

Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Use by Mode													
Highway													
Light-Duty Vehicles	15161.1	15575.7	15906.8	16472.8	16956.1	17383.6	17761.0	18145.3	18523.6	18909.9	19286.4	19680.7	20088.4
Automobiles	8876.0	8832.9	8766.0	8824.8	8847.8	8851.9	8868.7	8891.4	8906.8	8939.0	8971.8	9011.9	9058.7
Light Trucks	6259.5	6717.3	7115.4	7622.5	8082.6	8506.0	8866.5	9228.1	9591.0	9945.0	10288.6	10642.6	11003.3
Motorcycles	25.6	25.5	25.4	25.6	25.7	25.7	25.8	25.8	25.9	26.0	26.0	26.2	26.3
Commercial Light Trucks 1/ Buses	583.8	586.5	584.4	605.0	624.7	637.7	648.0	658.6	670.4	683.6	696.8	709.8	724.5
Transit	251.1	238.9	239.8	242.3	244.6	246.6	248.7	250.7	252.8	254.8	256.6	258.2	259.4
Intercity	98.9	94.1	94.5	95.5	96.4	97.2	98.0	98.8	99.6	100.4	101.1	101.7	102.2
School	36.6	34.7	34.8	35.2	35.5	35.8	36.1	36.4	36.7	37.0	37.3	37.5	37.7
Freight Trucks 2/ Medium (1000-26000 pounds)	115.7	110.1	110.5	111.7	112.7	113.6	114.6	115.5	116.5	117.4	118.2	119.0	119.5
Large (> 26000 pounds)	4223.6	4094.3	4105.2	4259.7	4417.7	4547.5	4666.3	4775.2	4893.0	5027.5	5158.6	5284.4	5413.5
	692.1	676.2	675.2	697.6	717.0	729.0	740.1	750.4	763.5	781.1	800.7	821.3	843.8
	3531.5	3418.1	3430.0	3562.1	3700.7	3818.5	3926.2	4024.8	4129.6	4246.4	4358.0	4463.1	4569.7
Non-Highway													
Air 3/	2966.8	2843.5	2720.0	2786.3	2889.5	2993.7	3076.0	3171.1	3254.8	3350.2	3428.5	3522.1	3607.3
General Aviation	181.7	175.8	169.9	173.0	177.8	182.8	186.7	191.2	195.1	199.7	203.4	207.8	211.9
Domestic Air Carriers	1623.7	1559.7	1498.3	1517.1	1542.2	1571.7	1595.6	1635.0	1669.6	1718.5	1753.7	1802.7	1845.1
International Air Carriers	564.6	515.0	498.6	518.9	539.1	559.8	576.9	593.8	609.8	626.1	640.9	657.0	673.3
Freight Carriers	596.8	593.1	553.2	577.4	630.4	679.4	716.8	751.0	780.3	806.0	830.5	854.5	877.1
Water 4/	1414.1	1271.2	1336.8	1348.0	1359.7	1369.1	1378.1	1386.0	1393.0	1400.7	1408.7	1417.2	1426.0
Freight	1111.9	959.8	1022.5	1029.4	1038.4	1045.0	1051.5	1056.6	1060.6	1065.0	1069.9	1075.0	1080.2
Domestic Shipping	338.4	315.8	311.8	317.5	324.9	330.2	335.5	339.4	342.4	345.7	349.5	353.5	357.5
International Shipping	773.5	644.0	710.6	711.9	713.5	714.9	716.0	717.1	718.2	719.3	720.4	721.5	722.6
Recreational Boats	302.2	311.4	314.3	318.6	321.3	324.1	326.6	329.4	332.4	335.7	338.7	342.2	345.9
Rail	616.2	582.1	578.8	588.4	597.8	609.7	616.6	620.1	627.0	632.1	641.3	647.7	654.0
Freight	501.8	468.5	463.2	470.1	477.1	486.7	491.4	492.6	497.2	499.9	506.7	510.7	514.3
Passenger	114.3	113.7	115.7	118.3	120.7	123.0	125.2	127.5	129.8	132.2	134.6	137.1	139.6
Intercity	26.3	25.9	26.3	26.9	27.5	28.0	28.5	29.0	29.5	30.1	30.6	31.2	31.8
Transit	46.2	46.8	47.6	48.7	49.7	50.6	51.6	52.5	53.4	54.4	55.4	56.4	57.5
Commuter	41.8	41.0	41.7	42.7	43.5	44.4	45.2	46.0	46.8	47.7	48.5	49.4	50.4
Lubricants	194.0	200.0	199.0	200.4	200.1	202.8	205.5	208.2	210.4	212.7	215.4	218.4	222.2
Pipeline Fuel Natural Gas	640.8	648.9	677.2	666.2	665.9	663.9	666.5	672.6	676.3	690.0	699.5	710.4	715.6
Military Use	619.5	661.8	716.6	741.7	750.5	752.3	757.6	762.8	767.9	772.9	777.8	782.4	786.8
Aviation	501.7	538.9	583.5	603.9	611.1	612.5	616.8	621.1	625.2	629.3	633.3	637.1	640.7
Residual Fuel Use	18.3	19.5	21.2	21.9	22.2	22.2	22.4	22.5	22.7	22.8	23.0	23.1	23.2
Distillate Fuel Use	99.5	103.4	112.0	115.9	117.2	117.5	118.4	119.2	120.0	120.8	121.5	122.2	122.9
Total	26670.9	26703.1	27064.7	27910.8	28706.5	29406.7	30024.1	30650.6	31269.2	31934.5	32569.6	33231.3	33897.8

Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Energy Use by Type													
Motor Gasoline	16115.4	16526.4	16821.0	17370.2	17821.5	18219.8	18566.8	18919.9	19268.5	19623.0	19970.0	20334.2	20713.2
Distillate (diesel)	5316.0	5123.0	5165.9	5372.4	5582.8	5764.8	5930.0	6081.8	6245.1	6427.7	6609.4	6783.5	6961.5
Jet Fuel (kerosene & naphtha)	3426.0	3340.0	3261.1	3347.9	3458.3	3564.0	3650.6	3750.0	3837.9	3937.4	4019.6	4117.1	4205.9
Residual Oil	836.0	713.0	775.7	779.3	783.2	786.1	788.9	791.2	793.2	795.4	797.6	799.9	802.3
Aviation Gasoline	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1
Liquefied Petroleum Gas	15.3	19.0	22.6	25.2	37.7	41.6	45.3	49.0	52.6	55.7	58.2	60.8	63.3
Lubricants	194.0	200.0	199.0	200.4	200.1	202.8	205.5	208.2	210.4	212.7	215.4	218.4	222.2
Petroleum Subtotal	25945.2	25963.8	26287.7	27137.7	27925.9	28621.2	29229.2	29842.3	30449.9	31094.0	31712.4	32356.1	33010.4
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	0.5	0.7	0.9	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.0	2.1	2.3
Electricity	73.9	75.4	77.3	79.5	81.6	83.3	84.9	86.5	88.2	89.9	91.6	93.5	95.4
Compressed Natural Gas	10.5	14.2	21.6	26.5	32.1	37.0	42.2	47.7	53.1	58.6	63.8	68.9	73.8
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3
Pipeline Fuel Natural Gas	640.8	648.9	677.2	666.2	665.9	663.9	666.5	672.6	676.3	690.0	699.5	710.4	715.6
Total Consumption	26670.9	26703.1	27064.7	27910.8	28706.5	29406.7	30024.1	30650.6	31269.2	31934.5	32569.6	33231.3	33897.8

Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Use by Mode													
Highway													
Light-Duty Vehicles	20429.4	20753.0	21066.4	21376.6	21694.4	22012.0	22337.8	22690.0	23049.4	23429.7	23835.5	24280.1	1.9%
Automobiles	9078.0	9091.9	9103.4	9113.1	9126.2	9138.5	9154.2	9205.4	9259.3	9320.3	9388.1	9467.1	0.3%
Light Trucks	11325.0	11634.7	11936.6	12237.1	12541.7	12847.0	13157.1	13457.8	13763.2	14082.4	14420.2	14785.6	3.5%
Motorcycles	26.3	26.4	26.4	26.4	26.5	26.5	26.5	26.7	26.8	27.0	27.2	27.4	0.3%
Commercial Light Trucks 1/	737.6	750.3	763.4	777.5	792.1	803.4	817.1	829.4	844.6	860.6	876.9	895.6	1.9%
Buses	260.0	260.1	260.1	259.8	259.5	259.3	259.3	259.5	259.9	260.5	261.3	262.4	0.4%
Transit	102.4	102.5	102.5	102.4	102.3	102.2	102.2	102.3	102.4	102.6	103.0	103.4	0.4%
Intercity	37.8	37.8	37.8	37.7	37.7	37.7	37.7	37.7	37.7	37.8	37.9	38.1	0.4%
School	119.8	119.9	119.8	119.7	119.6	119.5	119.5	119.6	119.8	120.0	120.4	120.9	0.4%
Freight Trucks 2/	5524.6	5623.1	5725.6	5838.2	5947.0	6038.8	6146.2	6246.8	6372.1	6508.5	6652.9	6819.4	2.2%
Medium (1000-26000 pounds)	865.2	886.9	911.0	937.3	963.7	988.0	1015.1	1041.3	1071.2	1102.3	1134.0	1168.5	2.4%
Large (> 26000 pounds)	4659.4	4736.2	4814.5	4900.9	4983.3	5050.8	5131.1	5205.5	5300.9	5406.3	5518.9	5650.9	2.2%
Non-Highway													
Air 3/	3697.9	3761.4	3819.6	3891.5	3963.3	4031.6	4086.4	4139.9	4188.9	4232.7	4273.3	4304.9	1.8%
General Aviation	216.2	219.2	222.0	225.4	228.8	232.1	234.7	237.2	239.5	241.6	243.6	245.1	1.5%
Domestic Air Carriers	1894.0	1923.4	1946.6	1974.6	1998.6	2021.9	2037.3	2053.1	2064.7	2070.6	2075.6	2073.2	1.2%
International Air Carriers	688.2	699.1	708.9	718.8	727.2	736.0	744.3	751.6	756.4	760.3	762.7	763.5	1.7%
Freight Carriers	899.5	919.7	942.2	972.7	1008.6	1041.6	1070.1	1097.9	1128.3	1160.2	1191.4	1223.2	3.2%
Water 4/	1433.6	1441.5	1448.2	1456.6	1468.0	1477.3	1485.2	1491.4	1499.0	1509.3	1520.1	1529.9	0.8%
Freight	1084.6	1089.3	1092.9	1098.3	1106.4	1112.5	1117.1	1120.1	1124.3	1130.9	1137.7	1143.4	0.8%
Domestic Shipping	360.9	364.5	367.1	371.2	378.2	383.1	386.6	388.4	391.5	397.0	402.6	407.1	1.1%
International Shipping	723.8	724.8	725.9	727.0	728.2	729.4	730.6	731.7	732.8	734.0	735.1	736.3	0.6%
Recreational Boats	349.0	352.1	355.3	358.4	361.6	364.8	368.1	371.3	374.7	378.4	382.3	386.6	0.9%
Rail	659.1	664.5	674.1	680.6	685.6	692.0	698.8	705.5	714.7	725.7	733.6	742.9	1.1%
Freight	517.0	520.0	527.1	531.2	533.7	537.6	541.8	545.8	552.4	560.6	565.8	572.1	0.9%
Passenger	142.1	144.5	147.0	149.4	151.9	154.5	157.0	159.6	162.3	165.0	167.9	170.8	1.8%
Intercity	32.3	32.9	33.4	34.0	34.6	35.1	35.7	36.3	36.9	37.6	38.2	38.9	1.8%
Transit	58.5	59.5	60.5	61.5	62.6	63.6	64.7	65.7	66.8	68.0	69.1	70.3	1.8%
Commuter	51.2	52.1	53.0	53.9	54.8	55.7	56.6	57.6	58.5	59.5	60.6	61.6	1.8%
Lubricants	226.1	229.9	234.0	238.8	243.8	248.6	253.8	258.3	263.1	268.0	273.1	279.0	1.5%
Pipeline Fuel Natural Gas	715.5	721.0	715.8	724.6	774.9	821.8	831.9	827.5	822.9	835.0	852.1	857.8	1.2%
Military Use													
Aviation	643.8	647.2	650.4	653.3	655.9	658.3	660.5	662.5	664.4	666.1	667.7	669.2	0.9%
Residual Fuel Use	23.3	23.5	23.6	23.7	23.8	23.9	24.0	24.0	24.1	24.2	24.2	24.3	0.9%
Distillate Fuel Use	123.5	124.2	124.8	125.3	125.9	126.3	126.7	127.1	127.5	127.8	128.1	128.4	0.9%
Total	34474.6	34999.5	35505.8	36046.6	36634.2	37193.3	37727.7	38261.9	38830.6	39448.2	40098.9	40793.9	1.9%

Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Energy Use by Type													
Motor Gasoline	21025.0	21319.4	21604.7	21885.4	22175.6	22462.5	22759.6	23082.5	23416.2	23771.9	24151.7	24571.8	1.7%
Distillate (diesel)	7117.8	7262.4	7413.7	7575.5	7731.1	7870.8	8026.5	8173.8	8348.7	8538.1	8734.2	8954.5	2.5%
Jet Fuel (kerosene & naphtha)	4299.6	4366.4	4427.9	4502.6	4577.1	4647.8	4704.9	4760.3	4811.2	4856.8	4899.0	4932.1	1.7%
Residual Oil	804.5	806.6	808.5	810.9	814.1	816.7	818.9	820.6	822.6	825.3	828.1	830.5	0.7%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
Liquefied Petroleum Gas	65.7	67.3	68.9	70.8	73.4	75.4	76.8	78.1	79.6	81.2	83.2	84.9	6.7%
Lubricants	226.1	229.9	234.0	238.8	243.8	248.6	253.8	258.3	263.1	268.0	273.1	279.0	1.5%
Petroleum Subtotal	33580.8	34094.1	34599.8	35126.0	35657.3	36164.0	36682.6	37215.7	37783.4	38383.4	39011.4	39694.8	1.9%
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.0%
Ethanol	2.4	2.6	2.7	2.8	3.0	3.0	3.1	3.3	3.4	3.5	3.6	3.8	7.6%
Electricity	97.2	99.1	101.0	102.9	105.0	107.2	109.4	111.6	113.8	116.0	118.4	120.8	2.1%
Compressed Natural Gas	78.2	82.2	85.9	89.4	92.8	95.9	98.9	101.7	104.5	107.3	110.2	113.3	9.5%
Liquid Hydrogen	0.4	0.5	0.7	0.9	1.2	1.6	1.9	2.2	2.6	2.9	3.2	3.5	N/A
Pipeline Fuel Natural Gas	715.5	721.0	715.8	724.6	774.9	821.8	831.9	827.5	822.9	835.0	852.1	857.8	1.2%
Total Consumption	34474.6	34999.5	35505.8	36046.6	36634.2	37193.3	37727.7	38261.9	38830.6	39448.2	40098.9	40793.9	1.9%

Table 33. 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: 2002 values derived using: Energy Information Administration (EIA), Fuel Oil and Kerosene Sales 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2001/foks_2001.html; EIA, State Energy Data Report 2000, DOE/EIA-0214(2000) (Washington, DC, August 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, and 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.
Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Vehicle													
Motor Gasoline	14990.86	15393.62	15696.02	16221.84	16654.35	17043.45	17384.78	17731.74	18071.67	18413.98	18748.00	19097.97	19459.94
Ethanol	0.52	0.69	0.88	0.89	1.06	1.20	1.36	1.53	1.71	1.89	2.03	2.15	2.30
Compressed Natural Gas	9.18	12.27	19.01	22.88	26.89	29.67	32.21	34.78	37.18	39.45	41.69	43.88	46.03
Liquefied Petroleum Gas	7.06	11.23	15.24	17.92	30.46	34.36	37.71	41.05	44.21	46.85	48.89	51.19	53.30
Electricity	1.43	2.07	2.66	3.22	3.70	3.96	4.08	4.22	4.39	4.57	4.76	5.02	5.27
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.24	0.32
Distillate (diesel)	152.05	155.84	172.96	206.09	239.66	270.93	300.85	331.98	364.42	403.06	440.94	480.20	521.19
Total	15161.10	15575.73	15906.79	16472.84	16956.13	17383.58	17761.00	18145.31	18523.64	18909.90	19286.44	19680.65	20088.36
Commercial Light Trucks Gasoline 1/													
	583.83	586.53	584.43	604.97	624.68	637.69	648.05	658.60	670.36	683.59	696.76	709.81	724.53
Freight Trucks 2/													
Motor Gasoline	229.16	225.38	216.68	215.14	211.52	204.74	197.49	190.16	183.99	179.58	176.34	173.97	172.48
Distillate (diesel)	3984.87	3859.24	3878.60	4033.67	4193.72	4328.05	4451.19	4564.19	4684.67	4819.94	4950.87	5075.74	5203.29
Compressed Natural Gas	1.35	1.89	2.55	3.63	5.21	7.37	9.99	12.90	15.97	19.10	22.15	25.04	27.76
Liquefied Petroleum Gas	8.24	7.82	7.37	7.25	7.22	7.29	7.59	7.98	8.41	8.86	9.27	9.64	9.96
Total	4223.62	4094.32	4105.21	4259.69	4417.67	4547.46	4666.26	4775.22	4893.03	5027.49	5158.64	5284.39	5413.49
Freight Rail 3/													
Distillate (diesel)	501.83	468.45	463.16	470.10	477.12	486.68	491.37	492.55	497.20	499.88	506.70	510.65	514.34
Total	501.83	468.45	463.16	470.10	477.12	486.68	491.37	492.55	497.20	499.88	506.70	510.65	514.34
Domestic Shipping													
Distillate (diesel)	241.92	223.99	221.16	225.20	230.44	234.15	237.91	240.72	242.81	245.18	247.90	250.69	253.55
Residual Oil	96.44	91.85	90.69	92.34	94.49	96.01	97.55	98.70	99.56	100.53	101.65	102.79	103.97
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	338.36	315.84	311.85	317.54	324.93	330.16	335.46	339.42	342.37	345.71	349.55	353.48	357.52
International Shipping													
Distillate (diesel)	52.22	42.35	46.73	46.81	46.92	47.01	47.09	47.16	47.23	47.30	47.37	47.45	47.52
Residual Oil	721.27	601.61	663.88	665.06	666.56	667.85	668.93	669.99	670.98	672.00	673.02	674.05	675.12
Total	773.49	643.96	710.61	711.88	713.48	714.86	716.02	717.15	718.21	719.30	720.39	721.49	722.64
Air Transportation													
Jet Fuel	2924.33	2801.11	2677.66	2743.96	2847.23	2951.44	3033.77	3128.88	3212.69	3308.08	3386.33	3480.01	3565.20
Aviation Gasoline	42.48	42.41	42.35	42.30	42.26	42.23	42.20	42.18	42.16	42.14	42.13	42.12	42.11
Total	2966.81	2843.51	2720.00	2786.26	2889.49	2993.66	3075.97	3171.06	3254.85	3350.23	3428.46	3522.13	3607.31
Miscellaneous Transportation													
Military Use													
Jet Fuel	501.67	538.89	583.49	603.93	611.05	612.52	616.83	621.12	625.25	629.31	633.30	637.08	640.67
Residual Fuel	18.28	19.54	21.16	21.90	22.16	22.21	22.37	22.53	22.68	22.82	22.97	23.11	23.24
Distillate	99.50	103.40	111.96	115.88	117.25	117.53	118.36	119.18	119.97	120.75	121.52	122.24	122.93
Total	619.45	661.84	716.61	741.71	750.46	752.26	757.56	762.82	767.90	772.89	777.78	782.43	786.84

