.96	22.56	23.15	23.63	24.39	24.73	25.29
Compressed Natural Gas													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	35.68	36.00	35.75	35.58	35.85	36.31	36.92	37.01	37.07	38.51	39.74	41.58	43.15
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	29.23	31.33	31.08	30.89	30.93	31.06	31.45	31.52	31.59	32.79	34.05	35.38	36.20
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	20.87	23.06	22.95	22.88	22.94	22.98	23.66	24.26	24.82	25.35	26.05	26.51	27.10
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	24.96	25.68	25.62	25.57	25.70	25.83	26.34	27.22	28.15	28.80	29.76	30.07	30.79
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	33.04	33.35	33.13	33.03	33.37	33.83	34.38	34.47	34.53	35.77	36.85	38.37	39.65
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	27.06	29.01	28.79	28.65	28.72	28.88	29.33	29.40	29.46	30.49	31.56	32.74	33.45
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.32	21.38	21.29	21.24	21.28	21.33	21.96	22.51	23.03	23.52	24.16	24.58	25.11
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	23.11	23.80	23.77	23.74	23.85	23.99	24.45	25.26	26.11	26.72	27.60	27.89	28.51
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	20.09	22.22	22.12	22.07	22.13	22.21	22.88	23.49	24.08	24.65	25.40	25.84	26.38
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	24.04	24.74	24.70	24.65	24.79	24.95	25.46	26.34	27.29	27.98	28.97	29.29	30.01
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gases Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	33.04	33.35	33.13	33.04	33.45	33.94	34.51	34.62	34.69	36.00	37.12	38.76	40.24
Midsize Cars	29.46	30.45	30.25	30.14	30.37	30.68	31.13	31.22	31.30	32.50	33.70	35.29	36.33
Large Cars	27.07	29.01	28.79	28.65	28.73	28.96	29.43	29.51	29.58	30.66	31.83	33.04	33.83
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.32	21.38	21.30	21.24	21.31	21.39	22.03	22.63	23.21	23.75	24.47	24.91	25.46
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	23.12	23.80	23.78	23.74	23.87	24.03	24.51	25.36	26.28	26.94	27.91	28.22	28.92
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	85.70	91.91	93.11	92.20	91.64	92.53	94.16	95.58	96.89	98.75	99.30	100.29	101.43
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	70.53	73.32	73.29	72.60	72.64	73.89	75.90	77.94	79.66	80.86	81.35	81.37	81.51
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel-Electric Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	53.20	53.12	53.05	52.99	54.30	55.18	56.73	58.46
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.90	50.02	50.81	52.20	53.17
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.58	52.12
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	45.14	45.63
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.32
Gasoline-Electric Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	45.94	45.88	45.82	46.47	47.17	48.70	50.51
Compact Cars	47.89	48.30	47.89	47.50	47.30	47.42	48.01	48.06	48.04	50.23	51.55	53.52	55.12
Midsize Cars	42.71	44.13	43.76	43.40	43.21	43.26	43.64	43.67	43.65	45.45	47.02	48.86	49.86
Large Cars	0.00	0.00	0.00	0.00	41.28	41.03	41.06	41.03	40.98	42.17	43.47	44.77	45.73
Two Seater Cars	35.56	37.30	36.98	36.73	36.71	36.77	37.03	37.07	37.09	37.85	38.82	40.18	41.31
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.16	32.42	32.63	32.94	33.17	33.57
Small Van	0.00	0.00	0.00	0.00	0.00	36.50	36.55	37.25	37.71	37.89	38.74	38.76	39.53
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.40	39.50	39.93	
Small Utility	0.00	0.00	0.00	36.88	36.63	36.60	37.39	38.42	39.12	39.50	40.41	40.62	41.34
Large Utility	30.30	30.28	30.00	29.83	29.89	30.01	30.56	31.08	31.56	31.90	32.52	32.79	33.23
Fuel Cell Methanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	61.25	62.11	59.02	58.45	58.17	58.03	58.28	58.28	58.25	58.84	59.31	59.93	60.55
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.37	51.76	52.07	52.52	52.82
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.50	47.70
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.71	40.15	40.11	40.12
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	44.74	45.01	43.49	43.07	43.10	43.25	43.82	44.37	44.72	44.74	45.02	45.03	45.10
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cell Gasoline													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	39.44	39.15	39.07	39.41	39.38	39.35	39.77	40.25	40.59	40.76
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.69	33.92	33.94	34.31	34.28	34.28
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.92	38.21	38.24	38.47	38.48	38.54
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Gasoline														
Mini-compact Cars	35.53	36.07	37.18	37.17	37.14	37.12	37.09	37.06	37.04	37.01	36.99	36.97	36.96	1.0%
Subcompact Cars	39.42	40.25	41.71	41.79	41.75	41.72	41.69	41.65	41.62	41.59	41.56	41.53	41.50	1.2%
Compact Cars	42.51	43.58	45.03	45.16	45.13	45.10	45.07	45.04	45.01	44.98	44.95	44.92	44.89	1.2%
Midsize Cars	37.71	38.67	39.63	39.74	39.71	39.69	39.66	39.64	39.62	39.59	39.56	39.54	39.52	1.1%
