

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Use by Mode													
Highway													
Light-Duty Vehicles	16335.9	16355.8	16548.6	16496.6	16528.8	16629.2	16763.3	16974.7	17201.0	17441.0	17713.4	17988.7	18270.2
Automobiles	8556.0	8334.9	8311.1	8229.3	8209.2	8187.7	8164.3	8176.2	8189.8	8207.1	8227.1	8252.0	8276.4
Light Trucks	7755.7	7997.3	8214.1	8244.3	8296.7	8418.8	8576.5	8776.1	8989.0	9211.7	9464.2	9714.7	9971.8
Motorcycles	24.2	23.6	23.4	23.1	22.9	22.7	22.5	22.4	22.3	22.2	22.1	22.0	22.0
Commercial Light Trucks 1/	586.7	590.3	604.3	605.1	606.0	608.3	611.9	618.7	625.9	633.5	641.1	649.8	659.3
Buses	264.4	263.7	264.5	264.9	266.3	268.6	271.1	273.6	275.8	277.5	278.9	279.9	280.8
Transit	92.0	91.8	92.0	92.2	92.7	93.5	94.4	95.2	96.0	96.6	97.1	97.4	97.7
Intercity	47.8	47.7	47.8	47.9	48.2	48.6	49.0	49.5	49.9	50.2	50.4	50.6	50.8
School	124.5	124.2	124.7	124.8	125.5	126.5	127.7	128.9	129.9	130.7	131.4	131.8	132.3
Freight Trucks 2/	4699.4	4771.7	4901.0	5019.3	5103.2	5193.2	5291.3	5403.6	5516.3	5620.5	5706.1	5795.4	5888.1
Medium (1000-26000 pounds)	743.1	735.2	733.6	740.5	745.2	745.8	755.4	767.6	780.1	794.4	808.8	825.1	841.9
Large (> 26000 pounds)	3956.2	4036.5	4167.4	4278.8	4358.0	4447.4	4535.9	4636.0	4736.2	4826.1	4897.3	4970.3	5046.2
Non-Highway													
Air 3/	2850.9	2841.1	2910.9	3012.8	3137.5	3296.2	3500.8	3585.3	3642.8	3696.7	3744.2	3785.7	3831.1
General Aviation	165.5	168.8	169.1	171.1	180.7	188.1	197.8	201.7	204.3	206.8	209.0	211.0	213.1
Domestic Air Carriers	1686.2	1644.5	1655.7	1663.8	1721.1	1792.5	1890.7	1914.2	1925.1	1933.7	1943.0	1947.7	1950.4
International Air Carriers	559.5	581.0	641.3	682.9	730.7	784.2	842.8	869.8	882.2	893.4	898.4	904.4	911.8
Freight Carriers	439.7	446.9	444.8	494.9	505.0	531.3	569.6	599.5	631.1	662.7	693.8	722.6	755.8
Water 4/	1140.0	1204.6	1135.4	1165.5	1196.0	1223.3	1249.1	1258.5	1268.3	1275.0	1285.8	1292.8	1298.9
Freight	946.6	1019.6	954.5	981.4	1004.6	1025.7	1046.1	1050.0	1055.5	1058.2	1064.1	1067.7	1070.8
Domestic Shipping	257.5	255.2	251.2	261.1	267.2	270.9	274.1	276.4	280.4	281.7	286.1	288.2	289.8
International Shipping	689.1	764.4	703.2	720.3	737.4	754.7	772.1	773.6	775.1	776.5	778.0	779.5	781.0
Recreational Boats	193.4	184.9	180.9	184.1	191.4	197.7	203.0	208.5	212.8	216.8	221.7	225.0	228.1
Rail	588.1	589.2	605.7	611.4	614.7	621.2	632.7	647.9	656.1	664.7	675.0	682.6	694.5
Freight	546.3	546.0	561.2	565.8	568.2	574.2	585.3	600.2	608.1	616.3	626.2	633.4	644.9
Passenger	41.9	43.2	44.5	45.6	46.5	47.0	47.4	47.7	48.0	48.4	48.7	49.2	49.6
Intercity	12.7	13.6	14.7	15.1	14.9	14.4	13.9	13.5	13.2	12.9	12.5	12.3	12.1
Transit	14.5	15.0	15.2	15.5	15.9	16.2	16.5	16.8	17.0	17.3	17.5	17.8	18.0
Commuter	14.8	14.6	14.6	15.1	15.8	16.4	16.9	17.4	17.8	18.2	18.7	19.1	19.4
Lubricants	152.1	148.1	143.0	149.0	149.5	149.9	150.1	150.7	151.3	152.0	152.7	153.3	153.8
Pipeline Fuel Natural Gas	589.0	576.8	565.7	633.6	646.9	655.3	659.1	668.3	679.1	682.4	689.0	699.2	699.3
Military Use	713.3	711.5	679.2	696.2	710.6	721.4	730.1	732.3	735.9	739.3	743.2	747.2	751.4
Aviation	562.9	560.4	527.1	542.4	555.7	566.3	575.1	576.8	579.6	582.3	585.4	588.6	591.8
Residual Fuel Oil	21.6	20.1	18.7	19.3	19.9	20.3	20.7	20.8	20.9	21.0	21.1	21.2	21.4
Distillate Fuel Oil	128.8	131.0	133.4	134.5	135.0	134.8	134.3	134.7	135.3	136.0	136.7	137.4	138.2
Total	27919.7	28052.6	28358.2	28654.5	28959.6	29366.6	29859.4	30313.5	30752.4	31182.7	31629.3	32074.6	32527.5
Energy Use by Type													
Motor Gasoline	17013.4	17004.5	17182.0	17109.7	17142.5	17235.1	17367.9	17575.7	17796.5	18031.5	18299.4	18568.1	18842.9
Distillate Fuel Oil (diesel)	5932.2	6015.8	6173.4	6310.7	6411.2	6522.1	6643.8	6785.1	6922.2	7048.7	7161.9	7275.1	7396.2
Jet Fuel (kerosene & naphtha)	3382.5	3366.3	3406.0	3526.2	3660.3	3829.7	4043.3	4129.6	4190.0	4246.7	4297.3	4342.0	4390.7
Residual Fuel Oil	739.5	809.6	740.9	762.5	783.2	803.3	823.1	825.4	828.1	830.0	832.9	835.1	837.2
Aviation Gasoline	31.2	35.1	32.0	29.0	32.9	32.7	32.6	32.5	32.4	32.4	32.3	32.2	32.2
Liquefied Petroleum Gases	28.8	38.4	43.1	59.0	53.2	53.1	48.1	49.3	50.7	52.1	52.7	54.1	55.3
Lubricants	152.1	148.1	143.0	149.0	149.5	149.9	150.1	150.7	151.3	152.0	152.7	153.3	153.8
Petroleum Subtotal	27279.9	27417.9	27720.5	27946.2	28232.8	28625.8	29108.9	29548.2	29971.2	30393.3	30829.1	31259.8	31708.3
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	1.5	1.9	1.5	1.8	2.1	3.1	3.5	3.8	4.0	4.2	4.5	4.8
Electricity	23.9	25.0	25.7	26.4	27.2	27.9	28.5	29.1	29.7	30.2	30.8	31.3	31.9
Compressed Natural Gas	25.8	31.5	44.4	46.7	50.9	55.4	59.8	64.3	68.5	72.5	76.0	79.5	82.7

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4
Pipeline Fuel Natural Gas	589.0	576.8	565.7	633.6	646.9	655.3	659.1	668.3	679.1	682.4	689.0	699.2	699.3
Total Consumption	27919.7	28052.6	28358.2	28654.5	28959.6	29366.6	29859.4	30313.5	30752.4	31182.7	31629.3	32074.6	32527.5

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Use by Mode															
Highway															
Light-Duty Vehicles	18559.0	18852.6	19133.2	19435.3	19741.8	20036.4	20352.8	20666.8	20978.1	21316.1	21653.8	21983.1	22323.7	22656.3	1.3%
Automobiles	8309.6	8340.5	8376.1	8421.4	8468.0	8511.7	8560.7	8611.9	8667.6	8730.1	8794.4	8859.7	8930.2	9002.5	0.3%
Light Trucks	10227.4	10490.2	10735.1	10991.9	11251.8	11502.6	11770.0	12032.7	12288.2	12563.6	12836.8	13100.7	13370.8	13630.9	2.2%
Motorcycles	22.0	21.9	21.9	22.0	22.0	22.1	22.1	22.2	22.3	22.4	22.5	22.7	22.8	23.0	-0.1%
Commercial Light Trucks 1/	667.0	675.0	684.0	694.2	704.1	714.3	723.8	734.4	746.9	760.0	772.8	784.7	796.9	810.1	1.3%
Buses	281.6	282.3	283.1	284.1	285.3	286.6	288.2	289.8	291.6	293.6	295.7	297.8	299.8	301.8	0.5%
Transit	98.0	98.2	98.5	98.9	99.3	99.7	100.3	100.8	101.5	102.2	102.9	103.6	104.3	105.0	0.5%
Intercity	51.0	51.1	51.2	51.4	51.6	51.9	52.1	52.4	52.8	53.1	53.5	53.9	54.3	54.6	0.5%
School	132.7	133.0	133.4	133.8	134.4	135.0	135.8	136.5	137.4	138.3	139.3	140.3	141.3	142.2	0.5%
Freight Trucks 2/	5950.8	6007.1	6084.8	6176.9	6269.0	6369.5	6469.6	6580.5	6712.4	6850.3	6991.0	7129.4	7261.3	7400.6	1.8%
Medium (1000-26000 pounds)	855.3	868.3	885.0	903.8	922.5	942.8	963.3	985.2	1010.1	1035.4	1060.9	1085.9	1110.7	1136.2	1.8%
Large (> 26000 pounds)	5095.6	5138.8	5199.8	5273.1	5346.6	5426.7	5506.3	5595.3	5702.3	5814.8	5930.1	6043.4	6150.7	6264.4	1.8%
Non-Highway															
Air 3/	3878.8	3916.0	3959.6	3968.4	3976.0	3981.0	3987.5	3994.1	4002.9	4014.1	4028.6	4047.9	4073.2	4105.8	1.5%
General Aviation	215.3	217.1	219.1	219.5	219.9	220.1	220.4	220.7	221.1	221.7	222.3	223.3	224.5	226.0	1.2%
Domestic Air Carriers	1951.6	1950.5	1949.2	1922.0	1893.8	1865.4	1838.2	1812.0	1787.9	1766.0	1746.6	1730.3	1717.6	1709.0	0.2%
International Air Carriers	921.4	932.6	948.1	956.5	966.0	975.7	985.5	995.1	1004.5	1014.0	1023.4	1033.1	1043.6	1055.1	2.4%
Freight Carriers	790.5	815.8	843.1	870.4	896.3	919.8	943.4	966.3	989.3	1012.5	1036.2	1061.1	1087.5	1115.7	3.7%
Water 4/	1304.8	1311.9	1319.3	1326.9	1333.8	1339.4	1346.2	1351.3	1356.4	1363.7	1370.0	1376.2	1383.3	1388.6	0.6%
Freight	1073.9	1077.9	1083.2	1087.2	1091.0	1094.4	1097.2	1099.6	1102.2	1105.2	1108.7	1112.3	1116.0	1118.8	0.4%
Domestic Shipping	291.2	293.8	297.5	299.9	302.2	304.0	305.2	306.0	307.0	308.4	310.2	312.2	314.2	315.4	0.9%
International Shipping	782.6	784.2	785.7	787.3	788.9	790.4	792.0	793.6	795.2	796.9	798.5	800.1	801.7	803.3	0.2%
Recreational Boats	230.9	234.0	236.0	239.7	242.7	245.0	248.9	251.6	254.2	258.4	261.3	263.8	267.4	269.8	1.5%
Rail	701.5	706.6	715.7	727.8	741.3	756.4	769.5	783.5	801.9	818.9	832.3	847.1	860.6	874.6	1.6%
Freight	651.3	655.9	664.4	676.0	688.9	703.5	716.0	729.6	747.4	763.9	776.8	791.1	804.0	817.5	1.6%
Passenger	50.1	50.7	51.3	51.8	52.4	52.9	53.5	54.0	54.5	55.0	55.5	56.1	56.6	57.1	1.1%
Intercity	12.0	11.9	11.8	11.6	11.5	11.4	11.3	11.1	11.0	10.9	10.7	10.6	10.5	10.4	-1.1%
Transit	18.3	18.6	18.8	19.1	19.4	19.6	19.9	20.2	20.4	20.7	21.0	21.2	21.5	21.7	1.5%
Commuter	19.8	20.3	20.6	21.1	21.5	21.9	22.3	22.7	23.0	23.5	23.9	24.2	24.6	25.0	2.2%
Lubricants	154.3	154.7	155.3	156.0	156.7	157.4	158.0	158.7	159.4	160.1	160.8	161.5	162.1	162.8	0.4%
Pipeline Fuel Natural Gas	700.5	738.8	777.0	787.9	798.0	799.2	798.8	799.2	794.9	792.6	793.0	793.5	791.5	789.6	1.3%
Military Use	755.9	760.8	765.5	769.8	773.8	777.4	780.8	784.0	786.9	789.7	792.2	794.6	796.9	799.0	0.5%
Aviation	595.4	599.1	602.8	606.2	609.3	612.2	614.8	617.3	619.5	621.7	623.7	625.5	627.3	629.0	0.5%
Residual Fuel Oil	21.5	21.7	21.8	21.9	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	22.9	0.5%
Distillate Fuel Oil	139.1	140.0	140.8	141.6	142.4	143.1	143.7	144.3	144.9	145.4	145.9	146.3	146.7	147.1	0.5%
Total	32954.2	33406.0	33877.4	34327.3	34779.7	35217.4	35675.1	36142.4	36631.3	37158.9	37690.2	38215.7	38749.3	39289.2	1.4%
Energy Use by Type															
Motor Gasoline	19120.2	19400.3	19664.7	19952.2	20239.2	20511.8	20805.5	21091.8	21375.8	21688.4	21995.4	22289.3	22595.5	22888.8	1.2%
Distillate Fuel Oil (diesel)	7485.6	7569.8	7681.4	7811.8	7946.6	8093.1	8240.3	8401.6	8590.3	8785.5	8983.0	9181.9	9375.7	9579.9	1.9%
Jet Fuel (kerosene & naphtha)	4442.0	4483.0	4530.3	4542.5	4553.2	4561.1	4570.3	4579.3	4590.4	4603.7	4620.2	4641.4	4668.4	4702.8	1.3%
Residual Fuel Oil	839.3	841.7	844.4	846.8	849.1	851.3	853.3	855.2	857.2	859.3	861.5	863.8	866.1	868.1	0.3%
Aviation Gasoline	32.2	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	-0.4%
Liquefied Petroleum Gases	56.4	57.9	59.9	61.0	62.7	64.7	65.5	67.2	69.3	70.3	72.0	73.9	75.1	77.3	2.8%
Lubricants	154.3	154.7	155.3	156.0	156.7	157.4	158.0	158.7	159.4	160.1	160.8	161.5	162.1	162.8	0.4%
Petroleum Subtotal	32129.9	32539.4	32968.1	33402.4	33839.6	34271.4	34725.0	35186.0	35674.4	36199.4	36724.9	37243.8	37775.0	38311.6	1.3%
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	0.0	-8.4%
Ethanol	5.1	5.6	6.4	7.6	9.2	10.3	11.6	13.9	15.3	16.9	18.6	21.3	22.4	24.1	11.9%
Electricity	32.4	33.0	33.5	34.1	34.6	35.1	35.7	36.2	36.7	37.2	37.7	38.3	38.8	39.3	1.8%
Compressed Natural Gas	85.7	88.4	91.3	94.0	96.8	99.6	102.0	104.7	107.4	109.8	112.6	115.3	117.8	120.5	5.5%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Liquid Hydrogen	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.8	4.1	43.1%
Pipeline Fuel Natural Gas	700.5	738.8	777.0	787.9	798.0	799.2	798.8	799.2	794.9	792.6	793.0	793.5	791.5	789.6	1.3%
Total Consumption	32954.2	33406.0	33877.4	34327.3	34779.7	35217.4	35675.1	36142.4	36631.3	37158.9	37690.2	38215.7	38749.3	39289.2	1.4%

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 values derived using: Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006); EIA, Fuel Oil and Kerosene Sales 2004, DOE/EIA-0535(2004) (Washington, DC, November 2005); EIA, State Energy Data Report 2002, DOE/EIA-0214(2002) (Washington, DC, December 2005); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 25 and Annual (Oak Ridge, TN, 2006); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Light-Duty Vehicle													
Motor Gasoline	16021.80	16024.84	16196.34	16125.03	16155.98	16247.62	16375.93	16574.04	16785.08	17009.03	17265.03	17521.53	17783.30
Ethanol	1.09	1.46	1.89	1.54	1.77	2.10	3.13	3.52	3.80	4.04	4.18	4.48	4.82
Compressed Natural Gas	21.59	25.38	35.72	35.36	36.44	37.44	38.62	40.06	41.72	43.35	44.77	46.42	47.98
Liquefied Petroleum Gases	19.71	29.25	33.68	49.08	42.78	42.12	36.65	37.64	39.01	40.48	41.33	42.89	44.35
Electricity	3.33	3.90	4.25	4.51	4.76	4.99	5.22	5.47	5.72	5.96	6.18	6.39	6.59
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.11	0.15	0.19	0.30	0.42
Distillate Fuel Oil (diesel)	268.34	270.98	276.70	281.12	287.08	294.94	303.72	313.86	325.61	337.99	351.68	366.68	382.70
Total	16335.86	16355.82	16548.58	16496.63	16528.82	16629.23	16763.30	16974.66	17201.04	17441.00	17713.36	17988.69	18270.15
Commercial Light Trucks Gasoline 1/													
	586.72	590.27	604.27	605.11	605.99	608.28	611.85	618.66	625.85	633.53	641.13	649.85	659.34
Freight Trucks 2/													
Motor Gasoline	241.42	234.08	230.46	226.82	222.13	215.95	212.88	211.54	210.97	211.37	212.05	213.49	215.29
Distillate Fuel Oil (diesel)	4444.59	4522.35	4652.38	4771.21	4856.22	4948.22	5045.81	5156.20	5266.84	5368.36	5451.42	5537.70	5627.10
Compressed Natural Gas	4.24	6.11	8.68	11.36	14.42	18.00	21.17	24.20	26.82	29.17	31.20	33.06	34.73
Liquefied Petroleum Gases	9.10	9.16	9.44	9.93	10.44	11.03	11.42	11.65	11.65	11.57	11.38	11.18	10.98
Total	4699.35	4771.70	4900.96	5019.31	5103.20	5193.20	5291.27	5403.58	5516.29	5620.48	5706.06	5795.42	5888.10
Freight Rail 3/													
Distillate Fuel Oil (diesel)	546.26	546.01	561.25	565.79	568.21	574.16	585.27	600.22	608.08	616.28	626.22	633.44	644.92
Total	546.26	546.01	561.25	565.79	568.21	574.16	585.27	600.22	608.08	616.28	626.22	633.44	644.92
Domestic Shipping													
Distillate Fuel Oil (diesel)	183.02	180.40	182.33	188.23	191.28	192.67	193.56	195.19	198.01	198.85	201.93	203.43	204.50
Residual Oil	74.49	74.83	68.89	72.91	75.90	78.28	80.49	81.20	82.42	82.81	84.14	84.81	85.30
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
Total	257.52	255.23	251.22	261.14	267.18	270.95	274.05	276.39	280.42	281.67	286.07	288.24	289.80
International Shipping													
Distillate Fuel Oil (diesel)	45.63	49.73	49.91	49.95	50.00	50.06	50.11	50.19	50.26	50.33	50.40	50.47	50.55
Residual Oil	643.44	714.67	653.33	670.32	687.40	704.66	721.94	723.43	724.82	726.20	727.62	729.01	730.49
Total	689.07	764.40	703.24	720.27	737.41	754.72	772.05	773.62	775.08	776.53	778.02	779.48	781.03
Air Transportation													
Jet Fuel	2819.62	2805.96	2878.88	2983.77	3104.62	3263.44	3468.19	3552.78	3610.35	3664.36	3711.92	3753.45	3798.92
Aviation Gasoline	31.24	35.15	32.00	29.00	32.90	32.75	32.62	32.51	32.42	32.35	32.29	32.24	32.20
Total	2850.86	2841.11	2910.88	3012.77	3137.52	3296.18	3500.81	3585.29	3642.78	3696.71	3744.21	3785.69	3831.12
Miscellaneous Transportation													
Military Use													
Jet Fuel	562.91	560.37	527.12	542.44	555.71	566.27	575.12	576.85	579.63	582.34	585.36	588.56	591.79
Residual Fuel Oil	21.58	20.14	18.68	19.30	19.86	20.31	20.70	20.77	20.88	20.99	21.11	21.24	21.37
Distillate Fuel Oil	128.76	130.98	133.37	134.46	134.99	134.84	134.28	134.68	135.34	135.97	136.69	137.45	138.22
Total	713.25	711.49	679.17	696.20	710.56	721.42	730.10	732.30	735.85	739.30	743.16	747.25	751.38
Bus Transportation													
Transit Bus (motor gasoline)	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21
Transit Bus (diesel)	91.83	91.58	91.81	91.96	92.46	93.27	94.16	95.02	95.78	96.37	96.85	97.19	97.52
Intercity Bus (diesel)	47.82	47.69	47.81	47.89	48.15	48.57	49.04	49.49	49.89	50.20	50.45	50.63	50.80
School Bus (motor gasoline)	10.85	10.87	11.05	11.03	11.06	11.12	11.19	11.29	11.39	11.46	11.52	11.56	11.61
School Bus (diesel)	113.65	113.34	113.62	113.81	114.43	115.43	116.53	117.60	118.54	119.27	119.86	120.28	120.69
Total	264.35	263.67	264.48	264.90	266.30	268.59	271.11	273.61	275.80	277.50	278.88	279.88	280.83

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Rail Transportation													
Intercity Rail (electricity)	1.27	1.37	1.47	1.51	1.49	1.45	1.40	1.36	1.32	1.29	1.26	1.23	1.22
Intercity Rail (diesel)	11.41	12.25	13.23	13.57	13.37	12.97	12.55	12.15	11.84	11.58	11.28	11.07	10.91
Transit Rail (electricity)	14.45	14.96	15.17	15.49	15.87	16.21	16.51	16.79	17.04	17.28	17.54	17.79	18.04
Commuter Rail (electricity)	4.84	4.75	4.79	4.92	5.10	5.25	5.39	5.51	5.62	5.71	5.82	5.93	6.04
Commuter Rail (diesel)	9.91	9.83	9.80	10.14	10.69	11.14	11.54	11.90	12.21	12.50	12.83	13.12	13.40
Total	41.89	43.16	44.47	45.64	46.51	47.02	47.39	47.71	48.03	48.37	48.74	49.15	49.61
Recreation Boats													
Gasoline	193.44	184.94	180.91	184.14	191.39	197.68	203.02	208.50	212.82	216.83	221.72	225.04	228.06
Distillate Fuel Oil (diesel)	152.46	144.26	139.68	141.56	147.12	151.88	155.82	159.94	163.01	165.87	169.44	171.45	173.19
Lubricants	40.99	40.68	41.23	42.57	44.27	45.80	47.20	48.55	49.81	50.97	52.28	53.59	54.87
Pipeline Fuel Natural Gas	152.10	148.08	143.00	149.00	149.52	149.85	150.13	150.66	151.34	152.05	152.67	153.26	153.81
Total Miscellaneous	589.01	576.76	565.72	633.64	646.95	655.31	659.07	668.26	679.07	682.42	689.04	699.18	699.34
Total Miscellaneous	1954.04	1928.10	1877.75	1973.51	2011.23	2039.87	2060.81	2081.03	2102.91	2116.47	2134.21	2153.75	2163.02
Total Consumption													
Total Consumption	27919.68	28052.63	28358.15	28654.54	28959.55	29366.61	29859.42	30313.45	30752.45	31182.67	31629.28	32074.56	32527.49

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Light-Duty Vehicle															
Motor Gasoline	18050.38	18319.48	18572.04	18844.39	19116.92	19375.09	19653.09	19923.44	20188.91	20480.60	20768.01	21043.68	21330.25	21603.58	1.2%
Ethanol	5.10	5.58	6.43	7.57	9.19	10.31	11.61	13.93	15.28	16.86	18.63	21.25	22.42	24.13	11.9%
Compressed Natural Gas	49.60	51.05	52.71	54.08	55.56	57.13	58.33	59.79	61.22	62.34	63.75	65.23	66.48	67.95	4.0%
Liquefied Petroleum Gases	45.66	47.29	49.41	50.50	52.15	53.97	54.67	56.14	58.04	58.76	60.18	61.84	62.75	64.63	3.2%
Electricity	6.78	6.96	7.14	7.31	7.49	7.65	7.82	7.98	8.15	8.32	8.49	8.65	8.82	8.98	3.4%
Liquid Hydrogen	0.54	0.79	1.05	1.30	1.57	1.84	2.10	2.40	2.68	2.97	3.27	3.56	3.85	4.13	43.1%
Distillate Fuel Oil (diesel)	400.94	421.47	444.40	470.13	498.93	530.39	565.18	603.12	643.85	686.23	731.42	778.92	829.17	882.91	4.8%
Total	18558.99	18852.63	19133.17	19435.28	19741.81	20036.38	20352.80	20666.80	20978.13	21316.08	21653.75	21983.13	22323.73	22656.30	1.3%
Commercial Light Trucks Gasoline 1/															
	666.96	675.05	684.01	694.17	704.13	714.27	723.80	734.43	746.85	759.95	772.79	784.66	796.89	810.13	1.3%
Freight Trucks 2/															
Motor Gasoline	216.36	217.52	219.72	222.53	225.44	228.86	232.42	236.44	241.26	246.30	251.48	256.69	261.93	267.47	0.5%
Distillate Fuel Oil (diesel)	5687.62	5741.74	5816.05	5903.93	5991.81	6087.48	6182.66	6288.15	6413.66	6544.90	6678.85	6810.45	6935.69	7067.90	1.8%
Compressed Natural Gas	36.10	37.31	38.58	39.91	41.20	42.48	43.68	44.89	46.18	47.50	48.83	50.11	51.33	52.58	9.0%
Liquefied Petroleum Gases	10.75	10.57	10.49	10.50	10.57	10.69	10.87	11.06	11.29	11.55	11.83	12.10	12.37	12.66	1.3%
Total	5950.83	6007.14	6084.84	6176.87	6269.03	6369.52	6469.62	6580.54	6712.39	6850.25	6990.99	7129.36	7261.32	7400.61	1.8%
Freight Rail 3/															
Distillate Fuel Oil (diesel)	651.33	655.93	664.44	675.97	688.90	703.50	716.01	729.56	747.38	763.87	776.81	791.07	803.98	817.46	1.6%
Total	651.33	655.93	664.44	675.97	688.90	703.50	716.01	729.56	747.38	763.87	776.81	791.07	803.98	817.46	1.6%
Domestic Shipping															
Distillate Fuel Oil (diesel)	205.46	207.23	209.85	211.50	213.06	214.29	215.11	215.63	216.28	217.23	218.48	219.88	221.24	222.04	0.8%
Residual Oil	85.74	86.53	87.67	88.42	89.12	89.68	90.08	90.36	90.68	91.14	91.72	92.36	92.99	93.39	0.9%
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	0.00	N/A
Total	291.21	293.76	297.53	299.92	302.18	303.97	305.20	305.99	306.97	308.37	310.20	312.24	314.23	315.43	0.9%
International Shipping															
Distillate Fuel Oil (diesel)	50.63	50.70	50.77	50.85	50.92	50.99	51.07	51.14	51.22	51.29	51.37	51.44	51.51	51.59	0.1%
Residual Oil	732.02	733.48	734.93	736.44	737.94	739.43	740.95	742.48	744.02	745.58	747.13	748.67	750.21	751.75	0.2%
Total	782.65	784.18	785.70	787.28	788.86	790.43	792.02	793.62	795.24	796.87	798.50	800.11	801.72	803.34	0.2%
Air Transportation															
Jet Fuel	3846.63	3883.82	3927.44	3936.28	3943.90	3948.91	3955.44	3962.09	3970.84	3982.06	3996.53	4015.84	4041.14	4073.81	1.5%
Aviation Gasoline	32.16	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	-0.4%
Total	3878.80	3915.96	3959.56	3968.37	3975.98	3980.98	3987.50	3994.13	4002.88	4014.09	4028.55	4047.86	4073.16	4105.82	1.5%
Miscellaneous Transportation															
Military Use															
Jet Fuel	595.37	599.14	602.83	606.21	609.30	612.16	614.82	617.26	619.54	621.68	623.66	625.53	627.29	628.97	0.5%
Residual Fuel Oil	21.51	21.66	21.81	21.95	22.08	22.20	22.31	22.42	22.51	22.61	22.70	22.78	22.86	22.94	0.5%
Distillate Fuel Oil	139.06	139.96	140.83	141.64	142.39	143.08	143.72	144.31	144.86	145.38	145.86	146.31	146.73	147.13	0.5%
Total	755.94	760.76	765.47	769.80	773.77	777.43	780.85	783.98	786.92	789.67	792.22	794.62	796.88	799.03	0.5%
Bus Transportation															
Transit Bus (motor gasoline)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.6%
Transit Bus (diesel)	97.80	98.04	98.30	98.64	99.06	99.50	100.05	100.63	101.24	101.94	102.66	103.39	104.08	104.77	0.5%
Intercity Bus (diesel)	50.95	51.08	51.22	51.40	51.62	51.85	52.14	52.45	52.77	53.14	53.52	53.90	54.27	54.63	0.5%
School Bus (motor gasoline)	11.64	11.68	11.71	11.76	11.81	11.87	11.94	12.01	12.09	12.17	12.26	12.35	12.44	12.53	0.6%
School Bus (diesel)	121.03	121.34	121.65	122.08	122.59	123.14	123.82	124.54	125.30	126.17	127.05	127.95	128.81	129.66	0.5%
Total	281.63	282.34	283.09	284.10	285.29	286.57	288.16	289.84	291.61	293.64	295.71	297.81	299.83	301.81	0.5%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Rail Transportation															
Intercity Rail (electricity)	1.20	1.19	1.18	1.17	1.15	1.15	1.13	1.12	1.11	1.09	1.08	1.07	1.05	1.05	-1.1%
Intercity Rail (diesel)	10.79	10.67	10.61	10.47	10.35	10.28	10.13	10.02	9.94	9.77	9.65	9.56	9.44	9.37	-1.1%
Transit Rail (electricity)	18.31	18.58	18.84	19.12	19.39	19.65	19.91	20.17	20.42	20.69	20.95	21.21	21.47	21.71	1.5%
Commuter Rail (electricity)	6.15	6.26	6.37	6.48	6.60	6.70	6.81	6.91	7.02	7.13	7.23	7.33	7.43	7.52	1.9%
Commuter Rail (diesel)	13.70	14.00	14.26	14.59	14.90	15.16	15.48	15.76	16.02	16.35	16.63	16.90	17.20	17.44	2.3%
Total	50.14	50.70	51.26	51.84	52.39	52.93	53.46	53.97	54.51	55.03	55.54	56.06	56.60	57.10	1.1%
Recreation Boats															
Gasoline	174.68	176.32	177.01	179.17	180.71	181.53	184.02	185.31	186.45	189.17	190.63	191.73	193.75	194.82	1.2%
Distillate Fuel Oil (diesel)	56.24	57.65	59.03	60.55	62.03	63.42	64.92	66.33	67.75	69.26	70.70	72.12	73.61	74.99	2.5%
Lubricants	154.26	154.72	155.31	155.98	156.66	157.36	158.00	158.65	159.35	160.05	160.78	161.47	162.13	162.82	0.4%
Pipeline Fuel Natural Gas	700.54	738.84	776.97	787.94	797.95	799.15	798.79	799.23	794.85	792.56	793.04	793.47	791.49	789.58	1.3%
Total Miscellaneous	2173.45	2221.33	2268.13	2289.39	2308.80	2318.40	2328.20	2337.32	2341.45	2349.38	2358.61	2367.29	2374.29	2380.15	0.8%
Total Consumption	32954.22	33405.97	33877.38	34327.26	34779.68	35217.45	35675.14	36142.40	36631.30	37158.86	37690.18	38215.70	38749.32	39289.24	1.4%

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.

N/A = Not applicable.

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

Sources: 2004 and 2005 compressed natural gas volumes: Energy Information Administration (EIA), AEO2007 National Energy Modeling System run aeo2007.d112106a. Other 2004 and 2005 values derived using: EIA, Annual Energy Review Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006); EIA, Fuel Oil and Kerosene Sales 2004, DOE/EIA-0535(2004) (Washington, DC, November 2005); EIA, State Energy Data Report 2002, DOE/EIA-0214(2002) (Washington, DC, December 2005); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 25 and Annual (Oak Ridge, TN, 2006); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	15756.75	15714.29	15829.33	15672.06	15599.62	15574.71	15567.43	15629.50	15704.37	15791.17	15907.07	16023.95	16147.39
TDI Diesel ICE	268.34	270.98	276.70	281.12	287.08	294.94	303.72	313.86	325.61	337.99	351.68	366.68	382.70
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.42	0.35	0.33	0.31	0.29	0.27	0.26	0.24	0.22	0.20	0.19	0.17	0.15
Ethanol-Flex Fuel ICE	326.16	372.71	416.37	481.76	555.57	642.13	744.68	850.04	955.32	1060.90	1168.07	1272.26	1373.55
Ethanol ICE	0.32	0.35	0.39	0.42	0.45	0.49	0.54	0.59	0.64	0.69	0.75	0.81	0.88
Total Alcohol	326.90	373.41	417.08	482.49	556.31	642.89	745.48	850.86	956.18	1061.80	1169.01	1273.25	1374.58
Natural Gas Technology													
Compressed Natural Gas ICE	0.17	0.18	0.20	0.21	0.22	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.30
Compressed Natural Gas Bi-fuel	31.30	36.01	38.85	40.79	42.63	44.39	46.28	48.48	50.77	53.02	55.20	57.25	59.17
Liquefied Petroleum Gases ICE	0.34	0.35	0.35	0.36	0.37	0.39	0.40	0.41	0.43	0.45	0.46	0.48	0.51
Liquefied Petroleum Gases Bi-fuel	73.12	111.86	122.65	132.15	138.35	144.32	149.78	156.65	164.00	171.21	178.24	184.84	191.00
Total Natural Gas Technology	104.92	148.39	162.05	173.52	181.58	189.33	196.70	205.80	215.46	224.95	234.19	242.87	250.98
Electric Technology													
Electric Vehicle	3.33	3.90	4.25	4.51	4.76	4.99	5.22	5.47	5.72	5.96	6.18	6.39	6.59
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	0.04	0.07	0.23	0.44	0.68	0.93	1.16
Electric-Gasoline Hybrid	7.44	18.05	30.55	43.20	63.29	83.98	106.94	130.82	156.60	184.08	212.64	244.39	277.88
Total Electricity	10.77	21.95	34.80	47.71	68.05	88.98	112.20	136.36	162.55	190.47	219.50	251.71	285.63
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	0.02	0.04	0.06	0.11	0.15	0.19	0.30	0.42
Total Fuel Cell	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.11	0.15	0.19	0.30	0.42
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	16021.80	16024.84	16196.34	16125.03	16155.98	16247.62	16375.93	16574.04	16785.08	17009.03	17265.03	17521.53	17783.30
Distillate Fuel Oil (diesel)	268.34	270.98	276.70	281.12	287.08	294.94	303.72	313.86	325.61	337.99	351.68	366.68	382.70
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	1.09	1.46	1.89	1.54	1.77	2.10	3.13	3.52	3.80	4.04	4.18	4.48	4.82
Compressed Natural Gas	21.59	25.38	35.72	35.36	36.44	37.44	38.62	40.06	41.72	43.35	44.77	46.42	47.98
Liquefied Petroleum Gases	19.71	29.25	33.68	49.08	42.78	42.12	36.65	37.64	39.01	40.48	41.33	42.89	44.35
Electricity	3.33	3.90	4.25	4.51	4.76	4.99	5.22	5.47	5.72	5.96	6.18	6.39	6.59
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.11	0.15	0.19	0.30	0.42

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Light-Duty Consumption by Technology Type															
Conventional Vehicles 1/															
Gasoline ICE Vehicles	16277.47	16412.08	16534.75	16676.86	16823.53	16960.65	17116.53	17269.41	17419.82	17595.18	17770.03	17937.75	18114.75	18282.68	0.6%
TDI Diesel ICE	400.94	421.47	444.40	470.13	498.93	530.39	565.18	603.12	643.85	686.23	731.42	778.92	829.17	882.91	4.8%
Alternative-Fuel Vehicles															
Alcohol Fuel Technology															
Methanol-Flex Fuel ICE	0.14	0.12	0.11	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05	0.04	0.04	-8.4%
Ethanol-Flex Fuel ICE	1472.00	1566.81	1656.31	1744.87	1828.48	1905.68	1982.53	2054.88	2122.51	2189.70	2252.64	2310.52	2366.41	2417.90	7.8%
Ethanol ICE	0.95	1.03	1.11	1.20	1.29	1.38	1.48	1.59	1.69	1.80	1.90	2.01	2.12	2.23	7.7%
Total Alcohol	1473.10	1567.96	1657.53	1746.20	1829.88	1907.16	1984.10	2056.54	2124.27	2191.56	2254.60	2312.59	2368.57	2420.17	7.8%
Natural Gas Technology															
Compressed Natural Gas ICE	0.31	0.32	0.33	0.34	0.35	0.36	0.38	0.39	0.40	0.41	0.43	0.44	0.46	0.47	3.9%
Compressed Natural Gas Bi-fuel	61.00	62.74	64.41	66.11	67.80	69.40	71.00	72.55	74.05	75.59	77.15	78.64	80.14	81.62	3.3%
Liquefied Petroleum Gases ICE	0.53	0.56	0.61	0.65	0.70	0.76	0.82	0.88	0.95	1.02	1.09	1.17	1.24	1.31	5.5%
Liquefied Petroleum Gases Bi-fuel	196.88	202.50	207.92	213.46	219.00	224.22	229.37	234.43	239.29	244.23	249.21	253.98	258.73	263.46	3.5%
Total Natural Gas Technology	258.72	266.13	273.27	280.56	287.85	294.75	301.56	308.26	314.68	321.26	327.88	334.23	340.56	346.87	3.5%
Electric Technology															
Electric Vehicle	6.78	6.96	7.14	7.31	7.49	7.65	7.82	7.98	8.15	8.32	8.49	8.65	8.82	8.98	3.4%
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	0.00	N/A
Electric-Diesel Hybrid	1.46	1.73	2.00	2.31	2.60	2.87	3.12	3.35	3.56	3.75	3.90	4.04	4.15	4.24	N/A
Electric-Gasoline Hybrid	312.88	349.45	387.86	427.61	469.05	511.94	555.62	600.58	646.98	694.53	743.60	794.15	846.51	900.50	16.9%
Total Electricity	321.11	358.15	397.00	437.23	479.13	522.46	566.56	611.92	658.68	706.59	755.99	806.84	859.47	913.72	16.1%
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	0.00	N/A
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	0.00	N/A
Fuel Cell Hydrogen	0.54	0.79	1.05	1.30	1.57	1.84	2.10	2.40	2.68	2.97	3.27	3.56	3.85	4.13	43.1%
Total Fuel Cell	0.54	0.79	1.05	1.30	1.57	1.84	2.10	2.40	2.68	2.97	3.27	3.56	3.85	4.13	43.1%
Light-Duty Consumption by Fuel Type 1/															
Motor Gasoline	18050.38	18319.48	18572.04	18844.39	19116.92	19375.09	19653.09	19923.44	20188.91	20480.60	20768.01	21043.68	21330.25	21603.58	1.2%
Distillate Fuel Oil (diesel)	400.94	421.47	444.40	470.13	498.93	530.39	565.18	603.12	643.85	686.23	731.42	778.92	829.17	882.91	4.8%
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	0.00	-8.4%
Ethanol	5.10	5.58	6.43	7.57	9.19	10.31	11.61	13.93	15.28	16.86	18.63	21.25	22.42	24.13	11.9%
Compressed Natural Gas	49.60	51.05	52.71	54.08	55.56	57.13	58.33	59.79	61.22	62.34	63.75	65.23	66.48	67.95	4.0%
Liquefied Petroleum Gases	45.66	47.29	49.41	50.50	52.15	53.97	54.67	56.14	58.04	58.76	60.18	61.84	62.75	64.63	3.2%
Electricity	6.78	6.96	7.14	7.31	7.49	7.65	7.82	7.98	8.15	8.32	8.49	8.65	8.82	8.98	3.4%
Liquid Hydrogen	0.54	0.79	1.05	1.30	1.57	1.84	2.10	2.40	2.68	2.97	3.27	3.56	3.85	4.13	43.1%

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.

N/A = Not applicable.