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Bus Transportation													
Transit Bus (motor gasoline)	4.32	4.38	4.40	4.44	4.48	4.52	4.56	4.60	4.64	4.67	4.70	4.73	4.76
Transit Bus (diesel)	94.58	89.76	90.11	91.04	91.88	92.66	93.43	94.20	94.98	95.75	96.41	96.99	97.47
Intercity Bus (diesel)	36.55	34.69	34.83	35.18	35.51	35.81	36.11	36.41	36.71	37.00	37.26	37.49	37.67
School Bus (motor gasoline)	5.05	5.12	5.14	5.20	5.24	5.29	5.33	5.38	5.42	5.46	5.50	5.54	5.56
School Bus (diesel)	110.60	104.96	105.37	106.46	107.44	108.36	109.25	110.16	111.06	111.96	112.74	113.42	113.98
Total	251.11	238.91	239.85	242.31	244.55	246.64	248.68	250.74	252.80	254.85	256.61	258.17	259.44
Rail Transportation													
Intercity Rail (electricity)	10.14	10.27	10.45	10.69	10.91	11.11	11.31	11.52	11.73	11.94	12.16	12.38	12.61
Intercity Rail (diesel)	16.20	15.60	15.87	16.23	16.56	16.87	17.18	17.49	17.81	18.13	18.46	18.81	19.16
Transit Rail (electricity)	46.23	46.81	47.62	48.70	49.71	50.65	51.57	52.50	53.45	54.43	55.42	56.44	57.50
Commuter Rail (electricity)	16.08	16.28	16.57	16.94	17.29	17.62	17.94	18.26	18.59	18.93	19.28	19.63	20.00
Commuter Rail (diesel)	25.68	24.73	25.16	25.73	26.26	26.75	27.24	27.73	28.23	28.75	29.27	29.81	30.37
Total	114.32	113.69	115.66	118.28	120.73	123.00	125.24	127.50	129.80	132.19	134.59	137.08	139.64
Recreation Boats													
Lubricants	302.22	311.36	314.33	318.62	321.27	324.06	326.59	329.43	332.39	335.66	338.72	342.22	345.89
Pipeline Fuel Natural Gas	194.00	200.00	198.97	200.45	200.13	202.79	205.48	208.18	210.38	212.74	215.42	218.43	222.20
Total Miscellaneous	640.78	648.93	677.18	666.18	665.88	663.88	666.47	672.64	676.30	690.04	699.54	710.37	715.64
Total Miscellaneous	2121.88	2174.73	2262.61	2287.56	2303.01	2312.63	2330.02	2351.31	2369.56	2398.36	2422.67	2448.71	2469.65
Total Consumption	26670.92	26703.07	27064.66	27910.83	28706.52	29406.72	30024.13	30650.63	31269.23	31934.45	32569.61	33231.31	33897.84

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Light-Duty Vehicle													
Motor Gasoline	19756.87	20036.45	20305.84	20569.01	20841.26	21113.67	21393.36	21700.20	22014.09	22348.86	22706.84	23101.98	1.8%
Ethanol	2.43	2.57	2.71	2.84	2.97	2.96	3.14	3.25	3.38	3.50	3.64	3.77	7.6%
Compressed Natural Gas	48.03	49.91	51.71	53.45	55.17	56.83	58.45	59.96	61.42	62.85	64.31	65.83	7.6%
Liquefied Petroleum Gas	55.54	56.96	58.39	60.17	62.70	64.70	65.95	67.18	68.55	69.98	71.87	73.35	8.5%
Electricity	5.49	5.80	6.12	6.45	6.99	7.51	8.02	8.54	9.04	9.53	10.06	10.58	7.4%
Liquid Hydrogen	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A
Distillate (diesel)	560.61	600.74	640.90	683.77	724.10	764.72	807.00	848.59	890.32	932.10	975.56	1021.03	8.5%
Total	20429.37	20752.96	21066.38	21376.58	21694.41	22011.95	22337.82	22689.96	23049.36	23429.70	23835.48	24280.07	1.9%
Commercial Light Trucks Gasoline 1/													
	737.61	750.27	763.38	777.54	792.08	803.39	817.06	829.40	844.59	860.60	876.92	895.63	1.9%
Freight Trucks 2/													
Motor Gasoline	171.16	170.18	169.87	170.11	170.39	170.31	170.80	171.25	172.40	173.76	175.24	177.14	-1.0%
Distillate (diesel)	5313.11	5410.32	5511.05	5621.59	5728.30	5818.74	5924.10	6022.84	6145.59	6279.11	6420.44	6583.31	2.3%
Compressed Natural Gas	30.16	32.25	34.14	35.93	37.59	39.02	40.47	41.74	43.09	44.47	45.88	47.42	15.0%
Liquefied Petroleum Gas	10.20	10.37	10.50	10.59	10.68	10.75	10.87	10.95	11.06	11.20	11.35	11.53	1.7%
Total	5524.63	5623.12	5725.56	5838.22	5946.96	6038.82	6146.23	6246.79	6372.14	6508.53	6652.91	6819.40	2.2%
Freight Rail 3/													
Distillate (diesel)	517.00	519.96	527.11	531.18	533.70	537.57	541.80	545.84	552.40	560.65	565.76	572.14	0.9%
Total	517.00	519.96	527.11	531.18	533.70	537.57	541.80	545.84	552.40	560.65	565.76	572.14	0.9%
Domestic Shipping													
Distillate (diesel)	255.94	258.52	260.32	263.28	268.20	271.71	274.16	275.48	277.62	281.52	285.54	288.72	1.1%
Residual Oil	104.95	106.00	106.74	107.96	109.97	111.41	112.42	112.96	113.84	115.44	117.08	118.39	1.1%
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	N/A
Total	360.89	364.52	367.06	371.24	378.18	383.13	386.58	388.44	391.46	396.96	402.62	407.11	1.1%
International Shipping													
Distillate (diesel)	47.60	47.66	47.73	47.81	47.89	47.96	48.04	48.12	48.19	48.27	48.34	48.42	0.6%
Residual Oil	676.17	677.14	678.15	679.23	680.34	681.42	682.51	683.56	684.64	685.72	686.78	687.84	0.6%
Total	723.76	724.80	725.88	727.04	728.22	729.38	730.55	731.68	732.83	733.99	735.12	736.25	0.6%
Air Transportation													
Jet Fuel	3655.84	3719.27	3777.52	3849.38	3921.22	3989.54	4044.35	4097.78	4146.80	4190.66	4231.23	4262.87	1.8%
Aviation Gasoline	42.10	42.10	42.09	42.09	42.08	42.08	42.08	42.08	42.07	42.07	42.07	42.07	0.0%
Total	3697.94	3761.37	3819.61	3891.47	3963.31	4031.62	4086.42	4139.86	4188.88	4232.73	4273.31	4304.94	1.8%
Miscellaneous Transportation													
Military Use													
Jet Fuel	643.77	647.16	650.36	653.27	655.91	658.31	660.52	662.54	664.40	666.12	667.73	669.22	0.9%
Residual Fuel	23.35	23.47	23.59	23.69	23.79	23.88	23.96	24.03	24.10	24.16	24.22	24.27	0.9%
Distillate	123.52	124.17	124.79	125.35	125.85	126.32	126.74	127.13	127.48	127.81	128.12	128.41	0.9%
Total	790.64	794.80	798.73	802.31	805.55	808.50	811.21	813.69	815.98	818.10	820.06	821.90	0.9%

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Bus Transportation													
Transit Bus (motor gasoline)	4.77	4.77	4.77	4.76	4.76	4.75	4.75	4.76	4.77	4.78	4.79	4.81	0.4%
Transit Bus (diesel)	97.68	97.73	97.71	97.62	97.50	97.43	97.43	97.50	97.65	97.87	98.18	98.57	0.4%
Intercity Bus (diesel)	37.75	37.77	37.76	37.73	37.68	37.65	37.65	37.68	37.74	37.82	37.94	38.09	0.4%
School Bus (motor gasoline)	5.57	5.58	5.58	5.57	5.56	5.56	5.56	5.56	5.57	5.59	5.60	5.62	0.4%
School Bus (diesel)	114.23	114.28	114.26	114.16	114.01	113.93	113.93	114.02	114.18	114.45	114.80	115.26	0.4%
Total	260.00	260.12	260.07	259.84	259.51	259.33	259.33	259.52	259.90	260.51	261.32	262.36	0.4%
Rail Transportation													
Intercity Rail (electricity)	12.84	13.06	13.28	13.50	13.73	13.95	14.19	14.42	14.66	14.91	15.17	15.43	1.8%
Intercity Rail (diesel)	19.49	19.82	20.16	20.50	20.84	21.19	21.54	21.90	22.27	22.64	23.03	23.43	1.8%
Transit Rail (electricity)	58.50	59.51	60.51	61.52	62.56	63.60	64.66	65.74	66.83	67.96	69.12	70.33	1.8%
Commuter Rail (electricity)	20.35	20.70	21.05	21.40	21.76	22.12	22.49	22.87	23.25	23.64	24.04	24.46	1.8%
Commuter Rail (diesel)	30.90	31.43	31.96	32.50	33.04	33.59	34.15	34.72	35.30	35.90	36.51	37.15	1.8%
Total	142.08	144.52	146.96	149.42	151.93	154.46	157.03	159.64	162.31	165.05	167.87	170.79	1.8%
Recreation Boats													
Lubricants	226.11	229.89	234.05	238.82	243.85	248.63	253.77	258.29	263.09	268.01	273.12	278.97	1.5%
Pipeline Fuel Natural Gas	715.54	721.01	715.76	724.64	774.93	821.77	831.85	827.47	822.90	835.05	852.12	857.79	1.2%
Total Miscellaneous													
	2483.35	2502.47	2510.86	2533.38	2597.37	2657.46	2681.28	2689.94	2698.92	2725.06	2756.80	2778.37	1.1%
Total Consumption	34474.56	34999.47	35505.84	36046.64	36634.23	37193.31	37727.74	38261.90	38830.58	39448.22	40098.91	40793.93	1.9%

Table 34. 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: 2002 compressed natural gas volumes: Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Other 2002 values derived using: EIA, Fuel Oil and Kerosene Sales 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2001/foks_2001.html; EIA, State Energy Data Report 2000, DOE/EIA-0214(2000) (Washington, DC, August 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, and 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	14851.50	15208.69	15471.03	15933.58	16289.40	16588.82	16811.15	17040.32	17260.68	17479.92	17690.22	17917.48	18157.59
TDI Diesel ICE	152.05	155.84	172.96	206.09	239.66	270.93	300.85	331.98	364.42	403.06	440.94	480.20	521.19
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.68	0.62	0.50	0.46	0.39	0.38	0.36	0.34	0.31	0.29	0.27	0.24	0.22
Methanol 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	150.05	214.90	276.30	341.51	405.94	463.08	543.58	623.67	701.42	781.57	860.27	937.53	1013.59
Ethanol ICE	0.21	0.25	0.28	0.32	0.36	0.39	0.43	0.46	0.50	0.54	0.58	0.63	0.67
Total Alcohol	150.95	215.77	277.09	342.29	406.68	463.85	544.36	624.47	702.23	782.40	861.11	938.40	1014.48
Natural Gas Technology													
CNG ICE	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26
CNG Bi-fuel	16.14	21.81	27.13	32.70	38.46	42.46	46.10	49.80	53.26	56.54	59.76	62.92	66.03
LPG ICE	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13
LPG Bi-fuel	30.20	46.84	62.40	79.14	121.32	136.16	149.14	162.20	174.01	184.78	194.91	204.90	214.80
Total Natural Gas Technology	46.64	68.96	89.85	112.17	160.13	178.97	195.60	212.37	227.65	241.70	255.05	268.21	281.22
Electric Technology													
Electric Vehicle	1.43	2.07	2.66	3.22	3.70	3.96	4.08	4.22	4.39	4.57	4.76	5.02	5.27
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.28	4.48	6.80
Electric-Gasoline Hybrid	0.96	1.83	3.60	24.93	56.29	89.27	122.45	157.27	196.83	236.80	280.03	323.92	368.98
Total Electricity	2.39	3.90	6.26	28.14	59.98	93.23	126.53	161.49	201.22	242.49	287.07	333.42	381.05
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	0.05	0.09	0.13	0.24	0.32
Total Fuel Cell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.24	0.32
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	14990.86	15393.62	15696.02	16221.84	16654.35	17043.45	17384.78	17731.74	18071.67	18413.98	18748.00	19097.97	19459.94
Distillate (diesel)	152.05	155.84	172.96	206.09	239.66	270.93	300.85	331.98	364.42	403.06	440.94	480.20	521.19
Methanol	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ethanol	0.52	0.69	0.88	0.89	1.06	1.20	1.36	1.53	1.71	1.89	2.03	2.15	2.30
Compressed Natural Gas	9.18	12.27	19.01	22.88	26.89	29.67	32.21	34.78	37.18	39.45	41.69	43.88	46.03
Liquefied Petroleum Gas	7.06	11.23	15.24	17.92	30.46	34.36	37.71	41.05	44.21	46.85	48.89	51.19	53.30
Electricity	1.43	2.07	2.66	3.22	3.70	3.96	4.08	4.22	4.39	4.57	4.76	5.02	5.27
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.24	0.32

Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	18340.34	18510.93	18676.45	18841.31	19018.84	19201.16	19395.65	19620.32	19855.62	20113.34	20395.54	20714.43	1.4%
TDI Diesel ICE	560.61	600.74	640.90	683.77	724.10	764.72	807.00	848.59	890.32	932.10	975.56	1021.03	8.5%
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.19	0.17	0.15	0.13	0.11	0.09	0.10	0.08	0.07	0.06	0.05	0.04	-10.9%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	1084.13	1150.88	1214.47	1275.43	1334.69	1391.35	1445.91	1498.73	1549.66	1600.12	1650.58	1702.22	9.4%
Ethanol ICE	0.71	0.76	0.80	0.85	0.89	0.94	0.98	1.03	1.09	1.14	1.19	1.25	7.3%
Total Alcohol	1085.03	1151.80	1215.42	1276.41	1335.69	1392.38	1446.99	1499.85	1550.82	1601.32	1651.83	1703.51	9.4%
Natural Gas Technology													
CNG ICE	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	2.1%
CNG Bi-fuel	68.92	71.63	74.23	76.76	79.24	81.64	83.99	86.18	88.29	90.36	92.48	94.68	6.6%
LPG ICE	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.5%
LPG Bi-fuel	223.96	232.56	240.75	248.65	256.36	263.80	271.00	277.70	284.09	290.41	297.02	303.89	8.5%
Total Natural Gas Technology	293.27	304.58	315.37	325.80	335.99	345.83	355.37	364.27	372.77	381.17	389.90	398.97	7.9%
Electric Technology													
Electric Vehicle	5.49	5.80	6.12	6.45	6.99	7.51	8.02	8.54	9.04	9.53	10.06	10.58	7.4%
Electric-Diesel Hybrid	9.74	13.90	18.14	23.11	28.14	33.22	39.59	46.01	52.40	58.71	65.05	71.38	N/A
Electric-Gasoline Hybrid	413.01	456.18	498.28	538.75	578.19	616.05	651.54	685.98	718.87	750.69	781.58	812.09	30.3%
Total Electricity	428.23	475.87	522.54	568.31	613.32	656.77	699.16	740.53	780.31	818.93	856.69	894.06	26.7%
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	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	N/A
Fuel Cell Hydrogen	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A
Total Fuel Cell	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	19756.87	20036.45	20305.84	20569.01	20841.26	21113.67	21393.36	21700.20	22014.09	22348.86	22706.84	23101.98	1.8%
Distillate (diesel)	560.61	600.74	640.90	683.77	724.10	764.72	807.00	848.59	890.32	932.10	975.56	1021.03	8.5%
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	-9.0%
Ethanol	2.43	2.57	2.71	2.84	2.97	2.96	3.14	3.25	3.38	3.50	3.64	3.77	7.6%
Compressed Natural Gas	48.03	49.91	51.71	53.45	55.17	56.83	58.45	59.96	61.42	62.85	64.31	65.83	7.6%
Liquefied Petroleum Gas	55.54	56.96	58.39	60.17	62.70	64.70	65.95	67.18	68.55	69.98	71.87	73.35	8.5%
Electricity	5.49	5.80	6.12	6.45	6.99	7.51	8.02	8.54	9.04	9.53	10.06	10.58	7.4%
Liquid Hydrogen	0.39	0.54	0.71	0.88	1.23	1.57	1.90	2.23	2.56	2.87	3.21	3.53	N/A