Large Cars	35.08	36.12	37.21	37.40	37.37	37.35	37.32	37.31	37.29	37.27	37.24	37.22	37.21	1.0%
Two Seater Cars	31.29	31.94	32.84	32.90	32.87	32.84	32.81	32.80	32.79	32.79	32.77	32.77	32.77	1.0%
Small Pickup	29.68	30.03	30.95	31.14	31.30	31.43	31.49	31.61	31.68	31.67	31.65	31.63	31.61	1.3%
Large Pickup	25.98	26.26	26.65	26.82	26.92	27.04	27.15	27.25	27.26	27.24	27.21	27.19	27.17	1.0%
Small Van	30.63	30.90	32.03	32.03	32.05	32.07	32.07	32.12	32.11	32.11	32.10	32.10	32.10	1.0%
Large Van	29.70	29.96	31.20	31.30	31.39	31.51	31.60	31.71	31.75	31.75	31.75	31.76	31.76	1.2%
Small Utility	32.20	32.53	33.77	33.88	34.03	34.21	34.33	34.48	34.53	34.53	34.52	34.52	34.51	1.2%
Large Utility	25.57	25.79	26.32	26.41	26.50	26.64	26.76	26.87	26.92	26.91	26.90	26.91	26.90	1.0%
Turbo Direct Injection Diesel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	48.68	50.09	52.09	52.24	52.19	52.14	52.09	52.05	52.00	51.96	51.91	51.86	51.82	--
Compact Cars	53.52	54.37	55.67	55.82	55.77	55.72	55.67	55.62	55.58	55.53	55.49	55.44	55.40	0.9%
Midsize Cars	48.49	49.62	50.58	50.67	50.63	50.58	50.54	50.50	50.45	50.41	50.37	50.33	50.29	0.8%
Large Cars	45.34	46.45	47.48	47.65	47.60	47.56	47.51	47.47	47.42	47.38	47.34	47.29	47.25	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	36.64	36.91	37.57	37.71	37.82	37.95	38.03	38.08	38.07	38.02	37.98	37.94	37.90	--
Large Pickup	33.11	33.36	33.75	33.88	33.99	34.12	34.24	34.33	34.33	34.30	34.26	34.23	34.19	0.7%
Small Van	39.34	39.75	41.48	41.48	41.48	41.48	41.47	41.46	41.42	41.38	41.34	41.31	41.29	--
Large Van	38.04	38.25	39.38	39.46	39.53	39.62	39.70	39.76	39.77	39.74	39.71	39.69	39.66	0.9%
Small Utility	41.43	41.71	42.93	43.03	43.13	43.25	43.33	43.39	43.39	43.35	43.32	43.29	43.25	0.9%
Large Utility	32.92	33.20	33.90	34.01	34.11	34.22	34.32	34.40	34.41	34.39	34.36	34.34	34.33	0.8%
Methanol Flex														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Plug-in Gasoline Hybrid														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	76.11	79.76	85.17	86.24	86.17	86.11	86.04	85.98	85.91	85.84	85.78	85.72	85.65	--
Midsized Cars	68.24	70.05	72.39	72.89	72.83	72.76	72.70	72.64	72.59	72.54	72.49	72.45	72.40	--
Large Cars	0.00	0.00	69.19	69.38	69.31	69.23	69.16	69.09	69.01	68.94	68.87	68.80	68.74	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	57.08	57.20	58.84	58.82	58.83	58.87	58.93	59.05	58.99	58.93	58.87	58.81	58.76	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.25	60.17	60.09	--
Small Utility	59.52	60.18	63.24	63.86	64.63	65.27	65.71	66.00	66.00	65.93	65.87	65.80	65.73	--
Large Utility	0.00	0.00	0.00	0.00	50.26	50.36	50.49	50.64	50.68	50.61	50.54	50.48	50.41	--
Ethanol														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Ethanol Flex														
Mini-compact Cars	33.47	34.19	35.66	35.69	35.66	35.64	35.63	35.62	35.62	35.61	35.60	35.61	35.60	--
Subcompact Cars	37.63	39.03	41.19	41.43	41.40	41.37	41.34	41.31	41.28	41.25	41.22	41.19	41.16	--
Compact Cars	41.21	43.16	45.18	45.41	45.38	45.35	45.32	45.30	45.27	45.24	45.21	45.18	45.15	--
Midsized Cars	38.12	39.17	40.15	40.28	40.25	40.22	40.20	40.18	40.15	40.13	40.10	40.08	40.06	1.1%
Large Cars	35.44	36.49	37.52	37.72	37.69	37.67	37.64	37.63	37.61	37.59	37.56	37.55	37.53	1.0%
Two Seater Cars	29.58	30.44	31.85	32.07	32.04	32.02	31.99	31.99	32.01	32.00	31.99	32.00	32.01	--
Small Pickup	30.08	30.43	31.37	31.56	31.72	31.86	31.91	32.03	32.10	32.09	32.07	32.05	32.03	1.3%
Large Pickup	26.25	26.54	26.94	27.11	27.21	27.33	27.45	27.55	27.56	27.54	27.51	27.50	27.47	1.0%
Small Van	30.92	31.19	32.34	32.34	32.36	32.39	32.39	32.43	32.43	32.42	32.42	32.42	32.42	1.0%
Large Van	30.08	30.36	31.64	31.75	31.84	31.96	32.05	32.16	32.20	32.20	32.20	32.21	32.21	1.2%
Small Utility	32.27	32.66	34.09	34.24	34.39	34.58	34.69	34.85	34.90	34.89	34.88	34.88	34.88	--
Large Utility	25.82	26.05	26.61	26.70	26.79	26.93	27.05	27.17	27.22	27.20	27.20	27.20	27.20	1.1%
Compressed Natural Gas														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	45.19	46.34	47.81	47.93	47.89	47.85	47.81	47.78	47.74	47.71	47.67	47.64	47.60	1.2%
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	37.48	38.43	39.51	39.70	39.66	39.63	39.59	39.56	39.54	39.51	39.48	39.46	39.43	1.0%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	27.63	27.92	28.32	28.50	28.60	28.71	28.82	28.90	28.91	28.88	28.85	28.83	28.80	0.9%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	31.53	31.82	33.05	33.16	33.25	33.36	33.44	33.54	33.56	33.54	33.53	33.52	33.52	1.1%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Compressed Natural Gas Bi-Fuel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	41.20	42.15	43.26	43.35	43.31	43.28	43.24	43.21	43.17	43.14	43.10	43.07	43.04	1.1%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	34.47	35.29	36.18	36.33	36.30	36.26	36.23	36.21	36.19	36.17	36.14	36.12	36.10	0.9%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	25.57	25.81	26.13	26.26	26.35	26.47	26.57	26.66	26.67	26.64	26.62	26.59	26.56	0.9%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	29.15	29.39	30.36	30.44	30.51	30.60	30.69	30.76	30.79	30.79	30.78	30.78	30.77	1.1%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	26.88	27.14	27.51	27.66	27.77	27.91	28.03	28.14	28.16	28.14	28.11	28.09	28.07	1.0%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	30.70	30.95	32.14	32.24	32.32	32.42	32.52	32.62	32.65	32.65	32.64	32.65	32.66	1.2%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquefied Petroleum Gases Bi-Fuel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	42.12	43.15	44.58	44.70	44.67	44.63	44.60	44.57	44.54	44.51	44.48	44.45	44.42	1.2%