Source: Energy Information Administration, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	359.3	376.1	417.4	425.9	416.0	405.2	398.5	399.4	395.4	391.6	384.0	379.3	375.3
TDI Diesel ICE	1.1	1.2	1.4	1.7	1.6	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.6
Total Conventional	360.4	377.2	418.9	427.6	417.5	406.7	399.9	400.8	396.8	393.1	385.4	380.8	376.9
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	3.8	9.2	10.5	17.3	19.5	21.2	23.5	23.4	23.0	22.7	22.3	21.7	21.4
Ethanol ICE	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 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	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3
Electric-Gasoline Hybrid	3.9	7.7	8.6	10.0	13.3	13.5	16.2	16.9	17.4	18.0	18.1	19.2	20.1
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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
Liquefied Petroleum Gases Bi-fuel	2.1	2.2	2.5	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4
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	0.1	0.1	0.3	0.4
Total Alternatives	10.5	19.8	22.5	30.7	36.2	38.1	43.1	43.8	44.0	44.4	44.2	44.8	45.3
Percent Alternative Car Sales	2.84	5.00	5.09	6.69	7.98	8.57	9.73	9.84	9.98	10.16	10.29	10.53	10.74
Total New Car Sales	370.9	397.1	441.3	458.3	453.7	444.8	443.1	444.5	440.8	437.5	429.6	425.6	422.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	353.9	353.2	307.0	277.3	286.5	297.5	308.9	327.0	335.1	342.7	352.3	352.3	352.7
TDI Diesel ICE	15.6	13.5	14.6	13.8	13.5	14.0	14.7	16.4	17.6	18.6	18.7	19.8	20.7
Total Conventional	369.5	366.7	321.7	291.0	300.0	311.5	323.7	343.3	352.7	361.3	371.0	372.1	373.4
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	25.8	20.9	19.5	35.5	42.4	51.5	63.1	67.6	69.4	71.1	73.3	73.3	73.5
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	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	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	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	3.4	4.3	4.1	9.3	9.8	10.3	11.4	13.0	14.3	15.2	18.8	20.4
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	1.6	1.5	1.4	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.8	1.8	1.8
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	5.2	5.1	4.5	4.3	4.6	4.9	5.2	5.5	5.7	5.9	6.0	6.1	6.1
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	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2
Total Alternatives	32.8	31.2	29.9	45.4	57.9	67.9	80.4	86.5	90.2	93.4	96.7	100.4	102.3

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Percent Alternative L.T. Sales	8.14	7.84	8.50	13.49	16.19	17.89	19.90	20.11	20.37	20.53	20.67	21.25	21.50
Total New Truck Sales	402.2	397.9	351.6	336.4	358.0	379.3	404.1	429.8	442.9	454.7	467.7	472.6	475.7
Percent Total Alternative Sales	5.60	6.42	6.60	9.57	11.60	12.86	14.58	14.89	15.18	15.44	15.70	16.17	16.44
EPACT Legislative Alternative Sales	13.05	13.17	12.44	12.22	12.71	13.14	13.73	14.37	14.65	14.91	15.15	15.24	15.28
ZEVP Legislative Alternative Sales	0.00	9.19	9.33	9.11	10.18	13.32	14.63	16.20	24.09	24.14	24.05	45.39	44.70
Total Vehicles Sales	773.2	795.0	792.9	794.7	811.7	824.1	847.2	874.3	883.8	892.2	897.3	898.2	897.9

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	374.1	371.4	376.5	376.9	376.2	376.5	372.4	372.5	372.9	370.2	370.0	369.7	367.1	368.0	-0.1%
TDI Diesel ICE	1.7	1.8	2.0	2.2	2.3	2.5	2.6	2.8	3.0	3.0	3.2	3.4	3.6	3.9	4.9%
Total Conventional	375.8	373.2	378.5	379.1	378.5	379.0	375.0	375.4	376.0	373.3	373.3	373.1	370.7	371.8	-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	0.0	0.4%
Ethanol-Flex Fuel ICE	21.3	21.2	21.4	21.7	21.6	21.5	21.6	21.4	21.4	21.5	21.2	21.2	21.2	21.1	3.4%
Ethanol 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	0.1	6.1%
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	0.1	0.4%
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	0.0	N/A
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	0.1	0.1	0.1	N/A
Electric-Gasoline Hybrid	21.2	22.2	24.1	24.8	26.2	27.9	28.2	29.4	30.7	31.2	32.4	33.8	35.0	36.6	6.4%
Compressed Natural Gas 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	0.9%
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	0.6	0.6	0.6	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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	77.6%
Total Alternatives	46.3	47.6	49.7	50.8	52.1	53.6	53.9	55.1	56.4	56.8	57.9	59.2	60.4	61.9	4.7%
Percent Alternative Car Sales	10.97	11.32	11.61	11.82	12.09	12.39	12.57	12.79	13.04	13.22	13.43	13.70	14.01	14.27	4.3%
Total New Car Sales	422.1	420.9	428.2	429.9	430.6	432.6	428.9	430.4	432.3	430.1	431.2	432.4	431.0	433.7	0.4%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	354.7	356.3	359.2	367.1	369.6	368.5	373.0	373.6	374.1	381.7	382.8	382.0	384.3	383.2	0.3%
TDI Diesel ICE	22.1	23.8	26.2	28.0	30.2	32.3	34.4	37.0	38.9	39.9	42.2	44.1	45.9	48.8	5.3%
Total Conventional	376.9	380.2	385.4	395.1	399.8	400.9	407.4	410.6	413.0	421.7	425.0	426.1	430.2	432.1	0.7%
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	0.0	1.4%
Ethanol-Flex Fuel ICE	73.9	74.2	74.8	76.6	77.1	76.9	77.8	78.0	78.2	79.8	80.0	79.8	80.3	80.0	5.5%
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	0.0	N/A
Electric Vehicle	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	1.4%
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	0.0	N/A
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	0.1	N/A
Electric-Gasoline Hybrid	21.5	22.7	24.3	25.6	27.1	28.4	29.3	30.8	32.3	33.6	35.4	37.0	38.8	40.7	10.4%
Compressed Natural Gas 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	3.0%
Compressed Natural Gas Bi-fuel	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	1.4%
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	0.0	-1.3%
Liquefied Petroleum Gases Bi-fuel	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.8	6.9	7.0	7.1	7.1	7.2	7.3	1.4%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.7	0.7	26.8%
Total Alternatives	103.9	105.8	108.1	111.5	113.6	114.7	116.7	118.6	120.4	123.5	125.6	127.0	129.5	131.2	5.9%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Percent Alternative L.T. Sales	21.62	21.77	21.90	22.00	22.13	22.25	22.27	22.41	22.57	22.65	22.81	22.97	23.14	23.29	4.5%
Total New Truck Sales	480.8	486.0	493.5	506.6	513.4	515.6	524.2	529.1	533.4	545.2	550.5	553.1	559.7	563.2	1.4%
Percent Total Alternative Sales	16.64	16.92	17.12	17.33	17.55	17.75	17.91	18.09	18.30	18.49	18.69	18.90	19.16	19.36	4.5%
EPACT Legislative Alternative Sales	15.40	15.52	15.77	16.10	16.27	16.34	16.52	16.65	16.77	17.04	17.18	17.25	17.40	17.51	1.1%
Z EVP Legislative Alternative Sales	44.27	67.70	68.58	69.12	72.97	72.50	71.88	80.25	79.91	80.92	85.11	85.78	86.53	87.86	9.5%
Total Vehicles Sales	902.9	906.9	921.7	936.4	944.0	948.2	953.1	959.6	965.7	975.3	981.7	985.5	990.7	996.9	0.9%

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1087.9	1111.3	1209.4	1213.2	1168.3	1124.9	1095.4	1088.4	1069.6	1052.5	1025.8	1008.8	993.6
TDI Diesel ICE	3.6	3.7	4.5	5.5	5.1	4.7	4.5	4.3	4.5	4.6	4.4	4.6	4.8
Total Conventional	1091.5	1115.0	1213.9	1218.7	1173.4	1129.6	1099.9	1092.8	1074.1	1057.1	1030.2	1013.5	998.4
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	11.6	27.1	30.5	49.2	54.7	58.9	64.7	63.9	62.3	61.1	59.7	57.8	56.8
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
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	0.2	0.2	0.6	0.8	0.9	0.9	0.8
Electric-Gasoline Hybrid	11.9	22.6	24.8	28.4	37.6	37.7	44.7	46.4	47.4	48.5	48.7	50.5	52.4
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	1.6	1.8	1.9	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7	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
Liquefied Petroleum Gases Bi-fuel	6.3	6.6	7.2	7.4	7.2	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3
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	0.2	0.2	0.5	0.6
Total Alternatives	31.9	58.6	65.0	87.4	101.9	106.0	118.8	119.6	119.4	119.6	118.3	118.3	119.0
Percent Alternative Car Sales	2.84	4.99	5.08	6.69	7.99	8.58	9.75	9.87	10.00	10.17	10.30	10.45	10.65
Total New Car Sales	1123.4	1173.6	1278.9	1306.1	1275.3	1235.5	1218.7	1212.4	1193.5	1176.7	1148.5	1131.8	1117.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1066.8	1040.9	886.6	785.3	799.9	820.8	844.0	885.7	900.9	915.7	935.8	931.4	927.8
TDI Diesel ICE	52.8	43.1	45.9	45.0	44.3	45.7	47.7	52.3	55.8	57.4	57.3	60.3	62.8
Total Conventional	1119.6	1084.0	932.5	830.2	844.2	866.5	891.7	937.9	956.7	973.1	993.1	991.7	990.6
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	77.6	61.5	56.3	100.5	118.3	141.8	172.2	182.9	186.3	189.9	194.6	193.7	193.0
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	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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	0.1	0.0
Electric-Gasoline Hybrid	0.0	10.1	12.4	11.6	26.2	27.1	28.3	31.0	35.1	38.6	40.8	49.1	53.3
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	4.7	4.6	4.0	3.7	3.9	4.1	4.3	4.6	4.7	4.7	4.9	4.9	4.9
Liquefied Petroleum Gases ICE	0.1	0.1	0.0	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	15.7	15.2	13.1	12.4	13.0	13.6	14.3	15.1	15.5	15.8	16.1	16.2	16.2

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	0.1	0.1	0.1	0.3	0.1	0.1	0.3	0.3
Total Alternatives	98.6	91.9	86.3	128.6	162.0	187.3	219.8	234.3	242.5	249.7	257.1	264.9	268.4
Percent Alternative L.T. Sales	8.10	7.82	8.47	13.42	16.10	17.77	19.77	19.99	20.22	20.42	20.57	21.08	21.32
Total New Truck Sales	1218.2	1176.0	1018.8	958.9	1006.1	1053.8	1111.5	1172.2	1199.2	1222.8	1250.3	1256.6	1259.0
Percent Total Alternative Sales	5.57	6.41	6.59	9.54	11.57	12.81	14.53	14.84	15.12	15.39	15.65	16.04	16.30
EPACT Legislative Alternative Sales	39.51	38.93	36.05	34.84	35.71	36.51	37.76	39.18	39.67	40.09	40.51	40.51	40.44
ZEVP Legislative Alternative Sales	0.00	13.16	13.84	13.67	13.67	18.22	20.35	22.86	34.52	37.45	37.16	70.02	68.87
Total Vehicles Sales	2341.6	2349.6	2297.8	2265.0	2281.5	2289.3	2330.2	2384.6	2392.7	2399.6	2398.8	2388.4	2376.4

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	986.2	975.7	985.4	983.0	978.0	975.6	962.0	959.8	958.2	948.7	945.6	942.2	933.1	932.8	-0.7%
TDI Diesel ICE	5.1	5.5	6.1	6.4	6.9	7.4	7.7	8.3	8.8	8.9	9.4	10.0	10.3	11.1	4.5%
Total Conventional	991.3	981.1	991.4	989.4	984.9	983.0	969.8	968.1	967.0	957.6	955.0	952.2	943.4	943.9	-0.7%
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	0.0	-0.3%
Ethanol-Flex Fuel ICE	56.2	55.8	56.0	56.7	56.1	55.8	55.7	55.1	54.9	55.0	54.3	54.0	53.8	53.5	2.8%
Ethanol ICE	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	5.3%
Electric Vehicle	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	0.3	-0.3%
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	0.0	N/A
Electric-Diesel Hybrid	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	N/A
Electric-Gasoline Hybrid	55.0	57.6	62.1	63.9	67.2	71.2	71.8	74.8	77.9	78.8	81.8	85.1	87.8	91.5	5.7%
Compressed Natural Gas 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	0.3%
Compressed Natural Gas Bi-fuel	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	-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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	6.3	6.2	6.3	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	-0.3%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	0.5	1.1	1.1	1.1	1.1	1.1	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	77.7%
Total Alternatives	121.1	123.6	128.6	130.9	133.7	137.3	137.6	140.1	143.1	143.9	146.2	149.1	151.6	155.0	4.0%
Percent Alternative Car Sales	10.88	11.19	11.48	11.69	11.95	12.26	12.43	12.64	12.89	13.07	13.28	13.54	13.85	14.11	4.2%
Total New Car Sales	1112.4	1104.8	1120.0	1120.4	1118.6	1120.3	1107.4	1108.2	1110.1	1101.5	1101.2	1101.4	1095.1	1098.9	-0.3%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	928.6	928.9	932.4	949.4	952.3	946.1	954.0	952.3	950.8	967.5	967.1	962.1	964.8	958.9	-0.3%
TDI Diesel ICE	66.9	71.8	78.6	83.6	89.9	95.8	101.8	108.9	114.0	116.8	122.9	128.2	133.2	141.2	4.9%
Total Conventional	995.6	1000.8	1011.0	1033.0	1042.1	1041.8	1055.8	1061.2	1064.8	1084.3	1090.1	1090.2	1098.0	1100.2	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	0.0	0.8%
Ethanol-Flex Fuel ICE	193.2	193.3	194.0	197.8	198.5	197.1	198.8	198.5	198.3	201.8	201.7	200.5	201.1	199.8	4.8%
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	0.0	N/A
Electric Vehicle	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8%
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	0.0	N/A
Electric-Diesel Hybrid	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	N/A
Electric-Gasoline Hybrid	55.9	58.8	62.5	65.7	69.2	72.3	74.4	78.0	81.6	84.7	88.8	92.6	96.9	101.2	9.7%
Compressed Natural Gas 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	1.9%
Compressed Natural Gas Bi-fuel	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.5	5.5	5.5	5.5	0.8%
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Liquefied Petroleum Gases Bi-fuel	16.3	16.5	16.7	17.0	17.2	17.2	17.5	17.6	17.7	18.0	18.1	18.2	18.3	18.4	0.8%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	0.3	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.0	1.1	27.1%
Total Alternatives	271.5	274.9	279.6	287.3	291.7	293.4	297.6	301.1	304.7	311.8	316.0	318.7	323.8	326.9	5.2%
Percent Alternative L.T. Sales	21.43	21.55	21.66	21.76	21.87	21.98	21.99	22.10	22.25	22.33	22.47	22.62	22.78	22.91	4.4%
Total New Truck Sales	1267.0	1275.7	1290.6	1320.3	1333.8	1335.2	1353.4	1362.4	1369.5	1396.1	1406.0	1408.9	1421.8	1427.1	0.8%
Percent Total Alternative Sales	16.50	16.74	16.93	17.14	17.35	17.54	17.69	17.86	18.06	18.25	18.43	18.64	18.89	19.08	4.5%
EPACT Legislative Alternative Sales	40.59	40.74	41.23	41.96	42.27	42.32	42.65	42.87	43.06	43.63	43.87	43.94	44.20	44.36	0.5%
ZEVP Legislative Alternative Sales	68.14	104.07	105.45	106.06	111.85	111.13	109.93	122.67	122.11	123.35	129.65	130.66	131.62	133.65	9.7%
Total Vehicles Sales	2379.4	2380.4	2410.6	2440.7	2452.4	2455.6	2460.8	2470.6	2479.6	2497.5	2507.2	2510.2	2516.9	2526.0	0.3%

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.

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

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1203.9	1218.7	1314.7	1312.1	1256.8	1204.9	1170.2	1160.4	1138.5	1119.1	1089.6	1071.4	1055.0
TDI Diesel ICE	4.1	4.2	5.4	5.9	5.8	5.3	4.9	4.7	4.9	5.0	4.8	4.9	5.1
Total Conventional	1208.0	1222.9	1320.1	1318.0	1262.6	1210.2	1175.1	1165.1	1143.4	1124.1	1094.4	1076.3	1060.0
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	12.8	29.7	33.2	53.1	58.8	63.1	69.2	68.0	66.2	64.9	63.3	61.3	60.1
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	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
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	0.2	0.2	0.7	0.9	1.0	0.9	0.9
Electric-Gasoline Hybrid	13.1	24.5	26.8	30.4	40.1	40.2	47.4	49.0	50.0	51.1	51.3	53.1	55.0
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	1.8	1.9	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8
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	7.0	7.2	7.8	7.9	7.7	7.4	7.3	7.3	7.1	7.0	6.9	6.8	6.7
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	35.2	63.9	70.5	94.2	109.3	113.3	126.6	127.0	126.5	126.4	124.9	124.5	125.1
Percent Alternative Car Sales	2.83	4.96	5.07	6.67	7.97	8.56	9.72	9.83	9.96	10.11	10.25	10.37	10.56
Total New Car Sales	1243.2	1286.8	1390.6	1412.2	1372.0	1323.6	1301.7	1292.1	1269.9	1250.5	1219.4	1200.8	1185.1
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1179.3	1140.0	958.9	849.8	857.7	876.5	900.9	943.0	958.2	972.3	992.4	988.3	985.0
TDI Diesel ICE	59.9	48.9	55.6	47.9	51.0	52.5	52.1	57.3	60.6	62.5	62.9	64.8	66.4
Total Conventional	1239.1	1188.9	1014.4	897.6	908.8	929.0	953.0	1000.3	1018.8	1034.9	1055.3	1053.1	1051.4
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	85.8	67.4	60.8	108.8	127.0	151.4	183.8	194.7	198.0	201.6	206.3	205.4	204.9
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	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	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	0.0	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	0.1	0.1
Electric-Gasoline Hybrid	0.0	10.9	13.4	12.4	28.0	28.9	30.0	32.8	37.1	40.6	43.0	51.7	56.0
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	5.2	5.0	4.3	4.0	4.2	4.4	4.6	4.8	5.0	5.0	5.2	5.2	5.2
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	17.4	16.6	14.3	13.4	14.0	14.6	15.3	16.1	16.5	16.8	17.1	17.2	17.2
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	109.0	100.5	93.4	139.1	173.6	199.8	234.2	249.0	257.1	264.6	272.1	280.1	283.9

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Percent Alternative L.T. Sales	8.09	7.80	8.43	13.42	16.04	17.70	19.73	19.93	20.15	20.36	20.50	21.01	21.26
Total New Truck Sales	1348.1	1289.4	1107.8	1036.7	1082.4	1128.9	1187.2	1249.3	1276.0	1299.5	1327.4	1333.2	1335.3
Percent Total Alternative Sales	5.57	6.38	6.56	9.52	11.53	12.77	14.50	14.80	15.07	15.33	15.59	15.97	16.23
EPACT Legislative Alternative Sales	43.72	42.68	39.20	37.67	38.42	39.12	40.34	41.76	42.21	42.61	43.01	42.98	42.90
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	2591.3	2576.2	2498.4	2448.9	2454.4	2452.4	2488.9	2541.4	2545.8	2549.9	2546.7	2534.0	2520.5

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	1046.5	1035.4	1045.1	1041.9	1036.0	1032.8	1017.7	1014.8	1012.3	1001.5	997.5	993.1	982.5	981.2	-0.9%
TDI Diesel ICE	5.4	5.8	6.3	6.6	7.1	7.7	8.0	8.6	9.2	9.2	9.8	10.4	10.7	11.6	4.1%
Total Conventional	1052.0	1041.2	1051.4	1048.6	1043.2	1040.5	1025.7	1023.5	1021.5	1010.7	1007.3	1003.5	993.3	992.8	-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	0.0	-0.4%
Ethanol-Flex Fuel ICE	59.6	59.0	59.3	59.9	59.3	58.9	58.8	58.1	57.9	58.0	57.1	56.8	56.5	56.1	2.6%
Ethanol ICE	0.3	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	5.6%
Electric Vehicle	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.4%
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	0.0	N/A
Electric-Diesel Hybrid	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	N/A
Electric-Gasoline Hybrid	57.8	60.5	65.2	67.0	70.4	74.6	75.2	78.3	81.5	82.3	85.4	88.8	91.6	95.4	5.6%
Compressed Natural Gas 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	0.2%
Compressed Natural Gas Bi-fuel	1.8	1.7	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	-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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	6.6	6.6	6.7	6.7	6.7	6.7	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.5	-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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Total Alternatives	127.2	129.2	134.3	136.8	139.6	143.3	143.6	146.0	149.0	149.8	152.0	155.0	157.5	160.9	3.8%
Percent Alternative Car Sales	10.79	11.04	11.33	11.54	11.80	12.10	12.28	12.48	12.73	12.91	13.12	13.38	13.69	13.95	4.2%
Total New Car Sales	1179.2	1170.4	1185.7	1185.4	1182.7	1183.8	1169.4	1169.4	1170.5	1160.6	1159.3	1158.5	1150.8	1153.7	-0.4%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	984.8	984.9	989.0	1006.4	1009.0	1001.8	1009.2	1007.1	1004.9	1021.8	1020.6	1014.1	1015.6	1008.4	-0.5%
TDI Diesel ICE	71.5	76.5	82.4	87.5	94.0	100.1	106.8	113.9	119.1	122.0	128.4	134.3	140.1	148.4	4.5%
Total Conventional	1056.3	1061.4	1071.4	1094.0	1103.0	1102.0	1116.0	1121.1	1124.0	1143.8	1149.1	1148.4	1155.6	1156.8	-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	0.0	0.6%
Ethanol-Flex Fuel ICE	204.8	204.8	205.6	209.5	210.1	208.6	210.2	209.7	209.4	212.9	212.6	211.2	211.5	209.9	4.6%
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	0.0	N/A
Electric Vehicle	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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	0.0	0.0	0.0	N/A
Electric-Diesel Hybrid	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	N/A
Electric-Gasoline Hybrid	58.7	61.7	65.5	69.0	72.5	75.7	78.0	81.7	85.4	88.6	92.8	96.6	101.1	105.4	9.5%
Compressed Natural Gas 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	1.6%
Compressed Natural Gas Bi-fuel	5.2	5.2	5.3	5.4	5.5	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	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	0.0	-1.8%
Liquefied Petroleum Gases Bi-fuel	17.3	17.4	17.6	18.0	18.2	18.2	18.4	18.5	18.6	19.0	19.1	19.1	19.3	19.3	0.6%
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	0.0	N/A
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	0.0	N/A
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	0.0	69.1%
Total Alternatives	286.9	290.0	295.0	302.9	307.3	309.0	313.1	316.5	320.0	327.2	331.2	333.6	338.6	341.4	5.0%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Percent Alternative L.T. Sales	21.36	21.46	21.59	21.69	21.79	21.90	21.91	22.02	22.16	22.24	22.38	22.51	22.66	22.79	4.4%
Total New Truck Sales	1343.2	1351.4	1366.3	1396.9	1410.3	1410.9	1429.1	1437.6	1444.0	1471.0	1480.3	1482.0	1494.2	1498.2	0.6%
Percent Total Alternative Sales	16.42	16.62	16.82	17.03	17.23	17.43	17.58	17.74	17.94	18.13	18.31	18.50	18.76	18.94	4.4%
EPACT Legislative Alternative Sales	43.03	43.16	43.65	44.39	44.69	44.72	45.03	45.24	45.40	45.97	46.18	46.22	46.45	46.57	0.3%
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	0.00	N/A
Total Vehicles Sales	2522.3	2521.8	2552.1	2582.3	2593.1	2594.8	2598.5	2607.0	2614.5	2631.5	2639.6	2640.5	2645.0	2651.9	0.1%

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	479.4	494.2	542.0	546.2	527.8	509.9	498.3	496.9	490.0	483.8	473.1	467.0	461.9
TDI Diesel ICE	1.6	1.7	1.9	2.5	2.5	2.3	2.1	2.1	2.1	2.2	2.1	2.2	2.3
Total Conventional	481.1	495.9	543.9	548.7	530.3	512.2	500.5	499.0	492.1	486.0	475.2	469.2	464.2
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	5.1	12.1	13.7	22.1	24.7	26.7	29.4	29.1	28.5	28.0	27.5	26.7	26.3
Ethanol 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
Electric Vehicle	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
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	0.1	0.1	0.3	0.4	0.4	0.4	0.4
Electric-Gasoline Hybrid	5.2	9.9	10.8	12.6	16.8	17.0	20.1	20.9	21.5	22.0	22.2	23.1	23.6
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	0.7	0.8	0.9	0.9	0.9	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	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	2.8	2.9	3.2	3.3	3.2	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9
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
Total Alternatives	14.0	25.9	28.9	39.2	45.9	47.9	53.9	54.3	54.4	54.6	54.2	54.2	54.3
Percent Alternative Car Sales	2.84	4.96	5.04	6.67	7.97	8.56	9.72	9.82	9.95	10.10	10.24	10.36	10.47
Total New Car Sales	495.1	521.8	572.7	587.9	576.2	560.1	554.4	553.4	546.5	540.6	529.4	523.4	518.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	469.5	462.6	399.1	353.3	359.8	370.5	383.3	403.5	412.0	419.9	430.4	430.3	430.7
TDI Diesel ICE	24.0	19.5	18.5	20.4	22.0	22.7	22.6	25.0	26.6	27.6	27.9	28.9	29.7
Total Conventional	493.5	482.1	417.6	373.8	381.8	393.2	406.0	428.5	438.6	447.6	458.3	459.2	460.5
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	34.1	27.4	25.4	45.2	53.3	64.0	78.2	83.3	85.1	87.1	89.4	89.4	89.6
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.0	4.4	5.4	5.1	11.7	12.2	12.7	14.0	15.9	17.5	18.6	22.5	24.0
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	2.1	2.0	1.8	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.2	2.3	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	6.9	6.7	5.9	5.6	5.9	6.2	6.5	6.9	7.1	7.2	7.4	7.5	7.5
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	43.4	40.8	38.7	57.8	72.8	84.5	99.6	106.5	110.5	114.2	118.0	121.9	123.7
Percent Alternative L.T. Sales	8.08	7.80	8.48	13.40	16.02	17.68	19.71	19.91	20.12	20.33	20.47	20.98	21.17
Total New Truck Sales	536.9	522.8	456.3	431.6	454.6	477.7	505.6	535.0	549.1	561.8	576.3	581.1	584.1
Percent Total Alternative Sales	5.57	6.38	6.57	9.52	11.52	12.76	14.48	14.78	15.05	15.31	15.57	15.95	16.14
EPACT Legislative Alternative Sales	17.41	17.31	16.14	15.68	16.14	16.55	17.18	17.88	18.16	18.42	18.67	18.73	18.76

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	1032.0	1044.6	1029.0	1019.5	1030.9	1037.8	1060.0	1088.4	1095.7	1102.4	1105.6	1104.5	1102.6

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	459.7	456.3	462.2	462.3	461.1	461.2	455.8	455.9	456.1	452.6	452.1	451.4	447.8	448.5	-0.4%
TDI Diesel ICE	2.4	2.6	2.9	3.0	3.2	3.5	3.7	4.0	4.2	4.2	4.5	4.8	5.0	5.4	4.8%
Total Conventional	462.1	458.9	465.0	465.3	464.4	464.7	459.5	459.8	460.3	456.8	456.6	456.2	452.8	453.9	-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	0.0	0.0%
Ethanol-Flex Fuel ICE	26.2	26.0	26.2	26.6	26.4	26.3	26.3	26.1	26.1	26.2	25.9	25.8	25.8	25.6	3.1%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.3%
Electric Vehicle	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	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	0.0	N/A
Electric-Diesel Hybrid	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	N/A
Electric-Gasoline Hybrid	24.9	26.1	28.2	29.1	30.7	32.6	33.0	34.4	36.0	36.5	37.9	39.5	40.9	42.7	6.0%
Compressed Natural Gas 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	0.8%
Compressed Natural Gas Bi-fuel	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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	N/A
Liquefied Petroleum Gases Bi-fuel	2.9	2.9	2.9	3.0	3.0	3.0	2.9	3.0	3.0	2.9	3.0	3.0	2.9	3.0	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Total Alternatives	55.4	56.4	58.8	60.1	61.5	63.3	63.7	64.9	66.4	67.0	68.1	69.7	71.0	72.7	4.2%
Percent Alternative Car Sales	10.70	10.95	11.23	11.44	11.69	11.99	12.17	12.36	12.61	12.78	12.98	13.25	13.55	13.80	4.2%
Total New Car Sales	517.5	515.3	523.8	525.3	525.8	528.0	523.1	524.7	526.8	523.8	524.8	525.9	523.8	526.6	0.0%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	432.0	433.4	436.7	445.8	448.3	446.5	451.1	451.5	451.8	460.7	461.5	459.8	461.7	459.7	0.0%
TDI Diesel ICE	32.1	34.5	37.3	39.7	42.8	45.7	48.9	52.3	54.8	56.4	59.5	62.4	65.3	69.4	5.2%
Total Conventional	464.1	467.9	473.9	485.5	491.1	492.2	500.0	503.8	506.7	517.1	521.0	522.2	527.0	529.1	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	0.0	1.1%
Ethanol-Flex Fuel ICE	89.8	90.1	90.8	92.8	93.3	92.9	93.9	94.0	94.1	96.0	96.1	95.7	96.1	95.6	5.1%
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	0.0	N/A
Electric Vehicle	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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	0.0	N/A
Electric-Diesel Hybrid	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	N/A
Electric-Gasoline Hybrid	25.3	26.6	28.4	30.0	31.6	33.1	34.2	35.9	37.7	39.2	41.2	43.0	45.1	47.2	10.0%
Compressed Natural Gas 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	2.2%
Compressed Natural Gas Bi-fuel	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	1.1%
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	0.0	-1.3%
Liquefied Petroleum Gases Bi-fuel	7.6	7.7	7.8	8.0	8.1	8.1	8.2	8.3	8.4	8.6	8.6	8.7	8.8	8.8	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	0.0	N/A
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	0.0	N/A
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	0.0	69.4%
Total Alternatives	125.3	127.1	129.7	133.6	135.9	137.1	139.3	141.2	143.2	146.8	149.0	150.5	153.1	154.7	5.5%
Percent Alternative L.T. Sales	21.26	21.36	21.48	21.58	21.68	21.78	21.79	21.89	22.03	22.11	22.24	22.37	22.51	22.63	4.4%
Total New Truck Sales	589.5	595.0	603.6	619.1	627.0	629.3	639.3	645.0	649.9	663.9	670.0	672.7	680.1	683.8	1.1%
Percent Total Alternative Sales	16.32	16.53	16.72	16.92	17.12	17.31	17.46	17.62	17.81	18.00	18.17	18.36	18.61	18.79	4.4%
EPACT Legislative Alternative Sales	18.89	19.00	19.28	19.67	19.87	19.94	20.14	20.30	20.43	20.75	20.90	20.98	21.14	21.26	0.8%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.00	N/A
Total Vehicles Sales	1107.0	1110.4	1127.4	1144.4	1152.9	1157.2	1162.4	1169.7	1176.6	1187.7	1194.8	1198.6	1203.9	1210.4	0.6%

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.

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

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1476.6	1501.2	1631.8	1640.3	1584.8	1533.2	1502.7	1504.8	1491.3	1481.5	1458.2	1449.8	1443.6
TDI Diesel ICE	4.7	5.1	6.1	7.0	6.9	6.4	6.2	6.0	6.3	6.4	6.3	6.7	7.0
Total Conventional	1481.3	1506.3	1637.9	1647.4	1591.6	1539.6	1508.9	1510.8	1497.6	1487.9	1464.5	1456.4	1450.6
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	15.7	36.6	41.2	66.4	74.2	80.3	88.8	88.0	86.6	85.8	84.7	82.8	82.2
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Electric Vehicle	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
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	0.2	0.2	0.9	1.1	1.3	1.3	1.1
Electric-Gasoline Hybrid	15.7	29.9	32.7	37.5	50.0	50.6	60.3	63.0	64.9	67.1	68.1	71.3	74.8
Compressed Natural Gas ICE	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.2	2.4	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4
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	8.6	8.9	9.7	9.9	9.7	9.5	9.4	9.4	9.4	9.3	9.2	9.1	9.1
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	42.9	78.5	86.9	117.2	137.2	143.6	162.0	164.0	165.0	166.6	166.5	167.7	170.5
Percent Alternative Car Sales	2.81	4.95	5.04	6.64	7.94	8.53	9.69	9.79	9.92	10.07	10.21	10.33	10.52
Total New Car Sales	1524.1	1584.8	1724.8	1764.6	1728.8	1683.2	1670.9	1674.7	1662.6	1654.5	1631.0	1624.1	1621.1
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1452.5	1405.6	1196.7	1064.8	1085.7	1118.7	1157.9	1224.2	1256.3	1288.5	1329.8	1338.0	1347.6
TDI Diesel ICE	65.8	58.5	61.2	56.5	58.8	62.2	65.3	72.1	77.6	80.7	81.6	86.6	91.2
Total Conventional	1518.3	1464.1	1257.9	1121.3	1144.5	1180.9	1223.2	1296.3	1333.9	1369.2	1411.4	1424.6	1438.8
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	105.9	83.1	76.1	136.5	161.0	193.6	236.3	252.8	259.7	267.2	276.4	278.1	280.2
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	0.7	0.7	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8
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	0.1	0.1
Electric-Gasoline Hybrid	0.0	13.3	16.4	15.3	34.9	36.4	38.1	42.2	48.1	53.3	57.0	69.3	76.0
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	6.4	6.2	5.3	5.0	5.3	5.6	5.9	6.3	6.5	6.7	6.9	7.0	7.1
Liquefied Petroleum Gases ICE	0.1	0.0	0.0	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	21.3	20.5	17.7	16.7	17.6	18.5	19.7	20.9	21.6	22.2	22.9	23.3	23.6
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	134.4	123.8	116.1	174.1	219.4	254.7	300.7	322.9	336.6	350.1	364.0	378.6	387.8
Percent Alternative L.T. Sales	8.13	7.80	8.45	13.44	16.09	17.74	19.73	19.94	20.15	20.36	20.50	20.99	21.23
Total New Truck Sales	1652.8	1588.0	1374.0	1295.4	1363.9	1435.6	1523.9	1619.2	1670.5	1719.4	1775.4	1803.2	1826.5
Percent Total Alternative Sales	5.58	6.38	6.55	9.52	11.53	12.77	14.48	14.78	15.05	15.32	15.57	15.94	16.19
EPACT Legislative Alternative Sales	53.60	52.57	48.62	47.07	48.41	49.74	51.78	54.12	55.26	56.37	57.52	58.14	58.68

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	3176.9	3172.7	3098.8	3060.0	3092.8	3118.8	3194.8	3294.0	3333.1	3373.9	3406.4	3427.3	3447.6

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	1449.2	1451.3	1483.2	1497.3	1507.8	1522.4	1519.5	1535.0	1551.4	1555.0	1569.1	1582.7	1586.3	1604.9	0.3%
TDI Diesel ICE	7.5	8.1	9.1	9.8	10.6	11.6	12.3	13.4	14.4	14.6	15.8	16.9	17.7	19.4	5.5%
Total Conventional	1456.8	1459.5	1492.3	1507.1	1518.5	1534.1	1531.8	1548.4	1565.7	1569.7	1584.9	1599.6	1604.0	1624.3	0.3%
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	0.0	0.7%
Ethanol-Flex Fuel ICE	82.4	82.6	84.0	86.0	86.2	86.7	87.7	87.7	88.6	89.9	89.8	90.4	91.2	91.7	3.7%
Ethanol ICE	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	6.8%
Electric Vehicle	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	0.7%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric-Diesel Hybrid	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	N/A
Electric-Gasoline Hybrid	79.5	84.2	91.9	95.7	101.9	109.3	111.5	117.6	124.1	127.1	133.5	140.6	147.0	155.1	6.8%
Compressed Natural Gas ICE	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4%
Compressed Natural Gas Bi-fuel	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.8	2.8	0.7%
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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	9.2	9.2	9.5	9.6	9.7	9.8	9.8	10.0	10.1	10.1	10.3	10.4	10.5	10.6	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Total Alternatives	175.5	180.4	189.9	195.8	202.3	210.4	213.6	219.9	227.5	231.7	238.2	246.0	253.3	262.1	4.9%
Percent Alternative Car Sales	10.75	11.00	11.29	11.50	11.76	12.06	12.24	12.44	12.68	12.86	13.07	13.33	13.64	13.89	4.2%
Total New Car Sales	1632.2	1639.9	1682.2	1702.9	1720.7	1744.4	1745.4	1768.3	1793.2	1801.4	1823.1	1845.6	1857.3	1886.3	0.7%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	1363.9	1380.5	1402.3	1444.8	1466.7	1474.9	1504.9	1521.1	1537.6	1584.0	1602.8	1613.9	1637.4	1646.9	0.6%
TDI Diesel ICE	98.8	107.3	118.6	127.9	139.2	150.2	162.2	175.4	185.8	192.9	205.7	217.1	229.3	246.3	5.9%
Total Conventional	1462.7	1487.8	1520.9	1572.7	1605.9	1625.0	1667.1	1696.6	1723.5	1776.9	1808.6	1831.0	1866.7	1893.2	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	0.0	1.7%
Ethanol-Flex Fuel ICE	283.5	286.9	291.5	300.6	305.3	306.9	313.2	316.6	320.3	329.9	333.8	335.9	340.8	342.6	5.8%
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	0.0	N/A
Electric Vehicle	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	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	0.0	0.0	0.0	0.0	N/A
Electric-Diesel Hybrid	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	N/A
Electric-Gasoline Hybrid	80.7	85.9	92.3	98.3	104.8	110.8	115.6	122.6	129.9	136.5	144.8	152.9	162.0	171.2	10.8%
Compressed Natural Gas ICE	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	0.1	2.4%
Compressed Natural Gas Bi-fuel	7.2	7.3	7.5	7.8	8.0	8.1	8.3	8.4	8.6	8.9	9.0	9.2	9.4	9.5	1.7%
Liquefied Petroleum Gases ICE	0.1	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	0.4%
Liquefied Petroleum Gases Bi-fuel	24.0	24.4	25.0	25.9	26.5	26.8	27.5	28.0	28.5	29.5	30.0	30.5	31.1	31.6	1.7%
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	0.0	N/A
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	0.0	N/A
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	0.0	70.7%
Total Alternatives	396.6	405.8	417.5	434.1	446.0	454.0	466.1	477.2	488.8	506.2	519.2	529.9	544.8	556.4	6.2%
Percent Alternative L.T. Sales	21.33	21.43	21.54	21.63	21.73	21.84	21.85	21.95	22.09	22.17	22.30	22.44	22.59	22.71	4.4%
Total New Truck Sales	1859.2	1893.6	1938.4	2006.8	2051.9	2079.1	2133.2	2173.8	2212.3	2283.2	2327.7	2360.9	2411.5	2449.6	1.7%
Percent Total Alternative Sales	16.38	16.59	16.78	16.98	17.18	17.38	17.52	17.68	17.88	18.07	18.25	18.45	18.69	18.88	4.4%
EPACT Legislative Alternative Sales	59.57	60.47	61.93	63.77	65.03	65.90	67.22	68.40	69.56	71.35	72.62	73.63	74.96	76.14	1.5%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.00	N/A
Total Vehicles Sales	3491.5	3533.5	3620.6	3709.7	3772.6	3823.5	3878.6	3942.0	4005.5	4084.5	4150.8	4206.5	4268.8	4336.0	1.3%

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	397.5	409.0	447.9	452.5	437.9	423.5	414.3	413.6	408.3	403.7	395.2	390.7	387.0
TDI Diesel ICE	1.3	1.5	1.8	1.9	1.9	1.8	1.7	1.6	1.7	1.7	1.7	1.8	1.9
Total Conventional	398.8	410.5	449.7	454.4	439.7	425.3	416.0	415.3	410.0	405.4	396.9	392.4	388.9
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	4.2	10.0	11.3	18.3	20.5	22.2	24.5	24.2	23.7	23.4	23.0	22.3	22.0
Ethanol ICE	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 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	0.0	0.0	0.0	0.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3
Electric-Gasoline Hybrid	4.2	8.2	9.0	10.4	13.9	14.0	16.7	17.4	17.8	18.3	18.5	19.2	19.7
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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
Liquefied Petroleum Gases Bi-fuel	2.3	2.4	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.4
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	11.6	21.4	23.9	32.4	38.0	39.7	44.7	45.1	45.2	45.4	45.2	45.2	45.4
Percent Alternative Car Sales	2.81	4.96	5.05	6.65	7.94	8.54	9.70	9.80	9.93	10.08	10.22	10.34	10.45
Total New Car Sales	410.4	431.9	473.6	486.7	477.7	465.0	460.7	460.4	455.2	450.8	442.1	437.7	434.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	390.0	381.7	327.0	293.8	300.0	309.2	319.5	336.8	344.2	351.4	360.7	360.9	361.6
TDI Diesel ICE	18.9	17.4	18.5	15.5	16.2	17.0	17.7	19.5	20.9	21.6	21.8	23.0	24.0
Total Conventional	408.9	399.1	345.5	309.3	316.2	326.2	337.2	356.3	365.1	373.0	382.5	383.8	385.6
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	28.4	22.6	20.8	37.7	44.5	53.5	65.2	69.5	71.2	72.9	75.0	75.0	75.2
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	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	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	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	3.6	4.5	4.2	9.7	10.1	10.5	11.6	13.2	14.5	15.5	18.7	20.0
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	1.7	1.7	1.5	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	1.9	1.9
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
Liquefied Petroleum Gases Bi-fuel	5.7	5.6	4.9	4.6	4.9	5.1	5.4	5.7	5.9	6.0	6.2	6.3	6.3
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	36.1	33.7	31.8	48.0	60.6	70.4	83.0	88.8	92.3	95.5	98.8	102.1	103.7
Percent Alternative L.T. Sales	8.11	7.78	8.42	13.45	16.09	17.75	19.75	19.96	20.17	20.38	20.52	21.02	21.19
Total New Truck Sales	445.0	432.8	377.3	357.3	376.9	396.6	420.2	445.1	457.4	468.5	481.2	485.9	489.3
Percent Total Alternative Sales	5.57	6.37	6.54	9.53	11.54	12.78	14.49	14.79	15.06	15.33	15.59	15.95	16.14
EPACT Legislative Alternative Sales	14.43	14.33	13.35	12.98	13.38	13.74	14.28	14.88	15.13	15.36	15.59	15.67	15.72

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	855.3	864.7	851.0	844.1	854.6	861.5	880.9	905.5	912.6	919.3	923.3	923.6	923.6