Table 35. 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, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)

New England	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	430.5	411.6	403.7	394.1	399.9	402.8	397.0	392.9	385.7	377.4	372.7	367.6	365.4
TDI Diesel ICE	0.4	0.3	0.4	0.8	0.8	0.8	1.0	1.0	1.0	1.2	1.2	1.2	1.2
Total Conventional	430.9	412.0	404.1	394.9	400.8	403.6	398.0	393.9	386.7	378.6	373.9	368.8	366.6
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
Methanol 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	20.6	19.4	19.1	18.1	18.5	18.7	23.1	22.8	22.3	26.1	25.8	25.5	25.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	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-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	2.7	2.8
Electric-Gasoline Hybrid	0.7	1.1	2.2	12.5	13.2	13.8	14.4	15.0	18.8	18.5	21.9	21.6	22.1
CNG 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
CNG Bi-fuel	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
LPG 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
LPG Bi-fuel	2.4	2.3	2.2	2.1	2.2	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.8
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Alternatives	24.6	23.5	24.2	33.4	34.7	35.4	40.4	40.6	43.8	48.6	51.8	52.4	52.9
Percent Alternative Car Sales	5.39	5.40	5.65	7.80	7.96	8.07	9.21	9.34	10.18	11.38	12.16	12.43	12.61
Total New Car Sales	455.5	435.5	428.3	428.3	435.4	439.0	438.4	434.5	430.5	427.1	425.6	421.2	419.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	368.6	378.7	363.8	369.2	371.6	381.0	371.7	373.0	374.6	374.7	379.1	383.0	388.6
TDI Diesel ICE	17.6	17.3	19.8	30.8	30.4	29.3	28.8	29.6	29.9	34.6	35.0	34.7	36.0
Total Conventional	386.2	395.9	383.6	400.0	402.0	410.3	400.5	402.6	404.4	409.3	414.2	417.6	424.6
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
Methanol 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	17.9	18.5	18.1	19.3	20.9	21.4	36.4	36.5	36.7	36.7	37.3	37.8	38.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5
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	0.0	0.0	9.1	17.1	18.0	17.9	18.5	19.0	19.5	20.3	21.0	21.8
CNG 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
CNG Bi-fuel	1.6	1.7	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9
LPG 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
LPG Bi-fuel	5.4	5.5	5.4	5.7	5.9	6.0	6.1	6.1	6.1	6.2	6.3	6.4	6.5
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	0.1	0.1	0.1	0.3	0.1
Total Alternatives	25.1	25.9	25.3	36.0	45.9	47.6	62.5	63.2	64.2	64.9	66.3	68.0	69.4
Percent Alternative Light Truck Sales	6.11	6.15	6.18	8.25	10.24	10.39	13.49	13.58	13.70	13.69	13.80	14.00	14.05
Total New Truck Sales	411.4	421.9	408.9	436.0	447.9	457.9	463.0	465.9	468.7	474.1	480.5	485.6	494.0

Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)
New England

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.73	5.77	5.91	8.03	9.12	9.26	11.41	11.53	12.01	12.59	13.03	13.27	13.39
EPACT Legislative Alternative Sales	13.99	14.01	13.55	14.14	14.41	14.61	14.65	14.61	14.57	14.61	14.76	14.85	15.05
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	12.85	19.36	19.50	19.55	27.42	27.58	26.85	36.93	33.30
Total Vehicles Sales	866.8	857.3	837.2	864.3	883.3	896.9	901.3	900.4	899.1	901.3	906.1	906.8	913.5

Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)

New England	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	361.3	357.7	358.0	360.1	361.7	362.0	361.7	357.3	355.7	355.3	355.6	356.0	-0.6%
TDI Diesel ICE	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.7	7.4%
Total Conventional	362.5	358.9	359.3	361.4	363.1	363.4	363.1	358.8	357.2	356.9	357.2	357.7	-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	-1.1%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	25.1	24.8	24.7	24.8	24.9	24.9	24.8	24.4	24.2	24.1	24.1	24.1	0.9%
Ethanol ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.8%
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	-0.3%
Electric-Diesel Hybrid	3.4	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	N/A
Electric-Gasoline Hybrid	22.2	22.6	22.6	22.8	23.0	23.0	23.0	22.7	22.6	22.5	22.5	22.5	14.1%
CNG 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	-1.1%
CNG Bi-fuel	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	-0.3%
LPG 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	N/A
LPG Bi-fuel	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	-1.0%
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	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	N/A
Fuel Cell Hydrogen	0.1	0.2	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	N/A
Total Alternatives	53.3	53.6	53.7	54.1	54.6	54.6	54.5	53.7	53.4	53.3	53.3	53.4	3.6%
Percent Alternative Car Sales	12.82	12.99	13.01	13.02	13.08	13.06	13.05	13.02	13.00	12.99	12.99	12.99	3.9%
Total New Car Sales	415.8	412.5	413.0	415.5	417.7	418.1	417.6	412.5	410.6	410.1	410.6	411.1	-0.3%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	391.3	393.0	399.1	407.0	414.7	421.0	426.5	427.5	432.1	439.1	446.9	456.1	0.8%
TDI Diesel ICE	36.1	36.7	37.6	38.7	39.7	40.8	41.7	42.0	42.4	42.8	43.9	45.2	4.3%
Total Conventional	427.4	429.7	436.7	445.7	454.4	461.8	468.2	469.5	474.5	481.9	490.8	501.3	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	1.5%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	38.9	39.1	39.9	40.9	42.1	43.0	43.8	43.9	44.6	45.6	46.8	48.0	4.2%
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	N/A
Electric Vehicle	0.4	0.7	0.8	0.8	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.4	9.4%
Electric-Diesel Hybrid	0.0	1.2	1.2	1.8	1.9	1.9	3.3	3.3	3.4	3.4	3.5	3.6	N/A
Electric-Gasoline Hybrid	22.5	22.5	22.9	23.1	23.6	24.0	23.6	23.7	23.9	24.3	24.7	25.2	N/A
CNG 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	0.5%
CNG Bi-fuel	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.3	1.5%
LPG 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	0.7%
LPG Bi-fuel	6.5	6.6	6.7	6.8	7.0	7.1	7.2	7.2	7.3	7.4	7.6	7.7	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	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	N/A
Fuel Cell Hydrogen	0.1	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	N/A
Total Alternatives	70.4	72.3	73.7	75.8	78.7	80.1	82.0	82.3	83.3	84.8	86.8	88.7	5.5%
Percent Alternative Light Truck Sales	14.14	14.41	14.45	14.54	14.77	14.78	14.90	14.91	14.93	14.96	15.02	15.04	4.0%
Total New Truck Sales	497.8	502.0	510.4	521.6	533.1	541.9	550.2	551.8	557.8	566.7	577.6	590.0	1.5%

Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)
New England

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.54	13.77	13.80	13.87	14.02	14.04	14.10	14.10	14.11	14.13	14.18	14.20	4.0%
EPACT Legislative Alternative Sales	15.12	15.20	15.41	15.70	16.00	16.22	16.42	16.43	16.56	16.78	17.05	17.36	0.9%
ZEVP Legislative Alternative Sales	30.40	45.83	48.52	49.95	71.20	69.97	69.69	70.20	70.14	69.28	73.65	73.64	N/A
Total Vehicles Sales	913.6	914.5	923.5	937.1	950.8	960.0	967.8	964.4	968.4	976.9	988.1	1001.1	0.7%

Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)
New England

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Middle Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1232.2	1161.4	1130.4	1099.0	1109.0	1112.8	1094.0	1080.8	1059.1	1034.6	1020.3	1004.8	997.2
TDI Diesel ICE	1.0	0.9	1.1	2.1	2.3	2.2	2.7	2.8	2.7	3.2	3.2	3.2	3.3
Total Conventional	1233.2	1162.3	1131.5	1101.1	1111.3	1115.0	1096.8	1083.6	1061.9	1037.8	1023.5	1008.0	1000.5
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
Methanol 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	58.9	54.8	53.4	50.4	51.3	51.6	63.5	62.9	61.4	71.5	70.6	69.7	69.2
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	0.1
Electric Vehicle	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.1	7.3	7.5
Electric-Gasoline Hybrid	2.0	3.0	6.0	34.2	36.1	37.9	39.5	40.8	51.1	50.2	59.4	58.6	59.8
CNG 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
CNG Bi-fuel	1.8	1.7	1.6	1.6	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5
LPG 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
LPG Bi-fuel	7.0	6.4	6.2	6.0	6.0	5.9	5.7	5.5	5.3	5.2	5.1	5.1	5.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Alternatives	70.2	66.3	67.6	92.6	95.7	97.5	110.8	111.3	119.8	132.7	141.1	142.5	143.7
Percent Alternative Car Sales	5.39	5.40	5.64	7.76	7.93	8.04	9.18	9.31	10.14	11.34	12.12	12.39	12.56
Total New Car Sales	1303.4	1228.6	1199.0	1193.7	1207.0	1212.5	1207.6	1194.9	1181.7	1170.6	1164.7	1150.5	1144.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1060.2	1072.7	1024.3	1036.2	1032.8	1053.8	1025.1	1027.3	1030.0	1028.6	1039.3	1047.9	1061.5
TDI Diesel ICE	44.5	44.0	49.2	78.6	81.9	79.8	78.4	80.1	80.8	93.5	94.4	93.9	97.2
Total Conventional	1104.8	1116.7	1073.4	1114.8	1114.7	1133.5	1103.5	1107.5	1110.8	1122.1	1133.8	1141.7	1158.7
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
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	51.8	52.6	51.2	54.0	58.0	59.2	100.3	100.6	100.8	100.8	102.2	103.4	105.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	1.2	1.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	25.0	47.0	49.4	48.9	50.4	51.8	53.2	55.2	56.9	59.2
CNG 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
CNG Bi-fuel	4.6	4.7	4.5	4.8	4.9	5.0	5.0	5.1	5.1	5.1	5.2	5.2	5.3
LPG 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
LPG Bi-fuel	15.4	15.6	15.0	15.9	16.3	16.6	16.7	16.8	16.9	17.0	17.2	17.4	17.7
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	0.3	0.3	0.3	0.6	0.3
Total Alternatives	72.4	73.5	71.2	100.3	126.8	131.0	171.8	173.6	175.8	177.3	181.0	184.8	188.6
Percent Alternative Light Truck Sales	6.15	6.17	6.22	8.25	10.21	10.36	13.47	13.55	13.66	13.65	13.76	13.93	14.00
Total New Truck Sales	1177.1	1190.1	1144.6	1215.1	1241.5	1264.5	1275.3	1281.1	1286.6	1299.4	1314.7	1326.5	1347.3

Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Middle Atlantic

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.75	5.78	5.92	8.01	9.09	9.23	11.38	11.51	11.97	12.55	12.99	13.22	13.34
EPACT Legislative Alternative Sales	40.05	39.51	37.93	39.41	39.95	40.34	40.35	40.18	40.01	40.04	40.38	40.57	41.04
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	23.35	35.16	35.42	35.50	49.78	50.05	48.71	66.99	60.38
Total Vehicles Sales	2480.5	2418.8	2343.7	2408.8	2448.4	2477.1	2482.9	2476.0	2468.3	2469.9	2479.4	2477.1	2491.6

Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	984.6	973.4	972.5	976.3	978.7	977.5	974.4	960.6	954.1	951.0	949.7	948.8	-0.9%
TDI Diesel ICE	3.3	3.3	3.4	3.5	3.6	3.8	3.9	3.9	4.0	4.2	4.3	4.6	7.5%
Total Conventional	987.9	976.7	975.9	979.8	982.4	981.3	978.3	964.5	958.1	955.1	954.1	953.3	-0.9%
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	68.3	67.3	67.2	67.3	67.4	67.1	66.7	65.4	64.8	64.5	64.4	64.2	0.7%
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	3.1%
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	-1.0%
Electric-Diesel Hybrid	9.3	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.3	9.3	9.3	N/A
Electric-Gasoline Hybrid	60.0	60.9	61.0	61.5	61.8	61.8	61.6	60.5	60.1	59.8	59.7	59.5	13.9%
CNG 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	-0.9%
CNG Bi-fuel	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	-0.7%
LPG 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	N/A
LPG Bi-fuel	5.0	4.9	4.9	5.0	5.0	5.0	5.0	4.9	4.9	4.8	4.8	4.8	-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	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	N/A
Fuel Cell Hydrogen	0.2	0.4	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.3	N/A
Total Alternatives	144.6	145.0	145.1	145.8	146.7	146.3	145.7	143.3	142.0	141.4	141.3	141.1	3.3%
Percent Alternative Car Sales	12.77	12.93	12.94	12.95	12.99	12.98	12.96	12.93	12.91	12.90	12.90	12.89	3.9%
Total New Car Sales	1132.5	1121.7	1121.0	1125.6	1129.0	1127.6	1124.0	1107.8	1100.2	1096.5	1095.4	1094.4	-0.5%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1067.2	1070.6	1085.5	1104.9	1124.1	1138.7	1150.9	1151.1	1160.7	1176.8	1195.0	1216.9	0.5%
TDI Diesel ICE	97.3	98.6	100.8	103.5	106.0	108.6	111.0	111.6	112.4	113.4	116.1	119.3	4.4%
Total Conventional	1164.6	1169.3	1186.3	1208.4	1230.1	1247.3	1261.9	1262.6	1273.1	1290.2	1311.1	1336.2	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	1.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	105.9	106.4	108.4	111.1	114.0	116.2	118.0	118.1	119.7	122.1	124.9	127.9	3.9%
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	N/A
Electric Vehicle	1.0	1.5	1.6	1.6	2.7	2.7	2.6	2.6	2.6	2.6	2.8	2.8	7.7%
Electric-Diesel Hybrid	0.0	3.2	3.3	4.8	5.0	5.1	8.8	8.8	8.9	9.0	9.2	9.4	N/A
Electric-Gasoline Hybrid	60.9	60.7	61.7	62.2	63.5	64.4	63.3	63.3	63.8	64.7	65.7	66.8	N/A
CNG 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	1.0%
CNG Bi-fuel	5.3	5.4	5.5	5.6	5.7	5.8	5.8	5.8	5.9	6.0	6.1	6.2	1.2%
LPG 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	1.4%
LPG Bi-fuel	17.8	17.9	18.2	18.5	18.9	19.2	19.4	19.4	19.6	19.9	20.2	20.6	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	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	N/A
Fuel Cell Hydrogen	0.2	0.5	0.5	0.6	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	N/A
Total Alternatives	191.2	195.7	199.2	204.4	210.9	214.3	219.0	219.2	221.5	225.1	229.8	234.6	5.2%
Percent Alternative Light Truck Sales	14.10	14.34	14.37	14.47	14.64	14.66	14.79	14.79	14.82	14.86	14.91	14.93	3.9%
Total New Truck Sales	1355.8	1364.9	1385.5	1412.8	1441.0	1461.7	1480.9	1481.8	1494.6	1515.3	1540.9	1570.7	1.2%

Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Middle Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Percent Total Alternative Sales	13.50	13.70	13.73	13.80	13.91	13.93	14.00	14.00	14.01	14.03	14.08	14.09	4.0%
EPACT Legislative Alternative Sales	41.17	41.32	41.82	42.53	43.25	43.75	44.20	44.11	44.37	44.86	45.48	46.21	0.7%
Z EVP Legislative Alternative Sales	55.10	83.05	87.91	90.47	128.94	126.68	126.14	127.04	126.90	125.30	133.16	133.12	N/A
Total Vehicles Sales	2488.2	2486.7	2506.5	2538.4	2570.1	2589.3	2604.9	2589.7	2594.7	2611.8	2636.3	2665.1	0.4%

Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Middle Atlantic

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)