Midsize Cars	37.69	38.65	39.60	39.71	39.68	39.65	39.63	39.60	39.57	39.54	39.51	39.48	39.46	1.1%
Large Cars	35.04	36.07	37.16	37.35	37.32	37.29	37.26	37.24	37.22	37.20	37.17	37.15	37.13	1.0%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	25.97	26.24	26.62	26.78	26.88	26.99	27.11	27.20	27.20	27.18	27.16	27.13	27.11	1.0%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	29.62	29.88	30.99	31.09	31.18	31.29	31.39	31.48	31.52	31.52	31.51	31.52	31.50	1.2%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	102.53	103.26	104.11	104.08	103.98	103.87	103.77	103.66	103.57	103.47	103.37	103.29	103.20	0.5%
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	81.79	81.84	82.43	82.36	82.31	82.33	82.34	82.30	82.25	82.15	82.06	81.97	81.88	0.5%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel-Electric Hybrid														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	64.86	64.90	64.83	64.77	64.70	64.64	64.57	64.50	64.44	64.38	64.32	--
Compact Cars	60.43	62.23	64.26	64.59	64.53	64.48	64.42	64.36	64.31	64.25	64.20	64.15	64.09	--
Midsized Cars	54.57	55.76	57.20	57.64	57.59	57.54	57.49	57.44	57.39	57.34	57.29	57.24	57.19	--
Large Cars	53.03	53.82	54.78	55.02	54.96	54.91	54.86	54.81	54.77	54.73	54.68	54.64	54.60	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	46.45	46.63	47.95	47.93	47.93	47.93	47.93	47.93	47.89	47.84	47.79	47.75	47.70	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	52.31	52.35	52.54	52.79	52.94	53.07	53.08	53.01	52.95	52.89	52.85	--
Large Utility	39.60	39.75	40.37	40.49	40.60	40.74	40.89	41.03	41.07	41.04	41.01	41.00	40.98	--
Gasoline-Electric Hybrid														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	52.27	53.69	55.81	55.95	55.90	55.85	55.80	55.75	55.70	55.65	55.60	55.55	55.51	--
Compact Cars	56.67	57.57	58.89	59.05	59.00	58.96	58.91	58.86	58.81	58.76	58.72	58.67	58.62	0.8%
Midsized Cars	51.31	52.42	53.35	53.45	53.41	53.37	53.32	53.28	53.24	53.19	53.15	53.11	53.06	0.8%
Large Cars	47.26	48.66	50.21	50.46	50.41	50.37	50.32	50.28	50.23	50.19	50.15	50.10	50.06	--
Two Seater Cars	42.52	43.32	44.47	44.53	44.49	44.44	44.40	44.35	44.31	44.27	44.23	44.18	44.14	0.7%
Small Pickup	0.00	0.00	43.64	43.68	43.74	43.87	44.00	44.14	44.15	44.09	44.03	43.98	43.93	--
Large Pickup	34.00	34.35	34.81	34.98	35.12	35.26	35.38	35.48	35.48	35.44	35.40	35.37	35.33	--
Small Van	40.47	40.79	42.11	42.10	42.10	42.09	42.08	42.06	42.01	41.97	41.92	41.89	41.86	--
Large Van	40.39	40.57	41.53	41.61	41.70	41.80	41.89	41.97	41.99	41.96	41.93	41.91	41.88	--
Small Utility	42.13	42.48	43.79	43.91	44.03	44.15	44.24	44.30	44.29	44.25	44.21	44.17	44.13	--
Large Utility	33.74	33.99	34.65	34.75	34.85	34.95	35.05	35.14	35.14	35.11	35.09	35.07	35.05	0.6%
Fuel Cell Methanol														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Fuel Cell Hydrogen														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	61.46	61.91	62.54	62.52	62.46	62.40	62.33	62.27	62.21	62.15	62.09	62.02	61.96	0.0%
Compact Cars	60.66	60.95	61.62	61.63	61.57	61.51	61.45	61.39	61.33	61.27	61.21	61.15	61.09	--
Midsized Cars	53.41	54.08	54.57	54.55	54.50	54.44	54.39	54.33	54.28	54.23	54.17	54.12	54.07	--
Large Cars	48.09	48.48	48.97	48.97	48.92	48.87	48.82	48.78	48.73	48.68	48.64	48.59	48.55	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	40.29	40.27	40.63	40.58	40.53	40.49	40.45	40.40	40.36	40.31	40.27	40.23	40.19	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	45.26	45.29	45.61	45.57	45.55	45.56	45.56	45.54	45.51	45.46	45.41	45.36	45.31	0.0%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.50	34.47	34.43	34.39	34.35	34.31	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cell Gasoline														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Cars	41.09	41.43	41.85	41.85	41.80	41.76	41.72	41.68	41.64	41.60	41.56	41.53	41.49	--
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Van	34.43	34.41	34.72	34.68	34.64	34.60	34.56	34.53	34.49	34.45	34.41	34.38	34.34	--
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Small Utility	38.68	38.70	38.98	38.95	38.92	38.93	38.94	38.92	38.89	38.85	38.80	38.76	38.72	--
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--

Table 59. New Light-Duty Vehicle Fuel Economy (miles per gallon)

-- = Not applicable.