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	386.0	383.8	389.5	390.3	390.0	390.8	386.9	387.7	388.7	386.4	386.7	386.8	384.5	385.8	-0.2%
TDI Diesel ICE	2.0	2.1	2.4	2.5	2.7	3.0	3.1	3.4	3.6	3.6	3.8	4.1	4.3	4.6	4.7%
Total Conventional	388.0	386.0	391.8	392.8	392.7	393.7	390.0	391.1	392.2	390.0	390.6	390.9	388.8	390.5	-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	0.0	0.2%
Ethanol-Flex Fuel ICE	21.9	21.9	22.1	22.4	22.3	22.3	22.3	22.2	22.2	22.3	22.1	22.1	22.1	22.0	3.2%
Ethanol 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	0.2	0.2	6.3%
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	0.1	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	0.0	N/A
Electric-Diesel Hybrid	0.3	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	N/A
Electric-Gasoline Hybrid	20.8	21.9	23.7	24.5	25.9	27.6	27.9	29.2	30.6	31.0	32.3	33.8	35.0	36.6	6.2%
Compressed Natural Gas 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	1.4%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.2%
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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Total Alternatives	46.4	47.3	49.4	50.6	51.9	53.5	53.9	55.0	56.4	57.0	58.1	59.5	60.8	62.4	4.4%
Percent Alternative Car Sales	10.68	10.92	11.20	11.41	11.67	11.96	12.14	12.34	12.58	12.76	12.96	13.22	13.52	13.77	4.2%
Total New Car Sales	434.4	433.3	441.3	443.4	444.6	447.2	443.9	446.1	448.7	447.0	448.7	450.5	449.6	452.8	0.2%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	363.6	365.4	368.6	376.9	379.8	379.0	383.6	384.7	385.7	394.1	395.5	395.0	397.5	396.5	0.2%
TDI Diesel ICE	25.8	27.9	30.6	32.8	35.4	37.9	40.6	43.5	45.8	47.1	49.8	52.2	54.7	58.3	5.0%
Total Conventional	389.4	393.3	399.2	409.7	415.2	416.8	424.2	428.2	431.5	441.2	445.4	447.2	452.2	454.8	0.5%
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	0.0	1.2%
Ethanol-Flex Fuel ICE	75.6	76.0	76.6	78.5	79.1	78.9	79.9	80.1	80.4	82.1	82.4	82.3	82.8	82.5	5.3%
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	0.0	N/A
Electric Vehicle	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	1.2%
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	0.0	N/A
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	0.1	N/A
Electric-Gasoline Hybrid	21.1	22.3	23.8	25.2	26.7	28.0	28.9	30.5	32.0	33.4	35.1	36.8	38.6	40.5	10.1%
Compressed Natural Gas 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	3.5%
Compressed Natural Gas Bi-fuel	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	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	0.0	-1.7%
Liquefied Petroleum Gases Bi-fuel	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.3	7.4	7.4	7.5	7.6	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	0.0	N/A
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	0.0	N/A
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	0.0	70.2%
Total Alternatives	105.4	107.0	109.3	112.8	115.0	116.2	118.3	120.1	122.1	125.4	127.5	129.0	131.6	133.2	5.7%
Percent Alternative L.T. Sales	21.29	21.39	21.50	21.59	21.69	21.80	21.81	21.91	22.05	22.13	22.26	22.39	22.54	22.66	4.4%
Total New Truck Sales	494.8	500.3	508.5	522.5	530.2	533.0	542.5	548.4	553.5	566.6	572.9	576.3	583.7	588.1	1.2%
Percent Total Alternative Sales	16.33	16.53	16.72	16.92	17.12	17.31	17.46	17.61	17.81	17.99	18.17	18.37	18.61	18.79	4.4%
EPACT Legislative Alternative Sales	15.85	15.98	16.25	16.60	16.80	16.89	17.09	17.26	17.40	17.71	17.87	17.97	18.14	18.28	1.0%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.00	N/A
Total Vehicles Sales	929.1	933.6	949.8	965.9	974.8	980.2	986.4	994.5	1002.2	1013.6	1021.6	1026.7	1033.3	1040.9	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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	812.6	832.3	908.5	917.7	889.3	862.1	845.8	847.2	839.5	833.6	819.9	814.4	811.0
TDI Diesel ICE	2.6	3.0	3.8	3.9	3.8	3.5	3.4	3.3	3.4	3.5	3.4	3.6	3.8
Total Conventional	815.2	835.3	912.3	921.6	893.1	865.6	849.2	850.5	843.0	837.2	823.4	818.0	814.8
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	8.7	20.3	22.9	37.1	41.6	45.2	50.0	49.5	48.7	48.2	47.6	46.5	46.1
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Electric Vehicle	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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	0.1	0.1	0.5	0.6	0.7	0.7	0.6
Electric-Gasoline Hybrid	8.6	16.6	18.4	20.9	28.0	28.3	33.8	35.3	36.4	37.6	38.1	39.9	41.0
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	1.2	1.3	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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	4.7	4.9	5.4	5.6	5.5	5.3	5.3	5.3	5.3	5.2	5.2	5.1	5.1
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	23.5	43.5	48.5	65.5	76.9	80.6	91.0	92.1	92.7	93.6	93.4	94.0	94.8
Percent Alternative Car Sales	2.81	4.95	5.05	6.64	7.93	8.52	9.68	9.77	9.91	10.05	10.19	10.31	10.42
Total New Car Sales	838.7	878.8	960.8	987.1	970.0	946.2	940.2	942.6	935.7	930.7	916.8	912.0	909.6
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	799.0	777.2	662.0	596.1	609.9	630.0	652.8	690.4	708.5	726.4	749.1	753.0	758.5
TDI Diesel ICE	36.5	34.8	39.1	31.1	32.1	33.7	35.3	39.0	41.9	43.6	44.0	46.7	49.1
Total Conventional	835.5	812.0	701.0	627.2	642.1	663.7	688.1	729.4	750.4	769.9	793.1	799.7	807.6
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	58.3	45.9	42.0	76.4	90.5	109.1	133.3	142.6	146.5	150.7	155.7	156.5	157.8
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	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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	0.0	7.4	9.2	8.5	19.5	20.4	21.4	23.7	27.0	29.9	31.9	38.8	41.7
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	3.5	3.4	3.0	2.8	3.0	3.1	3.3	3.5	3.6	3.8	3.9	3.9	4.0
Liquefied Petroleum Gases ICE	0.1	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	11.7	11.4	9.9	9.3	9.9	10.4	11.1	11.8	12.1	12.5	12.9	13.1	13.2
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	74.0	68.5	64.4	97.5	123.2	143.4	169.5	182.0	189.7	197.2	204.9	212.8	217.2
Percent Alternative L.T. Sales	8.13	7.78	8.41	13.45	16.10	17.76	19.76	19.97	20.18	20.39	20.53	21.02	21.20
Total New Truck Sales	909.5	880.6	765.4	724.7	765.3	807.0	857.5	911.4	940.2	967.2	998.0	1012.6	1024.8
Percent Total Alternative Sales	5.58	6.37	6.54	9.52	11.53	12.78	14.49	14.79	15.06	15.32	15.58	15.94	16.13
EPACT Legislative Alternative Sales	29.50	29.15	27.08	26.33	27.16	27.96	29.14	30.46	31.10	31.71	32.34	32.65	32.92

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	1748.2	1759.4	1726.3	1711.8	1735.3	1753.2	1797.7	1854.1	1875.8	1897.9	1914.8	1924.6	1934.4

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	813.3	813.7	831.0	838.2	843.4	850.9	848.6	856.5	864.9	866.3	873.4	880.3	881.7	891.4	0.3%
TDI Diesel ICE	4.1	4.4	5.0	5.3	5.8	6.3	6.7	7.3	7.8	7.9	8.5	9.1	9.6	10.4	5.1%
Total Conventional	817.4	818.2	836.0	843.5	849.2	857.2	855.2	863.8	872.7	874.2	881.9	889.4	891.2	901.8	0.3%
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	0.0	0.7%
Ethanol-Flex Fuel ICE	46.2	46.3	47.0	48.1	48.2	48.4	48.9	48.9	49.4	50.0	49.9	50.2	50.6	50.9	3.7%
Ethanol ICE	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	6.8%
Electric Vehicle	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	0.3	0.7%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric-Diesel Hybrid	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	N/A
Electric-Gasoline Hybrid	43.6	46.1	50.3	52.3	55.6	59.7	60.9	64.1	67.6	69.2	72.6	76.4	79.8	84.1	6.7%
Compressed Natural Gas 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	1.4%
Compressed Natural Gas Bi-fuel	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.6	0.7%
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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	5.1	5.2	5.3	5.4	5.4	5.5	5.5	5.5	5.6	5.6	5.7	5.8	5.8	5.9	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Total Alternatives	97.4	100.0	105.1	108.3	111.8	116.1	117.8	121.1	125.2	127.4	130.8	135.0	138.8	143.5	4.9%
Percent Alternative Car Sales	10.65	10.89	11.17	11.38	11.63	11.93	12.11	12.30	12.54	12.72	12.92	13.18	13.48	13.73	4.2%
Total New Car Sales	914.8	918.2	941.1	951.8	961.0	973.3	973.0	984.9	997.9	1001.6	1012.8	1024.4	1030.1	1045.4	0.7%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	767.0	775.8	787.6	810.8	822.6	826.6	842.8	851.4	860.0	885.2	895.1	900.7	913.3	918.2	0.7%
TDI Diesel ICE	53.1	57.6	63.6	68.6	74.7	80.5	86.9	94.0	99.5	103.3	110.1	116.1	122.5	131.5	5.5%
Total Conventional	820.1	833.4	851.2	879.4	897.2	907.1	929.7	945.3	959.5	988.4	1005.2	1016.8	1035.8	1049.7	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	0.0	1.7%
Ethanol-Flex Fuel ICE	159.5	161.3	163.8	168.8	171.3	172.1	175.5	177.3	179.2	184.5	186.5	187.5	190.2	191.1	5.9%
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	0.0	N/A
Electric Vehicle	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	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	0.0	0.0	0.0	0.0	N/A
Electric-Diesel Hybrid	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	N/A
Electric-Gasoline Hybrid	44.3	47.1	50.6	53.9	57.3	60.6	63.2	67.0	70.9	74.4	78.9	83.2	88.1	93.1	10.7%
Compressed Natural Gas 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	4.1%
Compressed Natural Gas Bi-fuel	4.0	4.1	4.2	4.4	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	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	0.0	-1.6%
Liquefied Petroleum Gases Bi-fuel	13.4	13.7	14.0	14.5	14.8	15.0	15.3	15.6	15.9	16.4	16.7	16.9	17.3	17.5	1.7%
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	0.0	N/A
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	0.0	N/A
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	0.0	71.2%
Total Alternatives	221.9	226.8	233.2	242.3	248.7	252.9	259.4	265.4	271.6	281.0	288.0	293.6	301.6	307.8	6.2%
Percent Alternative L.T. Sales	21.30	21.40	21.51	21.60	21.70	21.80	21.82	21.92	22.06	22.14	22.27	22.41	22.55	22.68	4.4%
Total New Truck Sales	1042.0	1060.2	1084.4	1121.7	1145.9	1160.0	1189.2	1210.7	1231.1	1269.5	1293.1	1310.4	1337.4	1357.5	1.7%
Percent Total Alternative Sales	16.32	16.52	16.71	16.91	17.11	17.30	17.45	17.60	17.80	17.98	18.16	18.36	18.60	18.78	4.4%
EPACT Legislative Alternative Sales	33.39	33.86	34.65	35.65	36.31	36.77	37.47	38.10	38.71	39.67	40.34	40.87	41.57	42.20	1.5%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.00	N/A
Total Vehicles Sales	1956.9	1978.4	2025.5	2073.5	2106.9	2133.4	2162.2	2195.6	2229.0	2271.0	2305.9	2334.9	2367.5	2402.9	1.3%

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	446.1	465.8	516.9	530.5	518.0	506.0	500.0	504.3	502.8	500.9	495.1	494.0	494.0
TDI Diesel ICE	1.5	1.6	2.0	1.5	2.2	2.1	2.0	2.0	2.1	2.2	2.2	2.3	2.4
Total Conventional	447.7	467.4	518.9	532.0	520.2	508.1	502.0	506.2	504.9	503.2	497.3	496.3	496.4
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	4.8	11.4	13.1	21.5	24.3	26.5	29.6	29.6	29.3	29.1	28.8	28.3	28.2
Ethanol ICE	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	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
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	0.1	0.1	0.3	0.4	0.4	0.4	0.4
Electric-Gasoline Hybrid	4.9	9.5	10.6	12.1	16.7	17.0	20.4	21.4	22.2	23.6	23.9	25.1	25.9
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	0.7	0.7	0.8	0.9	0.8	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	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gases Bi-fuel	2.6	2.8	3.1	3.2	3.2	3.1	3.1	3.2	3.2	3.2	3.1	3.1	3.1
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	13.1	24.6	27.8	37.9	45.2	47.7	54.2	55.3	56.0	57.3	57.4	58.0	58.8
Percent Alternative Car Sales	2.85	5.00	5.09	6.65	7.99	8.59	9.75	9.85	9.98	10.22	10.35	10.47	10.58
Total New Car Sales	460.8	492.0	546.7	569.9	565.4	555.9	556.3	561.6	560.9	560.5	554.7	554.3	555.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	436.8	435.7	378.7	350.6	354.9	369.4	385.6	410.8	424.2	435.7	451.6	456.0	461.2
TDI Diesel ICE	22.6	18.8	20.0	10.6	19.3	20.5	21.4	23.6	25.5	27.6	27.9	29.5	31.2
Total Conventional	459.3	454.5	398.6	361.2	374.2	389.8	407.0	434.4	449.7	463.3	479.5	485.6	492.4
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	31.7	25.7	24.0	45.0	52.5	63.8	78.7	84.8	87.7	90.3	93.9	94.8	95.9
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
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	0.0	4.2	5.3	5.0	11.6	12.3	12.9	14.3	16.5	18.7	20.0	24.4	26.4
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	1.9	1.9	1.7	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.3	2.4	2.4
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	6.4	6.4	5.6	5.4	5.8	6.1	6.5	7.0	7.3	7.5	7.8	7.9	8.1

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	40.4	38.5	36.9	57.2	71.9	84.2	100.3	108.5	113.9	119.1	124.3	129.9	133.1
Percent Alternative L.T. Sales	8.08	7.81	8.47	13.68	16.11	17.77	19.78	19.99	20.21	20.45	20.59	21.10	21.28
Total New Truck Sales	499.7	493.0	435.5	418.4	446.1	474.1	507.3	543.0	563.5	582.4	603.8	615.5	625.5
Percent Total Alternative Sales	5.57	6.41	6.59	9.63	11.57	12.81	14.53	14.84	15.11	15.43	15.69	16.06	16.25
EPACT Legislative Alternative Sales	16.21	16.32	15.41	15.20	15.83	16.43	17.24	18.15	18.64	19.10	19.56	19.84	20.09
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	960.5	985.0	982.3	988.3	1011.5	1030.0	1063.6	1104.5	1124.4	1142.9	1158.5	1169.8	1180.7

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	497.3	499.5	511.7	518.1	523.1	529.6	529.8	536.4	543.3	545.6	551.8	557.7	561.1	568.9	0.8%
TDI Diesel ICE	2.6	2.8	3.2	3.4	3.6	4.0	4.2	4.5	4.9	5.0	5.3	5.8	6.1	6.6	5.8%
Total Conventional	500.0	502.3	514.9	521.5	526.7	533.5	534.0	541.0	548.2	550.6	557.2	563.5	567.1	575.6	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	0.0	1.2%
Ethanol-Flex Fuel ICE	28.3	28.5	29.0	29.8	30.0	30.2	30.6	30.7	31.1	31.6	31.6	31.9	32.3	32.5	4.3%
Ethanol ICE	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	7.0%
Electric Vehicle	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	1.2%
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	0.0	N/A
Electric-Diesel Hybrid	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	N/A
Electric-Gasoline Hybrid	27.6	29.3	32.1	33.4	35.6	38.3	39.2	41.4	43.8	44.9	47.2	49.8	51.2	54.1	7.2%
Compressed Natural Gas 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	1.6%
Compressed Natural Gas Bi-fuel	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.7	3.8	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Total Alternatives	60.6	62.5	65.9	68.1	70.5	73.5	74.8	77.2	80.0	81.6	84.0	86.9	88.8	92.0	5.4%
Percent Alternative Car Sales	10.81	11.06	11.35	11.55	11.81	12.11	12.29	12.49	12.73	12.91	13.11	13.37	13.54	13.78	4.1%
Total New Car Sales	560.6	564.8	580.8	589.6	597.3	607.1	608.8	618.2	628.2	632.3	641.2	650.4	655.9	667.6	1.2%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	468.2	475.3	484.0	500.1	509.4	513.7	525.4	533.3	540.5	557.4	565.8	570.8	581.2	586.1	1.2%
TDI Diesel ICE	33.8	36.7	40.7	44.0	47.6	51.3	55.6	59.0	62.4	65.5	69.4	73.7	78.1	83.9	6.2%
Total Conventional	502.0	512.0	524.8	544.1	557.0	565.0	581.0	592.3	602.9	622.9	635.3	644.5	659.2	670.0	1.6%
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	0.0	2.3%
Ethanol-Flex Fuel ICE	97.3	98.8	100.6	104.1	106.1	107.0	109.4	111.1	112.7	116.2	117.9	118.9	121.1	122.0	6.4%
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	0.0	N/A
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	2.3%
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	0.0	N/A
Electric-Diesel Hybrid	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	N/A
Electric-Gasoline Hybrid	28.1	29.9	32.2	34.4	36.7	38.9	40.6	43.3	45.9	48.3	51.3	54.2	56.6	59.8	11.2%
Compressed Natural Gas 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	4.4%
Compressed Natural Gas Bi-fuel	2.5	2.5	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.1	3.2	3.2	3.3	3.4	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	0.0	-1.7%
Liquefied Petroleum Gases Bi-fuel	8.2	8.4	8.6	9.0	9.2	9.3	9.6	9.8	10.0	10.3	10.6	10.7	11.0	11.2	2.3%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.0	N/A
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	0.0	N/A
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	0.0	70.7%
Total Alternatives	136.5	140.1	144.5	150.6	155.2	158.5	163.1	167.6	172.1	178.5	183.5	187.6	192.5	197.0	6.7%
Percent Alternative L.T. Sales	21.38	21.48	21.59	21.68	21.80	21.90	21.92	22.05	22.21	22.27	22.41	22.54	22.60	22.72	4.4%
Total New Truck Sales	638.5	652.1	669.3	694.8	712.2	723.5	744.1	759.9	775.0	801.4	818.7	832.1	851.7	867.0	2.3%
Percent Total Alternative Sales	16.44	16.65	16.84	17.03	17.24	17.44	17.58	17.76	17.97	18.14	18.32	18.52	18.66	18.83	4.4%
EPACT Legislative Alternative Sales	20.46	20.83	21.38	22.08	22.57	22.93	23.45	23.91	24.37	25.04	25.54	25.95	26.47	26.95	2.0%
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	0.00	N/A
Total Vehicles Sales	1199.1	1216.9	1250.1	1284.3	1309.5	1330.6	1352.9	1378.1	1403.2	1433.7	1460.0	1482.5	1507.6	1534.6	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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1236.8	1271.1	1391.5	1405.5	1362.8	1318.4	1289.8	1288.4	1272.9	1260.4	1235.0	1222.2	1211.6
TDI Diesel ICE	4.5	4.2	5.4	6.3	5.4	5.1	5.0	4.9	5.3	5.3	5.7	6.0	6.1
Total Conventional	1241.3	1275.3	1397.0	1411.8	1368.3	1323.5	1294.8	1293.3	1278.2	1265.6	1240.7	1228.2	1217.7
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	13.2	31.0	35.1	56.9	63.8	69.1	76.2	75.9	74.3	73.4	72.1	70.3	69.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Electric Vehicle	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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	0.2	0.2	0.8	0.9	1.1	1.1	1.0
Electric-Gasoline Hybrid	14.0	26.0	28.5	32.9	43.8	44.6	53.3	55.7	57.3	58.9	59.6	62.0	64.9
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	1.9	2.0	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0
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
Liquefied Petroleum Gases Bi-fuel	7.2	7.6	8.3	8.5	8.4	8.2	8.1	8.1	8.0	7.9	7.8	7.7	7.7
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	0.5	0.4	1.1	1.2
Total Alternatives	36.8	67.1	74.8	101.3	118.9	124.7	140.6	142.6	143.2	144.4	143.8	144.9	146.9
Percent Alternative Car Sales	2.88	5.00	5.08	6.69	7.99	8.61	9.79	9.93	10.07	10.24	10.38	10.56	10.77
Total New Car Sales	1278.0	1342.4	1471.8	1513.1	1487.1	1448.1	1435.4	1435.9	1421.4	1410.1	1384.5	1373.1	1364.6
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1206.8	1191.2	1017.6	909.6	937.3	965.8	997.1	1051.2	1072.9	1099.7	1122.3	1124.4	1129.4
TDI Diesel ICE	67.6	48.7	55.7	52.1	46.2	48.6	51.9	58.5	65.4	64.9	75.4	78.9	79.8
Total Conventional	1274.4	1239.8	1073.3	961.8	983.5	1014.4	1049.0	1109.6	1138.3	1164.6	1197.6	1203.3	1209.2
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	87.5	70.4	64.6	116.4	138.8	166.8	203.4	217.1	221.9	228.2	233.3	233.8	235.0
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	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	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	0.0	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	0.1	0.1
Electric-Gasoline Hybrid	0.0	11.6	14.3	13.4	30.7	32.2	33.9	37.3	42.5	46.9	49.9	60.4	66.0
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	5.4	5.2	4.6	4.3	4.6	4.8	5.1	5.4	5.5	5.7	5.9	5.9	6.0
Liquefied Petroleum Gases ICE	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3
Liquefied Petroleum Gases Bi-fuel	17.9	17.4	15.1	14.3	15.1	15.9	16.9	17.9	18.4	18.9	19.4	19.7	19.8
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	0.3	0.3	0.3	0.7	0.2	0.2	0.6	0.5
Total Alternatives	111.5	105.2	99.1	149.0	189.7	220.7	260.2	278.7	289.9	300.7	309.5	321.2	328.4

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Percent Alternative L.T. Sales	8.04	7.82	8.46	13.42	16.17	17.87	19.87	20.07	20.30	20.52	20.53	21.07	21.36
Total New Truck Sales	1385.9	1345.1	1172.5	1110.8	1173.2	1235.1	1309.2	1388.3	1428.2	1465.3	1507.1	1524.5	1537.6
Percent Total Alternative Sales	5.56	6.41	6.58	9.54	11.60	12.87	14.60	14.92	15.20	15.48	15.67	16.09	16.38
EPACT Legislative Alternative Sales	44.95	44.53	41.49	40.36	41.64	42.80	44.48	46.40	47.24	48.04	48.83	49.15	49.39
Z EVP Legislative Alternative Sales	0.00	38.16	38.75	37.85	38.23	47.35	49.61	52.68	75.51	78.20	78.02	147.36	145.20
Total Vehicles Sales	2663.9	2687.5	2644.2	2623.8	2660.4	2683.3	2744.6	2824.2	2849.5	2875.4	2891.6	2897.6	2902.2

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	1211.6	1207.2	1228.8	1235.9	1240.2	1247.6	1241.5	1250.7	1258.7	1258.0	1266.1	1272.6	1275.2	1286.1	0.0%
TDI Diesel ICE	6.5	7.0	7.7	8.3	9.0	9.8	10.0	10.8	12.0	12.1	12.9	13.8	14.4	15.6	5.4%
Total Conventional	1218.1	1214.2	1236.5	1244.2	1249.2	1257.3	1251.5	1261.4	1270.7	1270.1	1279.0	1286.4	1289.6	1301.7	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	0.0	0.5%
Ethanol-Flex Fuel ICE	69.3	69.2	70.1	71.5	71.4	71.6	72.2	72.0	72.5	73.3	73.0	73.3	73.9	74.1	3.5%
Ethanol ICE	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	6.4%
Electric Vehicle	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	0.5	0.5%
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	0.0	N/A
Electric-Diesel Hybrid	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	N/A
Electric-Gasoline Hybrid	68.6	72.3	78.7	81.6	86.5	92.6	94.2	98.8	104.4	106.4	111.4	117.3	119.8	126.6	6.5%
Compressed Natural Gas 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	0.7%
Compressed Natural Gas Bi-fuel	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	7.7	7.7	7.9	7.9	8.0	8.1	8.1	8.1	8.2	8.2	8.3	8.4	8.4	8.5	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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	1.1	2.4	2.3	2.3	2.4	2.3	2.2	2.5	2.4	2.3	2.4	2.4	2.3	2.3	75.6%
Total Alternatives	150.4	155.3	162.8	167.0	172.0	178.3	180.3	185.2	191.3	194.1	198.9	205.1	208.2	215.3	4.8%
Percent Alternative Car Sales	10.99	11.34	11.63	11.84	12.10	12.42	12.59	12.80	13.08	13.25	13.46	13.75	13.90	14.19	4.3%
Total New Car Sales	1368.5	1369.5	1399.3	1411.2	1421.2	1435.7	1431.8	1446.6	1462.0	1464.2	1477.9	1491.6	1497.8	1517.0	0.5%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	1139.4	1148.5	1163.1	1191.9	1206.0	1208.0	1232.6	1243.2	1246.3	1281.3	1293.3	1297.6	1317.1	1321.5	0.4%
TDI Diesel ICE	84.8	90.8	98.1	107.8	116.3	125.0	129.4	138.8	153.4	157.2	166.6	175.4	183.2	194.8	5.7%
Total Conventional	1224.1	1239.3	1261.2	1299.7	1322.4	1333.1	1362.0	1381.9	1399.7	1438.4	1460.0	1473.0	1500.3	1516.3	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	0.0	1.5%
Ethanol-Flex Fuel ICE	237.1	239.1	242.2	248.4	251.5	251.9	257.2	259.4	260.2	267.5	270.0	270.8	274.9	275.8	5.6%
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	0.0	N/A
Electric Vehicle	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	1.5%
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	0.0	N/A
Electric-Diesel Hybrid	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	N/A
Electric-Gasoline Hybrid	69.6	73.8	79.1	83.9	89.0	93.9	97.7	103.2	109.3	114.4	120.9	127.6	132.2	140.0	10.5%
Compressed Natural Gas 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	-11.2%
Compressed Natural Gas Bi-fuel	6.1	6.1	6.3	6.5	6.6	6.6	6.8	6.9	7.0	7.2	7.3	7.4	7.5	7.6	1.5%
Liquefied Petroleum Gases ICE	0.4	0.5	0.6	0.7	0.8	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.3	1.4	11.5%
Liquefied Petroleum Gases Bi-fuel	20.1	20.4	20.8	21.5	21.9	22.1	22.6	22.9	23.3	23.9	24.3	24.6	25.1	25.4	1.5%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	0.6	1.2	1.3	1.3	1.4	1.4	1.5	1.8	1.8	1.9	2.1	2.1	2.2	2.3	25.6%
Total Alternatives	334.7	342.1	351.2	363.4	372.3	378.0	387.9	396.4	403.9	417.3	427.0	435.0	444.4	453.6	6.0%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Percent Alternative L.T. Sales	21.47	21.63	21.78	21.85	21.97	22.09	22.17	22.29	22.39	22.49	22.63	22.80	22.85	23.03	4.4%
Total New Truck Sales	1558.8	1581.4	1612.4	1663.1	1694.7	1711.1	1749.9	1778.3	1803.7	1855.8	1887.0	1908.0	1944.7	1970.0	1.5%
Percent Total Alternative Sales	16.57	16.86	17.07	17.25	17.47	17.68	17.86	18.04	18.23	18.42	18.60	18.83	18.96	19.18	4.5%
EPACT Legislative Alternative Sales	49.94	50.50	51.52	52.85	53.71	54.23	55.14	55.96	56.71	57.99	58.87	59.50	60.45	61.23	1.3%
ZEVP Legislative Alternative Sales	143.85	220.06	222.92	224.81	237.45	235.90	234.07	261.37	260.30	263.80	277.53	279.75	282.33	286.67	8.4%
Total Vehicles Sales	2927.4	2951.0	3011.7	3074.3	3115.8	3146.8	3181.7	3225.0	3265.7	3319.9	3364.8	3399.6	3442.5	3486.9	1.0%

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	7500.1	7679.7	8380.3	8443.9	8161.7	7888.0	7715.0	7703.4	7608.2	7527.2	7375.9	7297.4	7232.9
TDI Diesel ICE	25.1	26.1	32.4	36.2	35.3	32.7	31.4	30.3	31.9	32.3	32.2	33.7	35.0
Total Conventional	7525.2	7705.8	8412.7	8480.1	8196.9	7920.7	7746.4	7733.7	7640.1	7559.6	7408.1	7331.1	7267.9
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	80.0	187.4	211.5	341.9	382.1	413.2	455.9	451.6	442.5	436.7	429.0	417.8	412.7
Ethanol ICE	0.7	0.7	0.8	0.8	0.8	0.9	1.1	1.2	1.3	1.4	1.4	1.5	1.6
Electric Vehicle	2.3	2.4	2.6	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.4	2.4
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	1.1	1.2	4.6	5.8	6.5	6.3	5.8
Electric-Gasoline Hybrid	81.6	154.9	170.3	195.3	260.2	263.0	312.8	326.0	334.8	345.2	348.6	363.4	377.4
Compressed Natural Gas ICE	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	11.3	12.1	13.3	13.6	13.3	12.9	12.8	12.8	12.6	12.5	12.3	12.2	12.1
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	43.5	45.6	49.9	51.1	50.1	48.8	48.3	48.3	47.8	47.3	46.5	46.0	45.7
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	0.8	0.7	1.9	2.1
Total Alternatives	219.6	403.3	448.8	605.7	709.4	741.6	834.9	843.8	846.3	852.4	847.8	851.8	860.1
Percent Alternative Car Sales	2.84	4.97	5.06	6.67	7.97	8.56	9.73	9.84	9.97	10.13	10.27	10.41	10.58
Total New Car Sales	7744.7	8109.1	8861.4	9085.8	8906.4	8662.3	8581.2	8577.6	8486.4	8412.0	8255.8	8182.9	8127.9
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	7354.7	7188.1	6133.5	5480.6	5591.7	5758.4	5950.0	6272.5	6412.2	6552.3	6724.3	6734.7	6754.6
TDI Diesel ICE	363.5	303.2	329.1	292.8	303.6	316.8	328.8	363.6	392.1	404.7	417.4	438.4	454.9
Total Conventional	7718.2	7491.3	6462.6	5773.4	5895.3	6075.2	6278.8	6636.1	6804.3	6957.0	7141.8	7173.1	7209.5
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	535.2	425.0	389.6	702.1	828.2	995.5	1214.1	1295.2	1325.8	1359.0	1397.9	1399.9	1405.0
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	3.5	3.4	3.0	2.8	2.9	3.1	3.3	3.5	3.6	3.7	3.8	3.8	3.8
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	0.4	0.4
Electric-Gasoline Hybrid	0.0	68.9	85.2	79.5	181.6	189.2	198.1	218.4	248.4	274.2	291.9	353.7	383.7
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	32.6	31.6	27.5	25.9	27.3	28.7	30.4	32.2	33.1	33.9	34.9	35.3	35.5
Liquefied Petroleum Gases ICE	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.7
Liquefied Petroleum Gases Bi-fuel	108.3	104.8	91.1	86.1	90.6	95.3	101.0	107.0	110.0	112.8	115.9	117.2	118.1
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	0.4	0.5	0.5	1.2	0.3	0.3	1.0	1.0
Total Alternatives	680.1	634.2	596.7	896.8	1131.2	1312.8	1547.7	1657.3	1722.8	1784.6	1845.4	1912.0	1948.4

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Percent Alternative L.T. Sales	8.10	7.80	8.45	13.45	16.10	17.77	19.78	19.98	20.20	20.42	20.53	21.05	21.28
Total New Truck Sales	8398.3	8125.4	7059.2	6670.2	7026.5	7388.0	7826.5	8293.4	8527.0	8741.6	8987.2	9085.1	9157.9
Percent Total Alternative Sales	5.57	6.39	6.57	9.54	11.55	12.80	14.52	14.82	15.10	15.37	15.62	16.01	16.25
EPACT Legislative Alternative Sales	272.37	268.98	249.79	242.34	249.39	256.00	265.91	277.21	282.07	286.61	291.18	292.91	294.19
ZEVP Legislative Alternative Sales	0.00	60.51	61.92	60.64	62.09	78.88	84.59	91.73	134.12	139.78	139.22	262.77	258.78
Total Vehicles Sales	16143.0	16234.6	15920.7	15756.1	15932.9	16050.4	16407.7	16870.9	17013.4	17153.6	17243.0	17268.0	17285.8

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005- 2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	7224.0	7194.4	7313.3	7343.9	7355.9	7387.3	7334.2	7369.4	7406.5	7384.4	7412.4	7436.6	7419.3	7467.6	-0.1%
TDI Diesel ICE	37.4	40.2	44.6	47.5	51.3	55.8	58.2	63.1	67.9	68.6	73.3	78.4	81.7	88.7	5.0%
Total Conventional	7261.4	7234.5	7357.9	7391.4	7407.2	7443.1	7392.4	7432.4	7474.4	7453.0	7485.7	7515.0	7501.0	7556.3	-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	0.0	0.3%
Ethanol-Flex Fuel ICE	411.4	410.4	415.3	422.7	421.5	421.7	424.1	422.1	424.0	427.8	425.1	425.6	427.4	427.5	3.4%
Ethanol ICE	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.0	6.0%
Electric Vehicle	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	0.3%
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	0.0	N/A
Electric-Diesel Hybrid	5.5	5.2	5.0	5.0	4.7	4.4	4.3	4.1	3.9	3.7	3.4	3.3	3.2	3.1	N/A
Electric-Gasoline Hybrid	398.9	420.1	456.4	472.3	500.0	533.8	541.8	568.0	596.7	607.3	634.7	665.1	688.0	722.7	6.4%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9%
Compressed Natural Gas Bi-fuel	12.1	12.1	12.4	12.5	12.5	12.6	12.6	12.7	12.8	12.8	12.8	12.9	13.0	13.1	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	0.0	N/A
Liquefied Petroleum Gases Bi-fuel	45.8	45.8	46.7	47.0	47.3	47.7	47.4	47.8	48.2	48.2	48.5	48.8	48.9	49.4	0.3%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	2.0	4.3	4.2	4.1	4.2	4.1	3.9	4.4	4.2	4.1	4.2	4.2	4.1	4.1	76.5%
Total Alternatives	880.2	902.4	944.6	968.4	995.3	1029.3	1039.3	1064.5	1095.2	1109.4	1134.4	1165.7	1190.4	1225.8	4.5%
Percent Alternative Car Sales	10.81	11.09	11.38	11.58	11.84	12.15	12.33	12.53	12.78	12.96	13.16	13.43	13.70	13.96	4.2%
Total New Car Sales	8141.6	8137.0	8302.5	8359.8	8402.5	8472.4	8431.7	8496.9	8569.6	8562.4	8620.1	8680.7	8691.4	8782.1	0.3%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	6802.2	6849.2	6922.8	7093.4	7163.7	7165.1	7276.5	7318.2	7351.8	7533.8	7584.7	7595.9	7672.9	7679.6	0.3%
TDI Diesel ICE	489.0	527.0	576.1	619.9	670.1	718.8	766.8	822.8	873.7	901.0	954.8	1003.6	1052.3	1122.7	5.4%
Total Conventional	7291.2	7376.2	7498.9	7713.3	7833.8	7883.9	8043.3	8141.0	8225.6	8434.8	8539.5	8599.5	8725.1	8802.3	0.6%
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	0.0	1.4%
Ethanol-Flex Fuel ICE	1414.7	1424.5	1440.1	1477.1	1492.2	1492.2	1515.9	1524.5	1532.8	1570.8	1581.0	1582.5	1598.6	1599.3	5.4%
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	0.0	N/A
Electric Vehicle	3.9	3.9	4.0	4.1	4.2	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.8	1.4%
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	0.0	N/A
Electric-Diesel Hybrid	1.5	1.4	1.4	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.1	2.0	2.0	1.9	N/A
Electric-Gasoline Hybrid	405.2	428.9	458.8	486.0	514.9	541.6	561.9	593.1	625.1	653.0	689.2	723.8	759.4	799.0	10.3%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.1%
Compressed Natural Gas Bi-fuel	36.0	36.5	37.1	38.2	38.9	39.2	40.0	40.5	41.0	42.1	42.7	43.1	43.8	44.3	1.4%
Liquefied Petroleum Gases ICE	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.4	1.5	1.5	1.6	6.2%
Liquefied Petroleum Gases Bi-fuel	119.6	121.2	123.4	127.1	129.3	130.3	132.9	134.8	136.4	140.0	142.0	143.3	145.6	147.1	1.4%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	1.0	2.2	2.3	2.3	2.5	2.6	2.6	3.1	3.2	3.4	3.6	3.8	3.9	4.0	26.2%
Total Alternatives	1982.7	2019.6	2068.1	2138.5	2185.7	2213.8	2261.5	2304.2	2346.8	2417.7	2466.9	2504.9	2559.8	2602.2	5.8%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Percent Alternative L.T. Sales	21.38	21.49	21.62	21.71	21.81	21.92	21.95	22.06	22.20	22.28	22.41	22.56	22.68	22.82	4.4%
Total New Truck Sales	9273.9	9395.9	9567.1	9851.8	10019.5	10097.7	10304.9	10445.2	10572.4	10852.5	11006.4	11104.3	11284.9	11404.5	1.4%
Percent Total Alternative Sales	16.44	16.67	16.86	17.06	17.27	17.46	17.62	17.78	17.98	18.17	18.35	18.55	18.77	18.96	4.4%
EPACT Legislative Alternative Sales	297.13	300.04	305.66	313.08	317.52	320.04	324.70	328.69	332.42	339.15	343.39	346.30	350.78	354.48	1.1%
ZEVP Legislative Alternative Sales	256.26	391.83	396.94	399.99	422.28	419.53	415.88	464.28	462.33	468.07	492.28	496.19	500.49	508.18	8.9%
Total Vehicles Sales	17415.5	17532.8	17869.6	18211.5	18422.0	18570.1	18736.5	18942.1	19142.0	19414.9	19626.5	19785.0	19976.3	20186.6	0.9%

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.

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

N/A = Not applicable.