East North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1319.5	1239.2	1203.0	1168.5	1183.2	1189.0	1170.1	1157.3	1134.9	1109.4	1095.7	1079.6	1072.6
TDI Diesel ICE	1.2	1.0	1.2	2.4	2.4	2.4	3.0	3.0	3.0	3.5	3.5	3.5	3.6
Total Conventional	1320.7	1240.2	1204.3	1170.9	1185.7	1191.4	1173.0	1160.4	1137.9	1112.9	1099.2	1083.1	1076.1
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
Methanol 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	63.1	58.4	56.9	53.6	54.8	55.1	67.9	67.3	65.7	76.6	75.8	74.9	74.4
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
Electric Vehicle	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.4	7.9	8.2
Electric-Gasoline Hybrid	2.2	3.2	6.4	36.4	38.2	40.2	42.0	43.4	54.5	53.6	63.4	62.7	64.0
CNG 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
CNG Bi-fuel	2.0	1.8	1.7	1.7	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.6
LPG 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
LPG Bi-fuel	7.5	6.9	6.5	6.4	6.4	6.3	6.1	5.9	5.7	5.5	5.5	5.4	5.4
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	75.3	70.8	71.9	98.5	101.8	104.0	118.3	118.9	128.1	142.1	151.2	152.9	154.0
Percent Alternative Car Sales	5.39	5.40	5.64	7.76	7.91	8.03	9.16	9.29	10.12	11.32	12.09	12.37	12.52
Total New Car Sales	1395.9	1311.0	1276.2	1269.3	1287.4	1295.4	1291.4	1279.3	1266.0	1255.0	1250.4	1236.0	1230.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1125.7	1141.4	1086.2	1096.9	1101.3	1125.6	1094.8	1098.3	1101.4	1102.3	1116.2	1125.6	1140.7
TDI Diesel ICE	58.2	50.4	56.6	88.8	88.4	86.0	86.0	88.1	89.9	101.8	102.0	102.5	106.2
Total Conventional	1183.9	1191.8	1142.8	1185.8	1189.6	1211.6	1180.7	1186.4	1191.3	1204.0	1218.2	1228.2	1246.9
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
Methanol 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	54.7	55.9	54.2	57.2	61.8	63.2	107.1	107.5	107.8	107.9	109.7	111.0	112.9
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	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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	0.0	0.0	26.5	49.6	52.5	52.0	53.6	55.2	56.8	58.9	60.9	63.4
CNG 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
CNG Bi-fuel	5.0	5.0	4.8	5.1	5.2	5.3	5.4	5.4	5.4	5.5	5.6	5.6	5.7
LPG 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
LPG Bi-fuel	16.5	16.7	16.0	16.9	17.4	17.7	17.9	18.0	18.1	18.3	18.5	18.7	19.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	76.8	78.1	75.5	106.3	134.6	139.4	183.0	185.1	187.0	189.0	193.3	196.8	201.6
Percent Alternative Light Truck Sales	6.09	6.15	6.20	8.23	10.17	10.32	13.42	13.50	13.57	13.57	13.70	13.81	13.92
Total New Truck Sales	1260.7	1269.9	1218.3	1292.1	1324.3	1350.9	1363.7	1371.5	1378.3	1393.1	1411.5	1425.0	1448.5

Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East North Central

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.72	5.77	5.91	7.99	9.05	9.20	11.35	11.47	11.92	12.51	12.94	13.14	13.28
EPACT Legislative Alternative Sales	42.89	42.16	40.37	41.91	42.61	43.10	43.15	43.02	42.86	42.92	43.35	43.58	44.12
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	2656.7	2580.9	2494.5	2561.4	2611.7	2646.3	2655.1	2650.8	2644.3	2648.1	2661.9	2661.0	2678.7

Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1060.0	1049.6	1050.1	1056.0	1060.9	1061.2	1059.4	1045.6	1039.6	1036.9	1036.6	1036.5	-0.8%
TDI Diesel ICE	3.6	3.6	3.8	3.9	4.0	4.2	4.3	4.5	4.6	4.8	5.0	5.3	7.6%
Total Conventional	1063.6	1053.3	1053.8	1059.9	1064.9	1065.4	1063.7	1050.1	1044.2	1041.7	1041.6	1041.7	-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	-1.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	73.5	72.6	72.5	72.8	72.9	72.7	72.4	71.2	70.5	70.2	70.1	70.1	0.8%
Ethanol ICE	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.4%
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	-1.2%
Electric-Diesel Hybrid	10.1	10.3	10.4	10.5	10.6	10.7	10.7	10.6	10.6	10.5	10.6	10.6	N/A
Electric-Gasoline Hybrid	64.2	65.3	65.5	66.1	66.5	66.5	66.4	65.4	65.0	64.8	64.7	64.6	14.0%
CNG 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	-0.9%
CNG Bi-fuel	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-0.5%
LPG 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	N/A
LPG Bi-fuel	5.4	5.3	5.3	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	-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	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	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	N/A
Total Alternatives	155.2	155.6	155.8	156.8	157.5	157.4	157.0	154.6	153.4	152.9	152.8	152.7	3.4%
Percent Alternative Car Sales	12.74	12.87	12.88	12.88	12.88	12.87	12.86	12.83	12.81	12.80	12.79	12.78	3.8%
Total New Car Sales	1218.8	1208.9	1209.7	1216.7	1222.4	1222.8	1220.7	1204.7	1197.6	1194.6	1194.3	1194.4	-0.4%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1148.0	1154.0	1170.9	1194.3	1217.7	1234.5	1249.4	1250.0	1261.1	1278.1	1298.8	1323.1	0.6%
TDI Diesel ICE	106.4	108.0	111.4	114.1	118.3	122.1	125.0	127.1	128.8	131.3	135.1	139.2	4.5%
Total Conventional	1254.4	1262.0	1282.3	1308.4	1336.0	1356.7	1374.4	1377.0	1389.8	1409.4	1433.8	1462.4	0.9%
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	113.9	114.6	116.7	119.9	123.2	125.7	127.8	128.0	129.7	132.3	135.4	138.8	4.0%
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	N/A
Electric Vehicle	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3%
Electric-Diesel Hybrid	0.0	3.5	3.6	5.3	5.5	5.6	9.7	9.8	10.0	10.1	10.4	10.7	N/A
Electric-Gasoline Hybrid	65.3	65.2	66.3	66.9	68.3	69.3	68.2	68.3	69.0	70.0	71.1	72.4	N/A
CNG 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	0.3%
CNG Bi-fuel	5.8	5.8	5.9	6.0	6.2	6.3	6.3	6.4	6.4	6.5	6.6	6.8	1.3%
LPG 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	2.7%
LPG Bi-fuel	19.1	19.3	19.6	20.0	20.5	20.8	21.1	21.1	21.3	21.7	22.0	22.5	1.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Total Alternatives	204.7	209.0	212.8	218.8	224.2	228.4	233.9	234.3	237.1	241.4	246.4	251.9	5.2%
Percent Alternative Light Truck Sales	14.03	14.21	14.23	14.32	14.37	14.41	14.54	14.54	14.58	14.62	14.66	14.69	3.9%
Total New Truck Sales	1459.1	1471.0	1495.0	1527.1	1560.2	1585.0	1608.2	1611.3	1627.0	1650.8	1680.2	1714.2	1.3%

Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)

East North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Percent Total Alternative Sales	13.44	13.60	13.63	13.69	13.72	13.74	13.82	13.81	13.83	13.86	13.88	13.91	3.9%
EPACT Legislative Alternative Sales	44.31	44.53	45.13	45.97	46.82	47.44	48.00	47.96	48.30	48.87	49.59	50.43	0.8%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2677.9	2679.9	2704.7	2743.8	2782.6	2807.8	2828.9	2816.0	2824.6	2845.4	2874.5	2908.6	0.5%

Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East North Central

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	537.0	510.3	499.1	487.3	493.9	496.9	489.6	485.2	476.7	466.7	461.8	455.7	453.5
TDI Diesel ICE	0.5	0.4	0.5	1.0	1.0	1.0	1.3	1.3	1.3	1.5	1.5	1.5	1.5
Total Conventional	537.4	510.7	499.6	488.2	494.9	497.8	490.8	486.4	477.9	468.2	463.3	457.2	455.0
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
Methanol 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	25.7	24.1	23.6	22.3	22.9	23.0	28.4	28.2	27.6	32.2	31.9	31.6	31.5
Ethanol 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
Electric Vehicle	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.9	3.3	3.5
Electric-Gasoline Hybrid	0.9	1.3	2.6	15.1	15.9	16.8	17.6	18.2	22.9	22.5	26.7	26.4	27.1
CNG 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
CNG Bi-fuel	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7
LPG 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
LPG Bi-fuel	3.0	2.8	2.7	2.7	2.7	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3
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	30.6	29.1	29.8	41.0	42.5	43.5	49.5	49.8	53.8	59.8	63.7	64.6	65.1
Percent Alternative Car Sales	5.39	5.40	5.63	7.74	7.90	8.03	9.16	9.29	10.12	11.32	12.09	12.38	12.53
Total New Car Sales	568.1	539.8	529.4	529.2	537.4	541.3	540.3	536.3	531.7	528.0	527.0	521.7	520.1
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	460.0	470.7	451.6	458.6	460.6	470.5	458.0	460.9	463.2	463.4	470.1	474.6	481.8
TDI Diesel ICE	21.6	19.9	22.4	35.8	36.0	35.8	36.0	36.4	37.1	43.2	43.4	43.9	45.5
Total Conventional	481.6	490.6	474.0	494.4	496.6	506.3	494.1	497.3	500.3	506.6	513.5	518.5	527.3
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
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	22.4	23.1	22.5	23.9	25.9	26.4	44.8	45.1	45.3	45.4	46.2	46.8	47.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
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	0.0	0.0	11.0	20.7	21.9	21.8	22.5	23.2	23.9	24.8	25.7	26.8
CNG 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
CNG Bi-fuel	2.0	2.1	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.4
LPG 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
LPG Bi-fuel	6.7	6.9	6.6	7.1	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.9	8.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	31.4	32.2	31.4	44.3	56.2	58.2	76.6	77.6	78.6	79.5	81.4	83.0	85.2
Percent Alternative Light Truck Sales	6.12	6.16	6.21	8.23	10.17	10.32	13.42	13.50	13.58	13.56	13.69	13.80	13.91
Total New Truck Sales	513.0	522.9	505.4	538.7	552.8	564.5	570.6	574.9	578.9	586.1	594.9	601.5	612.5

Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West North Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.74	5.77	5.91	7.99	9.05	9.20	11.35	11.47	11.92	12.50	12.94	13.14	13.27
EPACT Legislative Alternative Sales	17.45	17.36	16.75	17.47	17.79	18.01	18.05	18.03	18.00	18.06	18.27	18.40	18.66
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	1081.1	1062.7	1034.8	1067.9	1090.2	1105.8	1110.9	1111.2	1110.7	1114.1	1121.9	1123.3	1132.6

Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	448.9	445.4	446.7	450.0	452.9	453.9	453.9	448.9	447.3	447.2	447.9	448.8	-0.6%
TDI Diesel ICE	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.2	7.8%
Total Conventional	450.5	447.0	448.3	451.7	454.6	455.6	455.7	450.8	449.2	449.2	450.0	451.0	-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	-1.0%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	31.1	30.8	30.8	31.0	31.1	31.1	31.0	30.5	30.3	30.3	30.3	30.3	1.0%
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	3.6%
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	-1.0%
Electric-Diesel Hybrid	4.3	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.5	4.5	N/A
Electric-Gasoline Hybrid	27.2	27.7	27.8	28.1	28.4	28.5	28.5	28.1	28.0	27.9	28.0	28.0	14.3%
CNG 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	-0.8%
CNG Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-0.3%
LPG 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	N/A
LPG Bi-fuel	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	-0.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Total Alternatives	65.8	66.0	66.2	66.8	67.2	67.3	67.2	66.3	65.9	65.8	65.9	66.0	3.6%
Percent Alternative Car Sales	12.74	12.87	12.88	12.88	12.88	12.87	12.86	12.82	12.80	12.78	12.77	12.76	3.8%
Total New Car Sales	516.2	513.0	514.5	518.5	521.8	522.9	523.0	517.1	515.1	515.0	515.9	517.0	-0.2%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	485.7	489.4	498.2	509.0	520.3	528.7	536.0	537.8	543.9	553.0	562.8	574.7	0.9%
TDI Diesel ICE	45.6	46.2	47.2	48.6	50.0	51.4	52.7	53.2	53.8	54.5	56.4	58.0	4.8%
Total Conventional	531.3	535.6	545.4	557.5	570.3	580.1	588.7	591.0	597.7	607.5	619.2	632.8	1.1%
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	1.5%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	48.2	48.6	49.7	51.1	52.6	53.8	54.8	55.1	55.9	57.3	58.7	60.3	4.3%
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	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	1.5%
Electric-Diesel Hybrid	0.0	1.5	1.5	2.2	2.3	2.4	4.1	4.2	4.2	4.3	4.4	4.5	N/A
Electric-Gasoline Hybrid	27.6	27.6	28.2	28.5	29.2	29.7	29.3	29.4	29.7	30.2	30.8	31.4	N/A
CNG 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	0.1%
CNG Bi-fuel	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.9	2.9	1.5%
LPG 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	2.6%
LPG Bi-fuel	8.1	8.2	8.3	8.5	8.7	8.9	9.0	9.1	9.2	9.3	9.5	9.7	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	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	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	N/A
Total Alternatives	86.6	88.6	90.5	93.2	95.8	97.7	100.3	100.7	102.1	104.2	106.5	109.2	5.4%
Percent Alternative Light Truck Sales	14.02	14.20	14.23	14.32	14.38	14.42	14.55	14.56	14.59	14.64	14.68	14.71	3.9%
Total New Truck Sales	618.0	624.2	635.9	650.8	666.0	677.9	689.0	691.7	699.8	711.7	725.7	741.9	1.5%

Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West North Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Percent Total Alternative Sales	13.44	13.60	13.62	13.68	13.72	13.74	13.82	13.82	13.83	13.86	13.89	13.91	3.9%
EPACT Legislative Alternative Sales	18.77	18.90	19.20	19.59	19.99	20.29	20.56	20.59	20.77	21.07	21.42	21.83	1.0%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1134.2	1137.2	1150.4	1169.2	1187.9	1200.8	1211.9	1208.8	1214.9	1226.7	1241.6	1258.9	0.7%

Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)
West North Central

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)

South Atlantic	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1554.3	1463.2	1428.6	1398.5	1426.3	1444.9	1434.6	1432.7	1419.4	1402.1	1398.7	1392.0	1396.7
TDI Diesel ICE	1.2	1.1	1.4	2.7	2.8	2.7	3.5	3.6	3.6	4.3	4.3	4.3	4.5
Total Conventional	1555.5	1464.3	1430.1	1401.2	1429.1	1447.7	1438.1	1436.3	1423.0	1406.4	1403.0	1396.3	1401.2
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
Methanol 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	74.3	69.0	67.5	64.1	66.1	67.0	83.3	83.3	82.2	96.8	96.8	96.5	96.9
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	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.4	9.8	10.3
Electric-Gasoline Hybrid	2.5	3.7	7.4	43.0	45.7	48.4	51.0	53.3	67.5	67.2	80.3	80.2	82.7
CNG 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
CNG Bi-fuel	2.3	2.1	2.0	2.0	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1
LPG 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
LPG Bi-fuel	8.8	8.1	7.8	7.6	7.7	7.7	7.5	7.3	7.2	7.0	7.0	7.0	7.1
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	88.5	83.5	85.3	117.3	122.3	126.0	144.7	146.8	159.6	178.9	192.1	196.2	199.7
Percent Alternative Car Sales	5.39	5.39	5.63	7.72	7.88	8.01	9.14	9.27	10.09	11.28	12.04	12.32	12.47
Total New Car Sales	1644.1	1547.8	1515.4	1518.5	1551.4	1573.7	1582.7	1583.0	1582.7	1585.3	1595.1	1592.5	1600.9
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1338.9	1350.1	1293.0	1316.9	1335.1	1373.4	1347.4	1366.0	1384.5	1398.3	1429.6	1456.0	1490.3
TDI Diesel ICE	54.5	56.8	63.7	101.8	98.5	98.5	99.7	101.9	104.5	122.5	124.4	126.4	132.3
Total Conventional	1393.4	1406.9	1356.7	1418.7	1433.5	1471.9	1447.1	1467.9	1489.0	1520.8	1554.0	1582.4	1622.7
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
Methanol 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	65.4	66.2	64.6	68.6	74.9	77.2	131.8	133.7	135.4	136.9	140.5	143.6	147.5
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	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
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	0.0	0.0	31.3	59.4	63.3	63.4	65.9	68.5	71.2	74.7	78.0	82.0
CNG 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
CNG Bi-fuel	5.9	5.9	5.7	6.1	6.3	6.5	6.6	6.7	6.8	6.9	7.1	7.2	7.4
LPG 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
LPG Bi-fuel	19.5	19.7	19.0	20.3	20.9	21.5	21.9	22.3	22.6	23.1	23.6	24.1	24.7
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	91.4	92.4	89.9	127.0	162.2	169.2	224.4	229.3	234.1	238.9	246.7	253.6	262.4
Percent Alternative Light Truck Sales	6.15	6.17	6.21	8.22	10.17	10.31	13.43	13.51	13.59	13.57	13.70	13.81	13.92
Total New Truck Sales	1484.8	1499.3	1446.6	1545.7	1595.7	1641.1	1671.5	1697.2	1723.1	1759.7	1800.7	1836.1	1885.0

Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)
South Atlantic

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.75	5.77	5.91	7.97	9.04	9.18	11.34	11.46	11.91	12.49	12.92	13.12	13.25
EPACT Legislative Alternative Sales	50.51	49.78	47.93	50.13	51.35	52.35	52.88	53.23	53.59	54.22	55.30	56.15	57.42
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	3128.8	3047.1	2961.9	3064.3	3147.1	3214.8	3254.2	3280.2	3305.8	3345.0	3395.8	3428.6	3485.9

Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1394.0	1393.9	1408.3	1429.5	1449.3	1463.2	1474.2	1468.6	1473.4	1483.4	1496.3	1509.4	0.1%
TDI Diesel ICE	4.5	4.7	4.8	5.0	5.2	5.4	5.7	5.9	6.1	6.3	6.7	7.1	8.4%
Total Conventional	1398.6	1398.6	1413.2	1434.5	1454.6	1468.7	1479.9	1474.4	1479.5	1489.6	1502.9	1516.5	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	-0.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	96.7	96.4	97.2	98.5	99.7	100.3	100.8	99.9	100.0	100.5	101.3	102.1	1.7%
Ethanol ICE	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	4.2%
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	-0.3%
Electric-Diesel Hybrid	12.9	13.3	13.4	13.7	13.9	14.0	14.2	14.1	14.1	14.1	14.3	14.4	N/A
Electric-Gasoline Hybrid	83.8	86.1	87.3	88.8	90.3	91.3	91.9	91.4	91.6	92.1	92.8	93.5	15.1%
CNG 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	-0.2%
CNG Bi-fuel	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	0.3%
LPG 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	N/A
LPG Bi-fuel	7.1	7.1	7.1	7.3	7.4	7.4	7.5	7.5	7.5	7.5	7.6	7.7	-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	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	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	N/A
Total Alternatives	203.1	205.6	207.8	211.1	214.0	215.9	217.3	215.8	216.1	217.2	218.9	220.7	4.3%
Percent Alternative Car Sales	12.68	12.82	12.82	12.83	12.83	12.81	12.80	12.77	12.74	12.73	12.71	12.70	3.8%
Total New Car Sales	1601.7	1604.2	1621.0	1645.6	1668.6	1684.5	1697.2	1690.2	1695.6	1706.9	1721.8	1737.1	0.5%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1514.5	1538.0	1577.2	1623.2	1671.8	1711.5	1748.2	1766.5	1799.1	1841.8	1889.0	1941.8	1.6%
TDI Diesel ICE	133.9	136.7	140.9	146.2	151.5	157.0	162.3	165.0	168.1	171.4	177.4	184.3	5.3%
Total Conventional	1648.5	1674.7	1718.1	1769.5	1823.3	1868.5	1910.5	1931.5	1967.2	2013.2	2066.4	2126.1	1.8%
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	2.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	150.2	152.7	157.2	162.9	169.1	174.2	178.8	180.8	185.0	190.7	196.9	203.6	5.0%
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	N/A
Electric Vehicle	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	2.2%
Electric-Diesel Hybrid	0.0	4.5	4.6	6.8	7.1	7.3	12.9	13.1	13.3	13.6	14.0	14.5	N/A
Electric-Gasoline Hybrid	85.3	86.0	88.4	90.1	93.0	95.3	94.8	95.8	97.6	100.0	102.6	105.3	N/A
CNG 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	1.3%
CNG Bi-fuel	7.6	7.7	7.9	8.1	8.4	8.6	8.8	8.9	9.1	9.3	9.6	9.8	2.2%
LPG 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	2.4%
LPG Bi-fuel	25.2	25.6	26.3	27.1	27.9	28.6	29.3	29.7	30.2	30.9	31.8	32.7	2.2%
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	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	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	N/A
Total Alternatives	269.0	277.3	285.3	296.0	306.4	315.0	325.5	329.3	336.3	345.5	355.9	367.0	6.2%
Percent Alternative Light Truck Sales	14.03	14.21	14.24	14.33	14.39	14.43	14.56	14.56	14.60	14.65	14.69	14.72	3.9%
Total New Truck Sales	1917.5	1952.0	2003.4	2065.4	2129.7	2183.5	2236.0	2260.8	2303.4	2358.7	2422.2	2493.2	2.2%

Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)

South Atlantic	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.42	13.58	13.61	13.66	13.70	13.73	13.80	13.80	13.81	13.84	13.87	13.89	3.9%
EPACT Legislative Alternative Sales	58.23	59.09	60.48	62.17	63.92	65.35	66.73	67.30	68.38	69.82	71.49	73.35	1.7%
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	N/A
Total Vehicles Sales	3519.2	3556.2	3624.4	3711.1	3798.3	3868.1	3933.2	3951.0	3999.0	4065.6	4144.0	4230.3	1.4%

Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)
South Atlantic

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	451.8	429.0	419.8	410.1	416.3	419.1	413.3	409.9	403.2	395.4	391.7	387.1	385.7
TDI Diesel ICE	0.4	0.3	0.4	0.8	0.8	0.8	1.1	1.1	1.1	1.3	1.3	1.3	1.3
Total Conventional	452.1	429.4	420.3	410.9	417.1	420.0	414.4	411.0	404.3	396.7	393.0	388.3	387.0
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
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	21.6	20.2	19.8	18.8	19.3	19.4	24.0	23.8	23.4	27.3	27.1	26.8	26.8
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	0.1
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
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.6	2.9	3.0
Electric-Gasoline Hybrid	0.7	1.1	2.2	12.7	13.4	14.1	14.8	15.3	19.3	19.0	22.6	22.4	22.9
CNG 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
CNG Bi-fuel	0.7	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
LPG 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
LPG Bi-fuel	2.6	2.4	2.3	2.2	2.3	2.2	2.2	2.1	2.0	2.0	2.0	2.0	1.9
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	25.7	24.5	25.1	34.5	35.8	36.6	41.8	42.1	45.5	50.6	54.0	54.8	55.3
Percent Alternative Car Sales	5.39	5.40	5.63	7.74	7.89	8.02	9.15	9.29	10.11	11.31	12.08	12.36	12.51
Total New Car Sales	477.9	453.9	445.4	445.4	452.9	456.6	456.1	453.1	449.8	447.3	447.0	443.1	442.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	387.6	394.9	378.7	384.5	387.8	396.5	386.3	389.0	391.4	392.2	398.4	402.8	409.4
TDI Diesel ICE	17.6	17.7	20.1	31.6	30.6	30.6	30.8	31.2	31.8	37.0	37.2	37.7	39.1
Total Conventional	405.1	412.6	398.8	416.1	418.5	427.1	417.1	420.2	423.2	429.3	435.6	440.5	448.5
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
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	18.9	19.3	18.9	20.0	21.8	22.3	37.8	38.1	38.3	38.4	39.2	39.7	40.5
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.0	0.0	9.2	17.4	18.4	18.3	18.9	19.6	20.2	21.0	21.8	22.7
CNG 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
CNG Bi-fuel	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1
LPG 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
LPG Bi-fuel	5.7	5.8	5.6	5.9	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.7	6.8
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	26.4	27.0	26.3	37.2	47.3	49.1	64.6	65.5	66.4	67.2	69.0	70.4	72.3
Percent Alternative Light Truck Sales	6.13	6.15	6.19	8.21	10.16	10.30	13.40	13.49	13.56	13.54	13.67	13.78	13.89
Total New Truck Sales	431.6	439.6	425.1	453.4	465.8	476.1	481.7	485.7	489.7	496.5	504.6	510.9	520.8

Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)

East South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.74	5.77	5.91	7.98	9.04	9.18	11.34	11.46	11.91	12.49	12.92	13.12	13.26
EPACT Legislative Alternative Sales	14.68	14.60	14.09	14.70	14.99	15.19	15.24	15.24	15.23	15.30	15.50	15.62	15.87
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	909.5	893.5	870.5	898.7	918.7	932.7	937.8	938.8	939.4	943.8	951.6	954.0	963.2

Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	382.3	379.7	381.2	384.6	387.5	388.8	389.3	385.5	384.5	384.8	385.8	387.0	-0.4%
TDI Diesel ICE	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.9	7.8%
Total Conventional	383.6	381.1	382.6	386.0	389.0	390.3	390.9	387.1	386.1	386.5	387.7	388.9	-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	-0.9%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	26.5	26.3	26.3	26.5	26.6	26.7	26.6	26.2	26.1	26.1	26.1	26.2	1.1%
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	4.2%
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	-0.9%
Electric-Diesel Hybrid	3.7	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.9	N/A
Electric-Gasoline Hybrid	23.1	23.5	23.7	24.0	24.2	24.3	24.3	24.0	24.0	24.0	24.0	24.0	14.4%
CNG 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	-0.5%
CNG 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	-0.2%
LPG 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	N/A
LPG Bi-fuel	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.8%
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	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	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	N/A
Total Alternatives	55.9	56.2	56.5	57.0	57.5	57.6	57.6	56.9	56.6	56.6	56.7	56.8	3.7%
Percent Alternative Car Sales	12.73	12.86	12.86	12.87	12.87	12.86	12.85	12.81	12.79	12.77	12.76	12.74	3.8%
Total New Car Sales	439.6	437.3	439.1	443.0	446.4	447.9	448.5	444.0	442.8	443.1	444.3	445.7	-0.1%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	413.2	416.8	424.7	434.4	444.6	452.4	459.2	461.2	466.9	475.2	484.5	495.3	1.0%
TDI Diesel ICE	39.3	39.9	40.8	42.1	43.4	44.6	45.8	46.3	46.9	47.5	48.9	50.4	4.6%
Total Conventional	452.6	456.7	465.6	476.5	488.0	497.0	505.0	507.5	513.8	522.8	533.4	545.7	1.2%
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	1.6%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	41.0	41.4	42.4	43.6	45.0	46.0	47.0	47.2	48.0	49.2	50.5	52.0	4.4%
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	N/A
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	1.7%
Electric-Diesel Hybrid	0.0	1.3	1.3	1.9	2.0	2.1	3.6	3.6	3.6	3.7	3.8	3.9	N/A
Electric-Gasoline Hybrid	23.5	23.5	24.0	24.3	24.9	25.3	25.0	25.1	25.5	25.9	26.4	27.0	N/A
CNG 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	1.0%
CNG Bi-fuel	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.5	2.5	1.6%
LPG 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	2.3%
LPG Bi-fuel	6.9	7.0	7.1	7.3	7.5	7.6	7.8	7.8	7.9	8.0	8.2	8.4	1.6%
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	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	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	N/A
Total Alternatives	73.7	75.5	77.1	79.5	81.8	83.6	85.9	86.3	87.7	89.5	91.7	94.0	5.6%
Percent Alternative Light Truck Sales	14.00	14.18	14.21	14.30	14.36	14.40	14.53	14.54	14.57	14.62	14.66	14.70	3.9%
Total New Truck Sales	526.2	532.1	542.7	556.1	569.8	580.6	590.9	593.9	601.5	612.3	625.1	639.7	1.6%

Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)

East South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Percent Total Alternative Sales	13.42	13.58	13.61	13.67	13.70	13.73	13.80	13.80	13.82	13.84	13.87	13.89	3.9%
EPACT Legislative Alternative Sales	15.98	16.11	16.38	16.74	17.10	17.38	17.63	17.68	17.86	18.13	18.45	18.82	1.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	965.8	969.5	981.8	999.1	1016.3	1028.6	1039.4	1037.9	1044.2	1055.4	1069.4	1085.4	0.8%

Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East South Central

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

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

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	854.8	809.8	793.3	777.7	792.0	801.6	794.9	792.6	784.2	773.4	770.3	765.3	766.6
TDI Diesel ICE	0.7	0.6	0.8	1.5	1.6	1.6	2.1	2.1	2.1	2.5	2.5	2.6	2.6
Total Conventional	855.5	810.4	794.1	779.3	793.7	803.2	796.9	794.8	786.3	775.9	772.9	767.9	769.3
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
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	40.9	38.2	37.5	35.7	36.7	37.2	46.2	46.1	45.4	53.4	53.3	53.1	53.2
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	0.1
Electric Vehicle	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.2	5.7	6.0
Electric-Gasoline Hybrid	1.4	2.0	4.1	24.0	25.5	27.0	28.4	29.7	37.5	37.2	44.4	44.2	45.5
CNG 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
CNG Bi-fuel	1.3	1.2	1.1	1.1	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.2
LPG 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
LPG Bi-fuel	4.8	4.5	4.3	4.2	4.3	4.2	4.2	4.1	4.0	3.9	3.9	3.9	3.9
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	48.7	46.2	47.4	65.3	68.1	70.0	80.3	81.4	88.4	99.0	106.2	108.3	110.0
Percent Alternative Car Sales	5.39	5.39	5.63	7.73	7.90	8.02	9.15	9.29	10.11	11.31	12.08	12.36	12.51
Total New Car Sales	904.2	856.6	841.5	844.6	861.8	873.2	877.2	876.1	874.7	874.9	879.0	876.2	879.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	735.4	746.4	717.0	731.2	736.6	757.6	742.4	751.4	760.5	766.3	782.2	795.7	812.8
TDI Diesel ICE	31.0	32.2	36.4	57.9	59.8	59.3	59.9	61.3	62.7	73.4	74.6	75.4	78.8
Total Conventional	766.4	778.7	753.4	789.1	796.4	816.9	802.3	812.7	823.2	839.7	856.8	871.1	891.6
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
Methanol 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	35.9	36.6	35.8	38.1	41.3	42.6	72.6	73.6	74.4	75.0	76.9	78.5	80.5
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	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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	0.0	0.0	17.5	33.1	35.3	35.2	36.6	38.0	39.4	41.3	43.0	45.1
CNG 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
CNG Bi-fuel	3.2	3.3	3.2	3.4	3.5	3.6	3.7	3.7	3.8	3.8	3.9	4.0	4.1
LPG 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
LPG Bi-fuel	10.7	10.9	10.5	11.3	11.6	11.9	12.2	12.3	12.5	12.7	13.0	13.3	13.6
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	50.2	51.1	49.8	70.6	90.0	93.8	124.1	126.6	129.1	131.4	135.5	139.1	143.7
Percent Alternative Light Truck Sales	6.15	6.16	6.20	8.21	10.15	10.30	13.39	13.48	13.56	13.53	13.66	13.77	13.88
Total New Truck Sales	816.6	829.8	803.3	859.7	886.4	910.7	926.4	939.3	952.3	971.1	992.3	1010.2	1035.3

Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West South Central	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.75	5.77	5.91	7.97	9.04	9.18	11.33	11.46	11.90	12.48	12.92	13.12	13.25
EPACT Legislative Alternative Sales	27.78	27.55	26.62	27.88	28.52	29.05	29.31	29.46	29.62	29.92	30.47	30.90	31.54
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	1720.8	1686.4	1644.8	1704.3	1748.2	1783.9	1803.6	1815.4	1827.0	1846.0	1871.3	1886.4	1914.6

Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	763.6	762.0	768.1	777.9	786.8	792.4	796.4	791.6	792.4	796.0	801.2	806.6	0.0%
TDI Diesel ICE	2.7	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.6	3.8	4.0	8.4%
Total Conventional	766.3	764.7	771.0	780.8	789.8	795.6	799.7	795.0	795.9	799.6	805.0	810.6	0.0%
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	53.0	52.7	53.0	53.6	54.1	54.3	54.4	53.9	53.8	53.9	54.2	54.5	1.6%
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	4.7%
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	-0.5%
Electric-Diesel Hybrid	7.4	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.0	8.0	8.1	8.1	N/A
Electric-Gasoline Hybrid	46.0	47.2	47.7	48.4	49.1	49.5	49.8	49.3	49.3	49.5	49.8	50.0	14.9%
CNG 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	-0.1%
CNG Bi-fuel	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.2%
LPG 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	N/A
LPG Bi-fuel	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.1	-0.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Total Alternatives	111.7	112.9	113.8	115.4	116.7	117.4	117.9	116.8	116.7	117.1	117.7	118.4	4.2%
Percent Alternative Car Sales	12.73	12.86	12.87	12.87	12.87	12.86	12.85	12.81	12.79	12.77	12.76	12.75	3.8%
Total New Car Sales	878.0	877.5	884.8	896.2	906.5	913.0	917.6	911.8	912.6	916.7	922.8	929.1	0.4%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	824.5	835.3	854.7	877.6	901.6	920.8	938.1	945.9	961.2	981.9	1004.9	1031.1	1.4%
TDI Diesel ICE	79.6	81.2	83.6	86.5	89.4	92.4	95.2	96.6	98.1	99.8	103.0	106.5	5.3%
Total Conventional	904.1	916.5	938.3	964.1	991.0	1013.2	1033.4	1042.4	1059.3	1081.7	1107.9	1137.6	1.7%
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	2.1%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	81.8	83.0	85.2	88.1	91.2	93.7	95.9	96.9	98.9	101.7	104.8	108.2	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	N/A
Electric Vehicle	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	2.1%
Electric-Diesel Hybrid	0.0	2.6	2.7	4.0	4.1	4.2	7.3	7.4	7.6	7.7	7.9	8.2	N/A
Electric-Gasoline Hybrid	46.8	47.1	48.2	49.0	50.4	51.6	51.1	51.5	52.4	53.5	54.8	56.2	N/A
CNG 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	0.9%
CNG Bi-fuel	4.1	4.2	4.3	4.4	4.6	4.7	4.8	4.8	4.9	5.0	5.1	5.3	2.1%
LPG 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	3.5%
LPG Bi-fuel	13.8	14.0	14.3	14.8	15.2	15.5	15.9	16.0	16.3	16.6	17.0	17.5	2.1%
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	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	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	N/A
Total Alternatives	147.0	151.3	155.3	160.8	166.0	170.3	175.5	177.2	180.5	185.1	190.2	195.8	6.0%
Percent Alternative Light Truck Sales	13.99	14.17	14.20	14.29	14.35	14.39	14.52	14.53	14.56	14.61	14.65	14.68	3.8%
Total New Truck Sales	1051.1	1067.8	1093.5	1124.8	1157.0	1183.4	1208.9	1219.6	1239.8	1266.8	1298.1	1333.4	2.1%

Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)

West South Central	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.41	13.58	13.60	13.66	13.70	13.72	13.80	13.79	13.81	13.84	13.87	13.89	3.9%
EPACT Legislative Alternative Sales	31.92	32.33	33.01	33.86	34.72	35.42	36.08	36.30	36.81	37.50	38.31	39.23	1.5%
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	N/A
Total Vehicles Sales	1929.2	1945.4	1978.3	2021.0	2063.5	2096.4	2126.5	2131.4	2152.5	2183.5	2220.9	2262.5	1.3%

Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)
West South Central

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	467.9	452.8	450.6	447.1	458.6	468.1	468.4	471.7	470.9	468.4	470.7	471.7	476.6
TDI Diesel ICE	0.4	0.4	0.5	0.9	1.0	1.0	1.3	1.3	1.3	1.6	1.6	1.6	1.7
Total Conventional	468.3	453.2	451.1	448.1	459.7	469.1	469.7	473.0	472.3	470.0	472.3	473.4	478.3
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
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	22.4	21.4	21.3	20.5	21.2	21.7	27.2	27.4	27.3	32.3	32.6	32.7	33.1
Ethanol 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
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
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	3.7	3.9
Electric-Gasoline Hybrid	0.8	1.2	2.4	14.1	15.2	16.3	17.3	18.2	23.2	23.1	27.9	28.0	29.0
CNG 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
CNG Bi-fuel	0.7	0.7	0.6	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
LPG 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
LPG Bi-fuel	2.7	2.5	2.5	2.4	2.5	2.5	2.5	2.4	2.4	2.3	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	0.0	0.0	0.0	0.0
Total Alternatives	26.7	25.9	27.0	37.8	39.9	41.4	47.8	48.9	53.7	60.7	65.7	67.7	69.3
Percent Alternative Car Sales	5.39	5.40	5.64	7.78	7.99	8.11	9.24	9.37	10.22	11.43	12.22	12.50	12.65
Total New Car Sales	495.0	479.1	478.1	485.9	499.6	510.5	517.6	522.0	526.0	530.7	538.1	541.0	547.6
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	399.8	416.3	405.8	418.4	423.8	439.8	435.2	445.0	454.6	461.6	476.2	488.5	503.5
TDI Diesel ICE	20.0	19.3	22.4	35.5	37.4	37.3	38.0	38.9	40.2	47.5	48.0	49.1	51.5
Total Conventional	419.8	435.6	428.2	453.9	461.3	477.2	473.1	483.9	494.8	509.1	524.2	537.5	555.0
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
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	19.5	20.4	20.2	21.8	23.8	24.7	42.6	43.6	44.5	45.2	46.8	48.2	49.8
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
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	0.0	0.0	10.2	19.8	21.2	21.3	22.3	23.4	24.4	25.8	27.1	28.7
CNG 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
CNG Bi-fuel	1.8	1.8	1.8	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.4	2.5	2.5
LPG 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
LPG Bi-fuel	5.9	6.1	6.0	6.5	6.7	7.0	7.2	7.3	7.5	7.7	8.0	8.2	8.5
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	27.3	28.5	28.2	40.7	52.6	55.2	73.4	75.7	77.9	80.0	83.3	86.2	89.8
Percent Alternative Light Truck Sales	6.10	6.14	6.18	8.23	10.23	10.37	13.44	13.53	13.60	13.58	13.71	13.82	13.93
Total New Truck Sales	447.1	464.1	456.4	494.6	513.8	532.4	546.6	559.6	572.7	589.1	607.4	623.8	644.8

Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Mountain	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.73	5.77	5.91	8.01	9.12	9.26	11.40	11.52	11.98	12.56	13.01	13.21	13.34
EPACT Legislative Alternative Sales	15.21	15.41	15.12	16.04	16.53	16.98	17.29	17.55	17.81	18.15	18.65	19.08	19.64
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	942.1	943.2	934.4	980.5	1013.4	1042.9	1064.2	1081.6	1098.7	1119.8	1145.5	1164.8	1192.5

Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	479.0	482.3	490.3	501.1	511.5	519.8	526.8	527.9	532.3	538.9	545.7	553.0	0.9%
TDI Diesel ICE	1.7	1.8	1.9	2.0	2.0	2.1	2.3	2.3	2.5	2.6	2.8	3.1	9.6%
Total Conventional	480.8	484.1	492.2	503.0	513.6	521.9	529.1	530.2	534.8	541.5	548.5	556.1	0.9%
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	33.2	33.4	33.8	34.5	35.2	35.6	36.0	35.9	36.1	36.5	36.9	37.4	2.5%
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	5.2%
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	0.4%
Electric-Diesel Hybrid	4.8	5.0	5.2	5.2	5.3	5.4	5.5	5.6	5.7	5.7	5.9	6.1	N/A
Electric-Gasoline Hybrid	29.6	30.6	31.2	31.9	32.6	33.2	33.7	33.6	33.9	34.3	34.8	35.2	16.0%
CNG 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	0.9%
CNG Bi-fuel	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.2%
LPG 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	N/A
LPG Bi-fuel	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.7	2.8	2.8	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	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	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	N/A
Total Alternatives	71.0	72.3	73.6	75.2	76.8	77.9	78.9	78.9	79.5	80.4	81.5	82.6	5.2%
Percent Alternative Car Sales	12.87	13.00	13.01	13.01	13.00	12.99	12.98	12.95	12.94	12.92	12.94	12.93	3.9%
Total New Car Sales	551.8	556.5	565.8	578.3	590.3	599.9	608.0	609.1	614.3	621.9	630.0	638.7	1.3%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	515.6	527.3	543.6	563.7	584.8	602.6	618.9	628.8	642.6	661.6	678.8	700.7	2.3%
TDI Diesel ICE	52.2	53.5	56.1	58.0	60.1	62.6	65.4	67.2	70.0	71.8	77.4	81.2	6.4%
Total Conventional	567.8	580.8	599.7	621.7	644.9	665.3	684.3	696.0	712.6	733.4	756.2	781.8	2.6%
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	3.0%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	51.2	52.4	54.2	56.6	59.2	61.3	63.3	64.4	66.1	68.5	70.8	73.5	5.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	3.0%
Electric-Diesel Hybrid	0.0	1.7	1.8	2.7	2.8	2.9	5.1	5.2	5.4	5.5	5.9	6.1	N/A
Electric-Gasoline Hybrid	30.0	30.4	31.4	32.2	33.4	34.5	34.4	35.0	35.8	36.8	37.9	39.1	N/A
CNG 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	-0.4%
CNG Bi-fuel	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.6	3.0%
LPG 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	7.2%
LPG Bi-fuel	8.7	8.9	9.2	9.5	9.9	10.2	10.5	10.7	10.9	11.3	11.6	12.0	3.0%
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	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	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	N/A
Total Alternatives	92.7	96.3	99.7	104.1	108.5	112.3	116.8	118.8	121.9	125.9	130.1	134.8	7.0%
Percent Alternative Light Truck Sales	14.04	14.23	14.25	14.35	14.40	14.44	14.58	14.58	14.61	14.66	14.68	14.71	3.9%
Total New Truck Sales	660.5	677.1	699.3	725.8	753.5	777.6	801.1	814.8	834.5	859.4	886.3	916.7	3.0%

Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Mountain	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.51	13.67	13.70	13.76	13.79	13.81	13.89	13.88	13.90	13.93	13.96	13.98	3.9%
EPACT Legislative Alternative Sales	20.06	20.50	21.11	21.85	22.61	23.27	23.91	24.25	24.77	25.44	26.16	26.97	2.5%
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	N/A
Total Vehicles Sales	1212.3	1233.6	1265.2	1304.1	1343.8	1377.4	1409.1	1423.9	1448.8	1481.2	1516.3	1555.4	2.2%

Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Mountain

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Pacific	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1314.3	1249.4	1225.4	1200.9	1217.9	1229.4	1217.6	1211.8	1191.9	1171.5	1164.8	1155.5	1155.8
TDI Diesel ICE	1.3	1.0	1.3	2.5	2.8	2.9	3.7	3.8	4.0	4.6	4.4	4.4	4.5
Total Conventional	1315.6	1250.4	1226.7	1203.3	1220.8	1232.3	1221.3	1215.6	1195.9	1176.0	1169.2	1159.9	1160.3
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
Methanol 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	62.9	58.9	57.9	55.1	56.4	57.0	70.7	70.5	69.0	80.9	80.6	80.1	80.2
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Electric Vehicle	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5	9.7	10.0
Electric-Gasoline Hybrid	2.2	3.2	6.6	38.0	40.7	42.9	45.0	46.9	59.6	58.4	69.7	69.0	70.9
CNG 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
CNG Bi-fuel	2.0	1.8	1.8	1.7	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9
LPG 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
LPG Bi-fuel	7.5	6.9	6.7	6.5	6.6	6.5	6.4	6.2	6.0	5.9	5.9	5.8	5.9
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	0.6
Total Alternatives	75.1	71.4	73.5	101.8	106.3	109.1	124.6	126.2	137.1	153.1	164.1	167.2	170.0
Percent Alternative Car Sales	5.40	5.40	5.65	7.80	8.01	8.13	9.26	9.40	10.28	11.52	12.31	12.60	12.78
Total New Car Sales	1390.7	1321.8	1300.2	1305.1	1327.1	1341.4	1345.9	1341.7	1333.0	1329.1	1333.3	1327.1	1330.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1116.3	1150.1	1105.6	1126.2	1119.5	1144.8	1121.3	1129.7	1128.5	1136.5	1164.2	1181.8	1210.2
TDI Diesel ICE	63.5	51.5	58.7	92.6	105.8	109.1	109.5	114.9	125.4	138.4	134.1	134.8	137.0
Total Conventional	1179.8	1201.6	1164.3	1218.8	1225.3	1254.0	1230.7	1244.5	1253.9	1274.9	1298.3	1316.7	1347.2
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
Methanol 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	54.2	56.3	55.1	58.7	62.8	64.3	109.9	110.8	110.7	111.6	114.7	117.0	120.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.5	0.5	0.5	0.6	0.8	1.1	1.1	1.1	1.4	1.4	1.4	2.0	1.8
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	0.0	0.0	27.7	52.7	55.7	55.4	57.5	59.7	61.6	64.4	66.9	70.0
CNG 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
CNG Bi-fuel	5.0	5.1	4.9	5.3	5.4	5.5	5.6	5.7	5.7	5.8	6.0	6.0	6.2
LPG 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
LPG Bi-fuel	16.5	16.8	16.3	17.4	17.9	18.3	18.6	18.9	19.0	19.4	19.7	20.1	20.5
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	0.6	0.6	0.6	1.4	0.6
Total Alternatives	76.1	78.8	76.9	109.7	139.7	145.0	190.6	193.9	197.3	200.5	206.8	213.4	219.2
Percent Alternative Light Truck Sales	6.06	6.15	6.19	8.26	10.24	10.36	13.41	13.48	13.60	13.59	13.74	13.95	13.99
Total New Truck Sales	1255.9	1280.4	1241.2	1328.5	1365.0	1398.9	1421.4	1438.5	1451.2	1475.4	1505.1	1530.1	1566.4

Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.71	5.77	5.91	8.03	9.14	9.27	11.39	11.51	12.01	12.61	13.06	13.32	13.44
EPACT Legislative Alternative Sales	42.73	42.51	41.13	43.09	43.92	44.63	44.97	45.12	45.13	45.46	46.22	46.80	47.71
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	53.36	80.39	81.01	81.24	113.97	114.67	111.66	153.68	138.62
Total Vehicles Sales	2646.6	2602.2	2541.4	2633.6	2692.1	2740.4	2767.3	2780.2	2784.2	2804.5	2838.3	2857.1	2896.7

Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)

Pacific	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1150.6	1147.0	1155.2	1168.9	1181.6	1189.7	1195.5	1187.2	1186.1	1190.2	1194.6	1200.5	-0.2%
TDI Diesel ICE	4.5	4.6	4.8	5.0	5.1	5.3	5.5	5.7	6.0	6.3	6.8	7.2	9.0%
Total Conventional	1155.1	1151.6	1160.0	1173.8	1186.6	1195.1	1201.0	1192.9	1192.2	1196.4	1201.4	1207.7	-0.2%
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	79.8	79.4	79.8	80.6	81.4	81.7	81.8	80.9	80.6	80.8	81.0	81.4	1.4%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	4.2%
Electric Vehicle	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	1.2%
Electric-Diesel Hybrid	12.4	12.7	12.9	13.2	13.1	13.3	13.3	13.3	13.5	13.5	13.9	14.0	N/A
Electric-Gasoline Hybrid	71.5	73.1	73.8	74.9	75.9	76.4	76.7	76.0	75.9	76.1	76.4	76.7	14.7%
CNG 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	-0.5%
CNG Bi-fuel	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	2.0	0.4%
LPG 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	N/A
LPG Bi-fuel	5.9	5.8	5.9	6.0	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	-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	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	N/A
Fuel Cell Hydrogen	0.4	1.0	1.1	1.1	2.3	2.2	2.2	2.3	2.3	2.4	2.8	2.9	N/A
Total Alternatives	172.4	174.5	176.1	178.3	181.2	182.3	182.9	181.3	181.2	181.6	182.9	183.8	4.2%
Percent Alternative Car Sales	12.99	13.16	13.18	13.19	13.25	13.23	13.22	13.19	13.19	13.18	13.21	13.21	4.0%
Total New Car Sales	1327.5	1326.1	1336.1	1352.2	1367.9	1377.3	1383.9	1374.1	1373.3	1378.0	1384.3	1391.5	0.2%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1227.5	1242.0	1268.4	1300.2	1336.2	1363.5	1389.2	1399.5	1415.0	1444.2	1469.6	1503.9	1.2%
TDI Diesel ICE	137.8	139.4	144.8	150.6	151.4	157.7	162.1	164.3	172.4	175.6	185.9	193.9	5.9%
Total Conventional	1365.3	1381.4	1413.2	1450.9	1487.6	1521.2	1551.3	1563.8	1587.4	1619.8	1655.4	1697.8	1.5%
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	2.0%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	122.0	123.7	126.9	131.0	136.0	139.6	142.8	144.1	146.3	150.3	154.0	158.6	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	N/A
Electric Vehicle	1.6	2.7	3.0	3.1	5.6	5.4	5.3	5.3	5.3	5.2	5.7	5.6	10.7%
Electric-Diesel Hybrid	0.0	4.4	4.5	6.7	6.8	7.1	12.2	12.4	12.9	13.1	13.7	14.2	N/A
Electric-Gasoline Hybrid	72.5	72.6	74.2	75.2	77.4	79.1	78.1	78.7	79.7	81.3	83.0	84.8	N/A
CNG 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	0.6%
CNG Bi-fuel	6.3	6.4	6.5	6.7	6.9	7.1	7.2	7.3	7.4	7.5	7.7	7.9	1.9%
LPG 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	2.9%
LPG Bi-fuel	20.8	21.2	21.7	22.3	22.9	23.4	23.9	24.1	24.5	25.0	25.5	26.2	2.0%
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	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	N/A
Fuel Cell Hydrogen	0.5	1.2	1.2	1.3	2.6	2.5	2.4	2.4	2.3	2.1	2.2	2.1	N/A
Total Alternatives	223.8	232.1	238.1	246.3	258.3	264.1	272.0	274.2	278.3	284.5	291.9	299.4	6.0%
Percent Alternative Light Truck Sales	14.08	14.39	14.42	14.51	14.79	14.79	14.92	14.92	14.92	14.94	14.99	14.99	3.9%
Total New Truck Sales	1589.2	1613.6	1651.3	1697.2	1745.8	1785.3	1823.3	1838.1	1865.7	1904.3	1947.3	1997.2	2.0%

Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.58	13.83	13.87	13.93	14.12	14.11	14.18	14.18	14.19	14.20	14.25	14.26	4.0%
EPACT Legislative Alternative Sales	48.26	48.85	49.85	51.09	52.40	53.43	54.41	54.71	55.39	56.37	57.48	58.75	1.4%
Z EVP Legislative Alternative Sales	126.58	190.90	202.18	208.19	296.88	291.85	290.75	293.00	292.83	289.32	307.66	307.78	N/A
Total Vehicles Sales	2916.6	2939.6	2987.4	3049.4	3113.7	3162.6	3207.1	3212.2	3239.0	3282.3	3331.6	3388.7	1.2%

Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

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

N/A = Not applicable.