Sources: 2005 and 2006 values derived using: National Highway Traffic and Safety Administration, Final Year Fuel Economy Reports from Auto Manufacturers, and Energy Information Administration (EIA), AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Gasoline													
Mini-compact Cars	29.8	29.3	29.4	29.5	29.6	29.7	29.8	29.8	29.8	29.9	30.1	30.3	30.6
Subcompact Cars	21.6	21.9	22.0	22.1	22.2	22.3	22.4	22.4	22.4	22.6	22.8	23.1	23.3
Compact Cars	17.4	18.0	18.1	18.2	18.3	18.4	18.4	18.5	18.5	18.6	18.8	19.1	19.4
Midsize Cars	23.9	24.2	24.3	24.4	24.5	24.6	24.6	24.6	24.7	24.8	25.1	25.4	25.6
Large Cars	29.9	33.5	33.6	33.7	33.8	33.9	33.9	34.0	34.0	34.2	34.4	34.7	34.9
Two Seater Cars	45.2	46.4	46.5	46.6	46.7	46.7	46.8	46.8	46.9	47.0	47.1	47.4	47.6
Small Pickup	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	18.0	18.0	18.2
Large Pickup	21.0	21.4	21.5	21.6	21.7	21.8	21.9	22.1	22.2	22.3	22.5	22.6	22.7
Small Van	24.8	25.3	25.4	25.5	25.6	25.7	25.8	26.0	26.1	26.2	26.5	26.5	26.7
Large Van	25.0	25.3	25.4	25.6	25.6	25.7	25.8	26.0	26.2	26.3	26.5	26.5	26.7
Small Utility	24.3	24.6	24.7	24.8	24.9	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.0
Large Utility	34.7	35.0	35.1	35.2	35.3	35.4	35.5	35.7	35.8	36.0	36.2	36.3	36.4
Turbo Direct Injection Diesel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	23.9	23.9	23.9	23.9	24.0	24.1	24.3	24.5
Compact Cars	18.8	19.4	19.4	19.5	19.6	19.6	19.6	19.6	19.6	19.7	19.9	20.1	20.3
Midsize Cars	26.0	26.2	26.3	26.3	26.3	26.4	26.4	26.3	26.3	26.5	26.6	26.8	27.0
Large Cars	0.0	0.0	35.8	35.6	35.7	35.7	35.7	35.7	35.7	35.8	36.0	36.2	36.4
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	20.2	20.2	20.1	20.2	20.2	20.2	20.3	20.3	20.4	20.4	20.5
Large Pickup	22.8	23.2	23.2	23.3	23.4	23.5	23.6	23.7	23.7	23.8	23.9	24.0	24.1
Small Van	0.0	0.0	0.0	0.0	0.0	28.8	28.5	28.5	28.6	28.5	28.7	28.7	28.8
Large Van	27.0	27.4	27.5	27.5	27.6	27.6	27.6	27.7	27.8	27.8	28.0	28.0	28.1
Small Utility	26.7	26.9	27.0	27.1	27.2	27.2	27.4	27.5	27.7	27.7	27.9	28.0	28.0
Large Utility	36.4	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8
Methanol Flex													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Plug-in Gasoline Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	24.1	24.1	24.2	24.4	24.7
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8	31.9
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.4	33.5	33.5
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol Flex													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	32.4	32.4
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	24.1	23.6	23.6	23.5	23.6	23.7	23.9
Compact Cars	0.0	0.0	0.0	0.0	19.5	19.1	19.0	19.0	19.0	19.0	19.1	19.3	19.5
Midsized Cars	24.7	25.0	24.7	24.8	24.9	24.9	25.0	25.0	25.0	25.2	25.5	25.8	26.0
Large Cars	31.5	34.9	34.5	34.5	34.5	34.6	34.6	34.5	34.4	34.6	34.8	35.1	35.3
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.2	49.2	49.3	49.3	49.5
Small Pickup	19.6	19.7	19.6	19.5	19.3	19.1	19.0	19.0	18.9	18.9	18.9	18.9	19.1
Large Pickup	22.5	22.9	22.8	22.6	22.6	22.4	22.3	22.4	22.6	22.7	22.9	23.0	23.1
Small Van	27.1	27.8	27.6	27.4	27.5	27.4	27.2	27.2	27.2	27.1	27.3	27.3	27.4
Large Van	26.7	27.1	27.0	26.9	26.9	26.7	26.6	26.6	26.6	26.6	26.8	26.9	27.1
Small Utility	0.0	0.0	25.1	25.2	25.3	25.4	25.5	25.7	25.8	25.9	26.1	26.2	26.4
Large Utility	35.1	35.4	35.5	35.6	35.7	35.8	35.9	36.1	36.2	36.4	36.6	36.7	36.8
Compressed Natural Gas													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	24.3	24.9	25.0	25.1	25.2	25.3	25.3	25.3	25.4	25.5	25.8	26.1	26.3
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	37.1	40.8	40.9	41.0	41.1	41.1	41.2	41.2	41.2	41.4	41.6	41.9	42.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	28.3	28.7	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.9
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	32.2	32.6	32.7	32.8	32.9	33.0	33.1	33.2	33.4	33.5	33.7	33.8	33.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	23.1	23.7	23.8	23.9	23.9	24.0	24.1	24.1	24.1	24.3	24.5	24.8	25.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	36.1	39.7	39.8	39.9	40.0	40.1	40.1	40.2	40.2	40.4	40.6	40.9	41.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	27.2	27.6	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.6	28.7	28.8
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	31.2	31.5	31.7	31.8	31.9	31.9	32.0	32.2	32.4	32.5	32.7	32.7	32.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	27.5	27.9	28.0	28.1	28.2	28.3	28.4	28.5	28.7	28.8	29.0	29.1	29.2
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	31.5	31.8	32.0	32.1	32.1	32.2	32.3	32.5	32.7	32.8	33.0	33.0	33.2
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	22.5	23.1	23.2	23.3	23.4	23.5	23.5	23.5	23.6	23.7	23.9	24.2	24.5
Midsized Cars	29.2	29.5	29.6	29.7	29.8	29.8	29.9	29.9	30.0	30.1	30.4	30.7	30.9
Large Cars	35.2	38.8	38.9	39.0	39.1	39.2	39.2	39.3	39.3	39.5	39.7	40.0	40.2
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	26.3	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.5	27.6	27.8	27.9	28.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	30.2	30.6	30.7	30.9	30.9	31.0	31.1	31.3	31.5	31.6	31.8	31.9	32.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	76.4	79.2	80.0	79.6	79.2	79.0	78.8	78.6	78.4	78.2	77.6	77.5	77.3
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	58.8	60.9	62.5	62.0	61.4	61.0	60.6	60.1	59.7	59.6	58.9	58.9	58.9
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel-Electric Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	25.1	25.0	25.0	24.9	25.0	25.0	25.2	25.3
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	31.8	31.9	32.0	32.1
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.3	42.4
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	35.4	35.4
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.4
Gasoline-Electric Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	26.6	25.7	25.5	25.5	25.4	25.5	25.6
Compact Cars	21.2	21.7	21.3	21.3	21.7	21.7	21.5	21.3	21.1	21.1	21.1	21.2	21.2
Midsized Cars	27.2	27.1	27.1	27.1	27.0	27.0	27.0	27.0	27.0	27.1	27.1	27.4	27.5
Large Cars	0.0	0.0	0.0	0.0	37.4	36.8	36.7	36.6	36.5	36.6	36.7	36.8	37.0
Two Seater Cars	51.4	52.5	52.5	52.5	52.5	52.5	52.4	52.4	52.4	52.5	52.5	52.7	52.9
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4	27.3	27.1	26.8	26.7	26.6