Sources: 2004 and 2005 values derived using Energy Information Administration (EIA), Estimated Number of Alternative-Fueled Vehicles, http://www.eia.doe.gov/cneaf/alternate/page/datatables/aft1-13_03.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Light-Duty Car Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	133.75	134.08	135.00	135.92	136.47	136.67	136.65	136.59	136.40	136.11	135.64	135.08	134.46
TDI Diesel ICE	0.51	0.50	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.52	0.52	0.53	0.54
Total Conventional	134.26	134.58	135.49	136.41	136.97	137.17	137.16	137.10	136.91	136.62	136.16	135.61	135.00
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	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
Ethanol-Flex Fuel ICE	0.45	0.62	0.82	1.14	1.50	1.89	2.32	2.73	3.13	3.51	3.87	4.19	4.50
Ethanol ICE	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Natural Gas Technology													
Compressed Natural Gas 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
Compressed Natural Gas Bi-fuel	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.15	0.16	0.16
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	0.19	0.23	0.28	0.32	0.37	0.40	0.44	0.48	0.51	0.54	0.56	0.59	0.61
Electric Technology													
Electric Vehicle	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
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	0.01	0.01	0.02	0.03	0.03
Electric-Gasoline Hybrid	0.19	0.34	0.51	0.71	0.97	1.23	1.53	1.84	2.16	2.47	2.78	3.10	3.41
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	0.92	1.30	1.72	2.30	2.98	3.68	4.46	5.23	5.99	6.73	7.44	8.12	8.77
Total Car Stock	135.17	135.88	137.22	138.72	139.94	140.85	141.61	142.33	142.90	143.35	143.60	143.73	143.77
Light-Duty Truck Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	73.19	76.93	79.54	81.38	83.20	85.03	86.91	88.98	91.07	93.16	95.30	97.32	99.23
TDI Diesel ICE	3.15	3.34	3.54	3.71	3.87	4.04	4.21	4.40	4.61	4.82	5.03	5.25	5.48
Total Conventional	76.34	80.26	83.09	85.09	87.07	89.07	91.12	93.38	95.68	97.98	100.33	102.57	104.71
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	3.00	3.40	3.75	4.39	5.14	6.03	7.11	8.26	9.41	10.55	11.69	12.79	13.84
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	0.00	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 Bi-fuel	0.17	0.20	0.22	0.25	0.27	0.29	0.31	0.34	0.36	0.38	0.40	0.42	0.44
Liquefied Petroleum Gases ICE	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gases Bi-fuel	0.48	0.58	0.67	0.74	0.82	0.90	0.98	1.06	1.14	1.21	1.29	1.36	1.43
Electric Technology													
Electric Vehicle	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05
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	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.07	0.15	0.23	0.42	0.60	0.80	1.01	1.26	1.52	1.79	2.12	2.47
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	3.68	4.27	4.82	5.64	6.67	7.85	9.24	10.71	12.20	13.71	15.23	16.75	18.24

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total Truck Stock	80.02	84.54	87.91	90.73	93.74	96.92	100.36	104.09	107.88	111.69	115.56	119.32	122.95
Total Vehicle Stock	215.19	220.42	225.12	229.45	233.69	237.77	241.97	246.42	250.78	255.05	259.16	263.05	266.72

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Light-Duty Car Stock 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	133.84	133.20	132.69	132.23	131.80	131.43	131.02	130.67	130.38	130.10	129.87	129.69	129.52	129.42	-0.1%
TDI Diesel ICE	0.55	0.56	0.58	0.60	0.62	0.64	0.67	0.70	0.74	0.78	0.82	0.86	0.91	0.96	2.6%
Total Conventional	134.39	133.76	133.27	132.82	132.42	132.07	131.69	131.37	131.12	130.87	130.68	130.55	130.42	130.38	-0.1%
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	0.00	-9.9%
Ethanol-Flex Fuel ICE	4.78	5.04	5.28	5.51	5.72	5.91	6.09	6.24	6.38	6.51	6.62	6.72	6.80	6.88	10.1%
Ethanol ICE	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	7.9%
Natural Gas Technology															
Compressed Natural Gas 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	0.00	2.7%
Compressed Natural Gas Bi-fuel	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	4.4%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	0.62	0.64	0.66	0.67	0.68	0.70	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.76	4.8%
Electric Technology															
Electric Vehicle	0.03	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	3.9%
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	0.00	N/A
Electric-Diesel Hybrid	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	N/A
Electric-Gasoline Hybrid	3.73	4.05	4.40	4.74	5.09	5.46	5.82	6.19	6.57	6.93	7.31	7.69	8.08	8.48	13.7%
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	0.00	N/A
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	0.00	N/A
Fuel Cell Hydrogen	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	95.5%
Total Alternatives	9.40	10.02	10.64	11.24	11.83	12.41	12.97	13.51	14.04	14.55	15.05	15.54	16.03	16.52	10.7%
Total Car Stock	143.79	143.78	143.90	144.06	144.25	144.48	144.65	144.88	145.16	145.42	145.73	146.09	146.46	146.90	0.3%
Light-Duty Truck Stock 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	101.06	102.81	104.50	106.25	107.93	109.49	111.05	112.55	113.98	115.50	116.98	118.38	119.77	121.07	1.8%
TDI Diesel ICE	5.73	6.01	6.33	6.67	7.06	7.48	7.93	8.43	8.96	9.50	10.08	10.68	11.31	11.98	5.2%
Total Conventional	106.79	108.82	110.83	112.92	114.99	116.97	118.98	120.98	122.94	125.00	127.06	129.06	131.08	133.06	2.0%
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	0.00	-7.5%
Ethanol-Flex Fuel ICE	14.85	15.81	16.73	17.62	18.47	19.26	20.02	20.72	21.38	22.02	22.61	23.16	23.67	24.13	8.2%
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	0.00	N/A
Natural Gas Technology															
Compressed Natural Gas 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	0.00	7.4%
Compressed Natural Gas Bi-fuel	0.46	0.48	0.49	0.51	0.53	0.54	0.56	0.57	0.58	0.60	0.61	0.62	0.64	0.65	4.8%
Liquefied Petroleum Gases ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	5.9%
Liquefied Petroleum Gases Bi-fuel	1.49	1.55	1.61	1.67	1.73	1.78	1.83	1.88	1.92	1.97	2.02	2.06	2.10	2.15	5.3%
Electric Technology															
Electric Vehicle	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	5.4%
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	0.00	N/A
Electric-Diesel Hybrid	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	N/A
Electric-Gasoline Hybrid	2.83	3.20	3.59	3.99	4.41	4.83	5.26	5.70	6.15	6.60	7.07	7.55	8.04	8.54	21.3%
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	0.00	N/A
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	0.00	N/A
Fuel Cell Hydrogen	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	38.2%
Total Alternatives	19.70	21.12	22.51	23.88	25.23	26.52	27.77	28.98	30.15	31.31	32.44	33.53	34.59	35.63	8.9%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Total Truck Stock	126.49	129.94	133.34	136.80	140.21	143.48	146.75	149.96	153.09	156.32	159.50	162.59	165.67	168.68	2.8%
Total Vehicle Stock	270.28	273.71	277.24	280.86	284.46	287.96	291.41	294.84	298.26	301.74	305.23	308.68	312.13	315.58	1.4%

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

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 25 and Annual (Oak Ridge, TN, 2006); and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	28.95	29.09	29.37	29.64	29.72	30.78	31.54	31.77	31.90	31.93	31.99	32.07	32.12
TDI Diesel ICE	40.23	40.28	40.26	39.13	38.76	39.57	40.38	42.39	42.33	42.22	42.07	42.07	42.01
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	28.27	28.33	28.61	28.95	29.05	30.00	30.70	32.11	32.09	32.08	32.10	32.12	32.17
Ethanol-Flex Fuel ICE	27.58	27.73	27.91	28.11	28.16	28.99	29.64	31.04	31.02	31.02	31.05	31.10	31.15
Ethanol ICE	28.81	28.86	29.12	29.45	29.55	30.53	31.26	32.72	32.69	32.69	32.71	32.74	32.79
Natural Gas Technology													
Compressed Natural Gas ICE	29.21	29.25	29.25	29.17	29.20	29.96	30.58	32.22	32.19	32.18	32.18	32.23	32.26
Compressed Natural Gas Bi-fuel	31.72	28.98	29.01	29.12	29.20	30.06	30.70	32.09	32.04	32.01	32.02	32.05	32.08
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	0.00	28.13	28.05	28.05	28.16	29.01	29.74	31.12	31.08	31.06	31.08	31.14	31.19
Electric Technology													
Electric Vehicle	30.49	31.11	31.74	32.47	32.16	32.40	33.05	33.49	33.93	34.37	34.84	34.81	34.79
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	66.85	66.59
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	54.38	55.16	49.85	49.28	48.43	48.28	48.16
Electric-Gasoline Hybrid	45.50	42.52	42.24	41.74	41.33	41.17	41.54	43.41	43.38	43.32	43.22	43.26	43.25
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	39.39	39.94	40.42	40.53	40.49	40.44	40.40	40.36	40.32
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	58.34	57.60	56.96	56.37	57.07	57.48	57.44	57.38	51.32	51.26	51.21	50.48
Average New Car MPG	29.10	30.00	29.52	29.79	29.91	30.94	31.73	32.08	32.22	32.26	32.33	32.43	32.50
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	21.38	21.63	21.84	22.04	22.96	23.09	23.43	24.09	24.12	24.16	24.24	24.31	24.38
TDI Diesel ICE	26.25	27.59	27.51	27.54	28.62	28.62	28.95	29.65	29.59	29.57	29.57	29.57	29.59
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	20.28	20.54	20.63	21.57	22.34	22.52	22.98	23.72	23.77	23.82	23.92	24.00	24.09
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	26.87	26.89	26.89	27.19	28.39	28.38	28.53	29.48	29.43	29.39	29.39	29.37	29.39
Compressed Natural Gas Bi-fuel	20.58	20.76	20.82	20.90	21.68	21.83	22.16	22.80	22.81	22.82	22.87	22.94	22.99
Liquefied Petroleum Gases ICE	26.16	26.57	26.72	26.70	27.95	27.93	28.28	29.18	29.11	29.05	29.05	29.00	28.96
Liquefied Petroleum Gases Bi-fuel	21.03	21.33	21.47	21.61	22.40	22.49	22.82	23.51	23.51	23.52	23.58	23.65	23.71
Electric Technology													
Electric Vehicle	23.64	24.38	24.68	25.46	26.22	26.19	26.60	27.11	27.44	27.78	28.14	28.09	28.04
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	0.00	0.00	43.78	43.60
Electric-Gasoline Hybrid	0.00	27.81	27.42	27.22	31.49	31.55	31.79	32.46	32.25	32.09	32.01	32.88	33.08
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.50	36.51	36.96	36.89	36.83
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	42.96	42.09	41.96	43.21	43.17	43.25	43.47	43.39	43.32	43.22	43.14	43.06

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Average New Truck MPG	21.50	21.80	22.03	22.22	23.24	23.35	23.69	24.39	24.44	24.49	24.57	24.71	24.81
Fleet Average Stock Car MPG 2/	22.37	22.50	22.62	22.52	22.58	22.64	22.81	23.05	23.27	23.49	23.69	23.90	24.09
Fleet Average Stock Truck MPG 2/	16.20	16.31	16.39	16.31	16.40	16.46	16.61	16.82	17.03	17.23	17.42	17.60	17.78
Fleet Average Stock Vehicle MPG 2/	19.59	19.64	19.70	19.57	19.62	19.63	19.75	19.93	20.10	20.27	20.42	20.56	20.70

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Automobiles 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	32.17	32.21	32.27	32.28	32.38	32.54	32.62	32.73	32.84	32.84	32.89	32.97	32.97	32.99	0.5%
TDI Diesel ICE	41.99	41.94	41.97	41.86	41.89	41.97	41.93	42.01	42.06	41.98	42.02	42.06	42.01	42.03	0.2%
Alternative-Fuel Vehicles															
Alcohol Fuel Technology															
Methanol-Flex Fuel ICE	32.22	32.26	32.32	32.36	32.45	32.59	32.69	32.77	32.87	32.93	32.94	33.02	33.02	33.04	0.6%
Ethanol-Flex Fuel ICE	31.20	31.25	31.30	31.34	31.44	31.58	31.68	31.77	31.89	31.92	31.95	32.04	32.06	32.08	0.6%
Ethanol ICE	32.83	32.88	32.94	32.98	33.07	33.21	33.31	33.42	33.51	33.56	33.58	33.65	33.66	33.68	0.6%
Natural Gas Technology															
Compressed Natural Gas ICE	32.30	32.32	32.38	32.37	32.44	32.57	32.61	32.70	32.81	32.83	32.85	32.93	32.92	32.94	0.5%
Compressed Natural Gas Bi-fuel	32.11	32.12	32.15	32.16	32.22	32.34	32.41	32.49	32.58	32.57	32.58	32.65	32.64	32.63	0.5%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	31.25	31.30	31.35	31.39	31.47	31.62	31.72	31.81	31.91	31.93	31.95	32.03	32.03	32.03	0.5%
Electric Technology															
Electric Vehicle	34.76	34.74	34.72	34.69	34.72	34.75	34.78	34.80	34.84	34.85	34.87	34.89	34.90	34.90	0.5%
Plug-in Gasoline Hybrid	66.38	66.17	66.03	61.32	61.11	60.95	60.76	60.70	59.50	59.36	59.34	59.32	59.24	59.24	N/A
Electric-Diesel Hybrid	48.04	47.94	47.86	47.76	47.74	47.75	47.74	47.80	47.85	47.83	47.86	47.89	47.86	47.87	N/A
Electric-Gasoline Hybrid	43.26	43.25	43.33	43.26	43.34	43.47	43.43	43.50	43.55	43.50	43.53	43.57	43.52	43.53	0.1%
Fuel Cell Technology															
Fuel Cell Gasoline	40.28	40.25	40.22	40.19	40.21	40.23	40.25	40.27	40.31	40.33	40.35	40.37	40.39	40.40	N/A
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	0.00	N/A
Fuel Cell Hydrogen	50.42	50.39	50.36	50.32	50.30	50.30	50.30	50.31	50.33	50.32	50.34	50.35	50.35	50.35	-0.6%
Average New Car MPG	32.57	32.63	32.73	32.75	32.88	33.07	33.15	33.29	33.42	33.44	33.51	33.62	33.64	33.69	0.5%
Light-Duty Trucks 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	24.48	24.55	24.63	24.73	24.84	25.02	25.15	25.26	25.40	25.49	25.56	25.66	25.69	25.72	0.7%
TDI Diesel ICE	29.61	29.61	29.64	29.67	29.73	29.88	29.98	30.08	30.17	30.25	30.30	30.39	30.40	30.41	0.4%
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	0.00	N/A
Ethanol-Flex Fuel ICE	24.19	24.28	24.36	24.47	24.60	24.78	24.92	25.03	25.18	25.27	25.34	25.44	25.48	25.51	0.9%
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	0.00	N/A
Natural Gas Technology															
Compressed Natural Gas ICE	29.44	29.46	29.50	29.55	29.64	29.77	29.88	29.98	30.13	30.17	30.22	30.32	30.35	30.37	0.5%
Compressed Natural Gas Bi-fuel	23.06	23.10	23.15	23.20	23.28	23.41	23.48	23.56	23.63	23.68	23.73	23.78	23.78	23.78	0.5%
Liquefied Petroleum Gases ICE	28.94	28.85	28.73	28.67	28.64	28.66	28.74	28.81	28.88	28.94	29.00	29.07	29.15	29.14	0.4%
Liquefied Petroleum Gases Bi-fuel	23.79	23.83	23.90	23.96	24.06	24.21	24.30	24.39	24.50	24.56	24.62	24.71	24.73	24.74	0.6%
Electric Technology															
Electric Vehicle	27.99	27.94	27.90	27.86	27.87	27.89	27.90	27.91	27.93	27.94	27.96	27.98	27.99	28.00	0.6%
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	0.00	N/A
Electric-Diesel Hybrid	36.42	36.23	36.07	38.73	38.67	38.66	38.66	38.67	38.71	38.76	38.80	38.87	38.90	38.91	N/A
Electric-Gasoline Hybrid	33.07	33.04	33.03	33.08	33.13	33.24	33.33	33.43	33.53	33.59	33.65	33.72	33.74	33.75	0.8%
Fuel Cell Technology															
Fuel Cell Gasoline	36.76	36.70	36.64	36.58	36.60	36.62	36.64	36.66	36.68	36.70	36.72	36.75	36.76	36.77	N/A
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	0.00	N/A
Fuel Cell Hydrogen	42.99	42.91	42.84	42.77	42.79	42.81	42.83	42.84	42.32	42.29	42.25	42.21	42.17	42.12	-0.1%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Average New Truck MPG	24.93	25.03	25.14	25.26	25.40	25.61	25.76	25.90	26.07	26.16	26.26	26.39	26.45	26.52	0.8%
Fleet Average Stock Car MPG 2/	24.28	24.45	24.63	24.79	24.94	25.10	25.24	25.38	25.52	25.63	25.75	25.86	25.97	26.07	0.6%
Fleet Average Stock Truck MPG 2/	17.94	18.10	18.26	18.40	18.54	18.69	18.83	18.96	19.08	19.21	19.33	19.45	19.57	19.69	0.8%
Fleet Average Stock Vehicle MPG 2/	20.83	20.96	21.09	21.20	21.32	21.44	21.55	21.65	21.75	21.85	21.94	22.04	22.13	22.22	0.5%

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.

Sources: 2004 and 2005 values derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model (Washington, DC, June 1998), prepared for Energy Information Administration (EIA); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Conventional Vehicles 1/													
Gasoline ICE Vehicles	2541.2	2530.1	2516.5	2513.7	2525.9	2549.1	2577.5	2610.3	2644.6	2679.7	2718.1	2756.4	2794.9
TDI Diesel ICE	43.3	44.4	45.7	46.9	48.4	50.3	52.4	54.7	57.4	60.2	63.1	66.3	69.7
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	46.6	53.4	58.9	69.1	81.0	95.2	112.3	130.2	148.2	166.2	184.5	202.3	219.8
Ethanol ICE	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
Natural Gas Technology													
Compressed Natural Gas ICE	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
Compressed Natural Gas Bi-fuel	4.3	5.0	5.4	5.8	6.1	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.1
Liquefied Petroleum Gases ICE	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases Bi-fuel	13.3	16.0	17.5	18.8	20.0	21.3	22.6	24.0	25.5	26.9	28.3	29.6	30.8
Electric Technology													
Electric Vehicle	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2
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	0.2	0.3	0.4
Electric-Gasoline Hybrid	2.2	4.8	7.6	10.5	15.3	20.3	25.9	31.9	38.3	45.0	52.0	59.8	68.0
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	0.0	0.1	0.1	0.1
VMT Equation Components													
Total VMT (billion miles)	2651.8	2654.5	2652.6	2665.7	2697.8	2743.6	2798.5	2859.5	2922.9	2987.6	3056.1	3125.1	3194.3
VMT/Driving Population (thousand miles)	13.3	13.2	13.0	13.0	13.0	13.1	13.2	13.4	13.6	13.7	13.9	14.1	14.3
Driving Population (million)	229.2	231.8	234.5	237.1	239.6	242.0	244.2	246.4	248.6	250.6	252.6	254.7	256.7
Price Effects													
Motor Gasoline Price (1987 \$/million Btu)	10.21	12.11	13.73	13.61	12.80	12.13	11.62	11.18	10.95	10.75	10.44	10.43	10.46
Fleet Miles per Gallon	19.39	19.39	19.44	19.52	19.64	19.77	19.92	20.09	20.27	20.44	20.60	20.76	20.91
Real Cost of Driving per Mile (1987 cents)	8.993	10.669	12.069	11.910	11.132	10.484	9.969	9.509	9.228	8.988	8.660	8.580	8.546
Point Price Elasticity	-0.031	-0.037	-0.042	-0.042	-0.039	-0.037	-0.035	-0.033	-0.031	-0.030	-0.029	-0.028	-0.027
Income Effects													
Disposable Income (billion 1987 dollars)	8010.8	8105.0	8279.1	8574.7	8919.9	9248.4	9568.0	9860.7	10145.6	10426.7	10740.4	11076.6	11422.5
Point Income Elasticity	292.549	295.446	302.014	311.262	319.939	326.181	330.835	333.680	335.871	337.713	340.069	342.979	346.025
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	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Conventional Vehicles 1/															
Gasoline ICE Vehicles	2833.8	2872.7	2909.5	2948.6	2988.2	3026.4	3067.3	3107.6	3147.3	3190.6	3233.5	3275.3	3318.2	3359.1	1.1%
TDI Diesel ICE	73.4	77.5	82.1	87.2	92.8	99.0	105.9	113.4	121.5	129.9	138.9	148.4	158.4	169.2	5.5%
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	0.0	-9.4%
Ethanol-Flex Fuel ICE	236.8	253.4	269.2	284.9	300.1	314.4	328.7	342.2	355.0	367.9	380.0	391.4	402.4	412.6	8.5%
Ethanol ICE	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	8.5%
Natural Gas Technology															
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	0.1	4.3%
Compressed Natural Gas Bi-fuel	9.4	9.7	10.1	10.4	10.7	11.0	11.2	11.5	11.8	12.1	12.4	12.6	12.9	13.2	3.9%
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	6.5%
Liquefied Petroleum Gases Bi-fuel	31.9	33.1	34.1	35.2	36.3	37.3	38.3	39.3	40.3	41.3	42.2	43.2	44.1	45.0	4.2%
Electric Technology															
Electric Vehicle	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	3.9%
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	0.0	N/A
Electric-Diesel Hybrid	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	N/A
Electric-Gasoline Hybrid	76.6	85.6	95.0	104.8	115.0	125.6	136.4	147.6	159.2	171.0	183.3	195.9	209.0	222.5	16.6%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.1	1.2	43.7%
VMT Equation Components															
Total VMT (billion miles)	3264.2	3334.4	3402.7	3473.9	3546.2	3617.1	3691.4	3765.4	3839.1	3916.9	3994.7	4071.4	4149.8	4226.5	1.9%
VMT/Driving Population (thousand miles)	14.5	14.7	14.9	15.1	15.3	15.5	15.6	15.8	16.0	16.2	16.4	16.5	16.7	16.9	1.0%
Driving Population (million)	258.9	261.1	263.2	265.4	267.6	269.8	272.1	274.3	276.7	279.0	281.4	283.8	286.2	288.6	0.9%
Price Effects															
Motor Gasoline Price (1987 \$/million Btu)	10.54	10.60	10.82	10.79	10.87	11.07	10.98	11.10	11.24	11.13	11.22	11.37	11.37	11.53	-0.2%
Fleet Miles per Gallon	21.05	21.19	21.33	21.45	21.58	21.71	21.82	21.93	22.04	22.15	22.25	22.36	22.46	22.56	0.6%
Real Cost of Driving per Mile (1987 cents)	8.552	8.544	8.669	8.597	8.609	8.713	8.598	8.646	8.715	8.584	8.616	8.691	8.651	8.728	-0.8%
Point Price Elasticity	-0.027	-0.027	-0.027	-0.026	-0.026	-0.026	-0.025	-0.025	-0.025	-0.024	-0.024	-0.024	-0.024	-0.024	-1.8%
Income Effects															
Disposable Income (billion 1987 dollars)	11785.5	12173.8	12569.6	13000.0	13431.5	13853.4	14284.8	14719.8	15172.2	15640.2	16109.0	16585.5	17067.1	17535.0	3.1%
Point Income Elasticity	349.378	353.288	357.453	362.107	366.509	370.609	374.454	378.275	382.418	386.379	390.217	394.186	397.966	401.461	1.2%
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	1.000	N/A
Point Demographic Elasticity	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	N/A

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using: Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 25 and Annual (Oak Ridge, TN, 2006); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (MPG)													
Minicompact	25.558	25.649	26.384	26.920	27.344	28.582	29.355	29.597	29.736	29.775	29.847	29.910	29.961
Subcompact	28.773	28.736	28.991	29.497	29.768	30.957	31.782	32.068	32.213	32.274	32.396	32.485	32.566
Compact	31.752	31.896	32.357	32.903	33.018	34.231	35.024	35.224	35.296	35.334	35.355	35.368	
Midsize	27.729	27.805	28.117	28.459	28.576	29.498	30.168	30.365	30.481	30.511	30.589	30.642	30.698
Large	26.451	26.422	26.485	26.550	26.595	27.389	28.022	28.273	28.393	28.442	28.566	28.626	28.679
Two Seater	25.061	25.053	25.203	25.382	25.582	26.340	26.966	27.264	27.443	27.551	27.658	27.739	27.782
Average New Car	29.021	29.179	29.457	29.708	29.773	30.845	31.609	31.839	31.968	32.000	32.061	32.144	32.192
Average New Car On-Road MPG	23.126	23.267	23.503	23.718	23.785	24.657	25.284	25.484	25.604	25.645	25.711	25.793	25.848
Conventional Light Trucks													
Small Pickup	24.645	25.010	25.363	25.781	27.109	27.105	27.352	28.180	28.215	28.284	28.385	28.533	28.626
Large Pickup	19.000	19.293	19.458	19.573	20.210	20.335	20.678	21.261	21.288	21.330	21.416	21.508	21.586
Small Van	24.736	24.960	25.121	25.407	26.466	26.464	26.739	27.505	27.473	27.466	27.502	27.567	27.632
Large Van	25.777	26.100	26.254	26.487	27.753	27.706	27.969	28.915	28.861	28.831	28.846	28.894	28.951
Small Utility	22.843	23.157	23.484	23.842	25.223	25.315	25.653	26.367	26.384	26.421	26.498	26.592	26.681
Large Utility	19.121	19.361	19.508	19.628	20.391	20.545	20.928	21.511	21.540	21.583	21.668	21.757	21.838
Average New Light Truck	21.358	21.600	21.821	22.014	22.945	23.075	23.415	24.074	24.107	24.146	24.225	24.292	24.366
Average New LT On-Road MPG	16.513	16.705	16.882	17.037	17.763	17.870	18.140	18.656	18.689	18.725	18.793	18.851	18.915
Degradation Factors 1/													
Cars	0.797	0.797	0.798	0.798	0.799	0.799	0.800	0.800	0.801	0.801	0.802	0.802	0.803
Light Trucks	0.773	0.773	0.774	0.774	0.774	0.774	0.775	0.775	0.775	0.776	0.776	0.776	0.776
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	0.00	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	0.000	58.338	57.603	56.958	56.367	57.067	57.477	46.006	45.860	45.752	45.659	45.600	45.565
Compact	45.648	45.691	45.710	45.531	45.075	45.735	46.497	49.251	49.081	48.928	48.769	48.650	48.556
Midsize	28.202	32.824	32.947	31.926	32.257	32.545	33.245	34.850	34.917	34.991	35.031	35.151	35.234
Large	27.224	26.707	26.764	26.813	26.851	30.165	31.142	32.502	32.559	32.640	32.767	32.916	33.063
Two Seater	35.991	35.828	35.648	35.494	35.344	36.075	36.691	38.058	37.992	37.936	37.887	37.854	37.834
Average New Alternative Cars	44.516	34.965	34.790	32.810	33.133	33.405	34.144	35.878	36.045	36.183	36.255	36.528	36.701
Alternative-Fuel Light Trucks													
Small Pickup	24.911	25.299	25.641	26.027	27.341	27.336	27.586	28.408	28.450	28.529	28.654	28.808	28.904
Large Pickup	19.018	19.260	19.441	19.573	20.183	20.385	20.846	21.434	21.815	22.062	22.174	22.318	22.436
Small Van	24.989	25.219	25.364	25.645	26.717	26.714	29.486	30.517	30.539	30.595	30.670	30.819	30.939
Large Van	25.829	25.985	26.021	26.091	27.202	27.205	27.590	28.692	28.655	28.640	28.670	31.034	31.715
Small Utility	23.641	42.958	42.091	23.447	26.647	26.604	26.753	27.671	27.750	27.818	27.954	28.129	28.279
Large Utility	19.063	21.285	21.741	21.430	21.887	21.823	22.065	22.735	22.795	22.874	22.980	23.111	23.227
Average New Alt. Light Trucks	20.076	21.256	21.559	22.045	23.642	23.651	23.949	24.723	24.849	24.948	25.063	25.456	25.658
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	28.611	28.626	28.900	29.260	29.399	30.405	31.128	31.464	31.567	31.598	31.680	31.736	31.789
Light Trucks	21.485	21.754	21.919	22.099	22.970	23.064	23.408	24.092	24.100	24.127	24.197	24.280	24.355
Average On-Road MPG													
Cars	22.563	22.718	22.848	23.024	23.196	23.539	23.974	24.424	24.871	25.136	25.277	25.364	25.430
Light Trucks	16.106	16.486	16.651	16.773	17.014	17.273	17.561	17.919	18.226	18.418	18.588	18.723	18.781
New Vehicle Sales Shares (%)													

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Conventional Cars													
Minicompact	1.305	1.366	1.313	1.162	1.103	1.111	1.120	1.123	1.140	1.144	1.131	1.160	1.164
Subcompact	8.570	8.876	8.478	7.479	7.107	7.182	7.280	7.335	7.456	7.486	7.400	7.593	7.629
Compact	41.113	41.796	41.003	38.308	37.291	37.484	37.699	37.789	38.123	38.176	37.953	38.517	38.616
Midsize	33.424	32.929	33.562	35.583	36.348	36.216	36.057	36.021	35.773	35.736	35.900	35.477	35.401
Large	14.020	13.466	14.064	15.862	16.541	16.400	16.240	16.132	15.911	15.863	16.017	15.659	15.595
Two Seater	1.567	1.568	1.581	1.606	1.610	1.607	1.603	1.599	1.596	1.595	1.599	1.595	1.595
Conventional Light Trucks													
Small Pickup	5.557	5.445	5.374	6.010	6.145	6.337	6.279	6.191	6.211	6.196	6.241	6.119	6.108
Large Pickup	24.749	25.026	24.629	24.501	24.309	24.474	24.488	24.539	24.674	24.691	24.655	24.686	24.697
Small Van	5.073	5.199	4.838	4.417	4.185	4.328	4.353	4.331	4.441	4.451	4.408	4.511	4.529
Large Van	10.403	10.553	10.095	10.151	9.942	10.318	10.315	10.227	10.388	10.392	10.372	10.380	10.382
Small Utility	29.562	29.282	29.972	30.119	30.450	30.022	30.017	30.073	29.841	29.826	29.868	29.813	29.797
Large Utility	24.655	24.495	25.091	24.803	24.969	24.523	24.547	24.640	24.446	24.444	24.456	24.490	24.487
New Vehicle Average Horsepower													
Conventional Cars													
Minicompact	247.664	248.357	250.105	255.265	261.709	262.629	265.597	267.905	269.491	270.693	272.069	273.192	274.191
Subcompact	176.782	177.752	180.503	185.134	188.793	188.809	189.201	190.356	191.262	192.031	192.859	193.529	194.094
Compact	139.257	137.660	139.195	146.662	152.631	154.746	156.861	159.602	161.843	163.827	166.073	167.860	169.426
Midsize	185.994	184.620	185.949	193.775	201.334	204.882	208.016	211.406	213.971	216.026	218.355	220.230	221.946
Large	205.932	204.596	205.639	211.654	219.154	221.689	223.917	226.438	228.949	231.139	233.615	235.515	237.291
Two Seater	254.591	253.108	255.334	264.040	273.902	280.228	286.013	290.553	293.705	296.325	299.320	301.569	303.326
Average New Car	170.665	169.017	171.025	179.760	187.062	189.544	191.839	194.611	196.694	198.606	200.972	202.336	203.839
Conventional Light Trucks													
Small Pickup	154.036	151.870	153.958	164.016	171.732	176.238	179.949	185.688	187.913	189.968	192.396	194.583	196.532
Large Pickup	217.806	213.813	215.224	226.481	241.397	249.060	255.910	262.854	266.086	268.905	272.286	275.076	277.385
Small Van	182.372	178.813	181.533	191.156	198.211	203.092	207.024	210.887	213.220	215.362	217.859	219.969	221.947
Large Van	197.880	193.961	194.918	205.814	219.077	225.269	229.921	234.522	237.254	239.738	242.669	245.146	247.488
Small Utility	189.480	186.502	188.349	195.901	202.336	206.135	208.942	212.753	214.008	215.200	216.608	217.875	218.844
Large Utility	232.727	227.260	229.024	239.425	253.121	259.613	264.379	267.527	270.609	273.311	276.509	279.124	281.308
Average New Light Truck	205.697	201.822	203.659	213.069	224.123	229.702	234.312	239.014	241.453	243.659	246.232	248.495	250.349
New Vehicle Average Weight													
Conventional Cars													
Minicompact	3498.364	3538.270	3556.547	3572.138	3591.471	3515.851	3483.694	3484.013	3487.436	3492.111	3495.873	3498.689	3501.802
Subcompact	2972.218	3007.254	3045.671	3080.133	3112.416	3074.252	3052.344	3054.385	3057.416	3061.044	3064.198	3067.048	3069.907
Compact	2863.295	2897.774	2932.478	2964.361	2993.586	2949.422	2922.990	2924.339	2927.126	2930.733	2933.792	2936.569	2939.349
Midsize	3332.869	3372.670	3410.917	3447.275	3482.153	3439.760	3408.073	3410.768	3414.557	3418.864	3422.669	3426.080	3429.454
Large	3621.483	3664.875	3713.555	3761.478	3805.699	3753.455	3708.956	3699.499	3703.083	3707.002	3710.943	3714.404	3718.193
Two Seater	3162.408	3199.740	3240.977	3278.390	3310.139	3285.431	3265.219	3266.540	3269.258	3273.218	3276.125	3278.566	3280.576
Average New Car	3148.856	3180.646	3225.566	3283.403	3325.637	3279.524	3246.724	3245.907	3246.525	3249.950	3255.258	3253.913	3256.260
Conventional Light Trucks													
Small Pickup	3735.969	3743.322	3839.246	3891.734	3843.108	3851.527	3850.937	3833.659	3840.621	3847.179	3853.334	3859.691	3865.886
Large Pickup	5077.582	5087.182	5214.593	5274.836	5264.270	5260.687	5241.961	5202.963	5212.697	5222.094	5231.433	5240.744	5249.994
Small Van	4260.571	4267.285	4371.777	4420.227	4355.014	4363.878	4357.430	4312.677	4320.565	4327.957	4335.059	4342.087	4349.260
Large Van	4663.645	4671.362	4785.773	4849.138	4832.856	4843.252	4833.793	4771.696	4780.503	4788.746	4796.430	4804.102	4811.909
Small Utility	4078.552	4083.914	4168.085	4181.144	4060.529	4063.900	4056.347	4035.633	4042.853	4049.669	4056.557	4063.486	4070.509
Large Utility	5264.087	5270.387	5389.176	5441.986	5415.958	5405.890	5365.638	5296.335	5305.961	5315.083	5323.852	5332.508	5341.193
Average New Light Truck	4669.166	4678.591	4786.753	4822.802	4767.332	4765.825	4748.480	4707.491	4716.669	4725.122	4732.486	4741.858	4750.053
Average Weight for the Stock													

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Conventional Cars	3152	3152	3155	3162	3171	3177	3182	3188	3194	3200	3205	3210	3215
Conventional Light Trucks	4235	4286	4336	4384	4425	4464	4498	4528	4554	4578	4600	4619	4636

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Personal Vehicles															
EPA Rated New Vehicle Fuel Efficiency															
Conventional Cars (MPG)															
Minicompact	30.009	30.053	30.109	30.158	30.249	30.395	30.467	30.563	30.667	30.723	30.732	30.772	30.772	30.774	0.7%
Subcompact	32.645	32.728	32.817	32.884	33.016	33.210	33.347	33.483	33.606	33.673	33.703	33.803	33.829	33.846	0.7%
Compact	35.387	35.404	35.438	35.455	35.539	35.676	35.760	35.857	35.935	35.960	35.980	36.056	36.046	36.040	0.5%
Midsize	30.751	30.792	30.844	30.881	30.969	31.107	31.208	31.285	31.394	31.419	31.441	31.511	31.516	31.523	0.5%
Large	28.730	28.772	28.822	28.872	28.968	29.113	29.225	29.339	29.452	29.467	29.513	29.616	29.651	29.667	0.5%
Two Seater	27.831	27.880	27.943	28.001	28.104	28.270	28.360	28.451	28.575	28.649	28.691	28.752	28.765	28.776	0.6%
Average New Car	32.240	32.273	32.340	32.345	32.448	32.605	32.671	32.792	32.896	32.895	32.946	33.033	33.024	33.046	0.5%
Average New Car On-Road MPG	25.903	25.946	26.016	26.036	26.135	26.278	26.348	26.462	26.563	26.578	26.636	26.724	26.733	26.767	0.6%
Conventional Light Trucks															
Small Pickup	28.715	28.784	28.868	28.953	29.031	29.179	29.296	29.410	29.547	29.579	29.619	29.712	29.737	29.750	0.7%
Large Pickup	21.677	21.743	21.818	21.900	22.014	22.171	22.263	22.360	22.465	22.543	22.603	22.694	22.717	22.736	0.7%
Small Van	27.702	27.753	27.828	27.887	27.983	28.159	28.306	28.439	28.570	28.659	28.746	28.861	28.887	28.905	0.6%
Large Van	29.023	29.066	29.134	29.211	29.295	29.472	29.616	29.759	29.949	30.023	30.115	30.257	30.308	30.338	0.6%
Small Utility	26.785	26.875	26.960	27.061	27.198	27.419	27.585	27.720	27.894	27.996	28.064	28.127	28.155	28.181	0.8%
Large Utility	21.931	22.008	22.100	22.206	22.330	22.502	22.625	22.712	22.842	22.925	23.001	23.117	23.165	23.195	0.7%
Average New Light Truck	24.462	24.537	24.621	24.716	24.834	25.013	25.145	25.255	25.396	25.482	25.550	25.647	25.685	25.711	0.7%
Average New LT On-Road MPG	18.996	19.061	19.133	19.213	19.312	19.457	19.567	19.659	19.775	19.849	19.908	19.991	20.028	20.055	0.7%
Degradation Factors 1/															
Cars	0.803	0.804	0.804	0.805	0.805	0.806	0.806	0.807	0.807	0.808	0.808	0.809	0.809	0.810	0.1%
Light Trucks	0.777	0.777	0.777	0.777	0.778	0.778	0.778	0.778	0.779	0.779	0.779	0.779	0.780	0.780	0.0%
New Fuel Efficiency by Size Class 2/															
Alternative-Fuel Cars															
Minicompact	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact	45.547	45.543	45.552	45.560	45.614	45.698	45.771	45.836	45.913	45.958	45.986	46.040	46.053	46.061	-0.9%
Compact	48.475	48.398	48.345	48.271	48.253	48.267	48.260	48.264	48.272	48.247	48.227	48.223	48.191	48.167	0.2%
Midsize	35.345	35.499	35.619	35.676	35.830	36.020	36.133	36.292	36.459	36.519	36.624	36.770	36.841	36.931	0.5%
Large	33.197	33.356	33.502	33.570	33.764	34.003	34.131	34.339	34.547	34.611	34.761	34.946	35.049	35.172	1.1%
Two Seater	37.820	37.815	37.820	37.820	37.865	37.949	38.000	38.058	38.131	38.165	38.191	38.253	38.248	38.242	0.3%
Average New Alternative Cars	36.907	37.118	37.395	37.419	37.690	38.016	38.071	38.314	38.521	38.525	38.712	38.901	38.961	39.115	0.4%
Alternative-Fuel Light Trucks															
Small Pickup	28.999	29.075	29.164	30.530	30.649	30.850	30.941	31.102	31.279	31.342	31.493	31.701	31.823	31.973	0.9%
Large Pickup	22.569	22.679	22.812	22.921	23.084	23.295	23.422	23.576	23.776	23.864	23.987	24.151	24.243	24.348	0.9%
Small Van	31.085	31.218	31.378	31.469	31.657	31.933	32.119	32.343	32.584	32.705	32.886	33.105	33.228	33.366	1.1%
Large Van	31.861	31.983	32.143	32.246	32.422	32.693	32.868	33.102	33.376	33.485	33.675	33.909	34.038	34.183	1.1%
Small Utility	28.439	28.629	28.783	28.932	29.145	29.412	29.611	29.819	30.053	30.181	30.319	30.455	30.543	30.643	-1.3%
Large Utility	23.368	23.486	23.624	23.743	23.898	24.112	24.254	24.394	24.565	24.661	24.783	24.945	25.032	25.114	0.7%
Average New Alt. Light Trucks	25.812	25.960	26.113	26.266	26.454	26.698	26.866	27.052	27.266	27.381	27.525	27.697	27.799	27.910	1.1%
Fleet Vehicles															
EPA Rated New Vehicle Fuel Efficiency															
Cars	31.842	31.889	31.946	31.988	32.085	32.237	32.344	32.443	32.551	32.583	32.610	32.693	32.705	32.713	0.5%
Light Trucks	24.440	24.503	24.582	24.665	24.774	24.941	25.060	25.166	25.294	25.371	25.442	25.548	25.581	25.603	0.7%
Average On-Road MPG															
Cars	25.494	25.553	25.612	25.668	25.733	25.819	25.915	26.021	26.130	26.217	26.288	26.355	26.404	26.447	0.6%
Light Trucks	18.840	18.903	18.969	19.037	19.109	19.194	19.286	19.383	19.486	19.585	19.671	19.753	19.824	19.880	0.8%
New Vehicle Sales Shares (%)															

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Conventional Cars															
Minicompact	1.169	1.166	1.183	1.157	1.168	1.180	1.153	1.173	1.175	1.150	1.170	1.176	1.161	1.176	-0.6%
Subcompact	7.659	7.642	7.755	7.584	7.657	7.737	7.555	7.690	7.707	7.542	7.682	7.717	7.624	7.722	-0.6%
Compact	38.702	38.658	38.965	38.496	38.686	38.907	38.388	38.750	38.801	38.326	38.700	38.800	38.536	38.794	-0.3%
Midsize	35.339	35.373	35.141	35.498	35.355	35.193	35.586	35.314	35.269	35.631	35.349	35.276	35.478	35.279	0.3%
Large	15.541	15.570	15.369	15.673	15.543	15.395	15.724	15.484	15.459	15.759	15.510	15.443	15.610	15.440	0.5%
Two Seater	1.591	1.591	1.588	1.592	1.590	1.589	1.593	1.590	1.589	1.592	1.589	1.589	1.591	1.589	0.1%
Conventional Light Trucks															
Small Pickup	6.094	6.105	6.043	6.144	6.095	6.044	6.157	6.080	6.069	6.179	6.099	6.074	6.137	6.083	0.4%
Large Pickup	24.699	24.696	24.720	24.687	24.710	24.736	24.728	24.761	24.767	24.740	24.771	24.780	24.770	24.792	0.0%
Small Van	4.545	4.538	4.594	4.508	4.543	4.577	4.481	4.553	4.561	4.478	4.548	4.565	4.522	4.569	-0.5%
Large Van	10.382	10.380	10.390	10.373	10.389	10.386	10.380	10.393	10.390	10.399	10.409	10.408	10.420	10.434	0.0%
Small Utility	29.790	29.794	29.755	29.808	29.780	29.757	29.796	29.747	29.743	29.775	29.732	29.724	29.734	29.699	0.1%
Large Utility	24.490	24.486	24.497	24.480	24.483	24.499	24.458	24.465	24.470	24.430	24.443	24.449	24.417	24.423	0.0%
New Vehicle Average Horsepower															
Conventional Cars															
Minicompact	275.116	275.951	276.691	277.372	277.745	278.256	278.684	279.049	279.489	279.750	279.754	279.810	279.817	279.824	0.5%
Subcompact	194.625	195.163	195.618	196.161	196.436	196.648	196.844	197.022	197.172	197.312	197.403	197.504	197.570	197.615	0.4%
Compact	170.907	172.398	173.667	175.189	176.453	177.481	178.478	179.310	180.049	180.791	181.337	181.917	182.407	182.756	1.1%
Midsize	223.524	224.899	226.054	227.390	228.399	229.230	230.112	230.802	231.461	232.064	232.486	232.902	233.237	233.481	0.9%
Large	238.958	240.499	241.841	243.564	244.869	246.025	247.272	248.189	248.980	249.762	250.360	251.106	251.730	251.990	0.8%
Two Seater	305.104	306.828	308.367	310.063	311.290	312.484	313.597	314.531	315.382	316.140	316.636	316.972	317.362	317.628	0.9%
Average New Car	205.247	206.659	207.614	209.356	210.310	211.062	212.365	212.840	213.476	214.468	214.659	215.088	215.696	215.773	1.0%
Conventional Light Trucks															
Small Pickup	198.411	200.329	201.917	203.695	204.717	205.692	206.719	207.546	208.471	209.116	209.643	210.199	210.536	210.681	1.3%
Large Pickup	279.561	281.606	283.454	285.540	286.963	288.501	289.531	289.792	289.804	289.822	289.845	289.824	289.839	289.848	1.2%
Small Van	223.866	225.797	227.545	229.220	230.358	231.483	232.650	233.554	234.560	235.319	235.918	236.521	236.636	236.702	1.1%
Large Van	249.727	251.967	253.936	256.176	257.293	258.436	259.623	260.576	261.595	262.372	262.954	263.544	263.792	263.712	1.2%
Small Utility	219.617	220.417	221.156	221.913	222.189	222.424	222.633	222.806	223.012	223.022	223.014	223.015	222.986	222.970	0.7%
Large Utility	283.279	285.148	286.807	288.718	289.918	291.124	292.196	292.017	293.845	293.775	293.712	293.600	293.490	293.358	1.0%
Average New Light Truck	252.040	253.671	255.175	256.738	257.730	258.743	259.498	260.057	260.540	260.616	260.777	260.884	260.866	260.872	1.0%
New Vehicle Average Weight															
Conventional Cars															
Minicompact	3504.677	3507.862	3510.848	3513.431	3511.456	3508.767	3506.302	3504.253	3501.792	3501.237	3501.039	3499.856	3499.843	3499.830	0.0%
Subcompact	3072.530	3075.032	3077.376	3079.888	3078.440	3076.160	3074.304	3072.529	3070.535	3069.295	3068.203	3066.815	3066.259	3065.786	0.1%
Compact	2941.893	2944.318	2946.582	2948.895	2947.481	2945.094	2943.114	2941.365	2939.490	2938.441	2937.409	2936.079	2935.662	2935.313	0.1%
Midsize	3432.566	3435.412	3438.122	3440.882	3439.157	3436.622	3434.499	3432.709	3430.527	3429.468	3428.305	3426.777	3426.231	3425.767	0.1%
Large	3721.655	3724.538	3727.280	3730.433	3728.648	3726.260	3724.633	3722.589	3719.608	3717.674	3715.521	3713.342	3712.270	3711.359	0.1%
Two Seater	3283.135	3285.443	3287.511	3289.751	3287.650	3284.630	3281.783	3279.281	3276.366	3274.811	3273.418	3271.448	3270.813	3270.278	0.1%
Average New Car	3258.484	3261.504	3261.526	3267.927	3264.757	3260.521	3262.667	3257.901	3255.331	3257.896	3253.600	3251.256	3252.775	3250.196	0.1%
Conventional Light Trucks															
Small Pickup	3871.924	3877.974	3883.576	3889.339	3888.234	3886.767	3885.531	3884.627	3883.654	3883.275	3883.224	3882.590	3882.518	3882.480	0.1%
Large Pickup	5259.210	5268.432	5276.764	5285.234	5283.600	5281.459	5279.299	5277.959	5276.353	5275.435	5275.109	5274.258	5274.215	5274.128	0.1%
Small Van	4356.585	4363.904	4370.869	4377.613	4375.865	4373.458	4370.691	4368.441	4366.603	4364.671	4363.265	4360.487	4358.470	4356.651	0.1%
Large Van	4819.876	4827.864	4835.487	4842.686	4840.203	4836.588	4832.822	4830.054	4827.112	4824.812	4823.077	4820.455	4817.746	4814.956	0.1%
Small Utility	4077.532	4084.493	4090.766	4096.988	4095.203	4092.988	4090.879	4089.035	4086.744	4084.656	4082.361	4079.784	4078.036	4076.745	0.0%
Large Utility	5349.943	5358.762	5366.739	5374.574	5371.619	5367.323	5363.417	5359.243	5355.349	5352.378	5350.256	5347.301	5344.840	5342.114	0.1%
Average New Light Truck	4758.226	4766.138	4774.240	4780.319	4778.899	4776.775	4772.901	4771.490	4769.156	4766.018	4765.449	4763.591	4761.409	4760.640	0.1%
Average Weight for the Stock															

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Conventional Cars	3219	3223	3227	3231	3235	3238	3241	3243	3245	3247	3248	3249	3250	3250	0.1%
Conventional Light Trucks	4652	4666	4679	4695	4704	4713	4720	4726	4731	4736	4740	4744	4747	4749	0.4%

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.