Sources: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 45. Light-Duty Vehicle Sales by Technology Type

(Thousands)

United States	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	8162.3	7726.8	7554.0	7383.1	7497.3	7564.6	7479.5	7435.0	7326.0	7198.9	7146.6	7079.3	7070.1
TDI Diesel ICE	7.0	6.0	7.7	14.8	15.7	15.4	19.6	20.0	20.2	23.7	23.6	23.6	24.3
Total Conventional	8169.3	7732.8	7561.7	7397.8	7512.9	7580.1	7499.1	7455.0	7346.2	7222.6	7170.2	7102.9	7094.4
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
Methanol 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	390.4	364.4	357.0	338.6	347.1	350.8	434.3	432.4	424.3	497.2	494.4	490.9	490.4
Ethanol ICE	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9
Electric Vehicle	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	29.5	52.9	55.1
Electric-Gasoline Hybrid	13.4	19.7	40.0	229.9	244.0	257.5	270.0	280.9	354.4	349.7	416.2	413.1	424.1
CNG ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
CNG Bi-fuel	12.1	11.2	10.8	10.5	12.3	12.3	11.9	11.6	11.2	11.0	10.9	10.8	10.8
LPG 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
LPG Bi-fuel	46.3	42.9	41.1	40.2	40.6	40.1	39.2	38.1	37.0	35.9	36.0	35.7	35.8
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Total Alternatives	465.4	441.2	451.8	622.1	646.9	663.6	758.2	765.9	829.8	925.4	989.9	1006.4	1020.1
Percent Alternative Car Sales	5.39	5.40	5.64	7.76	7.93	8.05	9.18	9.32	10.15	11.36	12.13	12.41	12.57
Total New Car Sales	8634.7	8174.1	8013.5	8019.9	8159.9	8243.7	8257.3	8220.9	8175.9	8148.0	8160.1	8109.3	8114.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	6992.4	7121.2	6825.9	6938.2	6969.0	7143.0	6982.1	7040.6	7088.7	7123.8	7255.3	7355.9	7498.8
TDI Diesel ICE	328.6	309.1	349.3	553.4	568.9	565.7	567.1	582.4	602.2	692.0	693.1	698.4	723.8
Total Conventional	7321.0	7430.3	7175.2	7491.5	7537.9	7708.7	7549.2	7623.0	7690.9	7815.8	7948.4	8054.2	8222.6
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
Methanol 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	340.7	349.1	340.6	361.8	391.2	401.3	683.3	689.4	693.9	697.9	713.4	726.0	742.5
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	3.3	3.4	3.3	3.5	4.0	4.5	4.5	4.5	5.1	5.2	5.2	6.3	5.9
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	0.0	0.0	167.5	316.8	335.8	334.2	346.2	358.4	370.1	386.4	401.2	419.6
CNG 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
CNG Bi-fuel	30.8	31.2	30.2	32.2	33.1	33.9	34.4	34.8	35.1	35.7	36.3	36.9	37.7
LPG 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
LPG Bi-fuel	102.3	103.9	100.3	107.1	110.1	112.8	114.4	115.6	116.8	118.6	120.8	122.6	125.3
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	1.0	1.0	1.0	2.4	1.0
Total Alternatives	477.1	487.6	474.4	672.1	855.3	888.4	1170.9	1190.6	1210.5	1228.7	1263.2	1295.5	1332.2
Percent Alternative Light Truck Sales	6.12	6.16	6.20	8.23	10.19	10.33	13.43	13.51	13.60	13.59	13.71	13.86	13.94
Total New Truck Sales	7798.2	7917.9	7649.7	8163.6	8393.3	8597.1	8720.1	8813.6	8901.4	9044.5	9211.7	9349.7	9554.7

Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)
United States

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Percent Total Alternative Sales	5.74	5.77	5.91	8.00	9.08	9.22	11.36	11.49	11.95	12.53	12.97	13.18	13.31
EPACT Legislative Alternative Sales	265.29	262.88	253.49	264.77	270.07	274.25	275.90	276.46	276.82	278.69	282.89	285.95	291.04
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	89.57	134.91	135.93	136.30	191.17	192.29	187.22	257.60	232.30
Total Vehicles Sales	16432.9	16092.0	15663.2	16183.6	16553.1	16840.7	16977.4	17034.4	17077.4	17192.5	17371.8	17459.0	17669.3

Table 45. Light-Duty Vehicle Sales by Technology Type

(Thousands)

United States	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	7024.4	6991.0	7030.5	7104.4	7171.0	7208.5	7231.5	7173.2	7165.4	7183.5	7213.3	7246.4	-0.3%
TDI Diesel ICE	24.4	24.9	25.7	26.7	27.6	28.7	29.8	30.6	31.8	33.0	35.0	37.1	8.2%
Total Conventional	7048.8	7015.9	7056.2	7131.1	7198.6	7237.3	7261.4	7203.8	7197.2	7216.5	7248.3	7283.6	-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	-0.7%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	487.2	483.6	485.5	489.8	493.3	494.4	494.5	488.4	486.4	486.9	488.4	490.3	1.3%
Ethanol ICE	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	3.9%
Electric Vehicle	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	-0.3%
Electric-Diesel Hybrid	68.4	70.3	71.1	71.9	72.4	73.1	73.5	73.2	73.2	73.0	73.8	74.4	N/A
Electric-Gasoline Hybrid	427.5	436.9	440.6	446.5	451.7	454.5	455.9	451.2	450.3	451.1	452.6	454.0	14.6%
CNG ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.5%
CNG Bi-fuel	10.7	10.7	10.7	10.9	11.0	11.1	11.1	11.0	11.0	11.1	11.1	11.2	0.0%
LPG 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	N/A
LPG Bi-fuel	35.6	35.5	35.7	36.1	36.5	36.7	36.8	36.5	36.4	36.5	36.7	36.9	-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	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	N/A
Fuel Cell Hydrogen	0.7	1.6	1.9	1.9	3.8	3.7	3.7	3.9	3.9	4.1	4.7	4.8	N/A
Total Alternatives	1033.1	1041.8	1048.8	1060.5	1072.1	1076.8	1079.0	1067.6	1064.8	1066.3	1071.0	1075.5	3.9%
Percent Alternative Car Sales	12.78	12.93	12.94	12.95	12.96	12.95	12.94	12.91	12.89	12.87	12.87	12.87	3.8%
Total New Car Sales	8081.9	8057.7	8105.0	8191.6	8270.7	8314.1	8340.4	8271.4	8262.0	8282.8	8319.3	8359.0	0.1%
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	7587.6	7666.4	7822.2	8014.4	8215.8	8373.9	8516.4	8568.2	8682.5	8851.7	9030.2	9243.7	1.1%
TDI Diesel ICE	728.3	740.3	763.3	788.2	809.8	837.2	861.3	873.3	892.8	908.2	944.0	977.9	5.1%
Total Conventional	8316.0	8406.7	8585.5	8802.6	9025.6	9211.1	9377.7	9441.5	9575.3	9759.9	9974.2	10221.7	1.4%
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	1.8%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	753.1	761.8	780.6	805.2	832.5	853.6	872.2	878.5	894.3	917.7	942.7	970.8	4.5%
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	N/A
Electric Vehicle	5.7	7.6	8.1	8.3	12.6	12.3	12.2	12.4	12.3	12.2	13.1	13.1	6.1%
Electric-Diesel Hybrid	0.0	23.8	24.6	36.3	37.4	38.6	67.0	67.8	69.2	70.4	72.8	74.9	N/A
Electric-Gasoline Hybrid	434.4	435.5	445.2	451.5	463.6	473.2	467.7	470.8	477.5	486.8	497.1	508.2	N/A
CNG 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	0.7%
CNG Bi-fuel	38.2	38.7	39.5	40.6	41.6	42.5	43.4	43.6	44.3	45.2	46.2	47.3	1.8%
LPG 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	3.0%
LPG Bi-fuel	126.9	128.6	131.4	134.9	138.5	141.4	144.1	145.1	147.2	150.1	153.5	157.4	1.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
Fuel Cell Hydrogen	0.8	2.0	2.1	2.2	4.4	4.2	4.0	4.0	3.8	3.5	3.7	3.4	N/A
Total Alternatives	1359.2	1398.1	1431.6	1479.0	1530.7	1565.8	1610.7	1622.3	1648.7	1686.1	1729.2	1775.3	5.8%
Percent Alternative Light Truck Sales	14.05	14.26	14.29	14.38	14.50	14.53	14.66	14.66	14.69	14.73	14.78	14.80	3.9%
Total New Truck Sales	9675.2	9804.8	10017.1	10281.6	10556.3	10776.9	10988.4	11063.8	11224.0	11446.0	11703.4	11997.0	1.8%

Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)
United States

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Percent Total Alternative Sales	13.47	13.66	13.69	13.75	13.83	13.84	13.92	13.91	13.93	13.95	13.99	14.00	3.9%
EPACT Legislative Alternative Sales	293.79	296.82	302.38	309.49	316.81	322.55	327.94	329.33	333.22	338.83	345.43	352.94	1.3%
Z EVP Legislative Alternative Sales	212.08	319.78	338.61	348.61	497.03	488.51	486.58	490.24	489.87	483.90	514.47	514.54	N/A
Total Vehicles Sales	17757.1	17862.5	18122.2	18473.2	18827.0	19091.0	19328.8	19335.2	19486.0	19728.7	20022.8	20356.0	1.0%

Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)
United States

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: 2002 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Car Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	127.31	127.67	127.61	127.21	126.76	126.34	125.78	125.16	124.43	123.61	122.78	121.93	121.11
TDI Diesel ICE	0.52	0.46	0.41	0.37	0.34	0.32	0.31	0.30	0.29	0.29	0.29	0.30	0.30
Total Conventional	127.83	128.13	128.02	127.58	127.11	126.66	126.08	125.45	124.72	123.90	123.08	122.23	121.41
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	0.94	1.30	1.65	1.97	2.28	2.60	2.98	3.35	3.70	4.10	4.48	4.83	5.17
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas Technology													
CNG 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
CNG Bi-fuel	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.13
LPG 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
LPG Bi-fuel	0.06	0.10	0.14	0.18	0.21	0.25	0.28	0.31	0.34	0.37	0.39	0.41	0.43
Electric Technology													
Electric Vehicle	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.11	0.17
Electric-Gasoline Hybrid	0.02	0.04	0.08	0.31	0.55	0.81	1.08	1.36	1.71	2.05	2.45	2.83	3.21
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	0.00
Total Alternatives	1.06	1.50	1.93	2.53	3.14	3.76	4.46	5.15	5.89	6.69	7.53	8.35	9.15
Total Car Stock	128.89	129.62	129.96	130.11	130.25	130.43	130.55	130.61	130.61	130.59	130.60	130.58	130.55

Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Truck Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	65.68	70.03	73.92	77.77	81.50	85.23	88.60	91.84	94.92	97.84	100.69	103.43	106.10
TDI Diesel ICE	1.59	1.83	2.11	2.59	3.08	3.57	4.05	4.53	5.02	5.58	6.13	6.65	7.18
Total Conventional	67.27	71.85	76.02	80.35	84.58	88.79	92.64	96.37	99.94	103.42	106.81	110.08	113.29
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
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	0.80	1.14	1.47	1.82	2.19	2.56	3.21	3.84	4.47	5.08	5.69	6.29	6.88
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													
CNG 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
CNG Bi-fuel	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.40	0.43
LPG 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
LPG Bi-fuel	0.19	0.29	0.38	0.49	0.59	0.70	0.80	0.90	1.00	1.10	1.19	1.28	1.37
Electric Technology													
Electric Vehicle	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06
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	0.17	0.48	0.82	1.15	1.50	1.85	2.21	2.57	2.94	3.31
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total Alternatives	1.08	1.56	2.02	2.67	3.49	4.34	5.46	6.57	7.68	8.78	9.88	10.97	12.05
Total Truck Stock	68.35	73.41	78.04	83.02	88.07	93.13	98.10	102.94	107.62	112.21	116.70	121.05	125.33
Total Vehicle Stock	197.24	203.03	208.00	213.13	218.32	223.56	228.65	233.55	238.23	242.80	247.30	251.63	255.89

Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Light-Duty Car Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	120.28	119.47	118.75	118.16	117.68	117.29	116.98	116.65	116.35	116.12	115.96	115.86	-0.4%
TDI Diesel ICE	0.31	0.32	0.32	0.33	0.35	0.36	0.37	0.38	0.39	0.41	0.42	0.44	-0.2%
Total Conventional	120.59	119.79	119.08	118.49	118.03	117.65	117.35	117.03	116.75	116.53	116.38	116.30	-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	-10.8%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	5.48	5.76	6.02	6.26	6.48	6.68	6.86	7.01	7.14	7.26	7.36	7.44	7.9%
Ethanol ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	7.3%
Natural Gas Technology													
CNG 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	1.5%
CNG Bi-fuel	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	7.0%
LPG 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	N/A
LPG Bi-fuel	0.45	0.46	0.48	0.49	0.50	0.51	0.51	0.52	0.53	0.53	0.53	0.54	7.6%
Electric Technology													
Electric Vehicle	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	5.6%
Electric-Diesel Hybrid	0.23	0.30	0.38	0.45	0.51	0.58	0.64	0.71	0.76	0.81	0.86	0.91	N/A
Electric-Gasoline Hybrid	3.58	3.94	4.29	4.62	4.94	5.23	5.50	5.75	5.97	6.16	6.34	6.50	24.7%
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	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	N/A
Fuel Cell Hydrogen	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	N/A
Total Alternatives	9.92	10.65	11.35	12.01	12.64	13.21	13.74	14.21	14.63	15.00	15.34	15.64	10.7%
Total Car Stock	130.51	130.44	130.43	130.51	130.66	130.86	131.09	131.24	131.38	131.53	131.72	131.93	0.1%

Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Light-Duty Truck Stock 1/ Conventional Vehicles													
Gasoline ICE Vehicles	108.67	111.12	113.54	115.96	118.41	120.85	123.27	125.58	127.86	130.17	132.51	134.93	2.9%
TDI Diesel ICE	7.70	8.19	8.68	9.16	9.64	10.11	10.58	11.03	11.46	11.88	12.31	12.75	8.8%
Total Conventional	116.36	119.31	122.21	125.13	128.05	130.96	133.85	136.61	139.32	142.05	144.82	147.68	3.2%
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	-7.2%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	7.45	8.00	8.53	9.06	9.58	10.09	10.58	11.04	11.49	11.93	12.36	12.79	11.1%
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	N/A
Natural Gas Technology													
CNG 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	3.5%
CNG Bi-fuel	0.45	0.47	0.49	0.52	0.54	0.56	0.57	0.59	0.61	0.63	0.64	0.66	7.9%
LPG 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	-0.7%
LPG Bi-fuel	1.45	1.53	1.61	1.68	1.75	1.82	1.89	1.95	2.01	2.06	2.12	2.18	9.2%
Electric Technology													
Electric Vehicle	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.14	0.15	12.9%
Electric-Diesel Hybrid	0.00	0.02	0.05	0.08	0.12	0.16	0.23	0.29	0.36	0.43	0.49	0.56	N/A
Electric-Gasoline Hybrid	3.68	4.04	4.39	4.72	5.05	5.37	5.66	5.93	6.19	6.43	6.67	6.89	N/A
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	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	N/A
Fuel Cell Hydrogen	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	N/A
Total Alternatives	13.10	14.14	15.15	16.15	17.15	18.11	19.06	19.95	20.81	21.65	22.47	23.27	12.5%
Total Truck Stock	129.46	133.44	137.37	141.28	145.20	149.07	152.91	156.56	160.14	163.70	167.29	170.95	3.7%
Total Vehicle Stock	259.97	263.88	267.80	271.79	275.86	279.94	284.00	287.80	291.51	295.23	299.01	302.89	1.8%

Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2002 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 2001 (Washington, DC, November 2002); Oak Ridge National Laboratory, Transportation Energy Data Book: 22 and Annual (Oak Ridge, TN, September 2002); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	28.05	28.03	28.30	28.04	28.04	28.22	28.16	27.95	28.16	28.44	28.56	28.86	29.08
TDI Diesel ICE	40.73	40.51	40.56	37.58	37.45	37.17	36.06	35.69	35.78	36.61	36.63	36.76	36.88
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	27.25	27.25	27.32	27.28	27.17	27.42	27.34	27.14	27.31	27.60	27.72	27.99	28.16
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	28.11	28.08	28.30	28.13	28.12	28.37	27.46	27.22	27.40	28.17	28.27	28.53	28.73
Ethanol ICE	27.78	27.77	27.84	27.79	27.67	27.92	27.82	27.61	27.79	28.09	28.20	28.47	28.65
Natural Gas Technology													
CNG ICE	27.66	27.62	27.74	27.51	27.42	27.39	27.25	27.01	27.17	27.41	27.51	27.74	27.93
CNG Bi-fuel	30.25	30.22	30.31	30.32	27.12	27.01	26.87	26.65	26.83	27.09	27.25	27.56	27.75
LPG 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
LPG Bi-fuel	0.00	0.00	0.00	0.00	26.87	26.71	26.55	26.37	26.55	26.86	27.01	27.31	27.50
Electric Technology													
Electric Vehicle	34.45	34.82	35.59	39.18	43.11	48.01	54.23	53.45	53.37	53.37	53.33	53.17	53.18
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.24	48.06	45.83	45.65
Electric-Gasoline Hybrid	43.49	43.34	43.49	39.69	39.57	39.24	38.90	38.52	38.02	37.87	38.67	38.72	38.73
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.46	38.43	38.42	38.40	38.39	38.37
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	62.21	61.41	60.58	59.72	59.70	59.73	59.70	59.71	50.18
Average New Car MPG	28.23	28.21	28.51	28.44	28.30	28.48	28.39	28.19	28.45	28.78	28.98	29.30	29.53

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	20.45	20.46	20.54	20.43	20.55	21.56	22.28	22.04	22.10	22.20	22.28	22.48	22.62
TDI Diesel ICE	24.64	24.55	24.59	25.88	25.88	26.75	27.71	27.37	27.34	28.00	28.01	28.07	28.10
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
Methanol 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	19.90	19.88	20.06	19.87	19.85	20.51	22.13	21.96	22.06	22.21	22.33	22.57	22.76
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
CNG ICE	19.69	19.67	19.68	19.64	19.74	20.34	20.93	20.70	20.73	20.85	20.91	21.05	21.15
CNG Bi-fuel	18.60	18.57	18.60	18.54	18.65	19.22	19.70	19.49	19.52	19.63	19.69	19.83	19.90
LPG ICE	18.96	18.94	18.96	18.93	19.06	19.70	20.38	20.18	20.23	20.41	20.50	20.70	20.82
LPG Bi-fuel	18.60	18.58	18.61	18.56	18.67	19.30	19.91	19.70	19.75	19.90	19.98	20.17	20.27
Electric Technology													
Electric Vehicle	21.87	22.08	22.55	24.81	27.94	31.56	36.03	35.50	35.91	35.81	35.66	36.25	35.89
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	30.58	30.49	31.13	31.80	31.38	31.30	31.21	31.15	31.13	31.11
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	38.10	38.06
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	45.16	46.00	46.07	45.40	45.31	45.22	45.13	45.04	44.95
Average New Truck MPG	20.54	20.53	20.64	20.81	21.03	22.01	22.77	22.55	22.62	22.79	22.87	23.07	23.21
Fleet Average Stock Car MPG 2/	21.80	21.81	21.85	21.88	21.90	21.94	21.99	22.02	22.07	22.14	22.23	22.34	22.46
Fleet Average Stock Truck MPG 2/	16.88	16.81	16.76	16.73	16.73	16.81	16.95	17.07	17.19	17.30	17.42	17.54	17.66
Fleet Average Stock Vehicle MPG 2/	19.80	19.69	19.61	19.54	19.47	19.47	19.50	19.53	19.56	19.61	19.67	19.74	19.82