Small Van	0.0	0.0	0.0	0.0	0.0	32.4	31.0	30.8	30.6	30.4	30.2	30.1	30.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.2	29.7	29.7
Small Utility	0.0	0.0	0.0	28.7	28.1	28.0	28.0	28.0	28.0	28.0	28.1	28.1	28.2
Large Utility	40.0	39.6	39.6	39.6	39.5	39.5	39.4	39.4	39.4	39.4	39.4	39.5	39.6
Fuel Cell Methanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	81.1	77.2	74.8	73.3	71.6	70.0	68.0	66.5	65.0	63.2	61.5	59.9	58.5
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.1	70.2	68.4	66.7	65.1
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.7	78.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.2	79.6	77.7	75.9
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	98.4	95.7	92.3	90.2	87.7	85.1	82.1	79.5	77.1	75.2	73.1	71.4	69.7
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cell Gasoline													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	122.1	118.8	115.3	111.0	107.7	104.6	100.8	97.1	93.9	91.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.8	107.6	103.9	99.7	96.6	93.5
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.9	98.1	94.9	91.4	88.6	85.7
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Price													
Cars	23.2	24.9	24.9	24.9	25.4	25.5	25.4	25.5	25.5	25.7	26.0	26.3	26.4
Trucks	26.5	26.8	27.0	27.2	27.2	27.3	27.5	27.7	27.8	28.0	28.3	28.4	28.6
Light Duty Vehicles	24.9	25.8	25.9	26.0	26.2	26.4	26.5	26.6	26.7	26.9	27.2	27.4	27.6

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Gasoline														
Mini-compact Cars	30.8	30.9	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	0.3%
Subcompact Cars	23.6	23.8	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	0.4%
Compact Cars	19.7	19.8	20.0	20.0	20.0	20.0	20.1	20.1	20.1	20.1	20.1	20.1	20.1	0.4%
Midsized Cars	25.9	26.1	26.3	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	0.4%
Large Cars	35.2	35.4	35.6	35.6	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	0.3%
Two Seater Cars	47.8	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.2	0.2%
Small Pickup	18.3	18.4	18.6	18.6	18.7	18.7	18.7	18.8	18.8	18.8	18.8	18.8	18.8	0.5%
Large Pickup	22.8	22.9	23.0	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.2	0.3%
Small Van	26.9	27.0	27.3	27.3	27.3	27.3	27.3	27.3	27.4	27.4	27.4	27.4	27.4	0.3%
Large Van	26.9	26.9	27.2	27.2	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.3	27.4	0.3%
Small Utility	26.2	26.3	26.6	26.6	26.6	26.6	26.7	26.7	26.8	26.8	26.8	26.8	26.8	0.4%
Large Utility	36.6	36.6	36.8	36.8	36.9	36.9	36.9	37.0	37.0	37.0	37.0	37.0	37.0	0.2%
Turbo Direct Injection Diesel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	24.7	24.9	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.1	--
Compact Cars	20.4	20.6	20.7	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	0.3%
Midsized Cars	27.2	27.4	27.5	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	0.2%
Large Cars	36.6	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	20.5	20.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	--
Large Pickup	24.2	24.2	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.5	24.5	24.5	0.2%
Small Van	29.0	29.0	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	--
Large Van	28.3	28.3	28.5	28.5	28.5	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	0.2%
Small Utility	28.2	28.2	28.4	28.4	28.5	28.5	28.5	28.6	28.6	28.6	28.6	28.6	28.6	0.3%
Large Utility	37.9	38.0	38.1	38.2	38.2	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.3	0.2%
Methanol Flex														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Plug-in Gasoline Hybrid														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	25.1	25.4	25.9	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	--
Midsized Cars	32.0	32.2	32.5	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.5	32.3	--
Large Cars	0.0	0.0	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	35.0	35.0	35.1	35.2	35.2	35.2	35.2	35.2	35.2	35.3	35.3	35.3	35.3	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	35.3	35.3	--
Small Utility	33.7	33.8	34.2	34.3	34.4	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.6	--
Large Utility	0.0	0.0	0.0	0.0	45.1	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2	--
Ethanol														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol Flex														
Mini-compact Cars	32.6	32.7	32.9	32.8	32.8	32.9	32.9	32.8	32.8	32.8	32.7	32.7	32.6	--
Subcompact Cars	24.1	24.4	24.6	24.6	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	--
Compact Cars	19.8	20.1	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	--
Midsized Cars	26.3	26.5	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	0.3%
Large Cars	35.6	35.8	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	0.1%
Two Seater Cars	49.7	49.9	50.0	50.0	50.0	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	--
Small Pickup	19.2	19.3	19.5	19.3	19.4	19.6	19.7	19.7	19.7	19.7	19.7	19.8	19.7	0.0%
Large Pickup	23.2	23.3	23.4	23.4	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.6	23.6	0.1%
Small Van	27.6	27.7	28.0	27.9	27.9	28.1	28.1	28.1	28.2	28.2	28.2	28.2	28.2	0.1%
Large Van	27.2	27.3	27.5	27.5	27.6	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.7	0.1%
Small Utility	26.6	26.7	26.9	27.0	27.0	27.1	27.1	27.1	27.1	27.2	27.2	27.2	27.2	--
Large Utility	37.0	37.0	37.2	37.2	37.2	37.3	37.3	37.3	37.4	37.4	37.4	37.4	37.4	0.2%
Compressed Natural Gas														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	26.7	26.9	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	0.4%
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	42.4	42.6	42.8	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	30.0	30.1	30.2	30.2	30.3	30.3	30.3	30.3	30.4	30.4	30.4	30.4	30.4	0.2%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	34.1	34.2	34.4	34.5	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.6	34.6	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Compressed Natural Gas Bi-Fuel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	25.3	25.5	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	0.3%