Sources: 2004 and 2005 values derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model (Washington, DC, June 1998), prepared for Energy Information Administration (EIA); National Highway Traffic and Safety Administration, Mid-Year Fuel Economy Reports from Auto Manufacturers, 1998; Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices" (Oak Ridge, TN, March 1992), prepared for the U.S. Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cars 1/													
Conventional Gasoline	662.80	620.98	626.26	639.78	653.89	651.01	631.42	611.31	592.79	581.78	572.58	563.36	555.25
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	0.12	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	38.53	39.95	41.03	41.52	42.24	42.33	41.57	40.22	38.80	37.67	36.74	36.09	35.58
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	0.00	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 Bi-fuel	5.05	5.83	6.42	6.59	6.79	6.93	6.93	6.78	6.57	6.37	6.20	6.08	5.99
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	0.00	23.61	25.62	26.02	26.36	26.50	26.26	25.64	24.81	24.04	23.39	22.92	22.56
Electric	1.16	1.25	1.21	1.22	1.23	1.23	1.23	1.21	1.18	1.15	1.12	1.09	1.07
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 Cars	707.66	691.62	700.54	715.13	730.51	727.99	707.40	685.15	664.14	651.01	640.02	629.54	620.45
Light Trucks 1/													
Conventional Gasoline	653.44	588.16	577.12	557.65	535.85	513.15	499.32	504.64	519.32	535.79	550.84	562.36	571.36
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	48.79	60.76	64.31	62.36	60.08	57.75	56.05	56.21	57.59	59.29	60.90	62.15	63.14
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	0.00	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 Bi-fuel	22.09	25.15	24.59	23.95	23.19	22.33	21.80	22.01	22.63	23.34	23.99	24.51	24.92
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	66.62	79.04	79.06	76.79	73.89	70.88	68.86	69.47	71.45	73.71	75.79	77.41	78.71
Electric	1.93	2.32	2.41	2.34	2.25	2.16	2.10	2.10	2.15	2.21	2.27	2.31	2.34
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	792.86	755.43	747.50	723.10	695.27	666.27	648.13	654.44	673.14	694.34	713.78	728.74	740.46
Total Fleet Vehicles	1500.52	1447.05	1448.04	1438.23	1425.78	1394.26	1355.53	1339.59	1337.28	1345.35	1353.81	1358.28	1360.91
Commercial Light Trucks 2/	586.72	590.27	604.27	605.11	605.99	608.28	611.85	618.66	625.85	633.53	641.13	649.85	659.34

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Cars 1/															
Conventional Gasoline	548.93	545.32	545.94	548.49	551.30	554.74	554.58	554.28	554.46	553.94	555.28	556.64	557.44	559.91	-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	0.00	N/A
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	0.00	-0.6%
Ethanol															
Flex	35.19	34.93	34.92	35.03	35.19	35.38	35.42	35.43	35.45	35.42	35.48	35.55	35.61	35.74	-0.4%
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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	5.92	5.88	5.87	5.89	5.91	5.95	5.96	5.98	5.99	5.99	6.00	6.02	6.03	6.06	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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	22.32	22.13	22.09	22.13	22.21	22.32	22.36	22.39	22.41	22.41	22.44	22.49	22.53	22.62	-0.2%
Electric	1.06	1.05	1.05	1.05	1.06	1.07	1.07	1.08	1.08	1.08	1.08	1.09	1.09	1.10	-0.5%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Cars	613.42	609.30	609.86	612.59	615.67	619.46	619.39	619.16	619.39	618.85	620.28	621.79	622.70	625.42	-0.4%
Light Trucks 1/															
Conventional Gasoline	578.65	584.69	589.99	597.50	605.87	613.31	621.20	628.53	633.91	640.62	648.54	655.31	662.74	670.56	0.5%
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	0.00	N/A
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	0.00	N/A
Ethanol															
Flex	63.95	64.63	65.24	66.04	66.94	67.75	68.62	69.44	70.07	70.82	71.67	72.43	73.25	74.12	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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	25.26	25.54	25.80	26.15	26.55	26.91	27.29	27.66	27.94	28.27	28.66	29.01	29.38	29.77	0.7%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	79.77	80.67	81.47	82.54	83.74	84.83	85.98	87.07	87.90	88.88	90.05	91.06	92.15	93.31	0.7%
Electric	2.37	2.40	2.43	2.47	2.52	2.56	2.60	2.65	2.69	2.73	2.77	2.81	2.85	2.89	0.9%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Light Trucks	750.00	757.93	764.93	774.70	785.61	795.35	805.70	815.35	822.51	831.31	841.69	850.61	860.37	870.64	0.6%
Total Fleet Vehicles	1363.42	1367.23	1374.79	1387.28	1401.27	1414.81	1425.09	1434.51	1441.90	1450.16	1461.96	1472.40	1483.07	1496.06	0.1%
Commercial Light Trucks 2/	666.96	675.05	684.01	694.17	704.13	714.27	723.80	734.43	746.85	759.95	772.79	784.66	796.89	810.13	1.3%

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.

N/A = Not Applicable.

Sources: 2004 and 2005 values derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices" (Oak Ridge, TN, March 1992), prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis; 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); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2 (April 23, 1997), prepared for the Energy Information Administration (EIA); and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cars 1/													
Conventional Gasoline	1387.73	1453.03	1587.83	1628.04	1595.88	1552.15	1537.62	1536.96	1520.62	1507.30	1479.32	1466.25	1456.39
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	77.86	81.52	89.08	91.34	89.54	87.08	86.27	86.23	85.31	84.57	83.00	82.26	81.71
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	0.00	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 Bi-fuel	11.29	11.82	12.92	13.24	12.98	12.63	12.51	12.50	12.37	12.26	12.03	11.93	11.85
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	43.54	45.59	49.82	51.08	50.07	48.70	48.24	48.22	47.71	47.29	46.41	46.00	45.69
Electric	2.31	2.42	2.64	2.71	2.65	2.58	2.56	2.56	2.53	2.51	2.46	2.44	2.42
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	1522.73	1594.38	1742.28	1786.41	1751.12	1703.14	1687.19	1686.47	1668.54	1653.92	1623.22	1608.88	1598.07
Light Trucks 1/													
Conventional Gasoline	841.17	813.84	707.05	668.09	703.77	739.98	783.90	830.66	854.07	875.56	900.15	909.96	917.25
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	88.47	85.59	74.36	70.27	74.02	77.83	82.45	87.36	89.83	92.09	94.67	95.70	96.47
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	0.00	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 Bi-fuel	32.53	31.47	27.34	25.84	27.22	28.62	30.32	32.12	33.03	33.86	34.81	35.19	35.47
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	108.34	104.82	91.07	86.05	90.65	95.31	100.97	106.99	110.00	112.77	115.94	117.20	118.14
Electric	3.52	3.40	2.96	2.79	2.94	3.09	3.28	3.47	3.57	3.66	3.76	3.80	3.83
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	1074.03	1039.14	902.78	853.04	898.60	944.83	1000.91	1060.61	1090.49	1117.93	1149.34	1161.86	1171.17
Total Fleet Vehicles	2596.75	2633.51	2645.07	2639.44	2649.72	2647.97	2688.10	2747.08	2759.04	2771.86	2772.56	2770.74	2769.24
Commercial Light Trucks 2/	662.70	663.70	637.68	629.14	637.52	657.95	683.41	715.60	711.60	724.98	732.70	739.59	738.82

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Cars 1/															
Conventional Gasoline	1458.85	1458.02	1487.68	1497.94	1505.59	1518.13	1510.82	1522.51	1535.54	1534.25	1544.58	1555.44	1557.35	1573.60	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	0.00	N/A
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	0.00	0.3%
Ethanol															
Flex	81.85	81.80	83.47	84.04	84.47	85.17	84.76	85.42	86.15	86.08	86.66	87.27	87.37	88.29	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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	11.87	11.86	12.10	12.19	12.25	12.35	12.29	12.39	12.49	12.48	12.56	12.65	12.67	12.80	0.3%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	45.77	45.74	46.67	47.00	47.24	47.63	47.40	47.77	48.18	48.14	48.46	48.80	48.86	49.37	0.3%
Electric	2.43	2.43	2.47	2.49	2.50	2.53	2.51	2.53	2.55	2.55	2.57	2.59	2.59	2.62	0.3%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Cars	1600.77	1599.85	1632.40	1643.65	1652.05	1665.81	1657.79	1670.61	1684.91	1683.49	1694.83	1706.75	1708.85	1726.68	0.3%
Light Trucks 1/															
Conventional Gasoline	928.87	941.09	958.23	986.75	1003.55	1011.38	1032.13	1046.19	1058.93	1086.98	1102.40	1112.21	1130.30	1142.27	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	0.00	N/A
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	0.00	1.4%
Ethanol															
Flex	97.69	98.98	100.78	103.78	105.55	106.37	108.55	110.03	111.37	114.32	115.94	116.97	118.88	120.14	1.4%
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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	35.92	36.40	37.06	38.16	38.81	39.11	39.92	40.46	40.95	42.04	42.63	43.01	43.71	44.18	1.4%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	119.64	121.21	123.42	127.09	129.26	130.27	132.94	134.75	136.39	140.00	141.99	143.25	145.58	147.12	1.4%
Electric	3.88	3.93	4.00	4.12	4.19	4.23	4.31	4.37	4.43	4.54	4.61	4.65	4.72	4.77	1.4%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Light Trucks	1186.01	1201.61	1223.50	1259.91	1281.36	1291.36	1317.85	1335.81	1352.06	1387.89	1407.57	1420.09	1443.19	1458.48	1.4%
Total Fleet Vehicles	2786.77	2801.45	2855.90	2903.56	2933.41	2957.17	2975.64	3006.42	3036.98	3071.38	3102.40	3126.85	3152.04	3185.16	0.8%
Commercial Light Trucks 2/	749.94	753.32	770.32	783.86	793.74	799.72	807.08	815.86	824.49	836.25	845.36	852.18	860.43	869.47	1.1%

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.

N/A = Not Applicable.

Sources: 2004 and 2005 values derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices" (Oak Ridge, TN, March 1992), prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis; 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); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2 (April 23, 1997), prepared for the Energy Information Administration (EIA); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cars 1/													
Conventional Gasoline	6126.02	5769.55	5762.81	5944.87	6138.90	6227.89	6182.43	6098.61	6026.47	5980.85	5922.35	5853.70	5790.99
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	1.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	335.60	352.76	361.50	369.33	378.86	384.98	385.19	381.76	377.25	373.74	369.98	366.02	362.18
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	0.00	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 Bi-fuel	50.07	56.82	61.04	61.74	62.70	63.67	64.23	64.17	63.52	62.80	62.11	61.49	60.88
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	186.23	213.24	228.75	231.75	235.82	239.51	241.29	240.68	238.14	235.55	233.00	230.66	228.34
Electric	11.09	11.89	11.62	11.79	12.04	12.26	12.33	12.26	12.11	11.98	11.86	11.74	11.62
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	6710.13	6404.34	6425.73	6619.48	6828.34	6928.30	6885.48	6797.48	6717.49	6664.92	6599.31	6523.61	6454.02
Light Trucks 1/													
Conventional Gasoline	4295.53	3965.83	3878.13	3782.47	3696.24	3606.65	3583.48	3697.60	3874.50	4044.22	4202.04	4327.20	4415.17
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	0.03	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	334.77	415.60	428.11	417.51	409.20	400.35	396.92	406.86	424.99	443.78	461.34	475.58	485.87
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	0.00	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 Bi-fuel	136.87	157.05	153.44	149.82	146.55	142.95	141.77	146.07	153.01	159.75	166.03	171.04	174.57
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	427.74	512.37	513.36	501.16	490.39	478.57	474.59	488.55	511.54	534.07	555.11	571.93	583.80
Electric	13.92	16.77	17.44	17.01	16.70	16.36	16.21	16.55	17.26	18.02	18.74	19.33	19.76
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	5208.86	5067.61	4990.49	4867.97	4759.07	4644.88	4612.97	4755.63	4981.30	5199.85	5403.27	5565.09	5679.17
Total Fleet Vehicles	11918.99	11471.95	11416.21	11487.45	11587.41	11573.19	11498.45	11553.12	11698.79	11864.77	12002.58	12088.71	12133.19
Commercial Light Trucks 2/	6252.05	6571.09	6872.77	7160.50	7441.34	7719.69	7994.61	8269.49	8507.06	8726.93	8927.04	9109.83	9270.44

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Cars 1/															
Conventional Gasoline	5744.82	5723.60	5745.02	5785.52	5831.22	5888.29	5911.50	5935.71	5965.13	5981.96	6014.01	6046.23	6068.36	6106.44	0.2%
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	0.00	N/A
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	0.00	-13.3%
Ethanol															
Flex	359.23	357.45	358.28	360.32	362.90	366.14	367.99	369.68	371.53	372.74	374.48	376.48	378.02	380.21	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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	60.37	60.00	60.02	60.25	60.61	61.09	61.44	61.79	62.11	62.34	62.60	62.91	63.20	63.55	0.4%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	226.44	225.09	225.23	226.20	227.59	229.44	230.74	232.00	233.18	234.01	235.03	236.21	237.26	238.58	0.5%
Electric	11.52	11.46	11.47	11.53	11.60	11.70	11.77	11.83	11.89	11.93	11.98	12.04	12.10	12.16	0.1%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Cars	6402.38	6377.60	6400.02	6443.82	6493.93	6556.67	6583.44	6611.02	6643.84	6662.98	6698.10	6733.88	6758.94	6800.95	0.2%
Light Trucks 1/															
Conventional Gasoline	4489.35	4554.42	4613.57	4689.99	4775.16	4856.59	4946.00	5032.43	5105.31	5188.64	5277.83	5357.75	5440.79	5522.25	1.3%
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	0.00	N/A
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	0.00	2.0%
Ethanol															
Flex	494.25	501.62	508.37	516.65	525.84	534.72	544.49	554.06	562.36	571.52	581.18	590.08	599.19	608.15	1.5%
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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	177.53	180.13	182.47	185.47	188.81	192.03	195.57	199.01	201.90	205.18	208.71	211.87	215.15	218.40	1.3%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	593.74	602.47	610.34	620.35	631.52	642.25	654.08	665.58	675.31	686.29	698.04	708.63	719.61	730.45	1.4%
Electric	20.11	20.41	20.69	21.03	21.40	21.76	22.15	22.54	22.89	23.26	23.65	24.01	24.38	24.75	1.6%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Light Trucks	5774.98	5859.06	5935.45	6033.49	6142.72	6247.36	6362.30	6473.63	6567.78	6674.90	6789.40	6892.35	6999.14	7103.99	1.4%
Total Fleet Vehicles	12177.37	12236.67	12335.47	12477.31	12636.65	12804.02	12945.74	13084.65	13211.62	13337.88	13487.50	13626.23	13758.07	13904.94	0.8%
Commercial Light Trucks 2/	9423.63	9563.47	9705.56	9847.47	9987.22	10122.15	10254.09	10384.49	10513.09	10642.76	10770.88	10895.47	11018.49	11141.32	2.1%

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices" (Oak Ridge, TN, March 1992), prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis; 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); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2 (April 23, 1997), prepared for the Energy Information Administration (EIA); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cars 1/													
Conventional Gasoline	125.51	118.48	118.27	122.29	126.49	128.40	127.44	125.65	124.01	122.90	121.51	119.91	118.49
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	0.02	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	6.88	7.24	7.42	7.60	7.81	7.94	7.94	7.87	7.76	7.68	7.59	7.50	7.41
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	0.00	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 Bi-fuel	1.03	1.17	1.25	1.27	1.29	1.31	1.32	1.32	1.31	1.29	1.27	1.26	1.25
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	3.82	4.38	4.69	4.77	4.86	4.94	4.97	4.96	4.90	4.84	4.78	4.73	4.67
Electric	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24
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	137.48	131.51	131.87	136.17	140.69	142.84	141.93	140.05	138.23	136.95	135.39	133.64	132.05
Light Trucks 1/													
Conventional Gasoline	88.01	81.44	79.59	77.81	76.16	74.36	73.87	76.18	79.73	83.10	86.21	88.64	90.34
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	6.86	8.53	8.79	8.59	8.43	8.25	8.18	8.38	8.75	9.12	9.47	9.74	9.94
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	0.00	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 Bi-fuel	2.80	3.23	3.15	3.08	3.02	2.95	2.92	3.01	3.15	3.28	3.41	3.50	3.57
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	8.76	10.52	10.54	10.31	10.10	9.87	9.78	10.07	10.53	10.97	11.39	11.72	11.94
Electric	0.29	0.34	0.36	0.35	0.34	0.34	0.33	0.34	0.36	0.37	0.38	0.40	0.40
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	106.72	104.06	102.42	100.14	98.06	95.76	95.09	97.98	102.51	106.85	110.86	114.00	116.20
Total Fleet Vehicles	244.20	235.57	234.29	236.31	238.75	238.60	237.02	238.02	240.74	243.80	246.25	247.64	248.25
Commercial Light Trucks 2/	65.85	66.67	68.69	69.18	69.89	70.81	71.94	73.59	75.28	77.03	78.74	80.58	82.50

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Cars 1/															
Conventional Gasoline	117.44	116.94	117.34	118.15	119.06	120.21	120.63	121.06	121.61	121.90	122.53	123.14	123.54	124.29	0.2%
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	0.00	N/A
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	0.00	-13.3%
Ethanol															
Flex	7.34	7.30	7.32	7.36	7.41	7.47	7.51	7.54	7.57	7.60	7.63	7.67	7.70	7.74	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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	1.23	1.23	1.23	1.23	1.24	1.25	1.25	1.26	1.27	1.27	1.28	1.28	1.29	1.29	0.4%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	4.63	4.60	4.60	4.62	4.65	4.68	4.71	4.73	4.75	4.77	4.79	4.81	4.83	4.86	0.4%
Electric	0.24	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.1%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Cars	130.88	130.30	130.72	131.60	132.59	133.86	134.34	134.84	135.45	135.78	136.46	137.14	137.60	138.42	0.2%
Light Trucks 1/															
Conventional Gasoline	91.78	93.05	94.23	95.78	97.50	99.15	100.92	102.64	104.08	105.74	107.53	109.12	110.77	112.40	1.3%
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	0.00	N/A
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	0.00	2.0%
Ethanol															
Flex	10.10	10.25	10.38	10.55	10.74	10.92	11.11	11.30	11.47	11.65	11.84	12.02	12.20	12.38	1.5%
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	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	3.63	3.68	3.73	3.79	3.86	3.92	3.99	4.06	4.12	4.18	4.25	4.31	4.38	4.45	1.3%
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	0.00	N/A
Liquefied Petroleum Gases Bi-fuel	12.14	12.31	12.47	12.67	12.89	13.11	13.35	13.58	13.77	13.99	14.22	14.43	14.65	14.87	1.4%
Electric	0.41	0.42	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.47	0.48	0.49	0.50	0.50	1.5%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Total Fleet Light Truck	118.06	119.71	121.23	123.22	125.42	127.54	129.82	132.03	133.90	136.03	138.32	140.37	142.49	144.59	1.3%
Total Fleet Vehicles	248.94	250.01	251.96	254.81	258.02	261.40	264.16	266.87	269.35	271.81	274.78	277.52	280.10	283.02	0.7%
Commercial Light Trucks 2/	84.14	85.83	87.60	89.49	91.35	93.23	95.02	96.93	99.08	101.29	103.46	105.49	107.55	109.72	2.0%

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.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices" (Oak Ridge, TN, March 1992), prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis; Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2 (April 23, 1997), prepared for the Energy Information Administration (EIA); and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 56. Air Travel Energy Use

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Fuel Cost (1987 dollars per million Btu)	6.0	8.5	9.7	8.4	7.6	7.3	7.1	6.7	6.5	6.5	6.4	6.4	6.5
Yield-domestic (ticket price) 1/	10.4	10.3	10.3	9.7	9.2	8.8	8.4	8.0	7.7	7.3	7.0	6.6	6.3
Yield-international (1996 dollars) 1/	9.1	9.3	9.1	8.6	8.2	7.9	7.6	7.3	7.1	6.8	6.6	6.3	6.1
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	554.2	584.0	570.8	570.5	586.0	605.5	633.0	648.5	661.3	674.3	688.7	702.2	715.2
Load Factor, Domestic 2/	0.74	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79
Revenue Passenger Miles, International	193.5	210.7	224.5	237.6	252.4	268.5	285.9	298.4	306.7	315.1	321.9	329.4	337.6
Load Factor, International 2/	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80
Revenue Ton Miles, Freight (billion)	35.3	37.5	36.0	39.8	40.2	41.9	44.4	47.2	50.2	53.4	56.7	60.0	63.6
Seat Miles Demanded (billion)	992.0	1027.1	1022.9	1037.3	1073.7	1117.0	1171.7	1205.0	1229.3	1253.7	1277.9	1301.5	1325.4
Narrow Body Aircraft	613.8	628.5	612.9	615.7	634.1	656.7	687.8	705.7	720.0	734.5	750.0	764.6	779.0
Wide Body Aircraft	275.8	284.7	322.5	331.9	346.0	361.9	379.5	389.8	396.0	402.2	406.7	411.6	416.2
Regional Jets	102.4	113.8	87.5	89.7	93.7	98.3	104.4	109.4	113.2	117.1	121.2	125.2	130.2
Aircraft Sales													
Narrow Body Aircraft	125.0	137.0	196.0	198.9	196.7	190.8	178.1	177.0	176.9	176.8	178.4	180.3	183.8
Wide Body Aircraft	18.0	12.0	51.4	52.6	52.5	51.4	48.4	48.5	48.9	49.2	50.1	51.0	52.4
Regional Jets	286.0	192.0	144.6	146.2	144.2	139.5	129.8	128.5	128.1	127.6	128.3	129.2	131.3
Total Aircraft Sales	429.0	341.0	392.0	397.7	393.4	381.7	356.2	354.1	353.9	353.6	356.8	360.6	367.5
Aircraft Stock													
Narrow Body Aircraft	4824.0	4728.0	4757.8	4801.2	4849.9	4899.9	4943.4	4988.3	5034.5	5086.6	5149.4	5217.3	5285.6
Wide Body Aircraft	1381.0	1380.0	1376.6	1371.9	1365.0	1357.6	1348.8	1341.9	1336.7	1333.2	1332.2	1332.4	1333.3
Regional Jets	1841.0	2008.0	2143.3	2279.1	2411.6	2538.0	2653.5	2767.1	2878.9	2988.2	3096.0	3202.3	3308.0
Total Aircraft Stock	8046.0	8116.0	8277.7	8452.2	8626.6	8795.6	8945.6	9097.4	9250.0	9408.0	9577.6	9752.1	9926.8
Aircraft Active Stock													
Narrow Body Aircraft	4084.0	3468.0	3524.3	3511.9	3587.9	3686.8	3831.3	3900.5	3948.7	3990.0	3987.4	3989.8	4002.4
Wide Body Aircraft	1088.0	562.0	691.3	705.5	733.3	766.5	795.0	821.5	836.7	851.9	870.0	887.3	901.4
Regional Jets	1749.0	1897.0	1979.5	2065.7	2142.9	2207.0	2252.3	2286.3	2308.9	2319.7	2319.6	2309.1	2290.0
Total Active Stock	6921.0	5927.0	6195.1	6283.1	6464.1	6660.2	6878.6	7008.3	7094.4	7161.5	7176.9	7186.2	7193.8
Aircraft Parked Stock													
Narrow Body Aircraft	740.0	628.0	137.9	234.5	260.6	236.7	139.0	80.9	36.3	0.0	0.0	0.0	0.0
Wide Body Aircraft	293.0	218.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Regional Jets	92.0	110.0	162.8	212.5	267.9	330.4	400.6	480.3	569.6	668.2	776.1	893.0	1017.9
Total Parked Stock	1125.0	956.0	300.6	447.0	528.5	567.0	539.5	561.2	605.8	668.2	776.1	893.0	1017.9
Aircraft Cargo Stock													
Narrow Body Aircraft	505.0	630.0	1095.7	1054.8	1001.4	976.4	973.1	1006.9	1049.4	1096.7	1162.0	1227.6	1283.1
Wide Body Aircraft	512.0	600.0	685.3	666.4	631.7	591.2	553.8	520.4	499.9	481.3	462.3	445.1	431.9
Total Cargo Stock	1017.0	1230.0	1781.0	1721.3	1633.1	1567.6	1526.9	1527.3	1549.4	1577.9	1624.3	1672.7	1715.1
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.00	0.32	0.43	0.56	0.65	0.76	0.86	0.92	0.96	0.98
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
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

Table 56. Air Travel Energy Use

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Aircraft Efficiency 3/													
Narrow Body Aircraft	64.9	65.4	64.9	65.0	67.2	68.3	69.8	71.5	73.6	76.0	77.9	79.2	80.1
Wide Body Aircraft	63.2	63.6	63.3	63.4	65.7	66.7	68.2	69.8	72.0	74.3	76.1	77.5	78.4
Regional Jets	42.7	43.1	42.8	42.9	44.3	45.1	46.0	47.1	48.5	50.1	51.3	52.2	52.8
Average Aircraft	62.8	56.0	55.6	55.4	57.3	58.2	59.6	61.0	62.9	64.9	66.6	67.8	68.6
Aircraft Stock Efficiency 3/													
Narrow Body Aircraft	58.1	58.5	58.3	59.2	59.8	60.4	60.8	61.4	62.2	62.9	63.9	64.9	65.9
Wide Body Aircraft	56.5	56.6	56.8	57.7	58.4	59.1	59.8	60.5	61.4	62.4	63.4	64.4	65.5
Regional Jets	41.6	41.8	41.2	41.3	41.5	41.7	42.0	42.3	42.6	43.0	43.5	44.0	44.5
Average Aircraft	55.5	55.7	55.9	56.6	57.2	57.7	58.2	58.7	59.4	60.2	61.0	61.9	62.8
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel	2819.6	2806.0	2878.9	2983.8	3104.6	3263.4	3468.2	3552.8	3610.4	3664.4	3711.9	3753.4	3798.9
Aviation Gasoline	31.2	35.1	32.0	29.0	32.9	32.7	32.6	32.5	32.4	32.4	32.3	32.2	32.2
Military													
Jet Fuel	562.9	560.4	527.1	542.4	555.7	566.3	575.1	576.8	579.6	582.3	585.4	588.6	591.8

Table 56. Air Travel Energy Use

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Fuel Cost (1987 dollars per million Btu)	6.5	6.6	6.8	6.8	6.9	7.1	7.0	7.1	7.2	7.2	7.3	7.5	7.5	7.6	-0.5%
Yield-domestic (ticket price) 1/	6.3	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	-2.0%
Yield-international (1996 dollars) 1/	5.9	5.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	-2.1%
Travel Demand (billion miles)															
Revenue Passenger Miles, Domestic	727.7	739.4	750.4	752.5	754.4	756.2	757.9	759.7	761.6	763.7	766.0	768.6	771.4	774.5	1.1%
Load Factor, Domestic 2/	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.2%
Revenue Passenger Miles, International	346.7	356.5	367.8	377.4	387.8	398.7	409.7	420.6	431.5	442.2	452.6	462.8	472.7	482.2	3.4%
Load Factor, International 2/	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.82	0.82	0.82	0.2%
Revenue Ton Miles, Freight (billion)	67.5	70.7	74.0	77.5	81.1	84.6	88.1	91.7	95.2	98.7	102.3	106.0	109.6	113.3	4.5%
Seat Miles Demanded (billion)	1349.5	1373.4	1398.2	1410.2	1423.6	1437.1	1450.8	1464.3	1477.8	1491.2	1504.7	1518.0	1531.2	1544.3	1.6%
Narrow Body Aircraft	793.1	806.5	819.6	824.2	829.1	833.4	838.3	843.3	848.3	853.5	858.9	864.5	870.3	876.3	1.3%
Wide Body Aircraft	422.4	429.0	437.0	441.5	447.8	454.8	461.5	469.9	478.1	486.1	493.8	501.2	508.3	515.0	2.4%
Regional Jets	134.1	137.9	141.6	144.6	146.8	148.9	151.0	151.2	151.4	151.6	151.9	152.2	152.6	153.0	1.2%
Aircraft Sales															
Narrow Body Aircraft	188.4	191.1	194.2	205.5	214.6	222.0	229.0	236.4	244.0	251.4	257.8	263.1	268.6	274.0	2.8%
Wide Body Aircraft	54.2	55.4	56.8	60.5	63.7	66.4	69.1	71.8	74.7	77.5	80.1	82.4	84.7	87.7	8.3%
Regional Jets	134.2	135.7	137.4	145.0	150.9	155.6	160.0	164.6	169.3	173.8	177.7	180.7	183.9	186.3	-0.1%
Total Aircraft Sales	376.8	382.2	388.4	411.0	429.2	444.0	458.1	472.8	488.0	502.7	515.7	526.2	537.2	547.9	1.9%
Aircraft Stock															
Narrow Body Aircraft	5353.5	5418.4	5481.5	5551.6	5626.7	5705.6	5787.6	5874.9	5968.1	6067.2	6171.9	6278.9	6389.2	6502.1	1.3%
Wide Body Aircraft	1334.9	1338.3	1344.9	1356.8	1372.3	1391.5	1414.1	1439.9	1468.6	1499.8	1534.0	1570.2	1608.3	1649.4	0.7%
Regional Jets	3413.5	3517.4	3619.5	3725.3	3832.8	3940.4	4047.5	4154.0	4259.7	4364.1	4466.3	4565.0	4660.0	4750.6	3.5%
Total Aircraft Stock	10102.0	10274.1	10445.9	10633.7	10831.8	11037.4	11249.2	11468.7	11696.3	11931.0	12172.1	12414.2	12657.5	12902.1	1.9%
Aircraft Active Stock															
Narrow Body Aircraft	4059.4	4138.7	4231.0	4257.1	4251.7	4243.4	4237.8	4232.8	4228.4	4224.4	4221.4	4219.0	4217.3	4216.6	0.8%
Wide Body Aircraft	916.8	924.4	934.7	937.4	943.8	951.9	959.3	977.4	999.7	1023.4	1048.8	1076.8	1107.9	1142.7	2.9%
Regional Jets	2264.0	2247.6	2290.6	2322.1	2339.5	2356.1	2372.1	2358.5	2346.7	2342.3	2342.0	2349.6	2364.2	2384.3	0.9%
Total Active Stock	7240.2	7310.6	7456.4	7516.6	7535.0	7551.3	7569.2	7568.7	7574.7	7590.2	7612.3	7645.4	7689.5	7743.6	1.1%
Aircraft Parked Stock															
Narrow Body Aircraft	0.0	0.0	0.0	88.7	219.9	308.8	340.2	351.8	348.2	399.6	512.8	647.5	791.5	905.0	1.5%
Wide Body Aircraft	2.7	26.6	52.8	89.5	120.9	147.7	165.2	167.3	171.4	186.0	209.2	239.5	274.2	291.6	1.2%
Regional Jets	1149.5	1269.9	1328.9	1403.2	1493.2	1584.3	1675.4	1795.5	1913.0	2021.8	2124.3	2215.4	2295.8	2366.3	13.1%
Total Parked Stock	1152.2	1296.5	1381.7	1581.4	1834.0	2040.8	2180.7	2314.6	2432.6	2607.4	2846.3	3102.4	3361.4	3562.9	5.4%
Aircraft Cargo Stock															
Narrow Body Aircraft	1294.1	1279.7	1250.5	1205.8	1155.2	1153.4	1209.7	1290.2	1391.6	1443.1	1437.7	1412.5	1380.4	1380.4	3.2%
Wide Body Aircraft	415.4	387.3	357.4	329.9	307.5	291.9	289.6	295.1	297.5	290.4	275.9	253.9	226.2	215.1	-4.0%
Total Cargo Stock	1709.5	1667.0	1607.9	1535.7	1462.7	1445.3	1499.3	1585.3	1689.0	1733.5	1713.6	1666.4	1606.6	1595.5	1.0%
Advanced Technology Penetration															
Ultra-high Bypass	0.99	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	27.1%
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	0.00	N/A
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	1.00	23.6%

Table 56. Air Travel Energy Use

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
New Aircraft Efficiency 3/															
Narrow Body Aircraft	80.5	80.8	80.9	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	0.9%
Wide Body Aircraft	78.8	79.1	79.2	79.3	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.6	0.9%
Regional Jets	53.1	53.2	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0.9%
Average Aircraft	69.2	69.5	69.6	69.7	69.6	69.6	69.6	69.6	69.7	69.7	69.8	69.8	69.8	69.8	0.9%
Aircraft Stock Efficiency 3/															
Narrow Body Aircraft	66.8	67.6	68.4	69.4	70.4	71.5	72.6	73.8	74.9	76.1	77.2	78.2	79.0	79.8	1.2%
Wide Body Aircraft	66.6	67.9	69.0	70.3	71.5	72.8	74.0	75.0	75.8	76.6	77.3	78.0	78.4	78.8	1.3%
Regional Jets	45.1	45.8	46.4	47.0	47.7	48.5	49.2	49.8	50.4	51.0	51.5	51.9	52.3	52.6	0.9%
Average Aircraft	63.7	64.6	65.4	66.4	67.4	68.5	69.6	70.6	71.6	72.6	73.5	74.3	75.0	75.6	1.2%
Fuel Consumption (trillion Btu)															
Commercial															
Jet Fuel	3846.6	3883.8	3927.4	3936.3	3943.9	3948.9	3955.4	3962.1	3970.8	3982.1	3996.5	4015.8	4041.1	4073.8	1.5%
Aviation Gasoline	32.2	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	-0.4%
Military															
Jet Fuel	595.4	599.1	602.8	606.2	609.3	612.2	614.8	617.3	619.5	621.7	623.7	625.5	627.3	629.0	0.5%

Table 56. Air Travel Energy Use

1/ Fraction of seats filled.

2/ 1992 cents per passenger mile.

3/ Seat miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using: Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Model Maintenance Re-Estimation of the Air Travel Demand Model, Subtask 22-1(a), (September 30, 1997); Federal Aviation Administration (FAA), FAA Aviation Forecasts, Fiscal Years 1998-2009, FAA-APO 98-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; U.S. Department of Transportation, RSPA, Air Carrier Financial Statistics Quarterly, December 1999/1998; U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 1999/1998 (Washington, DC, 1999); Greene, D.L., "Energy Efficiency Improvement Potential of Commercial Aircraft to 2010," ORNL-6622, 6/1990; Rathi, A. B. Peterson, and D. Greene, Air Transport Energy Use Model, Oak Ridge National Laboratory, April 1991, Draft; Energy Information Administration (EIA), State Energy Data Report 2002, DOE/EIA-0214(2002) (Washington, DC, December 2005); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 57. Freight Transportation Energy Use

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	34.86	34.92	35.12	35.80	36.35	36.70	37.46	38.31	39.16	40.08	41.01	42.03	43.08
Motor Gasoline	14.31	13.85	13.59	13.34	13.03	12.63	12.42	12.32	12.26	12.27	12.29	12.37	12.46
Liquefied Petroleum Gases	0.40	0.39	0.39	0.40	0.42	0.44	0.46	0.47	0.47	0.47	0.46	0.46	0.45
Compressed Natural Gas	0.12	0.17	0.24	0.32	0.42	0.53	0.64	0.75	0.85	0.94	1.02	1.10	1.18
Medium Subtotal	49.70	49.33	49.33	49.86	50.22	50.30	50.98	51.85	52.74	53.76	54.79	55.96	57.17
Heavy													
Diesel	174.20	178.09	184.02	189.07	192.67	196.79	201.02	206.07	211.45	216.80	221.80	227.30	233.05
Motor Gasoline	1.83	1.84	1.89	1.92	1.93	1.94	1.96	1.99	2.04	2.08	2.13	2.18	2.24
Liquefied Petroleum Gases	0.09	0.11	0.14	0.16	0.18	0.20	0.21	0.22	0.22	0.22	0.22	0.21	0.21
Compressed Natural Gas	0.14	0.20	0.29	0.37	0.45	0.56	0.64	0.72	0.79	0.84	0.88	0.92	0.95
Heavy Subtotal	176.25	180.24	186.34	191.52	195.23	199.49	203.83	209.00	214.49	219.94	225.02	230.61	236.44
Total Vehicle Miles Traveled	225.95	229.57	235.67	241.38	245.45	249.79	254.81	260.85	267.23	273.70	279.81	286.58	293.62
Consumption (trillion Btu)													
Medium													
Diesel	524.12	523.23	525.11	534.57	542.29	547.18	558.15	570.54	582.77	596.10	609.31	623.98	639.00
Motor Gasoline	209.48	202.10	197.69	193.68	188.89	182.56	179.18	177.25	175.98	175.60	175.51	176.03	176.80
Liquefied Petroleum Gases	7.61	7.24	7.04	7.15	7.35	7.57	7.77	7.88	7.85	7.80	7.69	7.57	7.44
Compressed Natural Gas	1.89	2.66	3.74	5.05	6.62	8.39	10.12	11.81	13.31	14.74	16.06	17.31	18.44
Medium Subtotal	743.11	735.23	733.59	740.45	745.14	745.70	755.23	767.47	779.91	794.24	808.57	824.89	841.68
Heavy													
Diesel	3920.47	3999.12	4127.27	4236.87	4314.41	4401.73	4488.50	4586.70	4685.34	4773.79	4843.93	4915.83	4990.53
Motor Gasoline	31.93	31.98	32.76	33.05	33.11	33.20	33.44	33.97	34.63	35.34	36.06	36.92	37.88
Liquefied Petroleum Gases	1.49	1.93	2.40	2.77	3.09	3.45	3.65	3.77	3.80	3.77	3.70	3.61	3.53
Compressed Natural Gas	2.36	3.44	4.94	6.31	7.80	9.61	11.04	12.39	13.52	14.43	15.14	15.76	16.29
Heavy Subtotal	3956.25	4036.47	4167.37	4279.01	4358.41	4447.99	4536.62	4636.84	4737.28	4827.34	4898.82	4972.11	5048.24
Medium and Heavy Total													
Diesel	4444.59	4522.35	4652.38	4771.44	4856.70	4948.91	5046.65	5157.24	5268.11	5369.89	5453.24	5539.81	5629.53
Motor Gasoline	241.42	234.08	230.46	226.73	221.99	215.76	212.62	211.23	210.61	210.95	211.57	212.94	214.68
Liquefied Petroleum Gases	9.10	9.16	9.44	9.93	10.44	11.03	11.42	11.65	11.65	11.57	11.38	11.18	10.98
Compressed Natural Gas	4.24	6.11	8.68	11.36	14.42	18.00	21.17	24.20	26.82	29.17	31.20	33.06	34.73
Total	4699.35	4771.70	4900.96	5019.46	5103.55	5193.69	5291.85	5404.31	5517.20	5621.58	5707.39	5797.00	5889.92
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.36	8.37	8.39	8.40	8.41	8.42	8.43	8.44	8.44	8.45	8.45	8.45	8.46
Motor Gasoline	8.53	8.56	8.58	8.59	8.61	8.63	8.66	8.68	8.70	8.73	8.75	8.78	8.81
Liquefied Petroleum Gases	6.68	6.78	6.88	6.98	7.08	7.17	7.25	7.33	7.39	7.45	7.50	7.56	7.61
Compressed Natural Gas	7.85	7.88	7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.97	7.98	7.98
Medium Average	8.39	8.41	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50	8.50	8.51	8.52
Heavy													
Diesel	5.56	5.57	5.58	5.58	5.59	5.59	5.60	5.62	5.64	5.68	5.73	5.78	5.84
Motor Gasoline	7.16	7.20	7.23	7.26	7.27	7.30	7.31	7.33	7.35	7.37	7.38	7.40	7.41
Liquefied Petroleum Gases	7.16	7.20	7.22	7.24	7.26	7.28	7.28	7.29	7.30	7.30	7.30	7.30	7.31
Compressed Natural Gas	7.22	7.24	7.25	7.26	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.57	5.58	5.59	5.60	5.60	5.61	5.62	5.64	5.66	5.70	5.74	5.80	5.86
Average	6.01	6.02	6.01	6.01	6.02	6.02	6.02	6.04	6.06	6.09	6.13	6.18	6.23
Stock (millions)													
Medium													

Table 57. Freight Transportation Energy Use

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Diesel	2.20	2.28	2.36	2.42	2.47	2.54	2.60	2.67	2.74	2.80	2.86	2.93	2.99
Motor Gasoline	1.93	1.90	1.87	1.83	1.80	1.77	1.74	1.71	1.69	1.67	1.65	1.63	1.62
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
Compressed Natural Gas	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.08
Medium Subtotal	4.19	4.24	4.30	4.32	4.34	4.39	4.43	4.48	4.53	4.58	4.63	4.69	4.74
Heavy													
Diesel	4.43	4.61	4.82	4.92	5.03	5.19	5.31	5.46	5.61	5.74	5.88	6.02	6.16
Motor Gasoline	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.28	0.27	0.27	0.27	0.27	0.27
Liquefied Petroleum Gases	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
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05
Heavy Subtotal	4.78	4.95	5.14	5.25	5.34	5.51	5.63	5.78	5.93	6.07	6.21	6.35	6.50
Total Stock	8.96	9.19	9.44	9.57	9.69	9.90	10.06	10.26	10.46	10.65	10.84	11.04	11.24
New Trucks by Size Class													
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.52	8.51	8.50	8.51	8.50	8.51	8.50	8.50	8.49	8.49	8.49	8.49	8.49
Motor Gasoline	8.95	8.94	8.94	8.93	8.95	8.97	8.99	9.01	9.03	9.06	9.09	9.13	9.18
Liquefied Petroleum Gases	7.98	7.98	7.98	7.98	8.02	8.06	8.13	8.19	8.25	8.30	8.34	8.39	8.42
Compressed Natural Gas	7.96	7.95	7.94	7.94	7.95	7.97	7.98	7.99	8.00	8.00	8.00	8.00	8.00
Medium Average	8.60	8.59	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.58	8.58	8.59	8.60
Heavy													
Diesel	5.65	5.63	5.61	5.62	5.62	5.65	5.69	5.76	5.83	5.94	6.07	6.19	6.24
Motor Gasoline	7.50	7.50	7.50	7.50	7.51	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Liquefied Petroleum Gases	7.28	7.28	7.28	7.32	7.33	7.32	7.32	7.32	7.33	7.32	7.32	7.32	7.32
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	7.28	7.28	7.28	7.28	7.28
Heavy Average	5.66	5.64	5.63	5.64	5.65	5.67	5.71	5.78	5.85	5.97	6.09	6.21	6.26
Average	6.02	5.98	5.94	5.98	5.99	5.99	6.05	6.11	6.17	6.28	6.40	6.51	6.55
Sales (millions)													
Medium													
Diesel	0.14	0.16	0.16	0.14	0.14	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18
Motor Gasoline	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.21	0.22	0.22	0.20	0.20	0.23	0.22	0.24	0.24	0.24	0.25	0.25	0.26
Heavy													
Diesel	0.31	0.36	0.39	0.30	0.30	0.37	0.34	0.37	0.38	0.38	0.38	0.39	0.40
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	0.02
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	0.00	0.00	0.01	0.00	0.01	0.01	0.01
Heavy Subtotal	0.32	0.37	0.40	0.32	0.32	0.39	0.36	0.39	0.40	0.40	0.40	0.41	0.42
Total Sales	0.53	0.60	0.63	0.52	0.52	0.62	0.58	0.63	0.64	0.64	0.65	0.67	0.67
Railroads													
Ton Miles by Rail (billion)	1589.56	1590.41	1636.44	1651.41	1660.21	1679.35	1713.60	1759.19	1784.09	1810.05	1841.16	1864.34	1900.13
Fuel Efficiency (ton miles per thousand Btu)	2.91	2.91	2.92	2.92	2.92	2.92	2.93	2.93	2.93	2.94	2.94	2.94	2.95
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	546.26	546.01	561.25	565.79	568.21	574.16	585.27	600.22	608.08	616.28	626.22	633.44	644.92
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

Table 57. Freight Transportation Energy Use

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Domestic Shipping													
Ton Miles Shipping (billion)	618.16	613.25	603.51	628.29	643.65	653.41	661.43	667.66	678.01	681.63	692.90	698.78	703.20
Fuel Efficiency (ton miles per thousand Btu)	2.40	2.40	2.41	2.41	2.41	2.41	2.41	2.42	2.42	2.42	2.42	2.43	2.43
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	183.02	180.40	182.33	188.23	191.28	192.67	193.56	195.19	198.01	198.85	201.93	203.43	204.50
Residual Fuel Oil	74.49	74.83	68.89	72.91	75.90	78.28	80.49	81.20	82.42	82.81	84.14	84.81	85.30
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)	2272.40	2421.66	2604.04	2751.33	2915.42	3110.07	3307.00	3523.43	3732.09	3952.99	4195.90	4447.60	4732.91
Exports (billion 2000 dollars)	784.35	843.20	927.35	1010.85	1100.50	1196.84	1288.90	1393.29	1511.26	1638.62	1775.39	1916.78	2079.80
Imports (billion 2000 dollars)	1488.05	1578.46	1676.68	1740.48	1814.93	1913.23	2018.10	2130.14	2220.83	2314.36	2420.51	2530.83	2653.10
Fuel Consumption (trillion Btu)													
Distillate Fuel Oil (diesel)	45.63	49.73	49.91	49.95	50.00	50.06	50.11	50.19	50.26	50.33	50.40	50.47	50.55
Residual Fuel Oil	643.44	714.67	653.33	670.32	687.40	704.66	721.94	723.43	724.82	726.20	727.62	729.01	730.49

Table 57. Freight Transportation Energy Use

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Existing Trucks by Size Class															
Vehicle Miles Traveled (billion miles)															
Medium															
Diesel	43.95	44.80	45.83	46.95	48.06	49.24	50.42	51.68	53.08	54.49	55.91	57.32	58.70	60.12	2.2%
Motor Gasoline	12.51	12.57	12.69	12.85	13.01	13.21	13.41	13.63	13.90	14.19	14.47	14.76	15.05	15.36	0.4%
Liquefied Petroleum Gases	0.45	0.44	0.44	0.44	0.45	0.46	0.47	0.48	0.50	0.51	0.53	0.55	0.56	0.58	1.6%
Compressed Natural Gas	1.24	1.29	1.35	1.41	1.47	1.53	1.59	1.64	1.70	1.76	1.82	1.88	1.93	1.99	10.4%
Medium Subtotal	58.15	59.11	60.32	61.66	62.99	64.44	65.89	67.44	69.18	70.95	72.74	74.51	76.25	78.05	1.9%
Heavy															
Diesel	237.74	242.23	247.37	252.94	258.35	263.91	269.30	275.02	281.53	288.21	294.94	301.49	307.91	314.59	2.3%
Motor Gasoline	2.30	2.35	2.41	2.48	2.55	2.62	2.69	2.77	2.85	2.94	3.03	3.12	3.20	3.29	2.4%
Liquefied Petroleum Gases	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	3.0%
Compressed Natural Gas	0.97	0.99	1.01	1.03	1.06	1.08	1.09	1.11	1.13	1.16	1.18	1.20	1.22	1.25	7.6%
Heavy Subtotal	241.21	245.77	251.00	256.65	262.15	267.81	273.29	279.11	285.72	292.52	299.37	306.03	312.56	319.36	2.3%
Total Vehicle Miles Traveled	299.36	304.88	311.31	318.31	325.15	332.25	339.18	346.55	354.90	363.48	372.11	380.53	388.81	397.41	2.2%
Consumption (trillion Btu)															
Medium															
Diesel	651.38	663.46	678.17	694.34	710.38	727.52	744.66	762.87	783.25	803.93	824.67	844.92	864.88	885.42	2.1%
Motor Gasoline	176.95	177.18	178.29	179.91	181.64	183.81	186.14	188.85	192.20	195.72	199.35	203.03	206.74	210.68	0.2%
Liquefied Petroleum Gases	7.29	7.17	7.11	7.12	7.16	7.24	7.38	7.54	7.72	7.92	8.12	8.33	8.54	8.75	0.8%
Compressed Natural Gas	19.41	20.29	21.20	22.14	23.05	23.98	24.86	25.75	26.68	27.61	28.53	29.42	30.28	31.16	10.3%
Medium Subtotal	855.02	868.09	884.78	903.51	922.22	942.55	963.04	985.01	1009.85	1035.16	1060.67	1085.70	1110.44	1136.01	1.8%
Heavy															
Diesel	5039.04	5081.46	5141.45	5213.57	5285.85	5364.84	5443.36	5531.15	5636.80	5747.92	5861.70	5973.64	6079.53	6191.84	1.8%
Motor Gasoline	38.74	39.61	40.62	41.74	42.86	44.02	45.18	46.41	47.79	49.22	50.67	52.11	53.55	55.05	2.2%
Liquefied Petroleum Gases	3.46	3.40	3.38	3.39	3.41	3.45	3.48	3.53	3.58	3.64	3.77	3.84	3.91	3.91	2.9%
Compressed Natural Gas	16.69	17.03	17.38	17.77	18.15	18.51	18.82	19.14	19.50	19.90	20.30	20.69	21.05	21.43	7.6%
Heavy Subtotal	5097.92	5141.49	5202.83	5276.46	5350.27	5430.81	5510.84	5600.22	5707.67	5820.67	5936.38	6050.22	6157.96	6272.23	1.8%
Medium and Heavy Total															
Diesel	5690.41	5744.92	5819.62	5907.91	5996.23	6092.36	6188.02	6294.03	6420.06	6551.85	6686.37	6818.56	6944.41	7077.26	1.8%
Motor Gasoline	215.68	216.78	218.91	221.65	224.49	227.83	231.31	235.25	239.98	244.93	250.02	255.14	260.29	265.73	0.5%
Liquefied Petroleum Gases	10.75	10.57	10.49	10.50	10.57	10.69	10.87	11.06	11.29	11.55	11.83	12.10	12.37	12.66	1.3%
Compressed Natural Gas	36.10	37.31	38.58	39.91	41.20	42.48	43.68	44.89	46.18	47.50	48.83	50.11	51.33	52.58	9.0%
Total	5952.95	6009.58	6087.60	6179.97	6272.50	6373.36	6473.88	6585.23	6717.52	6855.83	6997.05	7135.92	7288.40	7408.24	1.8%
Fuel Efficiency (gasoline equivalent MPG)															
Medium															
Diesel	8.46	8.46	8.47	8.47	8.47	8.47	8.47	8.48	8.48	8.48	8.48	8.49	8.49	8.50	0.1%
Motor Gasoline	8.84	8.87	8.89	8.92	8.95	8.97	8.99	9.01	9.03	9.04	9.06	9.07	9.09	9.10	0.2%
Liquefied Petroleum Gases	7.67	7.72	7.78	7.83	7.88	7.93	7.97	8.01	8.05	8.08	8.11	8.14	8.17	8.19	0.8%
Compressed Natural Gas	7.98	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	8.00	8.00	8.00	8.00	8.00	0.1%
Medium Average	8.53	8.54	8.54	8.55	8.56	8.56	8.57	8.57	8.58	8.58	8.58	8.59	8.60	8.61	0.1%
Heavy															
Diesel	5.90	5.96	6.02	6.07	6.11	6.15	6.19	6.22	6.25	6.27	6.29	6.31	6.33	6.35	0.5%
Motor Gasoline	7.42	7.43	7.44	7.44	7.45	7.45	7.46	7.46	7.47	7.47	7.48	7.48	7.48	7.48	0.2%
Liquefied Petroleum Gases	7.31	7.31	7.31	7.31	7.31	7.32	7.32	7.33	7.34	7.34	7.35	7.35	7.36	7.37	0.1%
Compressed Natural Gas	7.27	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	5.92	5.98	6.03	6.08	6.13	6.17	6.20	6.23	6.26	6.29	6.31	6.33	6.35	6.37	0.5%
Average	6.29	6.35	6.40	6.44	6.48	6.52	6.55	6.58	6.61	6.63	6.65	6.67	6.69	6.71	0.4%
Stock (millions)															
Medium															

Table 57. Freight Transportation Energy Use

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Diesel	3.05	3.11	3.18	3.24	3.30	3.36	3.41	3.47	3.52	3.58	3.64	3.69	3.74	3.79	2.1%
Motor Gasoline	1.61	1.60	1.59	1.58	1.58	1.58	1.57	1.57	1.58	1.58	1.58	1.59	1.59	1.60	-0.7%
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	0.05	0.3%
Compressed Natural Gas	0.09	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	10.8%
Medium Subtotal	4.80	4.86	4.91	4.98	5.04	5.10	5.16	5.22	5.28	5.35	5.41	5.48	5.54	5.60	1.1%
Heavy															
Diesel	6.30	6.43	6.56	6.69	6.81	6.92	7.03	7.14	7.24	7.34	7.44	7.54	7.63	7.71	2.1%
Motor Gasoline	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.32	0.32	0.0%
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	0.02	4.7%
Compressed Natural Gas	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	10.2%
Heavy Subtotal	6.64	6.78	6.92	7.05	7.18	7.30	7.41	7.53	7.64	7.75	7.85	7.95	8.05	8.14	2.0%
Total Stock	11.44	11.64	11.83	12.03	12.22	12.40	12.58	12.75	12.92	13.09	13.27	13.43	13.59	13.74	1.6%
New Trucks by Size Class															
Fuel Efficiency (gasoline equivalent MPG)															
Medium															
Diesel	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.50	8.56	8.56	8.56	0.0%
Motor Gasoline	9.22	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	8.45	8.47	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	0.2%
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	8.00	0.0%
Medium Average	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.66	8.66	8.67	0.0%
Heavy															
Diesel	6.31	6.38	6.39	6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.46	6.46	6.52	6.52	0.6%
Motor Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	0.0%
Liquefied Petroleum Gases	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.38	7.38	7.38	7.38	7.38	7.40	7.40	0.1%
Compressed Natural Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	0.0%
Heavy Average	6.33	6.40	6.40	6.41	6.42	6.43	6.45	6.46	6.47	6.47	6.48	6.48	6.53	6.53	0.6%
Average	6.62	6.68	6.69	6.70	6.71	6.72	6.74	6.75	6.76	6.76	6.76	6.77	6.82	6.82	0.5%
Sales (millions)															
Medium															
Diesel	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	1.1%
Motor Gasoline	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.9%
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	0.00	1.4%
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	0.01	4.6%
Medium Subtotal	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	1.1%
Heavy															
Diesel	0.40	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.44	0.44	0.8%
Motor Gasoline	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	0.02	1.9%
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	0.00	-0.4%
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	0.01	3.4%
Heavy Subtotal	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.45	0.46	0.46	0.46	0.46	0.47	0.9%
Total Sales	0.69	0.69	0.70	0.71	0.72	0.71	0.71	0.72	0.73	0.74	0.75	0.75	0.76	0.76	1.0%
Railroads															
Ton Miles by Rail (billion)	1921.04	1936.67	1963.88	2000.09	2040.50	2085.98	2125.34	2167.88	2223.18	2274.66	2315.64	2360.66	2401.76	2444.64	1.7%
Fuel Efficiency (ton miles per thousand Btu)	2.95	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)	651.33	655.93	664.44	675.97	688.90	703.50	716.01	729.56	747.38	763.87	776.81	791.07	803.98	817.46	1.6%
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	0.00	N/A
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	0.00	N/A

Table 57. Freight Transportation Energy Use

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Domestic Shipping															
Ton Miles Shipping (billion)	707.25	714.08	723.89	730.37	736.52	741.56	745.20	747.81	750.86	754.94	760.09	765.78	771.35	774.97	0.9%
Fuel Efficiency (ton miles per thousand Btu)	2.43	2.43	2.44	2.44	2.44	2.44	2.45	2.45	2.45	2.45	2.46	2.46	2.46	2.46	0.1%
Fuel Consumption (trillion Btu)															
Distillate Fuel Oil (diesel)	205.46	207.23	209.85	211.50	213.06	214.29	215.11	215.63	216.28	217.23	218.48	219.88	221.24	222.04	0.8%
Residual Fuel Oil	85.74	86.53	87.67	88.42	89.12	89.68	90.08	90.36	90.68	91.14	91.72	92.36	92.99	93.39	0.9%
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	0.00	N/A
International Shipping															
Gross Trade (billion 2000 dollars)	5050.94	5362.94	5692.06	6059.96	6445.50	6851.24	7285.32	7749.76	8245.48	8775.78	9338.33	9927.28	10554.60	11220.46	6.3%
Exports (billion 2000 dollars)	2257.33	2419.40	2595.80	2789.41	2994.88	3207.97	3434.42	3674.71	3930.04	4200.93	4486.77	4788.32	5105.36	5438.98	7.7%
Imports (billion 2000 dollars)	2793.62	2943.54	3096.26	3270.56	3450.61	3643.27	3850.90	4075.06	4315.45	4574.84	4851.57	5138.96	5449.24	5781.48	5.3%
Fuel Consumption (trillion Btu)															
Distillate Fuel Oil (diesel)	50.63	50.70	50.77	50.85	50.92	50.99	51.07	51.14	51.22	51.29	51.37	51.44	51.51	51.59	0.1%
Residual Fuel Oil	732.02	733.48	734.93	736.44	737.94	739.43	740.95	742.48	744.02	745.58	747.13	748.67	750.21	751.75	0.2%

Table 57. Freight Transportation Energy Use

MPG = Miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2004 and 2005 values derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 25 and Annual (Oak Ridge, TN, 2006); 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 2002 (Washington, DC, November 2003); and Energy Information Administration (EIA), AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Car													
Unit Body Construction	94.21	94.43	94.20	93.49	93.22	94.39	95.14	95.17	95.23	95.25	95.20	95.30	95.32
Material Substitution II	49.31	49.25	51.95	55.85	58.50	69.35	71.12	69.98	69.47	69.20	68.76	68.22	67.70
Material Substitution III	1.09	1.68	3.35	5.75	8.63	17.23	26.32	27.45	27.46	27.46	27.46	27.47	27.47
Material Substitution IV	0.00	0.00	0.03	0.16	0.40	0.86	1.61	2.32	2.90	3.21	3.70	4.17	4.52
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.14	0.31
Drag Reduction II	54.19	53.97	57.47	60.21	53.01	30.42	16.42	12.45	10.11	9.82	7.95	7.51	7.12
Drag Reduction III	2.56	3.91	9.77	19.95	28.25	41.90	46.57	46.75	47.43	46.79	47.05	46.27	45.45
Drag Reduction IV	0.77	1.43	3.66	7.92	14.14	27.67	36.93	40.38	41.21	41.23	41.63	41.63	41.62
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.42	1.24	2.16	3.37	4.59	5.81
Roll-Over Technology	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	17.89	21.99	34.92	45.63	51.15	57.18	61.55	64.94	67.81	69.68	72.55	72.87	73.65
Early Torque Converter Lockup	1.83	3.80	11.53	21.36	30.10	43.00	51.15	55.70	58.31	59.20	61.45	63.17	63.40
Aggressive Shift Logic	4.77	5.00	6.30	9.25	13.07	23.09	32.52	33.13	33.09	33.08	33.12	33.03	33.02
4-Speed Automatic	66.77	66.11	65.72	65.89	64.64	59.70	57.96	56.40	55.68	55.43	55.18	54.72	54.54
5-Speed Automatic	10.49	10.54	10.76	11.11	11.27	11.40	11.59	11.67	11.69	11.69	11.77	11.71	11.69
6-Speed Automatic	0.02	0.12	0.30	0.54	0.84	1.36	1.89	2.39	2.63	2.70	2.83	2.93	2.98
6-Speed Manual	1.46	1.72	2.37	3.10	3.75	4.98	5.82	5.93	5.98	5.98	5.97	6.01	6.02
CVT	0.46	0.70	1.09	1.52	1.99	3.01	4.07	4.40	4.51	4.66	4.79	4.81	4.84
Automated Manual Trans	0.00	0.00	0.04	0.28	1.54	5.66	7.70	9.54	9.82	9.90	9.90	10.11	10.19
Roller Cam	95.70	95.77	96.79	97.50	98.00	99.11	99.44	99.49	99.54	99.54	99.54	99.54	99.54
OHC/AdvOHV-4 Cylinder	2.08	2.13	1.76	1.13	1.08	1.09	1.10	1.11	1.13	1.14	1.12	1.15	1.16
OHC/AdvOHV-6 Cylinder	4.63	4.39	4.02	3.23	2.91	2.88	2.48	2.47	2.43	2.43	2.45	2.40	2.39
OHC/AdvOHV-8 Cylinder	2.78	2.70	2.78	3.01	3.09	3.03	2.96	2.93	2.90	2.89	2.91	2.86	2.86
4-Valve/4-Cylinder	51.11	51.65	51.33	49.84	49.10	49.25	49.41	49.51	49.75	49.79	49.63	50.03	50.10
4-Valve/6-Cylinder	21.78	21.73	22.40	24.15	24.83	24.79	25.11	25.08	24.99	24.98	25.03	24.89	24.87
4-Valve/8-Cylinder	8.84	8.82	9.32	10.16	10.38	10.37	10.37	10.35	10.28	10.26	10.31	10.20	10.17
5-Valve/6-Cylinder	2.39	2.39	2.42	2.50	2.52	2.51	2.51	2.51	2.50	2.50	2.51	2.49	2.49
VVT-4 Cylinder	24.28	27.87	35.64	44.71	46.10	47.73	48.13	48.10	48.14	47.99	47.60	47.77	47.53
VVT-6 Cylinder	3.95	4.19	5.01	6.90	7.72	9.40	11.55	11.79	11.77	11.75	11.76	11.71	11.70
VVT-8 Cylinder	1.75	1.93	2.21	2.72	3.07	3.89	4.84	5.01	4.81	4.66	4.50	4.33	4.25
VVL-4 Cylinder	7.61	8.00	9.73	14.92	15.71	16.20	16.86	17.03	17.05	17.04	17.00	17.04	17.04
VVL-6 Cylinder	1.22	1.64	2.41	3.74	4.43	4.75	5.16	5.29	5.32	5.33	5.38	5.35	5.33
VVL-8 Cylinder	1.45	1.64	1.92	2.12	2.18	2.21	2.24	2.18	2.09	2.00	1.91	1.83	1.82
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.34	0.58	0.84	1.12	1.41	1.81
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.02	0.14	0.32	0.55	0.82	1.07	1.35	1.69	1.99
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.02	0.12	0.27	0.46	0.68	0.88	1.06	1.31	1.46	1.56
Cylinder Deactivation	0.02	0.14	0.35	0.66	1.07	1.56	1.97	2.21	2.34	2.36	2.48	2.57	2.68
Turbocharging/Supercharging	0.57	0.83	1.21	1.73	2.02	2.21	2.43	2.53	2.60	2.65	2.73	2.75	2.77
Engine Friction Reduction I	71.09	71.13	64.18	53.92	47.54	32.41	21.81	17.24	13.96	12.82	11.30	10.32	9.61
Engine Friction Reduction II	23.51	25.03	35.19	46.08	52.40	67.02	75.38	76.38	76.25	76.22	76.09	75.48	74.96
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.06	0.57	2.81	6.37	9.79	10.96	12.61	14.20	15.38
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	0.00	0.04
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.02	0.16	0.39	0.85	1.56	2.22	2.75	3.33	3.90	4.41	4.76
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.02	0.14	0.32	0.63	1.06	1.46	1.81	2.18	2.55	2.90	3.16
Lean Burn GDI	0.00	0.00	0.03	0.18	0.48	1.15	2.23	3.07	3.63	3.81	4.22	4.63	4.90
5W-30 Engine Oil	41.79	41.69	42.11	46.65	50.15	60.93	57.71	53.24	50.27	49.71	48.39	47.26	46.12
5W-20 Engine Oil	0.35	1.08	3.81	10.28	18.78	30.53	40.07	45.02	48.47	49.18	50.97	52.30	53.64
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	0.12	0.30	0.54	0.88	1.42	2.02	2.44	2.75	2.93	3.15	3.34	3.50
Improved Alternator	0.00	0.03	0.18	0.48	0.91	1.88	3.13	3.94	4.39	4.47	4.80	5.01	5.23
Improved Oil/Water Pump	2.43	3.82	9.72	19.96	28.28	42.20	52.51	55.55	56.91	56.94	58.04	57.97	57.96
Electric Oil/Water Pump	0.00	0.00	0.00	0.03	0.16	0.45	0.92	1.47	1.99	2.35	2.83	3.28	3.75

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Tires II	57.61	57.38	64.20	71.49	76.18	81.76	75.19	69.14	65.34	63.79	60.50	58.66	56.56
Tires III	0.00	0.06	0.45	2.16	6.35	16.05	24.81	30.86	34.66	36.21	39.50	41.27	43.07
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.36
Front Wheel Drive	83.93	83.91	83.95	83.99	84.03	84.13	84.24	84.26	84.26	84.26	84.26	84.26	84.26
Four Wheel Drive Improvements	0.51	0.72	1.18	1.74	2.24	3.03	3.52	3.52	3.52	3.52	3.52	3.53	3.53
42V-Launch Assist and Regen	0.00	0.00	0.02	0.11	0.24	0.41	0.64	0.89	1.10	1.31	1.49	1.69	1.84
42V-Engine Off at Idle	0.00	0.02	0.11	0.24	0.41	0.64	0.89	1.10	1.31	1.49	1.70	1.84	1.99
Tier 2 Emissions Technology	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12
Light Truck													
Unit Body Construction	11.59	11.76	13.38	16.54	24.84	24.65	24.67	24.75	24.68	24.68	24.68	24.73	24.73
Material Substitution II	29.87	30.19	32.06	38.09	62.92	63.48	64.52	62.07	61.95	61.78	61.53	61.27	61.00
Material Substitution III	0.36	0.68	1.57	2.90	13.18	14.90	20.15	32.24	32.22	32.22	32.23	32.22	32.22
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.28	0.50	0.84	1.20	1.58
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	40.45	41.66	52.27	54.16	33.65	26.04	12.17	0.00	0.00	0.00	0.00	0.00	0.00
Drag Reduction III	8.01	11.50	22.44	32.13	59.14	60.21	65.92	67.81	66.99	65.75	62.97	60.36	57.49
Drag Reduction IV	0.00	0.00	0.09	0.44	7.21	13.75	21.91	32.19	33.01	34.25	36.98	39.45	41.95
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18	0.56
Roll-Over Technology	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.00	0.19	1.60	5.99	21.97	29.85	38.45	47.21	53.73	60.33	66.56	72.56	77.98
Early Torque Converter Lockup	0.00	0.00	0.19	1.31	11.81	19.52	28.67	37.96	42.41	47.38	53.58	58.56	63.46
Aggressive Shift Logic	0.00	0.00	0.07	0.29	4.18	9.12	16.76	26.71	26.70	27.02	28.44	29.36	30.09
4-Speed Automatic	86.36	86.12	85.10	83.64	77.13	76.81	75.23	70.78	70.64	70.40	69.83	69.19	68.56
5-Speed Automatic	6.27	6.40	7.00	7.53	11.85	11.94	13.09	16.24	16.19	16.19	16.20	16.20	16.19
6-Speed Automatic	0.00	0.00	0.00	0.00	0.16	0.34	0.71	1.53	1.71	1.91	2.25	2.80	3.20
6-Speed Manual	0.69	0.94	1.59	2.48	4.95	4.96	5.02	5.49	5.49	5.49	5.50	5.47	5.47
CVT	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.11	0.12	0.14	0.16	0.20	0.24
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.17	0.43	0.76	1.19	1.57	1.84
Roller Cam	87.33	89.29	91.78	93.94	98.05	99.06	99.99	100.00	100.00	100.00	100.00	100.00	100.00
OHC/AdvOHV-4 Cylinder	0.82	0.64	0.36	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OHC/AdvOHV-6 Cylinder	30.75	28.87	25.14	18.35	14.37	14.32	14.31	11.89	11.86	11.86	11.86	11.87	11.87
OHC/AdvOHV-8 Cylinder	40.26	39.74	36.31	29.77	22.54	22.54	22.55	20.38	20.39	20.40	20.39	20.41	20.41
4-Valve/4-Cylinder	5.70	5.83	6.12	6.65	6.78	6.82	6.80	6.77	6.76	6.75	6.77	6.73	6.72
4-Valve/6-Cylinder	11.73	13.55	17.22	24.05	28.03	28.13	28.13	30.51	30.55	30.55	30.54	30.54	30.54
4-Valve/8-Cylinder	10.25	11.30	14.84	21.13	28.28	28.20	28.21	30.46	30.44	30.45	30.44	30.46	30.46
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	4.63	4.97	6.17	6.71	6.78	6.82	6.80	6.77	6.76	6.75	6.76	6.68	6.60
VVT-6 Cylinder	1.80	2.62	4.39	7.46	17.37	17.42	18.69	23.02	23.04	23.01	22.96	22.86	22.72
VVT-8 Cylinder	1.48	2.19	3.65	6.89	16.23	16.20	19.33	26.46	26.43	26.38	26.33	26.29	26.25
VVL-4 Cylinder	0.31	0.61	1.35	2.70	5.40	5.38	5.30	5.21	5.11	5.01	4.82	4.33	3.94
VVL-6 Cylinder	1.47	2.12	3.35	5.79	9.42	9.48	9.79	12.15	12.13	12.07	11.96	11.82	11.66
VVL-8 Cylinder	0.00	0.00	0.03	0.12	0.55	0.90	1.39	2.22	2.19	2.18	2.37	2.59	2.81
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.12
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.22	0.40	0.67
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.19	0.33	0.52	0.72
Cylinder Deactivation	0.03	0.10	0.28	0.56	2.45	3.39	5.30	9.04	9.03	9.03	9.03	9.03	9.03
Turbocharging/Supercharging	0.37	0.50	0.70	1.04	1.61	1.61	1.61	1.94	1.94	1.93	1.94	1.93	1.93
Engine Friction Reduction I	74.90	77.58	73.71	64.90	38.86	35.44	26.85	16.23	13.79	12.25	8.95	5.37	3.72
Engine Friction Reduction II	11.41	15.88	25.74	35.10	61.14	64.56	72.95	82.35	82.83	81.76	80.93	80.16	77.90
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.43	3.39	5.99	10.12	14.48	18.30

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	0.00	0.07
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.10	0.21	0.47	1.23	1.32	1.43	1.66	2.15	2.52
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.28	0.50	0.83	1.20	1.59
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.19	0.40	0.71	1.19	1.70	2.21
5W-30 Engine Oil	51.73	51.47	57.05	63.97	64.29	59.73	50.16	38.90	37.49	35.67	32.39	28.98	28.43
5W-20 Engine Oil	0.41	1.39	5.59	13.49	35.71	40.27	49.84	61.10	62.51	64.33	67.61	71.02	71.57
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	0.00	0.01	0.05	0.12	0.50	0.64	0.94	1.57	1.57	1.57	1.63	1.70	1.79
Improved Alternator	0.00	0.03	0.14	0.42	2.67	4.07	7.01	13.18	13.18	13.18	13.18	13.18	13.18
Improved Oil/Water Pump	8.08	11.61	22.56	32.25	59.29	62.39	70.72	80.92	81.71	81.71	81.71	81.71	81.71
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.17	0.39	0.92	2.30	2.71	3.11	3.78	4.46	5.15
Tires II	57.89	61.33	76.08	84.84	82.03	75.00	66.29	55.76	53.69	51.12	47.09	43.41	39.66
Tires III	0.00	0.09	0.55	2.94	17.97	25.00	33.71	44.24	46.31	48.88	52.91	56.49	59.95
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.39
Front Wheel Drive	4.60	4.72	4.39	4.01	3.80	3.93	3.95	3.93	4.03	4.04	4.00	4.09	4.11
Four Wheel Drive Improvements	0.97	1.37	2.46	4.47	16.69	18.89	22.66	32.64	32.56	32.55	32.57	32.55	32.54
42V-Launch Assist and Regen	0.00	0.00	0.02	0.08	0.18	0.57	0.78	1.07	1.43	1.51	1.68	1.86	2.04
42V-Engine Off at Idle	0.00	0.02	0.08	0.18	0.57	0.78	1.07	1.43	1.51	1.68	1.86	2.04	2.20
Tier 2 Emissions Technology	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05
Light-Duty Vehicle Total													
Unit Body Construction	51.23	53.05	53.43	56.37	59.94	59.86	59.66	59.19	58.78	58.42	57.93	57.68	57.39
Material Substitution II	39.19	39.71	41.92	47.28	60.65	66.44	67.79	65.94	65.58	65.33	64.94	64.52	64.10
Material Substitution III	0.71	1.18	2.45	4.38	10.84	16.08	23.21	29.90	29.92	29.95	29.98	30.00	30.02
Material Substitution IV	0.00	0.00	0.01	0.08	0.20	0.44	0.82	1.20	1.55	1.80	2.19	2.59	2.94
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14
Drag Reduction II	47.04	47.81	54.85	57.29	43.59	28.25	14.28	6.09	4.89	4.70	3.75	3.50	3.29
Drag Reduction III	5.40	7.71	16.16	25.82	43.28	50.96	56.31	57.51	57.54	56.68	55.46	53.78	51.92
Drag Reduction IV	0.37	0.72	1.86	4.31	10.77	20.78	29.37	36.19	36.97	37.59	39.17	40.47	41.80
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.21	0.60	1.03	1.61	2.24	2.99
Roll-Over Technology	0.00	12.49	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	12.49	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	8.58	11.08	18.12	26.51	36.95	43.65	49.92	55.88	60.53	64.80	69.38	72.70	75.98
Early Torque Converter Lockup	0.88	1.90	5.81	11.69	21.20	31.38	39.83	46.64	50.10	53.03	57.29	60.71	63.43
Aggressive Shift Logic	2.29	2.50	3.16	4.93	8.74	16.18	24.58	29.85	29.79	29.92	30.64	31.07	31.45
4-Speed Automatic	76.96	76.12	75.49	74.45	70.72	68.17	66.66	63.75	63.41	63.24	62.92	62.43	62.07
5-Speed Automatic	8.30	8.47	8.86	9.38	11.55	11.67	12.35	14.00	14.02	14.04	14.11	14.10	14.11
6-Speed Automatic	0.01	0.06	0.15	0.28	0.51	0.85	1.30	1.95	2.15	2.29	2.52	2.86	3.10
6-Speed Manual	1.06	1.33	1.98	2.80	4.33	4.97	5.41	5.71	5.73	5.73	5.72	5.72	5.72
CVT	0.22	0.35	0.54	0.79	1.03	1.53	2.05	2.21	2.24	2.30	2.34	2.36	2.37
Automated Manual Trans	0.00	0.00	0.02	0.14	0.79	2.86	3.83	4.75	4.97	5.13	5.29	5.56	5.71
Roller Cam	91.35	92.52	94.26	95.78	98.03	99.09	99.71	99.75	99.78	99.78	99.78	99.78	99.78
OHC/AdvOHV-4 Cylinder	1.43	1.38	1.05	0.61	0.55	0.55	0.55	0.54	0.55	0.54	0.53	0.54	0.53
OHC/AdvOHV-6 Cylinder	18.22	16.64	14.67	10.52	8.48	8.54	8.44	7.28	7.30	7.35	7.42	7.45	7.48
OHC/AdvOHV-8 Cylinder	22.28	21.24	19.69	15.92	12.56	12.69	12.83	11.84	11.93	12.03	12.15	12.22	12.29
4-Valve/4-Cylinder	27.49	28.71	28.53	29.01	28.50	28.24	27.96	27.67	27.54	27.33	26.98	26.95	26.79
4-Valve/6-Cylinder	16.55	17.63	19.79	24.10	26.39	26.44	26.63	27.85	27.86	27.88	27.95	27.90	27.91
4-Valve/8-Cylinder	9.58	10.06	12.10	15.45	19.09	19.20	19.35	20.62	20.70	20.80	20.95	21.00	21.08
5-Valve/6-Cylinder	1.15	1.19	1.20	1.29	1.29	1.27	1.25	1.23	1.21	1.20	1.18	1.16	1.15
VVT-4 Cylinder	14.06	16.41	20.78	26.38	26.96	27.47	27.32	26.99	26.76	26.47	26.02	25.86	25.54
VVT-6 Cylinder	2.83	3.40	4.70	7.17	12.41	13.37	15.15	17.53	17.59	17.63	17.68	17.65	17.62
VVT-8 Cylinder	1.61	2.06	2.94	4.73	9.47	9.98	12.13	15.97	15.98	16.00	16.03	16.04	16.07