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	41.3	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.8	41.8	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	28.9	29.0	29.1	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	33.0	33.1	33.3	33.4	33.4	33.4	33.4	33.5	33.5	33.5	33.5	33.5	33.5	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Liquefied Petroleum Gases														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	29.3	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.7	29.7	29.7	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	33.3	33.4	33.6	33.6	33.7	33.7	33.7	33.7	33.8	33.8	33.8	33.8	33.8	0.2%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Liquefied Petroleum Gases Bi-Fuel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	24.8	25.0	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	0.4%
Midsize Cars	31.2	31.4	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	0.3%
Large Cars	40.5	40.7	40.9	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	28.1	28.2	28.3	28.4	28.4	28.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	32.2	32.2	32.5	32.5	32.6	32.6	32.6	32.7	32.7	32.7	32.7	32.7	32.7	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	77.2	77.1	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1	77.1	-0.1%
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	58.8	58.8	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.8	-0.1%
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel-Electric Hybrid														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	--
Compact Cars	25.5	25.7	25.9	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	--
Midsized Cars	32.2	32.4	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	--
Large Cars	42.5	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.8	42.8	42.8	42.8	42.8	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	35.5	35.5	35.7	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.9	35.9	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	35.2	35.2	35.2	35.3	35.3	35.3	35.4	35.4	35.4	35.4	35.4	--
Large Utility	45.4	45.5	45.6	45.6	45.6	45.6	45.7	45.7	45.8	45.8	45.8	45.8	45.8	--
Gasoline-Electric Hybrid														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	25.7	25.7	25.9	25.9	25.9	25.9	25.9	25.9	25.8	25.8	25.8	25.8	25.8	--
Compact Cars	21.3	21.4	21.5	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	0.0%
Midsized Cars	27.7	27.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	0.1%
Large Cars	37.2	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	--
Two Seater Cars	53.1	53.1	53.2	53.2	53.2	53.1	53.1	53.1	53.0	53.0	53.0	52.9	52.9	0.0%
Small Pickup	0.0	0.0	24.2	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	--
Large Pickup	26.6	26.5	26.6	26.6	26.6	26.6	26.7	26.7	26.7	26.7	26.6	26.6	26.6	--
Small Van	30.0	29.9	30.1	30.1	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.9	--
Large Van	29.8	29.8	29.9	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.1	30.1	--
Small Utility	28.4	28.4	28.6	28.7	28.7	28.7	28.7	28.8	28.8	28.8	28.8	28.8	28.8	--
Large Utility	39.7	39.8	39.9	39.9	39.9	40.0	40.0	40.0	40.0	40.1	40.1	40.1	40.1	0.1%
Fuel Cell Methanol														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	56.9	55.7	54.4	53.5	52.5	51.7	50.8	50.0	49.3	48.5	47.9	47.2	46.6	-2.1%
Compact Cars	54.8	53.7	52.3	51.4	50.4	49.6	48.7	47.8	47.1	46.4	45.7	45.0	44.4	--
Midsized Cars	63.4	61.9	60.4	59.4	58.3	57.3	56.4	55.4	54.5	53.7	52.9	52.2	51.5	--
Large Cars	76.3	74.7	73.0	71.8	70.6	69.6	68.5	67.4	66.4	65.5	64.7	63.9	63.1	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	74.0	72.4	70.4	69.0	67.6	66.3	65.0	63.7	62.5	61.4	60.4	59.4	58.5	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	68.0	66.5	64.9	63.6	62.3	61.1	59.9	58.8	57.7	56.8	55.9	55.0	54.1	-2.3%
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0	77.7	76.4	75.2	74.0	72.9	--

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cell Gasoline														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Midsized Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Cars	88.3	85.5	82.8	82.8	82.9	82.9	83.0	83.0	83.1	83.1	83.2	83.2	83.2	--
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Van	90.4	87.6	84.4	84.5	84.5	84.6	84.7	84.7	84.8	84.8	84.9	85.0	85.0	--
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Small Utility	83.0	80.5	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.9	78.0	78.0	78.1	--
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Average Price														
Cars	26.7	26.9	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	0.4%
Trucks	28.8	28.9	29.2	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	0.4%
Light Duty Vehicles	27.8	27.9	28.2	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.3	28.3	0.4%

Table 60. New Light-Duty Vehicle Prices (thousands 2006 dollars)

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Gasoline													
Mini-compact Cars	440	450	450	452	459	466	473	476	477	490	502	518	539
Subcompact Cars	444	469	466	465	470	477	486	488	490	506	522	546	569
Compact Cars	470	478	475	474	479	486	494	496	497	516	533	558	581
Midsize Cars	518	538	535	533	537	542	551	552	554	574	595	623	642
Large Cars	491	539	535	532	533	538	547	548	549	570	591	614	629
Two Seater Cars	434	459	457	455	458	461	468	470	471	482	495	515	537
Small Pickup	493	485	486	487	492	497	512	527	544	558	581	590	606
Large Pickup	543	601	599	597	599	601	620	637	654	670	690	704	720
Small Van	514	508	506	505	509	514	524	541	553	561	583	585	599
Large Van	518	551	550	549	552	556	568	588	610	626	648	657	674
Small Utility	460	475	475	475	480	487	501	519	535	546	565	570	583
Large Utility	528	523	522	521	525	529	543	558	573	585	604	613	627
Turbo Direct Injection Diesel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	643	656	659	661	683	705	738	768
Compact Cars	634	646	641	639	647	656	668	670	671	697	720	754	785
Midsize Cars	699	727	722	719	725	732	743	746	747	775	803	841	866
Large Cars	0	0	722	718	720	726	738	740	742	769	799	829	849
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	656	657	664	671	691	712	734	754	784	796	818
Large Pickup	734	812	808	806	809	812	838	861	883	905	932	950	972
Small Van	0	0	0	0	0	694	707	730	747	758	787	789	809
Large Van	699	743	742	741	745	750	767	794	823	845	875	887	910
Small Utility	621	642	641	641	648	657	676	700	722	737	762	770	787
Large Utility	713	706	704	704	708	715	734	754	773	789	815	827	846
Methanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Plug-in Gasoline Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	620	621	645	666	698	726
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	778	802
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	682	706	713	728