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
VVL-4 Cylinder	3.81	4.30	5.50	9.03	10.69	10.84	11.04	10.99	10.88	10.76	10.56	10.26	10.00
VVL-6 Cylinder	1.35	1.88	2.88	4.73	6.86	7.09	7.49	8.80	8.84	8.85	8.85	8.80	8.73
VVL-8 Cylinder	0.70	0.82	0.97	1.16	1.39	1.56	1.82	2.20	2.14	2.09	2.15	2.23	2.35
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.17	0.28	0.40	0.54	0.69	0.90
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.01	0.07	0.16	0.27	0.41	0.56	0.75	1.00	1.28
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.01	0.06	0.14	0.23	0.35	0.47	0.60	0.79	0.96	1.11
Cylinder Deactivation	0.03	0.12	0.32	0.61	1.74	2.47	3.65	5.70	5.80	5.84	5.94	6.01	6.09
Turbocharging/Supercharging	0.47	0.66	0.95	1.40	1.82	1.91	2.02	2.23	2.26	2.28	2.31	2.31	2.32
Engine Friction Reduction I	73.07	74.36	68.99	59.21	43.32	33.91	24.35	16.72	13.87	12.52	10.06	7.68	6.45
Engine Friction Reduction II	17.21	20.45	30.42	40.79	56.65	65.80	74.16	79.43	79.65	79.11	78.65	77.97	76.54
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.03	0.29	1.49	3.85	6.48	8.37	11.29	14.35	16.95
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	0.00	0.06
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.01	0.08	0.25	0.53	1.01	1.71	2.01	2.34	2.72	3.21	3.56
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.01	0.07	0.16	0.32	0.55	0.78	1.02	1.30	1.65	2.00	2.32
Lean Burn GDI	0.00	0.00	0.01	0.09	0.25	0.58	1.13	1.60	1.96	2.19	2.62	3.07	3.46
5W-30 Engine Oil	46.96	46.59	49.65	55.00	57.03	60.34	53.91	45.91	43.67	42.39	39.93	37.52	36.62
5W-20 Engine Oil	0.38	1.24	4.71	11.83	27.02	35.35	44.99	53.24	55.73	57.09	59.76	62.28	63.28
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	0.01	0.07	0.17	0.34	0.69	1.03	1.48	1.99	2.14	2.22	2.34	2.47	2.58
Improved Alternator	0.00	0.03	0.16	0.45	1.77	2.96	5.08	8.66	8.93	9.02	9.23	9.36	9.50
Improved Oil/Water Pump	5.37	7.72	16.20	25.89	43.37	52.20	61.68	68.51	69.73	69.87	70.55	70.63	70.72
Electric Oil/Water Pump	0.00	0.00	0.00	0.01	0.16	0.42	0.92	1.89	2.36	2.75	3.33	3.91	4.51
Tires II	57.76	59.36	70.19	77.93	79.03	78.41	70.71	62.30	59.32	57.18	53.41	50.53	47.48
Tires III	0.00	0.07	0.50	2.54	12.00	20.48	29.29	37.70	40.68	42.82	46.59	49.39	52.14
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.38
Front Wheel Drive	42.66	44.27	43.82	45.41	44.99	44.43	43.82	43.22	42.81	42.39	41.85	41.52	41.19
Four Wheel Drive Improvements	0.75	1.05	1.83	3.06	9.27	10.88	13.15	18.40	18.52	18.67	18.87	19.00	19.12
42V-Launch Assist and Regen	0.00	0.00	0.02	0.09	0.21	0.49	0.71	0.98	1.27	1.41	1.59	1.78	1.95
42V-Engine Off at Idle	0.00	0.02	0.09	0.21	0.49	0.71	0.98	1.27	1.41	1.59	1.78	1.95	2.10
Tier 2 Emissions Technology	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Car															
Unit Body Construction	95.34	95.33	95.39	95.30	95.34	95.38	95.28	95.35	95.36	95.27	95.35	95.37	95.32	95.37	0.0%
Material Substitution II	67.14	66.60	66.01	65.55	65.04	64.27	63.75	63.27	62.71	62.45	62.19	61.80	61.69	61.59	0.9%
Material Substitution III	27.47	27.47	27.48	27.47	27.47	27.48	27.47	27.47	27.47	27.46	27.47	27.47	27.47	27.47	11.8%
Material Substitution IV	4.85	5.10	5.38	5.53	5.69	6.04	6.17	6.31	6.50	6.53	6.56	6.77	6.77	6.77	N/A
Material Substitution V	0.54	0.82	1.13	1.46	1.80	2.21	2.61	2.95	3.31	3.55	3.77	3.96	4.07	4.17	N/A
Drag Reduction II	6.74	6.32	5.95	5.40	5.09	4.74	4.32	4.18	3.97	3.81	3.84	3.76	3.73	3.76	-10.1%
Drag Reduction III	44.65	43.84	42.95	42.27	41.45	40.07	39.07	38.34	37.68	37.43	37.46	37.20	37.18	37.20	9.4%
Drag Reduction IV	41.61	41.62	41.58	41.64	41.62	41.59	41.65	41.61	41.61	41.67	41.62	41.61	41.65	41.61	14.4%
Drag Reduction V	6.99	8.21	9.52	10.68	11.84	13.60	14.96	15.88	16.73	17.09	17.08	17.42	17.44	17.42	N/A
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	100.00	5.7%
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	100.00	5.7%
Advanced Low Loss Torque Converter	74.10	74.11	74.02	74.17	74.10	74.04	74.20	74.08	74.21	74.35	74.23	74.45	74.53	74.45	5.0%
Early Torque Converter Lockup	63.84	64.20	64.13	64.24	64.20	64.28	64.47	64.61	65.06	65.18	65.08	65.38	65.44	65.38	12.0%
Aggressive Shift Logic	33.00	33.01	32.96	33.03	33.00	32.97	33.05	32.99	32.99	33.06	33.00	32.98	33.02	32.98	7.8%
4-Speed Automatic	54.39	54.38	54.09	54.29	54.19	54.01	54.26	54.02	53.90	54.15	53.95	53.80	53.95	53.81	-0.8%
5-Speed Automatic	11.69	11.70	11.67	11.71	11.69	11.68	11.71	11.68	11.68	11.72	11.69	11.69	11.71	11.69	0.4%
6-Speed Automatic	3.07	3.09	3.21	3.28	3.27	3.30	3.33	3.34	3.38	3.40	3.38	3.42	3.43	3.42	14.3%
6-Speed Manual	6.02	6.02	6.04	6.01	6.02	6.04	6.00	6.03	6.03	6.00	6.03	6.03	6.02	6.03	5.1%
CVT	4.86	4.86	4.86	4.85	4.86	4.88	4.88	4.92	4.96	4.95	4.96	5.02	5.01	5.02	8.2%
Automated Manual Trans	10.22	10.20	10.29	10.16	10.21	10.28	10.13	10.23	10.25	10.11	10.22	10.25	10.17	10.25	N/A
Roller Cam	99.54	99.54	99.54	99.54	99.54	99.54	99.54	99.54	99.54	99.54	99.54	99.54	99.54	99.54	0.2%
OHC/AdvOHV-4 Cylinder	1.16	1.16	1.17	1.15	1.16	1.17	1.15	1.16	1.17	1.14	1.16	1.17	1.16	1.17	-2.4%
OHC/AdvOHV-6 Cylinder	2.38	2.39	2.36	2.40	2.38	2.36	2.41	2.37	2.37	2.41	2.38	2.37	2.39	2.37	-2.4%
OHC/AdvOHV-8 Cylinder	2.85	2.85	2.82	2.86	2.85	2.83	2.87	2.84	2.83	2.88	2.84	2.83	2.86	2.83	0.2%
4-Valve/4-Cylinder	50.16	50.13	50.36	50.02	50.16	50.32	49.95	50.21	50.24	49.90	50.18	50.25	50.06	50.25	-0.1%
4-Valve/6-Cylinder	24.85	24.86	24.78	24.90	24.85	24.79	24.92	24.83	24.82	24.94	24.84	24.82	24.88	24.82	0.5%
4-Valve/8-Cylinder	10.16	10.17	10.10	10.20	10.16	10.11	10.22	10.14	10.13	10.22	10.15	10.13	10.18	10.12	0.6%
5-Valve/6-Cylinder	2.49	2.49	2.49	2.50	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	0.2%
VVT-4 Cylinder	47.33	47.04	47.07	46.56	46.58	46.55	46.11	46.05	45.92	45.56	45.81	45.78	45.60	45.78	2.0%
VVT-6 Cylinder	11.68	11.68	11.65	11.68	11.67	11.65	11.67	11.65	11.65	11.67	11.65	11.64	11.66	11.64	4.2%
VVT-8 Cylinder	4.19	4.14	4.05	4.05	4.00	3.91	3.93	3.88	3.87	3.92	3.88	3.85	3.88	3.85	2.8%
VVL-4 Cylinder	17.03	16.86	16.70	16.52	16.23	15.94	15.74	15.59	15.44	15.34	15.36	15.25	15.21	15.24	2.6%
VVL-6 Cylinder	5.32	5.31	5.31	5.31	5.30	5.21	5.13	5.07	5.04	5.04	5.03	5.00	5.00	5.00	4.6%
VVL-8 Cylinder	1.82	1.83	1.81	1.83	1.82	1.82	1.84	1.82	1.82	1.84	1.82	1.82	1.83	1.82	0.4%
Camless Valve Actuation-4cyl	2.14	2.47	2.73	2.98	3.17	3.45	3.57	4.00	4.23	4.26	4.29	4.41	4.41	4.42	N/A
Camless Valve Actuation-6cyl	2.28	2.51	2.74	2.91	3.08	3.24	3.54	3.68	3.75	3.77	3.77	3.84	3.85	3.84	N/A
Camless Valve Actuation-8cyl	1.65	1.75	1.83	1.94	1.98	2.10	2.17	2.18	2.20	2.21	2.20	2.22	2.23	2.22	N/A
Cylinder Deactivation	2.79	2.83	2.87	2.93	2.92	2.97	3.01	3.01	3.04	3.06	3.05	3.06	3.08	3.06	13.3%
Turbocharging/Supercharging	2.78	2.78	2.78	2.77	2.78	2.78	2.77	2.78	2.78	2.77	2.78	2.78	2.78	2.78	5.0%
Engine Friction Reduction I	8.98	8.36	7.64	6.82	5.94	4.50	3.70	3.01	2.74	2.68	2.60	2.46	2.41	2.40	-12.7%
Engine Friction Reduction II	74.21	73.80	73.15	72.37	71.34	69.58	68.06	66.31	63.65	62.18	61.04	59.25	58.51	58.36	3.4%
Engine Friction Reduction III	16.56	17.12	17.81	18.53	19.40	21.16	21.96	22.69	23.57	23.65	23.61	24.36	24.38	24.36	N/A
Engine Friction Reduction IV	0.25	0.73	1.40	2.28	3.32	4.76	6.28	7.99	10.04	11.49	12.75	13.93	14.70	14.89	N/A
Stoichiometric GDI/4-Cylinder	5.08	5.30	5.56	5.68	6.44	7.12	7.37	7.62	7.93	8.00	8.06	8.39	8.39	8.40	N/A
Stoichiometric GDI/6-Cylinder	3.41	3.59	3.79	3.88	4.26	4.55	4.63	4.71	4.81	4.83	4.84	4.96	4.96	4.96	N/A
Lean Burn GDI	5.17	5.40	5.65	5.76	5.95	6.21	6.27	6.32	6.43	6.44	6.44	6.55	6.55	6.55	N/A
5W-30 Engine Oil	46.03	45.68	45.40	45.33	45.36	45.01	44.85	44.73	44.11	44.04	44.10	43.64	43.60	43.61	0.2%
5W-20 Engine Oil	53.73	54.09	54.36	54.44	54.41	54.82	55.02	55.27	55.89	55.96	55.90	56.36	56.40	56.36	17.1%
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	0.00	0.03	N/A
Electric Power Steering	3.66	3.72	3.80	3.87	3.88	3.95	3.97	3.99	4.04	4.04	4.04	4.11	4.11	4.11	15.0%
Improved Alternator	5.44	5.66	5.74	5.86	5.96	6.09	6.13	6.16	6.23	6.24	6.23	6.28	6.28	6.28	24.1%
Improved Oil/Water Pump	57.95	57.95	57.91	57.97	57.95	57.92	57.99	57.94	57.93	57.99	57.95	58.05	58.08	58.05	11.5%
Electric Oil/Water Pump	4.11	4.46	4.73	5.02	5.19	5.57	5.81	5.95	6.12	6.17	6.18	6.37	6.37	6.36	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Tires II	54.22	51.29	49.08	46.05	42.94	38.14	33.97	30.40	26.78	25.28	23.96	20.67	19.90	19.38	-4.2%
Tires III	44.64	46.36	46.86	47.76	48.39	49.61	50.03	50.32	50.87	50.90	50.80	51.15	51.18	51.12	31.2%
Tires IV	1.13	2.35	4.06	6.18	8.66	12.25	16.00	19.28	22.35	23.82	25.24	28.18	28.92	29.50	N/A
Front Wheel Drive	84.26	84.26	84.26	84.26	84.26	84.26	84.26	84.26	84.26	84.26	84.26	84.26	84.26	84.26	0.0%
Four Wheel Drive Improvements	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	6.6%
42V-Launch Assist and Regen	1.99	2.10	2.20	2.24	2.30	2.34	2.36	2.36	2.37	2.38	2.38	2.38	2.40	2.40	N/A
42V-Engine Off at Idle	2.10	2.20	2.24	2.30	2.34	2.35	2.36	2.37	2.38	2.38	2.38	2.40	2.40	2.40	21.2%
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	100.00	N/A
Increased Size/Weight	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	5.7%
Variable Compression Ratio	0.27	0.44	0.64	0.85	1.07	1.35	1.58	1.83	2.02	2.19	2.30	2.43	2.47	2.59	N/A
Light Truck															
Unit Body Construction	24.74	24.73	24.76	24.72	24.73	24.74	24.69	24.71	24.72	24.67	24.70	24.71	24.68	24.69	3.0%
Material Substitution II	60.72	60.42	60.09	59.75	59.40	58.96	58.57	58.28	57.94	57.69	57.53	57.30	57.19	57.11	2.6%
Material Substitution III	32.22	32.22	32.21	32.22	32.21	32.21	32.22	32.21	32.21	32.22	32.21	32.21	32.21	32.21	16.7%
Material Substitution IV	1.96	2.35	2.76	3.15	3.54	4.03	4.45	4.71	5.02	5.20	5.24	5.39	5.39	5.39	N/A
Material Substitution V	0.00	0.02	0.06	0.14	0.26	0.44	0.63	0.83	1.05	1.26	1.49	1.71	1.91	2.08	N/A
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	0.00	-49.0%
Drag Reduction III	54.53	51.07	49.21	46.61	43.89	39.70	36.96	34.99	32.20	30.54	29.34	27.93	27.59	27.47	3.5%
Drag Reduction IV	44.27	46.73	47.30	48.41	49.45	51.32	51.70	52.10	52.86	52.81	52.82	53.02	52.88	52.61	N/A
Drag Reduction V	1.20	2.20	3.48	4.97	6.66	8.98	11.35	12.92	14.94	16.65	17.85	19.06	19.54	19.92	N/A
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	100.00	N/A
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	100.00	N/A
Advanced Low Loss Torque Converter	83.37	85.15	87.62	89.03	89.03	89.56	89.54	89.63	89.87	89.85	89.86	89.89	89.88	89.89	28.0%
Early Torque Converter Lockup	67.84	72.43	74.19	76.43	78.26	79.69	79.75	79.97	80.52	80.50	80.51	80.61	80.60	80.61	N/A
Aggressive Shift Logic	30.78	31.57	31.79	32.14	32.52	34.09	34.46	34.84	35.63	35.62	35.63	35.94	35.93	35.94	N/A
4-Speed Automatic	67.94	67.31	66.74	66.01	65.90	65.60	64.83	64.72	64.59	64.50	64.57	64.53	64.49	64.53	-1.1%
5-Speed Automatic	16.19	16.19	16.19	16.19	16.19	16.19	16.19	16.19	16.19	16.19	16.19	16.18	16.18	16.18	3.8%
6-Speed Automatic	3.52	3.84	4.15	4.48	4.62	4.93	5.56	5.72	5.84	5.85	5.84	5.88	5.89	5.88	N/A
6-Speed Manual	5.46	5.47	5.45	5.48	5.46	5.45	5.48	5.46	5.46	5.49	5.47	5.46	5.48	5.46	7.3%
CVT	0.26	0.28	0.30	0.32	0.33	0.35	0.40	0.42	0.43	0.43	0.43	0.45	0.45	0.45	N/A
Automated Manual Trans	2.12	2.41	2.67	3.02	3.00	2.97	3.03	2.99	2.98	3.04	3.00	2.99	3.02	2.99	N/A
Roller Cam	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	100.00	0.5%
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	0.00	-47.1%
OHC/AdvOHV-6 Cylinder	11.87	11.87	11.87	11.87	11.87	11.86	11.85	11.85	11.86	11.85	11.85	11.85	11.85	11.85	-3.5%
OHC/AdvOHV-8 Cylinder	20.41	20.41	20.42	20.40	20.41	20.42	20.41	20.42	20.42	20.41	20.42	20.42	20.42	20.43	-2.6%
4-Valve/4-Cylinder	6.72	6.72	6.70	6.73	6.72	6.70	6.74	6.71	6.70	6.74	6.71	6.70	6.73	6.71	0.6%
4-Valve/6-Cylinder	30.54	30.54	30.54	30.54	30.54	30.53	30.54	30.54	30.54	30.54	30.54	30.54	30.55	30.54	3.3%
4-Valve/8-Cylinder	30.47	30.46	30.47	30.46	30.47	30.48	30.47	30.48	30.48	30.46	30.47	30.48	30.47	30.48	4.0%
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	0.00	N/A
VVT-4 Cylinder	6.50	6.38	6.22	6.10	5.88	5.64	5.46	5.24	5.02	4.91	4.73	4.59	4.45	4.41	-0.5%
VVT-6 Cylinder	22.57	22.41	22.20	22.01	21.80	21.56	21.35	21.12	20.86	20.76	20.44	20.30	20.29	20.28	8.5%
VVT-8 Cylinder	26.19	26.13	26.08	26.01	25.96	25.90	25.82	25.77	25.73	25.64	25.63	25.61	25.60	25.61	10.3%
VVL-4 Cylinder	3.77	3.67	3.57	3.50	3.36	3.11	2.70	2.45	2.22	2.18	2.11	1.95	1.85	1.80	4.5%
VVL-6 Cylinder	11.41	11.17	10.93	10.74	10.70	10.65	10.36	10.12	9.64	9.43	9.22	9.00	8.99	8.97	5.9%
VVL-8 Cylinder	3.03	3.26	3.34	3.46	3.55	3.64	3.65	3.67	3.71	3.71	3.71	3.72	3.72	3.72	N/A
Camless Valve Actuation-4cyl	0.21	0.34	0.48	0.63	0.84	1.06	1.27	1.47	1.68	1.83	1.98	2.11	2.27	2.30	N/A
Camless Valve Actuation-6cyl	0.96	1.27	1.67	2.03	2.41	2.83	3.22	3.59	4.00	4.18	4.70	4.96	4.98	5.00	N/A
Camless Valve Actuation-8cyl	0.93	1.19	1.42	1.67	1.91	2.20	2.46	2.73	2.89	3.20	3.33	3.41	3.42	3.42	N/A
Cylinder Deactivation	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	19.7%
Turbocharging/Supercharging	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	5.5%
Engine Friction Reduction I	2.43	1.25	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50.8%
Engine Friction Reduction II	74.97	72.41	68.70	64.11	58.44	49.56	41.54	34.96	27.78	24.33	21.63	17.38	16.19	15.99	0.0%
Engine Friction Reduction III	22.35	25.56	28.96	32.46	35.86	41.34	45.88	48.32	51.42	52.59	52.43	53.15	51.62	50.53	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Engine Friction Reduction IV	0.25	0.78	1.76	3.43	5.70	9.10	12.57	16.72	20.80	23.08	25.94	29.47	32.19	33.48	N/A
Stoichiometric GDI/4-Cylinder	2.64	2.67	2.63	2.60	2.52	2.53	2.76	2.79	2.80	2.73	2.62	2.65	2.61	2.61	N/A
Stoichiometric GDI/6-Cylinder	2.12	2.60	3.05	3.45	3.70	4.02	4.29	4.42	5.01	5.24	5.17	5.33	5.34	5.35	N/A
Lean Burn GDI	2.81	3.38	3.94	4.43	4.77	5.26	5.50	5.53	5.94	6.04	5.84	5.90	5.86	5.86	N/A
5W-30 Engine Oil	27.53	26.91	26.91	26.91	26.91	26.88	26.89	26.81	26.28	26.29	26.28	26.15	26.16	26.12	-2.7%
5W-20 Engine Oil	72.47	73.09	73.09	73.09	73.09	73.12	73.11	73.19	73.72	73.71	73.72	73.85	73.84	73.84	17.2%
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	0.00	0.04	N/A
Electric Power Steering	1.87	1.90	1.94	1.98	1.99	2.02	2.04	2.05	2.07	2.07	2.07	2.09	2.09	2.09	24.1%
Improved Alternator	13.18	13.18	13.19	13.18	13.18	13.19	13.18	13.19	13.19	13.18	13.18	13.19	13.18	13.18	27.0%
Improved Oil/Water Pump	81.71	81.71	81.71	81.71	81.71	81.72	81.71	81.72	81.72	81.71	81.71	81.72	81.71	81.71	8.1%
Electric Oil/Water Pump	5.77	6.41	7.04	7.74	8.16	9.07	9.66	10.04	10.50	10.60	10.63	11.06	11.06	11.06	N/A
Tires II	35.21	32.48	27.89	22.80	18.25	11.63	8.94	6.92	4.73	3.79	2.51	1.53	1.16	0.90	-15.5%
Tires III	63.47	64.38	65.86	66.87	66.52	67.29	65.96	63.36	60.33	57.34	54.83	50.47	49.35	47.85	28.7%
Tires IV	1.31	3.14	6.26	10.33	15.23	21.09	25.10	29.72	34.94	38.87	42.66	48.00	49.49	51.24	N/A
Front Wheel Drive	4.12	4.12	4.17	4.09	4.12	4.15	4.07	4.13	4.14	4.06	4.13	4.14	4.10	4.15	-0.5%
Four Wheel Drive Improvements	32.54	32.54	32.53	32.55	32.54	32.54	32.56	32.54	32.54	32.55	32.53	32.53	32.53	32.52	13.5%
42V-Launch Assist and Regen	2.20	2.35	2.41	2.49	2.55	2.56	2.58	2.59	2.60	2.61	2.61	2.61	2.63	2.63	N/A
42V-Engine Off at Idle	2.35	2.41	2.49	2.55	2.56	2.58	2.59	2.60	2.61	2.61	2.61	2.63	2.63	2.63	21.5%
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	100.00	N/A
Increased Size/Weight	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	5.7%
Variable Compression Ratio	0.11	0.18	0.28	0.39	0.49	0.63	0.75	0.87	0.98	1.07	1.14	1.23	1.26	1.35	N/A
Light-Duty Vehicle Total															
Unit Body Construction	57.12	56.81	56.62	56.20	55.93	55.74	55.32	55.13	54.91	54.51	54.32	54.13	53.83	53.68	0.0%
Material Substitution II	63.67	63.23	62.76	62.34	61.89	61.29	60.82	60.43	59.98	59.70	59.48	59.17	59.05	58.95	1.6%
Material Substitution III	30.04	30.06	30.07	30.10	30.12	30.13	30.16	30.17	30.19	30.21	30.22	30.24	30.26	30.27	13.9%
Material Substitution IV	3.28	3.60	3.95	4.21	4.49	4.91	5.20	5.40	5.65	5.76	5.79	5.96	5.96	5.95	N/A
Material Substitution V	0.25	0.38	0.55	0.73	0.94	1.22	1.49	1.74	2.01	2.23	2.44	2.65	2.80	2.94	N/A
Drag Reduction II	3.09	2.87	2.68	2.41	2.25	2.08	1.87	1.80	1.70	1.61	1.61	1.57	1.54	1.54	-12.8%
Drag Reduction III	50.00	47.78	46.39	44.68	42.82	39.86	37.87	36.43	34.54	33.45	32.74	31.79	31.55	31.46	5.8%
Drag Reduction IV	43.05	44.41	44.72	45.39	45.99	47.05	47.34	47.58	48.05	48.11	48.13	48.27	48.24	48.10	18.3%
Drag Reduction V	3.86	4.93	6.21	7.52	8.95	11.01	12.92	14.19	15.71	16.84	17.52	18.38	18.67	18.90	N/A
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	100.00	8.7%
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	100.00	8.7%
Advanced Low Loss Torque Converter	79.12	80.13	81.48	82.40	82.44	82.75	82.88	82.93	83.18	83.30	83.31	83.46	83.54	83.55	8.4%
Early Torque Converter Lockup	66.01	68.70	69.65	71.00	72.05	72.93	73.12	73.36	73.91	74.02	74.04	74.27	74.35	74.36	15.8%
Aggressive Shift Logic	31.80	32.22	32.32	32.54	32.73	33.60	33.85	34.05	34.50	34.54	34.53	34.71	34.73	34.73	11.1%
4-Speed Automatic	61.72	61.44	61.03	60.78	60.72	60.52	60.24	60.11	60.02	60.13	60.12	60.07	60.14	60.13	-0.9%
5-Speed Automatic	14.13	14.15	14.15	14.19	14.20	14.21	14.25	14.25	14.26	14.30	14.30	14.31	14.34	14.34	2.1%
6-Speed Automatic	3.31	3.50	3.72	3.94	4.02	4.21	4.59	4.69	4.79	4.81	4.81	4.86	4.87	4.87	19.2%
6-Speed Manual	5.72	5.72	5.72	5.71	5.71	5.71	5.71	5.71	5.71	5.70	5.70	5.70	5.70	5.70	6.0%
CVT	2.37	2.36	2.36	2.34	2.33	2.34	2.35	2.36	2.37	2.34	2.33	2.35	2.33	2.32	7.9%
Automated Manual Trans	5.83	5.95	6.11	6.20	6.18	6.18	6.11	6.11	6.09	6.03	6.03	6.01	5.97	5.97	N/A
Roller Cam	99.79	99.79	99.79	99.79	99.79	99.79	99.80	99.80	99.80	99.80	99.80	99.81	99.81	99.81	0.3%
OHC/AdvOHV-4 Cylinder	0.53	0.53	0.53	0.51	0.51	0.51	0.50	0.50	0.50	0.48	0.49	0.49	0.48	0.48	-4.1%
OHC/AdvOHV-6 Cylinder	7.52	7.56	7.58	7.65	7.67	7.69	7.75	7.77	7.80	7.86	7.88	7.90	7.94	7.96	-2.9%
OHC/AdvOHV-8 Cylinder	12.35	12.43	12.48	12.58	12.65	12.70	12.80	12.85	12.91	13.00	13.05	13.10	13.17	13.21	-1.9%
4-Valve/4-Cylinder	26.65	26.44	26.39	26.04	25.91	25.84	25.49	25.44	25.31	24.98	24.94	24.83	24.61	24.57	-0.6%
4-Valve/6-Cylinder	27.93	27.96	27.94	28.02	28.03	28.01	28.10	28.08	28.09	28.18	28.15	28.16	28.21	28.20	1.9%
4-Valve/8-Cylinder	21.15	21.24	21.28	21.42	21.49	21.54	21.68	21.72	21.78	21.91	21.95	22.01	22.09	22.13	3.2%
5-Valve/6-Cylinder	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.06	1.04	1.04	1.03	1.02	-0.6%
VVT-4 Cylinder	25.23	24.86	24.65	24.15	23.86	23.59	23.10	22.81	22.50	22.09	21.95	21.74	21.43	21.38	1.1%
VVT-6 Cylinder	17.58	17.54	17.44	17.40	17.33	17.21	17.15	17.04	16.92	16.92	16.75	16.69	16.73	16.74	6.6%
VVT-8 Cylinder	16.10	16.14	16.14	16.22	16.26	16.25	16.32	16.34	16.39	16.46	16.51	16.55	16.64	16.69	8.7%

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
VVL-4 Cylinder	9.85	9.66	9.49	9.30	9.05	8.74	8.36	8.11	7.87	7.74	7.66	7.48	7.36	7.31	2.1%
VVL-6 Cylinder	8.62	8.51	8.39	8.32	8.32	8.26	8.09	7.95	7.67	7.58	7.46	7.34	7.34	7.34	5.6%
VVL-8 Cylinder	2.48	2.61	2.65	2.73	2.79	2.84	2.87	2.87	2.90	2.92	2.92	2.93	2.94	2.94	5.2%
Camless Valve Actuation-4cyl	1.09	1.30	1.49	1.68	1.87	2.11	2.27	2.56	2.77	2.86	2.95	3.07	3.15	3.17	N/A
Camless Valve Actuation-6cyl	1.57	1.83	2.15	2.42	2.71	3.01	3.36	3.63	3.90	4.00	4.31	4.49	4.51	4.52	N/A
Camless Valve Actuation-8cyl	1.26	1.44	1.61	1.79	1.94	2.16	2.33	2.49	2.59	2.78	2.86	2.92	2.93	2.93	N/A
Cylinder Deactivation	6.17	6.21	6.25	6.31	6.33	6.38	6.42	6.44	6.47	6.51	6.52	6.55	6.57	6.58	17.4%
Turbocharging/Supercharging	2.32	2.32	2.31	2.31	2.31	2.30	2.30	2.30	2.29	2.29	2.29	2.28	2.28	2.28	5.1%
Engine Friction Reduction I	5.43	4.48	3.76	3.04	2.63	1.97	1.61	1.29	1.17	1.13	1.09	1.02	0.99	0.98	-15.9%
Engine Friction Reduction II	74.62	73.04	70.71	67.80	64.14	58.34	53.05	48.46	43.11	40.32	38.15	34.81	33.65	33.37	2.0%
Engine Friction Reduction III	19.69	21.73	23.93	26.25	28.59	32.49	35.50	37.29	39.52	40.36	40.35	41.16	40.38	39.80	N/A
Engine Friction Reduction IV	0.25	0.76	1.60	2.92	4.65	7.20	9.84	12.96	16.20	18.18	20.41	23.00	24.97	25.85	N/A
Stoichiometric GDI/4-Cylinder	3.76	3.87	3.95	3.97	4.25	4.54	4.76	4.87	4.99	4.96	4.90	5.04	4.99	4.98	N/A
Stoichiometric GDI/6-Cylinder	2.71	3.05	3.38	3.64	3.94	4.25	4.44	4.54	4.93	5.07	5.03	5.17	5.18	5.19	N/A
Lean Burn GDI	3.89	4.29	4.71	5.02	5.29	5.67	5.83	5.87	6.15	6.21	6.09	6.17	6.14	6.14	N/A
5W-30 Engine Oil	36.02	35.44	35.25	35.13	35.06	34.84	34.68	34.53	33.90	33.79	33.75	33.44	33.36	33.29	-1.3%
5W-20 Engine Oil	63.88	64.46	64.64	64.77	64.84	65.09	65.26	65.47	66.10	66.21	66.25	66.56	66.64	66.67	17.3%
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	0.04	N/A
Electric Power Steering	2.69	2.73	2.78	2.83	2.83	2.87	2.88	2.88	2.91	2.90	2.90	2.93	2.92	2.92	16.3%
Improved Alternator	9.63	9.77	9.83	9.92	9.99	10.07	10.12	10.16	10.21	10.25	10.27	10.31	10.34	10.35	26.2%
Improved Oil/Water Pump	70.81	70.92	70.98	71.12	71.21	71.28	71.42	71.48	71.55	71.69	71.75	71.86	71.96	72.01	9.3%
Electric Oil/Water Pump	5.01	5.52	6.00	6.53	6.85	7.54	7.99	8.28	8.63	8.72	8.77	9.10	9.12	9.13	N/A
Tires II	43.93	41.02	37.45	33.17	29.16	23.26	19.80	17.03	14.15	12.88	11.50	9.50	8.90	8.48	-7.5%
Tires III	54.83	56.19	57.29	58.35	58.51	59.53	59.05	57.74	56.29	54.62	53.14	50.75	50.10	49.19	29.8%
Tires IV	1.23	2.78	5.26	8.48	12.33	17.21	21.15	25.23	29.56	32.51	35.36	39.74	41.00	42.33	N/A
Front Wheel Drive	40.88	40.53	40.30	39.85	39.53	39.30	38.87	38.64	38.38	37.95	37.72	37.50	37.18	37.00	-0.7%
Four Wheel Drive Improvements	19.23	19.36	19.45	19.60	19.72	19.81	19.96	20.05	20.14	20.28	20.37	20.46	20.56	20.63	12.7%
42V-Launch Assist and Regen	2.10	2.24	2.32	2.38	2.44	2.46	2.48	2.49	2.50	2.51	2.51	2.52	2.52	2.53	N/A
42V-Engine Off at Idle	2.24	2.32	2.38	2.44	2.46	2.48	2.49	2.50	2.51	2.51	2.51	2.52	2.53	2.53	21.4%
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	100.00	N/A
Increased Size/Weight	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	5.7%
Variable Compression Ratio	0.18	0.30	0.44	0.59	0.74	0.94	1.11	1.29	1.43	1.55	1.63	1.73	1.76	1.86	N/A

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

Source: Energy Information Administration, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Gasoline													
Mini-compact Cars	25.56	25.65	26.38	26.92	27.34	28.58	29.35	29.60	29.74	29.78	29.85	29.91	29.96
Subcompact Cars	28.77	28.74	28.99	29.50	29.77	30.96	31.78	32.07	32.21	32.27	32.40	32.49	32.57
Compact Cars	31.75	31.90	32.36	32.90	33.02	34.23	35.02	35.22	35.30	35.37	35.33	35.36	35.37
Midsized Cars	27.73	27.81	28.12	28.46	28.58	29.50	30.17	30.37	30.48	30.51	30.59	30.64	30.70
Large Cars	26.45	26.42	26.49	26.55	26.60	27.39	28.02	28.27	28.39	28.44	28.57	28.63	28.68
Two Seater Cars	25.06	25.05	25.20	25.38	25.58	26.34	26.97	27.26	27.44	27.55	27.66	27.74	27.78
Small Pickup	24.65	25.01	25.36	25.78	27.11	27.10	27.35	28.18	28.21	28.28	28.39	28.53	28.63
Large Pickup	19.00	19.29	19.46	19.57	20.21	20.33	20.68	21.26	21.29	21.33	21.42	21.51	21.59
Small Van	24.74	24.96	25.12	25.41	26.47	26.46	26.74	27.51	27.47	27.47	27.50	27.57	27.63
Large Van	25.78	26.10	26.25	26.49	27.75	27.71	27.97	28.92	28.86	28.83	28.85	28.89	28.95
Small Utility	22.84	23.16	23.48	23.84	25.22	25.32	25.65	26.37	26.38	26.42	26.50	26.59	26.68
Large Utility	19.12	19.36	19.51	19.63	20.39	20.54	20.93	21.51	21.54	21.58	21.67	21.76	21.84
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	0.00	41.59	42.11	41.99	41.89	41.81	41.75	41.72
Compact Cars	42.45	42.53	42.60	42.46	42.24	43.28	44.20	47.05	46.87	46.72	46.56	46.44	46.34
Midsized Cars	37.30	37.26	37.15	36.92	36.68	37.41	38.05	39.91	39.78	39.66	39.56	39.49	39.42
Large Cars	0.00	0.00	0.00	35.30	34.87	35.17	35.73	37.18	37.10	37.04	37.01	36.99	36.98
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	33.77	34.80	34.69	34.80	35.82	35.77	35.73	35.76	35.78	35.79
Large Pickup	25.44	25.75	25.79	25.89	26.58	26.51	26.70	27.19	27.11	27.06	27.04	27.05	27.07
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	35.55	35.86	35.72	35.61	35.52	35.46	35.42
Large Van	34.54	34.87	34.79	34.77	36.59	36.40	36.38	37.35	37.20	37.09	37.00	36.93	36.88
Small Utility	0.00	30.97	30.66	30.58	32.42	32.34	32.52	33.54	33.45	33.39	33.34	33.33	33.33
Large Utility	25.47	25.72	25.78	25.89	26.87	26.83	27.05	27.68	27.61	27.57	27.55	27.57	27.59
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	28.27	28.33	28.61	28.95	29.05	30.00	30.70	32.11	32.09	32.08	32.10	32.12	32.17
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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	0.00	0.00	0.00	0.00	66.85	66.59
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

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	28.81	28.86	29.12	29.45	29.55	30.53	31.26	32.72	32.69	32.69	32.71	32.74	32.79
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	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	27.99	28.08	28.32	28.61	28.72	29.57	30.25	31.65	31.62	31.60	31.62	31.65	31.70
Large Cars	26.72	26.70	26.76	26.81	26.85	27.63	28.26	29.67	29.65	29.66	29.72	29.77	29.83
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	24.91	25.30	25.64	26.03	27.34	27.34	27.59	28.41	28.45	28.53	28.65	28.81	28.90
Large Pickup	19.02	19.26	19.44	19.57	20.18	20.38	20.85	21.43	21.47	21.53	21.62	21.72	21.81
Small Van	24.99	25.22	25.36	25.65	26.72	26.71	26.99	27.77	27.75	27.74	27.78	27.85	27.92
Large Van	25.82	25.98	26.01	26.08	27.19	27.20	27.58	28.69	28.65	28.64	28.67	28.72	28.79
Small Utility	0.00	0.00	0.00	23.45	24.42	24.54	25.05	25.94	25.97	26.03	26.15	26.27	26.39
Large Utility	19.06	19.28	19.41	19.62	20.34	20.54	20.99	21.65	21.68	21.74	21.84	21.93	22.02
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	34.22	34.35	34.67	35.07	35.19	36.34	37.16	39.13	39.01	38.91	38.82	38.76	38.72
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	28.54	28.47	28.47	28.48	28.54	29.22	29.78	31.40	31.36	31.34	31.36	31.38	31.42
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	20.42	20.70	20.86	20.96	21.57	21.65	21.93	22.44	22.43	22.44	22.49	22.56	22.62
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	27.66	27.93	27.97	28.15	29.48	29.41	29.57	30.60	30.52	30.46	30.44	30.45	30.48
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
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	31.72	31.86	32.22	32.66	32.83	33.94	34.70	36.25	36.13	36.04	35.97	35.91	35.88
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	26.32	26.13	25.99	26.01	26.67	27.21	28.45	28.44	28.46	28.52	28.61	28.68
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	18.55	18.75	18.81	18.86	19.49	19.69	20.02	20.53	20.55	20.58	20.65	20.72	20.78
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

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Large Van	25.23	25.33	25.38	25.54	26.74	26.73	27.01	28.04	27.98	27.95	27.95	27.99	28.03
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
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	19.73	20.03	20.18	20.29	20.94	21.05	21.37	21.98	22.00	22.03	22.11	22.19	22.27
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	26.79	27.11	27.22	27.45	28.75	28.69	28.93	29.89	29.83	29.80	29.80	29.84	29.89
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	0.00	31.70	31.61	31.68	31.90	33.00	34.00	35.68	35.59	35.52	35.48	35.48	35.48
Midsized Cars	0.00	27.67	27.66	27.71	27.84	28.65	29.34	30.67	30.62	30.59	30.60	30.66	30.72
Large Cars	0.00	26.32	26.13	26.00	26.03	26.78	27.39	28.68	28.68	28.70	28.77	28.87	28.95
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	19.00	19.29	19.45	19.56	20.19	20.32	20.66	21.23	21.25	21.28	21.35	21.43	21.49
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	25.71	25.99	26.10	26.30	27.55	27.51	27.77	28.77	28.71	28.67	28.67	28.71	28.76
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
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	30.49	31.11	31.74	32.47	32.16	32.40	33.05	33.49	33.93	34.37	34.84	34.81	34.79
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	23.64	24.38	24.68	25.46	26.22	26.19	26.60	27.11	27.44	27.78	28.14	28.09	28.04
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
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	0.00	54.38	55.16	54.91	54.72	54.52	54.36	54.25
Midsized Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.34	48.13	47.92	47.76	47.64
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.36	45.24	45.14
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

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	43.78	43.60
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
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	0.00	46.01	45.86	45.75	45.66	45.60	45.56
Compact Cars	45.67	45.72	45.75	45.56	45.09	45.76	46.44	49.21	49.04	48.89	48.74	48.62	48.53
Midsized Cars	0.00	40.09	39.85	39.49	39.07	39.49	40.08	41.86	41.74	41.63	41.53	41.45	41.39
Large Cars	0.00	0.00	0.00	0.00	0.00	38.40	38.37	39.25	39.15	39.08	39.02	38.98	38.95
Two Seater Cars	35.99	35.83	35.65	35.49	35.34	36.08	36.69	38.06	37.99	37.94	37.89	37.85	37.83
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	30.65	30.51	30.38	30.29	30.24
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	38.10	38.28	38.11	37.97	37.83	37.72	37.64
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.63	41.46
Small Utility	0.00	0.00	0.00	0.00	34.76	34.47	34.38	35.20	35.09	35.01	34.93	34.88	34.87
Large Utility	0.00	27.81	27.42	27.22	27.95	27.90	28.06	28.55	28.46	28.38	28.33	28.31	28.31
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	0.00	58.34	57.60	56.96	56.37	57.07	57.48	57.44	57.38	57.31	57.25	57.20	57.15
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	51.31	51.26	51.21	51.16
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	47.18
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	40.47	40.40	40.34
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	0.00	42.96	42.09	41.96	43.21	43.17	43.25	43.47	43.39	43.32	43.25	43.17	43.10
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
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
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	39.39	39.94	40.42	40.53	40.49	40.44	40.40	40.36	40.32