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	367	378	394
Subcompact Cars	0	0	0	0	0	0	355	356	357	369	381	399	415
Compact Cars	0	0	0	0	350	355	361	362	363	377	389	407	424
Midsized Cars	378	393	390	389	392	396	402	403	404	419	434	454	468
Large Cars	359	393	390	388	389	393	399	400	401	416	432	448	459
Two Seater Cars	0	0	0	0	0	0	0	0	344	352	361	376	392
Small Pickup	360	354	355	355	359	363	374	385	397	407	424	430	443
Large Pickup	397	439	437	436	437	439	453	465	477	489	504	514	525
Small Van	375	371	369	369	371	375	382	395	404	410	425	427	437
Large Van	378	402	401	401	403	406	415	429	445	457	473	480	492
Small Utility	0	0	347	346	351	355	366	379	391	398	412	416	425
Large Utility	386	382	381	381	383	386	397	408	418	427	441	447	457
Compressed Natural Gas													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	282	287	285	284	288	292	297	298	298	310	320	335	349
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	295	323	321	319	320	323	328	329	330	342	355	368	377
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	326	361	359	358	359	361	372	382	392	402	414	422	432
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	311	330	330	329	331	334	341	353	366	376	389	394	404
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	235	239	238	237	240	243	247	248	248	258	267	279	291
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	246	269	267	266	267	269	273	274	275	285	296	307	314
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	272	301	299	299	299	301	310	319	327	335	345	352	360
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	259	275	275	275	276	278	284	294	305	313	324	329	337
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gases													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	462	511	509	508	509	511	527	542	556	570	587	598	612
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	440	468	467	467	469	473	483	500	518	532	551	559	573
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gases Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	376	383	380	379	384	389	396	397	398	413	426	447	465
Midsized Cars	414	431	428	426	429	434	440	442	443	459	476	498	513
Large Cars	393	431	428	426	427	430	437	439	440	456	473	491	503
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	435	481	479	478	479	481	496	510	523	536	552	563	576
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	414	440	440	439	442	445	454	470	488	501	519	526	539
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Electric													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	80
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Diesel-Electric Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	632	643	645	646	671	693	726	755
Midsized Cars	0	0	0	0	0	0	0	0	720	747	773	809	834
Large Cars	0	0	0	0	0	0	0	0	0	0	0	798	818
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	757	760	779
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	815
Gasoline-Electric Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	608	610	612	632	652	683	711
Compact Cars	587	598	594	592	599	608	618	620	621	645	666	698	726
Midsized Cars	647	673	668	666	671	678	688	690	692	718	743	778	802
Large Cars	0	0	0	0	667	672	683	685	687	712	739	768	786
Two Seater Cars	542	573	571	569	572	576	584	587	589	603	619	644	671
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	797	818	838	863	880	900
Small Van	0	0	0	0	0	643	654	676	692	702	728	731	749
Large Van	0	0	0	0	0	0	0	0	0	0	811	822	842
Small Utility	0	0	0	593	600	608	626	648	669	682	706	713	728
Large Utility	661	654	652	652	656	662	679	698	716	731	755	766	783
Fuel Cell Methanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Cell Hydrogen													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	444	469	466	465	470	477	486	488	490	506	522	546	569
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	554	574	595	623	642
Large Cars	0	0	0	0	0	0	0	0	0	0	0	614	629
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	561	583	585	599
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	460	475	475	475	480	487	501	519	535	546	565	570	583
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fuel Cell Gasoline													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	532	533	538	547	548	549	570	591	614	629
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	541	553	561	583	585	599
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	519	535	546	565	570	583
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Gasoline														
Mini-compact Cars	552	561	578	578	577	577	577	576	576	575	575	575	575	1.0%
Subcompact Cars	592	605	626	628	627	627	626	626	625	625	624	624	623	1.2%
Compact Cars	610	626	646	649	648	648	647	647	646	646	646	645	645	1.3%
Midsized Cars	665	682	699	701	701	700	700	700	699	699	698	698	697	1.1%
Large Cars	652	671	692	696	695	695	694	694	693	693	693	692	692	1.0%
Two Seater Cars	556	568	584	585	584	584	583	583	583	583	582	582	582	1.0%
Small Pickup	623	631	649	654	658	661	662	665	667	667	666	666	665	1.3%
Large Pickup	734	742	752	758	761	765	768	771	772	771	770	770	769	1.0%
Small Van	615	620	643	643	643	643	644	644	644	644	644	644	644	1.0%
Large Van	690	696	723	726	729	733	736	739	740	740	740	740	740	1.2%
Small Utility	597	604	626	628	631	635	638	641	642	642	642	642	642	1.3%
Large Utility	640	645	658	661	663	667	670	673	674	674	674	674	674	1.1%
Turbo Direct Injection Diesel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	799	816	846	847	846	846	845	845	844	843	843	842	841	--
Compact Cars	824	846	873	876	875	874	874	873	873	872	871	871	870	1.3%
Midsized Cars	898	920	944	947	946	946	945	944	944	943	943	942	941	1.1%
Large Cars	880	906	934	939	938	938	937	937	936	936	935	934	934	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	842	852	877	883	888	892	894	898	900	900	899	899	898	--
Large Pickup	991	1002	1016	1023	1028	1033	1037	1041	1042	1041	1040	1039	1038	1.0%
Small Van	830	837	868	868	868	869	869	870	870	870	869	869	870	--
Large Van	931	940	976	981	984	989	993	998	999	999	999	999	999	1.2%
Small Utility	806	815	845	848	852	858	861	866	867	867	867	867	866	1.3%
Large Utility	864	871	889	892	895	900	904	908	910	910	909	910	909	1.1%
Methanol Flex														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Plug-in Gasoline Hybrid														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	763	783	808	811	810	810	809	809	808	807	807	806	806	--
Midsized Cars	832	852	874	877	876	876	875	874	874	873	873	872	872	--
Large Cars	0	0	865	869	869	868	868	867	867	866	866	865	865	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	768	775	804	804	804	804	804	805	805	805	805	805	805	--
Large Van	0	0	0	0	0	0	0	0	0	0	925	925	925	--
Small Utility	746	754	782	785	789	794	797	802	803	803	802	802	802	--
Large Utility	0	0	0	0	829	833	837	841	843	842	842	842	842	--
Ethanol														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Ethanol Flex														
Mini-compact Cars	403	409	422	422	422	421	421	421	420	420	420	420	419	--
Subcompact Cars	432	441	457	458	458	457	457	457	456	456	456	455	455	--
Compact Cars	446	457	472	473	473	473	472	472	472	472	471	471	471	--
Midsized Cars	486	498	511	512	512	511	511	511	510	510	510	509	509	1.1%
Large Cars	476	490	505	508	507	507	507	506	506	506	506	505	505	1.0%
Two Seater Cars	406	414	426	427	426	426	426	425	425	425	425	425	425	--
Small Pickup	455	461	474	477	480	483	483	486	487	487	486	486	486	1.3%
Large Pickup	536	542	549	553	556	558	561	563	563	563	562	562	561	1.0%
Small Van	449	453	469	469	469	470	470	470	470	470	470	470	470	1.0%
Large Van	503	508	528	530	532	535	537	539	540	540	540	540	540	1.2%
Small Utility	436	441	457	459	461	464	466	468	469	469	469	469	468	--
Large Utility	467	471	481	482	484	487	489	491	492	492	492	492	492	1.1%
Compressed Natural Gas														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	366	376	388	389	389	389	388	388	388	388	387	387	387	1.3%
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	391	403	415	417	417	417	416	416	416	416	416	415	415	1.0%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	440	445	451	455	457	459	461	463	463	463	462	462	461	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	414	418	434	436	438	440	441	443	444	444	444	444	444	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Compressed Natural Gas Bi-Fuel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	305	313	323	324	324	324	324	323	323	323	323	323	322	1.3%
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	326	336	346	348	348	347	347	347	347	347	346	346	346	1.0%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	367	371	376	379	381	382	384	386	386	386	385	385	384	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	345	348	362	363	365	366	368	369	370	370	370	370	370	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Liquefied Petroleum Gases														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	624	631	639	644	647	650	653	656	656	655	655	654	653	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	586	592	615	617	620	623	625	628	629	629	629	629	629	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Liquefied Petroleum Gases Bi-Fuel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	488	501	517	519	518	518	518	517	517	517	516	516	516	1.3%
Midsized Cars	532	545	560	561	561	560	560	560	559	559	559	558	558	1.1%
Large Cars	521	537	553	556	556	556	555	555	555	554	554	554	554	1.0%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	587	594	602	606	609	612	615	617	617	617	616	616	615	1.0%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	552	557	579	581	583	586	589	591	592	592	592	592	592	1.2%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Electric														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	80	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Diesel-Electric Hybrid														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	814	816	815	814	814	813	813	812	811	811	810	--
Compact Cars	794	814	840	843	843	842	841	841	840	840	839	839	838	--
Midsized Cars	865	886	909	912	911	911	910	909	909	908	908	907	907	--
Large Cars	847	873	899	904	904	903	902	902	902	901	900	900	899	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	799	806	836	836	836	837	837	838	838	837	837	837	837	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	813	817	821	826	829	834	835	835	835	835	834	--
Large Utility	832	839	856	859	862	867	871	875	877	876	876	876	876	--
Gasoline-Electric Hybrid														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	740	756	783	784	784	783	783	782	781	781	780	780	779	--
Compact Cars	763	783	808	811	810	810	809	809	808	807	807	806	806	1.3%
Midsized Cars	832	852	874	877	876	876	875	874	874	873	873	872	872	1.1%
Large Cars	815	839	865	869	869	868	868	867	867	866	866	865	865	--
Two Seater Cars	695	710	729	731	730	729	729	728	728	728	728	728	728	1.0%
Small Pickup	0	0	812	817	822	826	828	832	833	833	833	832	831	--
Large Pickup	917	928	940	947	951	956	961	964	965	964	963	962	961	--
Small Van	768	775	804	804	804	804	804	805	805	805	805	805	805	--
Large Van	862	871	904	908	912	916	920	924	925	925	925	925	925	--
Small Utility	746	754	782	785	789	794	797	802	803	803	802	802	802	--
Large Utility	800	807	823	826	829	833	837	841	843	842	842	842	842	1.1%
Fuel Cell Methanol														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Fuel Cell Hydrogen														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	592	605	626	628	627	627	626	626	625	625	624	624	623	1.2%
Compact Cars	610	626	646	649	648	648	647	647	646	646	646	645	645	--
Midsized Cars	665	682	699	701	701	700	700	700	699	699	698	698	697	--
Large Cars	652	671	692	696	695	695	694	694	693	693	693	692	692	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	615	620	643	643	643	643	644	644	644	644	644	644	644	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	597	604	626	628	631	635	638	641	642	642	642	642	642	1.3%
Large Utility	0	0	0	0	0	0	0	673	674	674	674	674	674	--

Table 61. New Light-Duty Vehicle Range (miles)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Fuel Cell Gasoline														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Cars	652	671	692	696	695	695	694	694	693	693	693	692	692	--
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Van	615	620	643	643	643	643	644	644	644	644	644	644	644	--
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	--
Small Utility	597	604	626	628	631	635	638	641	642	642	642	642	642	--
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 61. New Light-Duty Vehicle Range (miles)

-- = Not applicable.

Source: Energy Information Administration, AEO2008 National Energy Modeling System run aeo2008.d030208f.