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	34.70	34.64	34.58	34.53	34.47
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	37.08	37.02	36.96	36.90	36.83
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)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Gasoline															
Mini-compact Cars	30.01	30.05	30.11	30.16	30.25	30.39	30.47	30.56	30.67	30.72	30.73	30.77	30.77	30.77	0.7%
Subcompact Cars	32.64	32.73	32.82	32.88	33.02	33.21	33.35	33.48	33.61	33.67	33.70	33.80	33.83	33.85	0.7%
Compact Cars	35.39	35.40	35.44	35.45	35.54	35.68	35.76	35.86	35.94	35.96	35.98	36.06	36.05	36.04	0.5%
Midsized Cars	30.75	30.79	30.84	30.88	30.97	31.11	31.21	31.29	31.39	31.42	31.44	31.51	31.52	31.52	0.5%
Large Cars	28.73	28.77	28.82	28.87	28.97	29.11	29.23	29.34	29.45	29.47	29.51	29.62	29.65	29.67	0.5%
Two Seater Cars	27.83	27.88	27.94	28.00	28.10	28.27	28.36	28.45	28.57	28.65	28.69	28.75	28.76	28.78	0.6%
Small Pickup	28.71	28.78	28.87	28.95	29.03	29.18	29.30	29.41	29.55	29.58	29.62	29.71	29.74	29.75	0.7%
Large Pickup	21.68	21.74	21.82	21.90	22.01	22.17	22.26	22.36	22.46	22.54	22.60	22.69	22.72	22.74	0.7%
Small Van	27.70	27.75	27.83	27.89	27.98	28.16	28.31	28.44	28.57	28.66	28.75	28.86	28.89	28.91	0.6%
Large Van	29.02	29.07	29.13	29.21	29.30	29.47	29.62	29.76	29.95	30.02	30.12	30.26	30.31	30.34	0.6%
Small Utility	26.79	26.87	26.96	27.06	27.20	27.42	27.58	27.72	27.89	28.00	28.06	28.13	28.15	28.18	0.8%
Large Utility	21.93	22.01	22.10	22.21	22.33	22.50	22.62	22.71	22.84	22.92	23.00	23.12	23.17	23.19	0.7%
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	0.00	N/A
Subcompact Cars	41.71	41.70	41.72	41.73	41.80	41.91	41.99	42.07	42.17	42.21	42.25	42.31	42.33	42.34	N/A
Compact Cars	46.25	46.17	46.10	46.01	45.98	45.99	45.97	45.96	45.97	45.93	45.90	45.89	45.84	45.81	0.3%
Midsized Cars	39.38	39.33	39.30	39.25	39.25	39.30	39.32	39.35	39.39	39.39	39.38	39.40	39.38	39.36	0.2%
Large Cars	36.98	36.99	37.02	37.03	37.08	37.19	37.25	37.30	37.38	37.41	37.43	37.51	37.51	37.50	N/A
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	0.00	N/A
Small Pickup	35.79	35.80	35.82	35.82	35.88	35.97	36.00	36.05	36.08	36.08	36.08	36.12	36.09	36.07	N/A
Large Pickup	27.08	27.08	27.09	27.08	27.12	27.22	27.30	27.39	27.45	27.49	27.53	27.58	27.58	27.58	0.3%
Small Van	35.39	35.36	35.38	35.38	35.44	35.56	35.66	35.74	35.84	35.90	35.95	36.07	36.07	36.08	N/A
Large Van	36.84	36.79	36.76	36.73	36.74	36.83	36.90	36.97	37.05	37.08	37.12	37.20	37.19	37.19	0.3%
Small Utility	33.34	33.33	33.34	33.35	33.41	33.54	33.62	33.72	33.83	33.89	33.92	34.00	34.01	34.03	0.4%
Large Utility	27.61	27.62	27.65	27.66	27.72	27.85	27.95	28.07	28.16	28.23	28.30	28.40	28.39	28.40	0.4%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Midsized Cars	32.22	32.26	32.32	32.36	32.45	32.59	32.69	32.77	32.87	32.93	32.94	33.02	33.02	33.04	0.6%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Compact Cars	66.38	66.17	66.03	65.86	65.79	65.75	65.70	65.67	65.64	65.59	65.54	65.50	65.44	65.40	N/A
Midsized Cars	0.00	0.00	0.00	58.32	58.14	58.01	57.85	57.74	57.66	57.56	57.50	57.46	57.42	57.38	N/A
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.66	55.55	55.48	55.41	55.33	55.28	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Midsize Cars	32.83	32.88	32.94	32.98	33.07	33.21	33.31	33.42	33.51	33.56	33.58	33.65	33.66	33.68	0.6%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	0.00	0.00	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Midsize Cars	31.75	31.80	31.85	31.89	31.99	32.12	32.23	32.31	32.42	32.45	32.48	32.56	32.57	32.58	0.6%
Large Cars	29.88	29.94	29.99	30.04	30.14	30.28	30.39	30.50	30.64	30.67	30.72	30.82	30.86	30.88	0.6%
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	0.00	N/A
Small Pickup	29.00	29.08	29.16	29.26	29.34	29.50	29.62	29.74	29.88	29.92	29.96	30.06	30.09	30.11	0.7%
Large Pickup	21.90	21.97	22.04	22.12	22.24	22.39	22.50	22.59	22.72	22.78	22.84	22.93	22.95	22.97	0.7%
Small Van	28.00	28.05	28.13	28.20	28.30	28.48	28.63	28.76	28.90	28.99	29.08	29.20	29.23	29.26	0.6%
Large Van	28.87	28.92	28.99	29.07	29.15	29.33	29.48	29.62	29.81	29.88	29.97	30.11	30.16	30.19	0.6%
Small Utility	26.51	26.63	26.73	26.85	27.01	27.22	27.40	27.54	27.72	27.83	27.89	27.96	27.99	28.01	N/A
Large Utility	22.12	22.20	22.29	22.40	22.52	22.69	22.82	22.91	23.03	23.11	23.19	23.30	23.36	23.39	0.8%
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	0.00	N/A
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	0.00	N/A
Compact Cars	38.70	38.67	38.66	38.62	38.65	38.72	38.74	38.79	38.84	38.82	38.81	38.84	38.81	38.79	0.5%
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	0.00	N/A
Large Cars	31.45	31.48	31.51	31.53	31.59	31.71	31.78	31.85	31.96	32.00	32.00	32.07	32.08	32.09	0.5%
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	0.00	N/A
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	0.00	N/A
Large Pickup	22.68	22.72	22.77	22.83	22.91	23.06	23.14	23.21	23.31	23.34	23.37	23.43	23.45	23.45	0.5%
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	0.00	N/A
Large Van	30.52	30.53	30.57	30.60	30.67	30.80	30.90	31.01	31.17	31.21	31.27	31.39	31.42	31.44	0.5%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Compact Cars	35.85	35.81	35.79	35.75	35.78	35.85	35.87	35.92	35.96	35.94	35.92	35.96	35.91	35.88	0.5%
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	0.00	N/A
Large Cars	28.76	28.81	28.86	28.92	29.00	29.16	29.25	29.36	29.49	29.49	29.52	29.61	29.63	29.63	0.5%
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	0.00	N/A
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	0.00	N/A
Large Pickup	20.84	20.89	20.94	21.00	21.08	21.20	21.25	21.32	21.38	21.42	21.45	21.48	21.48	21.48	0.5%
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	0.00	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Large Van	28.09	28.11	28.16	28.18	28.24	28.39	28.51	28.63	28.75	28.83	28.91	29.02	29.02	29.02	0.5%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Large Pickup	22.35	22.41	22.48	22.56	22.66	22.82	22.92	23.02	23.13	23.19	23.24	23.32	23.36	23.38	0.6%
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	0.00	N/A
Large Van	29.95	29.99	30.04	30.11	30.21	30.36	30.49	30.62	30.80	30.87	30.95	31.09	31.15	31.19	0.6%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Compact Cars	35.50	35.51	35.54	35.54	35.61	35.74	35.80	35.88	35.95	35.97	35.98	36.05	36.03	36.01	0.5%
Midsized Cars	30.78	30.82	30.88	30.91	30.99	31.14	31.24	31.31	31.42	31.43	31.45	31.51	31.51	31.51	0.5%
Large Cars	29.02	29.08	29.15	29.20	29.30	29.48	29.58	29.69	29.83	29.84	29.87	29.98	30.00	30.01	0.5%
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	0.00	N/A
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	0.00	N/A
Large Pickup	21.57	21.62	21.69	21.75	21.85	22.00	22.07	22.15	22.24	22.30	22.34	22.41	22.42	22.44	0.6%
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	0.00	N/A
Large Van	28.82	28.85	28.90	28.96	29.03	29.19	29.32	29.46	29.64	29.70	29.78	29.91	29.95	29.97	0.6%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Two Seater Cars	34.76	34.74	34.72	34.69	34.72	34.75	34.78	34.80	34.84	34.85	34.87	34.89	34.90	34.90	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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Small Utility	27.99	27.94	27.90	27.86	27.87	27.89	27.90	27.91	27.93	27.94	27.96	27.98	27.99	28.00	0.6%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Compact Cars	54.16	54.07	54.00	53.91	53.88	53.89	53.88	53.88	53.89	53.86	53.84	53.83	53.80	53.78	N/A
Midsized Cars	47.54	47.46	47.40	47.33	47.32	47.34	47.35	47.37	47.40	47.39	47.39	47.40	47.38	47.37	N/A
Large Cars	45.05	44.98	44.93	44.86	44.86	44.88	44.91	44.95	45.00	45.01	45.04	45.07	45.06	45.06	N/A
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	0.00	N/A
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	0.00	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.00	N/A
Small Van	43.45	43.30	43.20	43.09	43.07	43.09	43.10	43.15	43.21	43.25	43.30	43.36	43.38	43.40	N/A
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	0.00	N/A
Small Utility	0.00	0.00	0.00	42.90	42.80	42.75	42.70	42.69	42.71	42.73	42.76	42.82	42.86	42.90	N/A
Large Utility	34.79	34.65	34.55	34.46	34.44	34.46	34.50	34.55	34.62	34.68	34.75	34.85	34.88	34.91	N/A
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	0.00	N/A
Subcompact Cars	45.55	45.54	45.55	45.56	45.61	45.70	45.77	45.83	45.91	45.95	45.98	46.04	46.05	46.06	N/A
Compact Cars	48.45	48.38	48.33	48.26	48.24	48.26	48.25	48.26	48.27	48.24	48.22	48.22	48.19	48.16	0.2%
Midsized Cars	41.34	41.30	41.27	41.23	41.23	41.27	41.29	41.32	41.37	41.37	41.37	41.40	41.39	41.37	0.1%
Large Cars	38.93	38.91	38.93	38.94	39.00	39.09	39.15	39.21	39.28	39.31	39.33	39.39	39.40	39.40	N/A
Two Seater Cars	37.82	37.82	37.82	37.82	37.86	37.95	38.00	38.06	38.13	38.16	38.19	38.25	38.25	38.24	0.3%
Small Pickup	0.00	0.00	0.00	41.64	41.52	41.43	41.35	41.31	41.28	41.26	41.26	41.28	41.29	41.30	N/A
Large Pickup	30.21	30.17	30.16	30.15	30.19	30.26	30.33	30.41	30.52	30.54	30.59	30.68	30.71	30.73	N/A
Small Van	37.57	37.51	37.48	37.44	37.48	37.59	37.67	37.75	37.85	37.90	37.95	38.04	38.07	38.08	N/A
Large Van	41.32	41.19	41.10	41.01	41.00	41.04	41.07	41.13	41.21	41.27	41.34	41.41	41.45	41.48	N/A
Small Utility	34.86	34.87	34.89	34.91	34.98	35.11	35.22	35.32	35.45	35.53	35.59	35.65	35.67	35.69	N/A
Large Utility	28.31	28.32	28.34	28.37	28.42	28.55	28.65	28.76	28.85	28.91	28.98	29.08	29.09	29.10	0.2%
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Subcompact Cars	57.10	57.05	57.01	56.96	56.99	57.03	57.07	57.10	57.14	57.16	57.18	57.21	57.22	57.22	-0.1%
Compact Cars	0.00	59.59	59.54	59.49	59.52	59.57	59.61	59.65	59.68	59.70	59.73	59.75	59.76	59.77	N/A
Midsized Cars	51.11	51.07	51.03	50.99	51.01	51.05	51.08	51.11	51.14	51.16	51.17	51.20	51.20	51.21	N/A
Large Cars	47.14	47.10	47.07	47.03	47.05	47.08	47.10	47.13	47.17	47.19	47.22	47.25	47.26	47.27	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Small Van	40.27	40.20	40.14	40.08	40.09	40.11	40.14	40.16	40.18	40.20	40.21	40.23	40.25	40.27	N/A
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	0.00	N/A
Small Utility	43.03	42.95	42.89	42.82	42.84	42.86	42.89	42.90	42.93	42.95	42.97	43.00	43.02	43.03	0.0%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.76	32.78	32.79	32.81	32.82	32.84	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Large Cars	40.28	40.25	40.22	40.19	40.21	40.23	40.25	40.27	40.31	40.33	40.35	40.37	40.39	40.40	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005- 2030
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	0.00	N/A
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	0.00	N/A
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	0.00	N/A
Small Van	34.41	34.36	34.30	34.25	34.26	34.28	34.30	34.32	34.33	34.35	34.36	34.38	34.40	34.41	N/A
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	0.00	N/A
Small Utility	36.77	36.71	36.65	36.59	36.61	36.63	36.65	36.67	36.69	36.70	36.73	36.75	36.76	36.78	N/A
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	0.00	N/A

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

Sources: 2004 and 2005 values derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model (Washington, DC, June 1998), prepared for Energy Information Administration (EIA); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Gasoline													
Mini-compact Cars	59.0	59.1	59.4	59.7	60.0	60.2	60.3	60.4	60.5	60.5	60.6	60.6	60.6
Subcompact Cars	21.1	21.3	21.5	21.7	21.9	22.1	22.2	22.3	22.3	22.3	22.4	22.4	22.5
Compact Cars	21.2	21.3	21.6	21.8	22.1	22.3	22.5	22.5	22.6	22.6	22.7	22.8	22.8
Midsized Cars	27.8	27.9	28.2	28.4	28.7	28.9	29.1	29.2	29.2	29.3	29.3	29.4	29.4
Large Cars	35.5	35.7	35.9	36.1	36.3	36.5	36.6	36.7	36.8	36.8	36.9	36.9	37.0
Two Seater Cars	47.1	47.2	47.4	47.7	47.9	48.1	48.3	48.4	48.4	48.5	48.5	48.6	48.6
Small Pickup	19.4	19.4	19.9	20.2	20.7	20.8	20.9	21.1	21.1	21.2	21.2	21.3	21.3
Large Pickup	26.9	26.9	27.4	27.6	28.1	28.2	28.4	28.6	28.7	28.7	28.8	28.8	28.9
Small Van	28.4	28.4	28.9	29.1	29.6	29.7	29.8	30.0	30.0	30.1	30.1	30.2	30.2
Large Van	24.3	24.3	24.8	25.1	25.6	25.6	25.8	26.0	26.0	26.0	26.1	26.1	26.2
Small Utility	29.3	29.3	29.8	30.1	30.6	30.7	30.8	31.0	31.0	31.0	31.1	31.1	31.2
Large Utility	38.2	38.1	38.6	38.9	39.4	39.5	39.7	39.9	39.9	40.0	40.0	40.1	40.1
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	0.0	23.8	23.9	23.9	23.9	23.9	24.0	24.0
Compact Cars	22.6	22.7	22.9	23.1	23.3	23.5	23.6	24.0	24.0	24.0	24.1	24.1	24.1
Midsized Cars	30.1	30.0	30.1	30.3	30.5	30.7	30.8	31.1	31.1	31.2	31.2	31.2	31.3
Large Cars	0.0	0.0	0.0	38.4	38.5	38.6	38.7	38.9	38.9	39.0	39.0	39.0	39.0
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	23.3	23.7	23.8	23.8	24.0	24.0	24.1	24.1	24.1	24.1
Large Pickup	28.5	28.5	28.9	29.2	29.6	29.7	29.8	30.0	30.0	30.0	30.1	30.1	30.2
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	33.0	33.1	33.1	33.1	33.1	33.1	33.1
Large Van	26.2	26.3	26.7	27.0	27.5	27.5	27.5	27.7	27.7	27.7	27.7	27.8	27.8
Small Utility	0.0	31.5	31.9	32.1	32.5	32.6	32.7	32.9	32.9	33.0	33.0	33.0	33.1
Large Utility	39.8	39.7	40.2	40.4	40.9	40.9	41.1	41.2	41.3	41.3	41.4	41.4	41.4
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	30.3	30.5	30.7	31.0	31.2	31.4	31.6	31.9	31.9	31.9	32.0	32.0	32.0
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
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	0.0	0.0	0.0	0.0	28.2	28.2
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

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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
Midsize Cars	30.2	30.3	30.5	30.8	31.0	31.2	31.4	31.7	31.7	31.7	31.8	31.8	31.8
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	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	29.1	28.5	28.7	28.8	29.0	29.2	29.4	29.7	29.8	29.8	29.8	29.9	29.9
Large Cars	38.1	37.4	37.4	37.0	37.1	37.2	37.2	37.5	37.6	37.6	37.7	37.8	37.8
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	22.2	22.2	22.6	22.9	23.3	23.1	23.0	23.2	23.2	23.3	23.3	23.3	23.4
Large Pickup	27.3	27.4	27.9	28.1	28.5	28.6	28.7	28.9	29.0	29.0	29.1	29.1	29.2
Small Van	30.8	31.0	31.6	31.7	32.0	31.9	31.8	31.9	31.9	31.9	32.0	32.0	32.0
Large Van	24.9	24.9	25.4	25.6	26.0	26.0	26.1	26.4	26.4	26.4	26.4	26.5	26.5
Small Utility	0.0	0.0	0.0	30.3	30.8	30.9	31.0	31.2	31.3	31.3	31.3	31.4	31.4
Large Utility	38.5	38.4	38.9	39.2	39.7	39.8	40.0	40.2	40.2	40.3	40.3	40.4	40.4
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	27.9	28.0	28.2	28.5	28.8	28.9	29.1	29.5	29.5	29.5	29.6	29.6	29.7
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	42.6	42.7	42.9	43.1	43.3	43.4	43.6	43.9	43.9	43.9	44.0	44.0	44.1
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	33.9	33.9	34.4	34.7	35.1	35.2	35.4	35.6	35.6	35.7	35.8	35.8	35.9
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	31.4	31.3	31.8	32.1	32.5	32.6	32.7	32.9	33.0	33.0	33.1	33.1	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
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	26.7	26.8	27.0	27.3	27.5	27.7	27.9	28.2	28.3	28.3	28.4	28.4	28.5
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	41.7	41.8	42.0	42.2	42.3	42.5	42.7	42.8	42.8	42.9	42.9	43.0
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	33.0	33.0	33.5	33.8	34.3	34.4	34.6	34.8	34.8	34.9	34.9	35.0	35.1
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

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Large Van	30.4	30.5	30.9	31.2	31.7	31.7	31.8	32.1	32.1	32.2	32.2	32.3	32.3
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	33.2	33.2	33.6	33.9	34.4	34.5	34.7	34.9	35.0	35.0	35.1	35.1	35.2
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	30.6	30.6	31.1	31.4	31.9	31.9	32.0	32.3	32.3	32.3	32.4	32.4	32.5
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	0.0	26.2	26.4	26.6	26.9	27.1	27.3	27.6	27.6	27.6	27.7	27.7	27.8
Midsize Cars	0.0	33.0	33.2	33.4	33.7	33.9	34.1	34.4	34.5	34.5	34.5	34.6	34.6
Large Cars	0.0	40.8	41.0	41.1	41.3	41.5	41.6	41.9	41.9	42.0	42.0	42.0	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	32.0	32.0	32.5	32.8	33.2	33.4	33.5	33.8	33.8	33.9	33.9	34.0	34.1
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	29.5	29.4	29.9	30.2	30.7	30.7	30.9	31.1	31.1	31.2	31.2	31.3	31.3
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	74.8	76.7	78.4	80.1	79.7	79.1	78.8	78.6	78.4	78.3	78.2	77.7	77.7
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	60.4	62.6	65.0	66.9	65.6	65.0	64.7	64.4	64.2	64.1	63.9	63.4	63.5
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
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	0.0	28.8	28.8	28.8	28.8	28.8	28.8	28.8
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0	35.4	35.4	35.4	35.5
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.5	44.4	44.4
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

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	38.9	38.9
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	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
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	0.0	27.3	27.0	26.9	26.9	26.8	26.8
Compact Cars	24.6	24.7	24.8	24.8	24.7	25.0	24.9	25.2	25.1	25.1	25.0	25.0	24.9
Midsized Cars	0.0	31.5	31.0	31.0	31.1	31.1	31.2	31.3	31.3	31.3	31.3	31.3	31.3
Large Cars	0.0	0.0	0.0	0.0	0.0	40.6	39.6	39.6	39.6	39.6	39.6	39.5	39.5
Two Seater Cars	52.9	53.0	53.1	53.2	53.3	53.3	53.4	53.5	53.5	53.5	53.5	53.4	53.5
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	35.0	34.0	34.0	33.8	33.8
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	36.9	36.3	36.2	36.0	36.0	35.9	35.8
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	29.8
Small Utility	0.0	0.0	0.0	0.0	34.1	33.6	33.6	33.7	33.6	33.6	33.6	33.5	33.5
Large Utility	0.0	43.5	43.1	43.2	43.4	43.4	43.4	43.4	43.3	43.3	43.2	43.1	43.2
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	0.0	76.9	75.4	73.9	72.4	70.1	68.1	66.4	64.9	63.4	62.0	60.6	59.3
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	75.2	73.7	72.1	70.7
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	80.9
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	0.0	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	83.5	81.5	79.7
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	101.2	99.6	97.1	92.9	90.6	88.2	85.6	83.7	81.8	79.9	78.1	76.4
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 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	0.0	121.8	116.9	112.6	108.9	105.8	102.9	100.1	97.3	94.8

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	110.8	107.5	104.2	101.0	98.1
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	106.8	103.7	100.6	97.6	94.9
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
Average Price													
Cars	26.3	26.4	26.7	27.2	27.6	27.8	27.9	28.0	28.0	28.1	28.2	28.2	28.2
Trucks	29.9	29.9	30.5	30.7	31.2	31.3	31.4	31.6	31.7	31.7	31.8	31.9	31.9
Light Duty Vehicles	28.2	28.1	28.4	28.7	29.2	29.4	29.6	29.8	29.9	29.9	30.0	30.1	30.2

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Gasoline															
Mini-compact Cars	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	0.1%
Subcompact Cars	22.5	22.5	22.5	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	0.3%
Compact Cars	22.8	22.9	22.9	22.9	23.0	23.0	23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.2	0.3%
Midsized Cars	29.5	29.5	29.5	29.6	29.6	29.6	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	0.3%
Large Cars	37.0	37.0	37.1	37.1	37.2	37.2	37.2	37.3	37.3	37.3	37.3	37.4	37.4	37.4	0.2%
Two Seater Cars	48.6	48.6	48.7	48.7	48.7	48.8	48.8	48.8	48.9	48.9	48.9	48.9	48.9	48.9	0.1%
Small Pickup	21.4	21.4	21.4	21.5	21.5	21.6	21.6	21.6	21.7	21.7	21.7	21.7	21.7	21.7	0.5%
Large Pickup	28.9	29.0	29.0	29.1	29.1	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	0.3%
Small Van	30.2	30.3	30.3	30.4	30.4	30.5	30.5	30.6	30.6	30.6	30.7	30.7	30.7	30.7	0.3%
Large Van	26.2	26.3	26.3	26.4	26.4	26.5	26.5	26.5	26.6	26.6	26.6	26.7	26.7	26.7	0.4%
Small Utility	31.2	31.2	31.3	31.3	31.4	31.4	31.5	31.5	31.5	31.5	31.6	31.6	31.6	31.6	0.3%
Large Utility	40.2	40.2	40.3	40.3	40.4	40.4	40.5	40.5	40.5	40.6	40.6	40.6	40.6	40.6	0.3%
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	0.0	N/A
Subcompact Cars	24.0	24.1	24.1	24.1	24.1	24.2	24.2	24.2	24.2	24.2	24.3	24.3	24.3	24.3	N/A
Compact Cars	24.1	24.1	24.1	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.3	24.3	24.3	24.3	0.3%
Midsized Cars	31.3	31.3	31.3	31.3	31.3	31.3	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	0.2%
Large Cars	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	N/A
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	0.0	N/A
Small Pickup	24.1	24.1	24.1	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	23.9	23.9	N/A
Large Pickup	30.2	30.3	30.3	30.3	30.4	30.4	30.4	30.5	30.5	30.5	30.5	30.6	30.6	30.6	0.3%
Small Van	33.1	33.1	33.1	33.1	33.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	N/A
Large Van	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.9	27.9	27.9	28.0	28.0	28.0	28.0	0.2%
Small Utility	33.1	33.1	33.2	33.2	33.2	33.3	33.3	33.3	33.4	33.4	33.4	33.4	33.5	33.5	0.2%
Large Utility	41.5	41.5	41.6	41.6	41.6	41.7	41.7	41.8	41.8	41.9	41.9	41.9	41.9	41.9	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Midsized Cars	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	0.2%
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Compact Cars	28.2	28.3	28.3	28.3	28.4	28.4	28.5	28.5	28.5	28.5	28.6	28.6	28.6	28.6	N/A
Midsized Cars	0.0	0.0	0.0	36.1	36.1	36.1	36.1	36.2	36.2	36.2	36.2	36.2	36.3	36.3	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	44.0	44.1	44.1	44.1	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Midsize Cars	31.9	31.9	31.9	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	0.2%
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	0.0	0.0	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Midsize Cars	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.2	30.2	30.2	30.2	30.2	30.2	0.2%
Large Cars	37.8	37.9	37.9	37.9	38.0	38.0	38.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	0.1%
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	0.0	N/A
Small Pickup	23.4	23.4	23.4	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	0.2%
Large Pickup	29.2	29.3	29.3	29.4	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	0.3%
Small Van	32.0	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	0.2%
Large Van	26.6	26.6	26.7	26.7	26.7	26.8	26.8	26.9	26.9	26.9	27.0	27.0	27.0	27.0	0.3%
Small Utility	31.5	31.5	31.5	31.6	31.6	31.7	31.7	31.8	31.8	31.8	31.8	31.9	31.9	31.9	N/A
Large Utility	40.5	40.5	40.6	40.6	40.7	40.7	40.8	40.8	40.8	40.9	40.9	40.9	40.9	40.9	0.3%
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	0.0	N/A
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	0.0	N/A
Compact Cars	29.7	29.7	29.8	29.8	29.9	29.9	29.9	30.0	30.0	30.0	30.0	30.1	30.1	30.1	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	0.0	N/A
Large Cars	44.1	44.2	44.2	44.2	44.3	44.3	44.4	44.4	44.4	44.4	44.5	44.5	44.5	44.5	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	0.0	N/A
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	0.0	N/A
Large Pickup	35.9	36.0	36.0	36.1	36.2	36.2	36.3	36.3	36.3	36.4	36.4	36.4	36.4	36.4	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	0.0	N/A
Large Van	33.2	33.3	33.3	33.4	33.4	33.5	33.5	33.6	33.6	33.7	33.7	33.8	33.8	33.8	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Compact Cars	28.5	28.6	28.6	28.6	28.7	28.7	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	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	0.0	N/A
Large Cars	43.0	43.0	43.1	43.1	43.2	43.2	43.3	43.3	43.3	43.4	43.4	43.4	43.4	43.4	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	0.0	N/A
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	0.0	N/A
Large Pickup	35.1	35.2	35.2	35.3	35.4	35.4	35.5	35.5	35.5	35.6	35.6	35.6	35.6	35.6	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	0.0	N/A

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Large Van	32.4	32.4	32.5	32.5	32.6	32.7	32.7	32.8	32.8	32.9	32.9	32.9	33.0	33.0	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Large Pickup	35.2	35.2	35.3	35.3	35.4	35.4	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	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	0.0	N/A
Large Van	32.5	32.5	32.6	32.6	32.7	32.7	32.8	32.8	32.8	32.9	32.9	32.9	32.9	32.9	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Compact Cars	27.8	27.9	27.9	27.9	28.0	28.0	28.1	28.1	28.1	28.1	28.2	28.2	28.2	28.2	0.3%
Midsize Cars	34.7	34.7	34.8	34.8	34.9	34.9	34.9	35.0	35.0	35.0	35.0	35.0	35.1	35.1	0.2%
Large Cars	42.1	42.2	42.2	42.3	42.3	42.3	42.4	42.4	42.4	42.5	42.5	42.5	42.5	42.5	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	0.0	N/A
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	0.0	N/A
Large Pickup	34.1	34.2	34.2	34.3	34.3	34.4	34.4	34.4	34.5	34.5	34.5	34.5	34.6	34.6	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	0.0	N/A
Large Van	31.4	31.4	31.5	31.5	31.6	31.6	31.7	31.7	31.8	31.8	31.8	31.9	31.9	31.9	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Two Seater Cars	77.7	77.7	77.8	77.8	77.8	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Small Utility	63.5	63.5	63.5	63.6	63.6	63.6	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Compact Cars	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	N/A
Midsize Cars	35.6	35.6	35.7	35.7	35.8	35.9	35.9	36.0	36.1	36.1	36.2	36.2	36.2	36.2	N/A
Large Cars	44.4	44.5	44.5	44.5	44.5	44.6	44.6	44.6	44.6	44.7	44.7	44.7	44.7	44.7	N/A
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	0.0	N/A
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	0.0	N/A

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.0	N/A
Small Van	38.9	38.9	39.0	39.0	39.0	39.1	39.1	39.1	39.1	39.2	39.2	39.2	39.2	39.2	N/A
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	0.0	N/A
Small Utility	0.0	0.0	0.0	39.9	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.1	40.1	40.1	N/A
Large Utility	49.1	49.1	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.4	49.4	49.4	49.4	49.4	N/A
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	0.0	N/A
Subcompact Cars	26.7	26.7	26.6	26.6	26.6	26.5	26.6	26.5	26.5	26.5	26.4	26.3	26.3	26.2	N/A
Compact Cars	24.9	24.9	24.8	24.8	24.7	24.7	24.7	24.7	24.7	24.8	24.8	24.8	24.8	24.8	0.0%
Midsized Cars	31.3	31.4	31.4	31.4	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.6	31.6	0.0%
Large Cars	39.6	39.6	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.5	39.5	39.5	N/A
Two Seater Cars	53.5	53.5	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.7	53.7	53.7	53.7	53.7	0.1%
Small Pickup	0.0	0.0	0.0	28.6	28.6	28.7	28.7	28.7	28.7	28.6	28.6	28.5	28.4	28.3	N/A
Large Pickup	33.8	33.7	33.7	33.7	33.6	33.6	33.6	33.5	33.5	33.5	33.4	33.4	33.3	33.3	N/A
Small Van	35.8	35.7	35.6	35.6	35.6	35.5	35.5	35.4	35.4	35.4	35.3	35.2	35.2	35.1	N/A
Large Van	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	N/A
Small Utility	33.6	33.6	33.6	33.7	33.7	33.7	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	N/A
Large Utility	43.2	43.2	43.2	43.3	43.3	43.3	43.4	43.4	43.5	43.5	43.5	43.5	43.6	43.6	0.0%
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Subcompact Cars	58.1	56.9	55.8	54.7	53.7	52.7	51.8	50.8	49.9	49.1	48.3	47.6	46.9	46.2	-2.0%
Compact Cars	0.0	57.6	56.5	55.5	54.5	53.5	52.6	51.7	50.9	50.1	49.4	48.7	48.0	47.4	N/A
Midsized Cars	69.3	68.0	66.8	65.5	64.4	63.2	62.2	61.2	60.2	59.3	58.4	57.6	56.8	56.1	N/A
Large Cars	79.5	78.0	76.7	75.4	74.1	72.9	71.8	70.7	69.5	68.6	67.6	66.7	65.9	65.1	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Small Van	78.1	76.4	74.9	73.3	71.9	70.4	69.1	67.8	66.5	65.4	64.3	63.2	62.2	61.3	N/A
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	0.0	N/A
Small Utility	74.9	73.3	71.9	70.5	69.1	67.7	66.5	65.3	64.1	63.0	62.0	61.0	60.1	59.2	-2.1%
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.8	81.4	80.0	78.7	77.5	76.4	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Large Cars	92.2	89.9	87.7	85.5	85.5	85.4	85.4	85.4	85.3	85.3	85.3	85.3	85.3	85.2	N/A

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005- 2030
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	0.0	N/A
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	0.0	N/A
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	0.0	N/A
Small Van	95.2	92.5	89.9	87.4	87.4	87.3	87.3	87.3	87.2	87.2	87.2	87.2	87.1	87.1	N/A
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	0.0	N/A
Small Utility	92.2	89.7	87.3	84.9	84.9	84.9	84.8	84.8	84.8	84.8	84.7	84.7	84.7	84.7	N/A
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	0.0	N/A
Average Price															
Cars	28.2	28.3	28.3	28.4	28.4	28.4	28.5	28.5	28.5	28.6	28.6	28.6	28.6	28.6	0.3%
Trucks	32.0	32.0	32.1	32.1	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.5	32.5	32.5	0.3%
Light Duty Vehicles	30.2	30.3	30.3	30.4	30.5	30.5	30.6	30.6	30.7	30.7	30.7	30.8	30.8	30.8	0.4%

Table 60. New Light-Duty Vehicle Prices
(thousand 2005 dollars)

Sources: 2004 and 2005 values derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model (Washington, DC, June 1998), prepared for Energy Information Administration (EIA); and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Gasoline													
Mini-compact Cars	422	423	435	444	451	472	484	488	491	491	492	494	494
Subcompact Cars	409	408	412	420	423	441	452	456	458	458	460	461	462
Compact Cars	460	462	469	477	478	496	507	510	511	511	512	512	512
Midsized Cars	473	474	480	486	488	504	515	518	520	521	522	523	524
Large Cars	486	486	487	488	489	503	515	519	522	523	525	526	527
Two Seater Cars	406	406	408	411	414	427	437	441	444	446	448	449	450
Small Pickup	452	458	465	472	497	496	501	516	517	518	520	523	524
Large Pickup	486	494	498	501	517	521	529	544	545	546	548	551	553
Small Van	560	565	568	575	598	598	605	622	621	621	622	623	625
Large Van	838	848	853	861	902	900	909	940	938	937	937	939	941
Small Utility	432	438	444	451	477	479	485	499	499	500	501	503	505
Large Utility	518	525	529	532	552	557	567	583	583	585	587	589	592
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	0	610	615	618	619	621	623	624
Compact Cars	621	624	633	644	646	670	685	689	690	690	691	692	692
Midsized Cars	638	640	648	656	659	680	695	700	702	703	705	706	707
Large Cars	0	0	0	659	660	679	695	701	704	705	708	710	711
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	638	670	676	697	698	699	702	706	708	708
Large Pickup	657	667	673	677	699	703	715	735	736	737	740	743	746
Small Van	0	0	0	0	0	0	816	840	839	839	840	842	844
Large Van	1131	1145	1152	1162	1218	1216	1227	1269	1266	1265	1266	1268	1270
Small Utility	0	591	599	609	644	647	655	673	674	675	677	679	681
Large Utility	700	708	714	718	746	751	765	787	788	789	792	796	799
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	270	270	273	277	278	287	294	295	297	297	298	298	299
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
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	0	0	0	0	640	641
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)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	359	360	365	369	371	383	391	394	395	396	397	397	398
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	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	345	346	350	355	356	368	376	378	380	380	381	382	382
Large Cars	355	354	355	356	357	367	376	379	381	381	383	384	385
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	330	335	339	345	362	362	366	377	378	378	379	382	383
Large Pickup	355	361	364	366	378	380	387	397	398	399	400	402	403
Small Van	409	412	415	420	437	437	441	454	454	453	454	455	456
Large Van	612	619	623	628	658	657	664	686	685	684	684	686	687
Small Utility	0	0	0	329	348	350	354	364	364	365	366	367	368
Large Utility	378	383	386	388	403	406	414	425	426	427	428	430	432
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	276	277	281	286	287	298	304	306	307	307	307	307	307
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	292	291	292	293	293	302	309	312	313	314	315	316	316
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	292	296	299	301	310	312	318	327	327	328	329	330	332
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	503	509	512	516	541	540	545	564	563	562	562	563	565
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
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	230	231	234	238	239	248	254	255	256	256	256	256	256
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	243	243	244	244	252	257	260	261	261	262	263	263
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	243	247	249	251	259	260	265	272	273	273	274	275	276
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	419	424	427	430	451	450	455	470	469	469	469	470	470
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)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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
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	414	420	423	426	440	443	450	463	463	464	466	468	470
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	712	721	725	732	767	765	773	799	797	796	797	798	800
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	0	370	375	381	383	397	406	408	409	409	410	410	410
Midsize Cars	0	379	384	389	390	403	412	415	416	417	418	418	419
Large Cars	0	388	389	390	391	403	412	416	417	418	420	421	422
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	389	395	399	401	414	417	424	435	436	437	439	441	442
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	670	679	683	689	722	720	727	752	750	750	750	751	753
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
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	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
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	0	660	663	665	665	666	666	666
Midsize Cars	0	0	0	0	0	0	0	0	676	677	679	680	681
Large Cars	0	0	0	0	0	0	0	0	0	0	682	684	685
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	810	812
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)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	0	570	572	573	575	577	578
Compact Cars	575	578	586	596	598	620	634	638	639	639	640	640	641
Midsized Cars	0	593	600	607	610	630	644	648	650	651	653	654	655
Large Cars	0	0	0	0	0	629	644	649	652	653	656	657	659
Two Seater Cars	507	507	510	514	518	533	546	552	555	558	560	561	562
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	681	683	685	688	691
Small Van	0	0	0	0	0	0	756	778	777	776	777	779	781
Large Van	0	0	0	0	0	0	0	0	0	0	0	1174	1176
Small Utility	0	0	0	0	597	599	607	624	624	625	627	629	631
Large Utility	0	656	661	665	690	696	709	728	729	731	734	737	739
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	0	408	412	420	423	441	452	456	458	458	460	461	462
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	521	522	523	524
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	527
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	622	623	625
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	438	444	451	477	479	485	499	499	500	501	503	505
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	489	503	515	519	522	523	525	526	527
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	621	621	622	623	625
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	499	500	501	503	505
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Gasoline															
Mini-compact Cars	495	496	497	498	499	502	503	504	506	507	507	508	508	508	0.7%
Subcompact Cars	463	464	466	466	468	471	473	475	476	477	478	479	479	480	0.6%
Compact Cars	513	513	513	514	515	517	518	520	521	521	521	522	522	522	0.5%
Midsized Cars	525	525	526	527	528	531	532	534	536	536	536	538	538	538	0.5%
Large Cars	528	529	530	530	532	535	537	539	541	541	542	544	545	545	0.5%
Two Seater Cars	451	451	452	453	455	458	459	461	463	464	464	465	466	466	0.6%
Small Pickup	526	527	529	531	532	535	537	539	541	542	543	545	545	545	0.7%
Large Pickup	555	557	559	561	564	568	570	572	575	577	579	581	582	582	0.7%
Small Van	627	628	629	631	633	637	640	643	646	648	650	653	654	654	0.6%
Large Van	943	945	947	949	952	958	963	967	973	976	979	983	985	986	0.6%
Small Utility	507	508	510	512	514	519	522	524	527	529	531	532	532	533	0.8%
Large Utility	594	596	599	602	605	610	613	615	619	621	623	626	628	628	0.7%
Turbo Direct Injection Diesel															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	625	627	629	630	632	636	638	641	643	644	645	647	647	647	N/A
Compact Cars	692	693	693	694	695	698	700	701	703	703	704	705	705	705	0.5%
Midsized Cars	708	709	710	711	713	717	719	721	723	724	724	726	726	726	0.5%
Large Cars	713	714	715	716	718	722	725	728	730	731	732	735	735	736	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	710	712	714	716	718	722	725	728	731	732	733	735	736	736	N/A
Large Pickup	749	752	754	757	761	766	769	773	776	779	781	784	785	786	0.7%
Small Van	846	847	850	851	854	860	864	868	872	875	878	881	882	883	N/A
Large Van	1273	1275	1278	1282	1285	1293	1299	1306	1314	1317	1321	1328	1330	1331	0.6%
Small Utility	684	686	688	691	694	700	704	708	712	715	716	718	719	719	0.8%
Large Utility	802	805	808	812	817	823	827	831	835	838	841	846	847	848	0.7%
Methanol Flex															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsized Cars	299	299	300	300	301	303	304	304	305	306	306	306	306	307	0.5%
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Plug-in Gasoline Hybrid															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	641	641	642	642	644	646	648	649	651	651	652	653	653	653	N/A
Midsized Cars	0	0	0	659	660	663	666	667	670	670	671	672	672	672	N/A
Large Cars	0	0	0	0	0	0	0	0	676	677	678	680	681	681	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Ethanol															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsized Cars	399	399	400	400	402	403	405	406	407	407	408	409	409	409	0.5%
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Ethanol Flex															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsized Cars	383	384	384	385	386	387	389	390	391	391	392	392	392	393	0.5%
Large Cars	385	386	387	387	389	390	392	393	395	395	396	397	398	398	0.5%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	384	385	386	387	388	390	392	393	395	396	396	398	398	398	0.7%
Large Pickup	405	406	408	409	411	414	416	418	420	421	422	424	425	425	0.7%
Small Van	457	458	459	460	462	465	467	470	472	473	475	477	477	477	0.6%
Large Van	689	690	691	693	695	699	703	706	711	712	714	718	719	720	0.6%
Small Utility	370	371	372	374	375	379	381	383	385	386	387	388	389	389	N/A
Large Utility	434	435	437	439	442	445	447	449	452	453	455	457	458	459	0.7%
Compressed Natural Gas															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	308	308	308	308	309	310	311	312	312	313	313	313	313	313	0.5%
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	317	317	318	318	319	321	322	323	325	325	325	326	327	327	0.5%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	333	334	335	336	338	341	342	343	345	346	347	349	349	349	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	566	567	568	570	571	575	578	580	584	585	587	590	591	592	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compressed Natural Gas Bi-Fuel															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	256	256	257	257	257	258	259	260	260	261	261	261	261	261	0.5%
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	264	264	265	265	266	267	268	270	271	271	272	272	272	273	0.5%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	277	278	279	280	282	284	285	286	288	289	289	290	291	291	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	472	472	473	475	476	479	481	484	487	488	489	492	493	493	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Liquefied Petroleum Gases															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	472	473	475	477	479	482	484	487	489	491	492	494	494	495	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	802	803	805	807	809	814	818	822	827	829	832	836	837	838	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Liquefied Petroleum Gases Bi-Fuel															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	410	410	411	411	412	414	415	416	417	417	417	418	418	418	0.5%
Midsized Cars	420	420	421	422	423	425	426	427	428	429	429	430	430	430	0.5%
Large Cars	422	423	424	424	426	428	430	431	433	433	434	435	436	436	0.5%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	444	445	447	449	451	454	456	458	460	462	463	465	465	466	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	755	756	757	759	762	766	770	774	779	781	783	787	788	789	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Electric															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Diesel-Electric Hybrid															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	667	667	668	668	669	672	674	675	677	677	678	679	679	679	N/A
Midsized Cars	682	683	684	685	687	690	692	694	696	697	697	699	699	699	N/A
Large Cars	686	687	688	690	692	695	698	701	703	704	705	707	708	709	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	815	816	818	820	823	828	832	836	840	843	845	849	850	850	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	665	669	674	678	681	686	688	690	691	692	693	N/A
Large Utility	772	775	778	782	786	792	797	800	804	807	810	814	816	817	N/A

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Gasoline-Electric Hybrid															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	579	581	582	583	585	589	591	593	595	597	597	599	599	599	N/A
Compact Cars	641	641	642	642	644	646	648	649	651	651	652	653	653	653	0.5%
Midsized Cars	656	657	658	659	660	663	666	667	670	670	671	672	672	672	0.5%
Large Cars	660	661	662	663	665	669	671	674	676	677	678	680	681	681	N/A
Two Seater Cars	563	564	565	567	569	572	574	576	578	580	581	582	582	582	0.6%
Small Pickup	0	0	0	663	665	668	671	674	677	678	679	681	681	682	N/A
Large Pickup	694	696	698	701	704	710	712	716	719	721	723	726	727	728	N/A
Small Van	783	785	787	788	791	796	800	804	808	810	813	816	817	817	N/A
Large Van	1179	1181	1184	1187	1190	1197	1203	1209	1217	1220	1223	1229	1231	1232	N/A
Small Utility	633	635	637	640	643	648	652	655	659	662	663	665	665	666	N/A
Large Utility	743	745	748	752	756	762	766	769	773	776	779	783	785	786	0.7%
Fuel Cell Methanol															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Fuel Cell Hydrogen															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	463	464	466	466	468	471	473	475	476	477	478	479	479	480	0.6%
Compact Cars	0	513	513	514	515	517	518	520	521	521	521	522	522	522	N/A
Midsized Cars	525	525	526	527	528	531	532	534	536	536	536	538	538	538	N/A
Large Cars	528	529	530	530	532	535	537	539	541	541	542	544	545	545	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	627	628	629	631	633	637	640	643	646	648	650	653	654	654	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	507	508	510	512	514	519	522	524	527	529	531	532	532	533	0.8%
Large Utility	0	0	0	0	0	0	0	0	619	621	623	626	628	628	N/A
Fuel Cell Gasoline															
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsized Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	528	529	530	530	532	535	537	539	541	541	542	544	545	545	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	627	628	629	631	633	637	640	643	646	648	650	653	654	654	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	507	508	510	512	514	519	522	524	527	529	531	532	532	533	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A

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

Sources: 2004 and 2005 values derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model (Washington, DC, June 1998), prepared for Energy Information Administration (EIA); and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.