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	29.26	29.39	29.53	29.65	29.74	29.83	29.91	30.01	30.09	30.16	30.23	30.28	0.3%
TDI Diesel ICE	37.03	37.15	37.27	37.38	37.48	37.60	37.70	37.83	37.97	38.10	38.24	38.38	-0.2%
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	28.36	28.50	28.64	28.77	28.87	28.98	29.05	29.14	29.21	29.28	29.34	29.39	0.3%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	28.93	29.10	29.27	29.43	29.57	29.70	29.81	29.93	30.03	30.11	30.19	30.25	0.3%
Ethanol ICE	28.84	29.00	29.14	29.27	29.37	29.47	29.56	29.66	29.73	29.81	29.87	29.93	0.3%
Natural Gas Technology													
CNG ICE	28.14	28.25	28.38	28.48	28.56	28.64	28.71	28.80	28.87	28.93	28.96	28.99	0.2%
CNG Bi-fuel	27.90	28.04	28.18	28.29	28.37	28.44	28.52	28.59	28.64	28.69	28.72	28.74	-0.2%
LPG 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	N/A
LPG Bi-fuel	27.69	27.86	28.03	28.19	28.29	28.40	28.48	28.57	28.64	28.70	28.75	28.80	N/A
Electric Technology													
Electric Vehicle	53.18	52.74	52.59	52.50	52.51	52.39	52.29	52.28	52.26	52.24	52.29	52.29	1.8%
Electric-Diesel Hybrid	44.70	44.58	44.50	44.43	44.37	44.34	44.32	44.36	44.39	44.41	44.43	44.43	N/A
Electric-Gasoline Hybrid	38.81	38.84	38.87	38.90	38.93	38.96	38.98	39.03	39.06	39.09	39.11	39.11	-0.4%
Fuel Cell Technology													
Fuel Cell Gasoline	38.35	38.32	38.29	38.27	38.25	38.23	38.20	38.22	38.24	38.26	38.28	38.30	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	N/A
Fuel Cell Hydrogen	50.15	50.12	49.48	49.47	49.47	49.49	49.52	49.62	49.71	49.80	49.87	49.94	N/A
Average New Car MPG	29.73	29.87	30.01	30.13	30.23	30.32	30.40	30.50	30.58	30.65	30.72	30.77	0.4%

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	22.78	22.93	23.07	23.18	23.29	23.41	23.51	23.63	23.75	23.88	23.98	24.08	0.7%
TDI Diesel ICE	28.16	28.22	28.28	28.33	28.36	28.40	28.43	28.49	28.55	28.62	28.67	28.72	0.7%
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol 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	N/A
Ethanol-Flex Fuel ICE	22.95	23.15	23.32	23.47	23.60	23.72	23.82	23.95	24.08	24.21	24.32	24.43	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	N/A
Natural Gas Technology													
CNG ICE	21.24	21.35	21.47	21.56	21.64	21.74	21.80	21.90	22.01	22.13	22.22	22.30	0.5%
CNG Bi-fuel	20.00	20.12	20.22	20.28	20.34	20.40	20.47	20.55	20.63	20.73	20.78	20.84	0.5%
LPG ICE	20.97	21.13	21.28	21.41	21.53	21.65	21.73	21.86	22.00	22.13	22.25	22.35	0.7%
LPG Bi-fuel	20.42	20.57	20.71	20.80	20.90	20.98	21.06	21.17	21.27	21.39	21.50	21.58	0.7%
Electric Technology													
Electric Vehicle	35.60	36.54	36.59	36.54	37.54	37.38	37.26	37.29	37.27	37.22	37.36	37.32	2.3%
Electric-Diesel Hybrid	0.00	40.29	40.15	37.10	36.99	36.92	38.05	38.03	38.03	38.04	38.07	38.11	N/A
Electric-Gasoline Hybrid	31.12	31.04	31.06	31.15	31.16	31.18	31.19	31.26	31.33	31.40	31.46	31.52	N/A
Fuel Cell Technology													
Fuel Cell Gasoline	38.33	38.26	38.19	38.11	38.03	37.95	37.87	37.87	37.88	37.90	37.91	37.92	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	N/A
Fuel Cell Hydrogen	44.77	44.69	44.61	44.53	44.45	44.38	44.32	44.35	44.39	44.44	44.47	44.51	N/A
Average New Truck MPG	23.36	23.54	23.68	23.79	23.91	24.02	24.13	24.26	24.37	24.50	24.60	24.70	0.8%
Fleet Average Stock Car MPG 2/	22.59	22.74	22.90	23.06	23.23	23.40	23.58	23.66	23.74	23.83	23.91	23.99	0.4%
Fleet Average Stock Truck MPG 2/	17.78	17.90	18.02	18.13	18.24	18.34	18.45	18.56	18.67	18.78	18.88	18.98	0.5%
Fleet Average Stock Vehicle MPG 2/	19.91	20.00	20.10	20.20	20.30	20.41	20.51	20.58	20.66	20.73	20.81	20.88	0.3%

Table 47. 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: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type
(Billion Miles, Unless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Conventional Vehicles 1/ Gasoline ICE Vehicles	2428.9	2433.8	2465.9	2528.7	2573.9	2617.5	2654.6	2691.8	2728.4	2767.0	2805.6	2849.1	2896.4
TDI Diesel ICE	25.5	27.1	29.6	35.3	41.0	46.7	52.3	58.2	64.2	71.4	78.5	85.7	93.1
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	22.8	32.0	41.1	50.6	59.9	68.5	80.9	93.2	105.2	118.0	130.6	143.3	155.9
Ethanol ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Natural Gas Technology													
CNG 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
CNG Bi-fuel	2.1	2.8	3.5	4.3	5.0	5.5	6.0	6.5	7.0	7.4	7.9	8.3	8.7
LPG 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
LPG Bi-fuel	4.8	7.6	10.2	13.0	15.7	17.6	19.3	21.0	22.5	24.1	25.6	27.0	28.5
Electric Technology													
Electric Vehicle	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.4	2.1
Electric-Gasoline Hybrid	0.3	0.5	1.0	5.7	12.5	19.6	26.9	34.5	43.1	51.8	61.4	71.1	81.1
Fuel Cell Technology													
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
VMT Equation Components													
Total VMT (billion miles)	2484.8	2504.3	2552.0	2638.3	2708.8	2776.2	2841.0	2906.2	2971.6	3041.3	3111.6	3187.3	3267.4
VMT/Driving Population (thousand miles)	11.2	11.4	11.5	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.7	12.9	13.0
Driving Population (million)	221.5	224.3	226.9	229.4	231.9	234.5	237.0	239.5	241.8	244.1	246.2	248.3	250.4
Price Effects													
Motor Gasoline Price (1987 dollars/million Btu)	8.41	7.82	8.79	8.01	8.14	8.21	8.25	8.28	8.33	8.32	8.34	8.31	8.31
Fleet Miles per Gallon	19.91	19.78	19.68	19.59	19.51	19.50	19.53	19.56	19.59	19.64	19.70	19.78	19.87
Real Cost of Driving per Mile (1987 cents)	6.809	6.373	7.200	6.591	6.728	6.789	6.809	6.826	6.851	6.833	6.821	6.775	6.747
Point Price Elasticity	-0.059	-0.054	-0.061	-0.055	-0.055	-0.055	-0.055	-0.054	-0.054	-0.053	-0.052	-0.051	-0.050
Income Effects													
Disposable Income (billion 1987 dollars)	5838.9	6084.6	6268.0	6538.9	6710.5	6894.6	7064.2	7257.5	7463.2	7695.3	7916.8	8174.7	8452.3
Point Income Elasticity	539.336	545.306	553.708	561.238	563.396	567.531	570.899	575.863	581.359	587.695	592.701	599.050	605.716
Demographic Driving Population Effect													
Percentage Female Driving Population	0.610	0.617	0.624	0.630	0.636	0.641	0.646	0.650	0.654	0.658	0.661	0.664	0.666
Point Demographic Elasticity	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type
(Billion Miles, Unless Otherwise Noted)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Conventional Vehicles 1/ Gasoline ICE Vehicles	2936.4	2975.4	3014.4	3054.2	3096.7	3140.4	3186.3	3233.2	3282.1	3335.0	3392.1	3455.1	1.5%
TDI Diesel ICE	100.2	107.2	114.1	121.1	128.0	135.0	142.0	148.9	155.9	163.0	170.3	178.1	8.5%
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	-11.6%
Methanol 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	N/A
Ethanol-Flex Fuel ICE	167.9	179.4	190.6	201.4	212.0	222.3	232.4	242.0	251.3	260.6	269.9	279.4	9.9%
Ethanol ICE	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	7.9%
Natural Gas Technology													
CNG 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	2.4%
CNG Bi-fuel	9.2	9.5	9.9	10.3	10.6	11.0	11.3	11.7	12.0	12.3	12.6	13.0	6.8%
LPG 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	-0.1%
LPG Bi-fuel	29.9	31.3	32.6	33.8	35.1	36.3	37.5	38.6	39.6	40.7	41.8	42.9	7.8%
Electric Technology													
Electric Vehicle	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.4	2.5	2.6	9.3%
Electric-Diesel Hybrid	2.9	4.1	5.4	6.8	8.1	9.6	11.3	13.0	14.8	16.5	18.2	19.9	N/A
Electric-Gasoline Hybrid	90.9	100.6	110.0	119.1	128.0	136.6	144.7	152.5	159.9	167.0	174.0	180.8	29.4%
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	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	N/A
Fuel Cell Hydrogen	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	N/A
VMT Equation Components													
Total VMT (billion miles)	3339.0	3409.2	3478.8	3548.7	3620.9	3693.7	3768.2	3842.8	3918.9	3998.5	4082.5	4173.0	2.2%
VMT/Driving Population (thousand miles)	13.2	13.4	13.6	13.7	13.9	14.1	14.3	14.4	14.6	14.8	15.0	15.2	1.2%
Driving Population (million)	252.5	254.5	256.5	258.4	260.4	262.3	264.3	266.2	268.2	270.2	272.2	274.3	0.9%
Price Effects													
Motor Gasoline Price (1987 dollars/million Btu)	8.31	8.32	8.34	8.34	8.33	8.34	8.34	8.36	8.38	8.40	8.44	8.45	0.3%
Fleet Miles per Gallon	19.96	20.06	20.16	20.27	20.38	20.49	20.59	20.67	20.75	20.83	20.91	20.98	0.3%
Real Cost of Driving per Mile (1987 cents)	6.713	6.685	6.669	6.635	6.593	6.563	6.532	6.516	6.511	6.497	6.505	6.496	0.1%
Point Price Elasticity	-0.050	-0.049	-0.048	-0.047	-0.046	-0.045	-0.045	-0.044	-0.043	-0.043	-0.042	-0.042	-1.1%
Income Effects													
Disposable Income (billion 1987 dollars)	8691.1	8938.0	9190.6	9441.0	9710.6	9979.1	10265.3	10550.3	10856.0	11187.8	11557.4	11963.4	3.0%
Point Income Elasticity	609.666	614.084	618.734	622.980	627.873	632.408	637.540	642.386	648.064	654.479	662.166	670.553	0.9%
Demographic Driving Population Effect													
Percentage Female Driving Population	0.668	0.670	0.672	0.674	0.675	0.676	0.677	0.677	0.677	0.677	0.677	0.677	0.4%
Point Demographic Elasticity	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	N/A

Table 48. 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: 2002 derived using: Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Oak Ridge National Laboratory, Transportation Energy Data Book: 22 and Annual (Oak Ridge, TN, September 2002); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (MPG)													
Minicompact	24.545	24.954	25.107	25.178	25.198	25.921	25.911	25.777	26.068	26.545	26.710	26.988	27.153
Subcompact	31.031	30.992	31.040	30.951	30.800	30.864	30.726	30.483	30.665	30.998	31.155	31.508	31.769
Compact	30.254	30.241	30.307	30.294	30.155	30.416	30.333	30.106	30.300	30.624	30.781	31.124	31.379
Midsized	26.717	26.730	26.808	26.781	26.685	26.942	26.867	26.669	26.834	27.114	27.229	27.506	27.674
Large	25.226	25.231	25.240	25.163	25.019	25.056	24.941	24.754	24.922	25.219	25.348	25.611	25.825
Two Seater	24.927	25.082	25.109	25.112	25.005	25.120	25.058	24.896	25.105	25.424	25.591	25.895	26.109
Average New Car	28.005	27.985	28.300	27.994	28.027	28.202	28.154	27.942	28.159	28.426	28.546	28.845	29.066
Average New Car On-Road MPG	20.744	20.819	21.141	21.001	21.104	21.325	21.380	21.310	21.566	21.863	22.047	22.372	22.638
Conventional Light Trucks													
Small Pickup	22.290	22.329	22.394	22.393	22.528	23.986	24.986	24.696	24.724	24.802	24.868	25.057	25.226
Large Pickup	18.902	18.894	18.919	18.867	18.977	19.644	20.204	20.000	20.056	20.212	20.305	20.515	20.637
Small Van	23.198	23.186	23.219	23.138	23.195	24.431	25.091	24.795	24.809	24.873	24.916	25.060	25.172
Large Van	18.106	18.081	18.110	18.101	18.229	18.837	19.535	19.345	19.412	19.600	19.695	19.908	20.030
Small Utility	21.177	21.234	21.300	21.297	21.447	22.939	23.978	23.712	23.754	23.854	23.926	24.142	24.295
Large Utility	17.540	17.526	17.559	17.522	17.628	18.220	18.871	18.695	18.777	18.960	19.067	19.281	19.412
Average New Light Truck	20.564	20.575	20.658	20.552	20.674	21.716	22.443	22.210	22.264	22.361	22.438	22.638	22.776
Average New Light Truck On-Road MPG	16.536	16.531	16.582	16.482	16.558	17.378	17.945	17.746	17.775	17.838	17.886	18.032	18.128
Degradation Factors 1/													
Cars	0.741	0.744	0.747	0.750	0.753	0.756	0.759	0.763	0.766	0.769	0.772	0.776	0.779
Light Trucks	0.804	0.803	0.803	0.802	0.801	0.800	0.800	0.799	0.798	0.798	0.797	0.797	0.796
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	0.00	0.00	0.00	0.00	0.00	0.00	43.95	43.37	43.40	43.48	43.46	43.48	43.45
Subcompact	34.461	34.831	35.598	39.183	57.816	57.211	58.851	58.255	59.634	30.932	35.650	35.611	35.695
Compact	31.581	32.118	33.176	34.456	34.437	34.710	34.727	34.614	34.922	36.179	36.408	36.783	37.075
Midsized	26.985	26.992	27.067	31.756	31.678	31.795	31.687	31.480	31.650	31.902	32.035	32.634	32.835
Large	27.238	27.200	27.205	27.103	25.103	24.886	25.019	24.734	28.678	28.842	29.005	29.259	29.454
Two Seater	36.068	36.072	36.071	36.015	35.735	35.473	35.160	34.810	34.856	34.974	35.012	35.131	35.199
Average New Alternative Cars	28.552	28.735	29.626	32.512	32.516	32.682	31.376	31.188	31.802	32.179	32.913	33.311	33.531
Alternative-Fuel Light Trucks													
Small Pickup	22.510	22.548	22.610	22.602	22.736	24.210	25.277	24.986	25.017	25.100	25.166	25.363	25.542
Large Pickup	19.089	19.085	19.108	19.064	19.175	19.850	20.499	20.292	20.348	20.508	20.602	20.814	20.964
Small Van	23.429	23.414	23.446	23.360	27.855	28.959	29.629	29.305	29.310	29.490	29.507	29.587	29.644
Large Van	18.927	18.864	18.891	18.892	18.279	18.576	19.106	18.919	18.999	19.260	19.394	19.728	19.933
Small Utility	24.764	25.040	25.578	30.578	30.486	31.515	26.432	26.281	26.495	26.700	26.878	27.167	27.365
Large Utility	17.715	17.703	17.735	17.705	19.692	20.191	20.890	20.723	20.813	20.983	21.086	21.299	21.438
Average New Alternative Light Trucks	19.964	19.935	20.167	22.953	24.254	25.020	25.044	24.863	25.006	25.150	25.268	25.503	25.663
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	28.250	28.248	28.309	28.269	28.092	28.273	28.134	27.921	28.095	28.427	28.561	28.863	29.072
Light Trucks	19.495	19.485	19.519	19.480	19.564	20.340	21.007	20.790	20.846	20.996	21.083	21.283	21.408
Average On-Road MPG													
Cars	20.795	20.889	21.016	21.150	21.213	21.312	21.380	21.416	21.502	21.621	21.786	22.052	22.333
Light Trucks	15.696	15.690	15.661	15.624	15.613	15.736	15.965	16.151	16.347	16.555	16.669	16.716	16.796

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Vehicle Sales Shares (%)													
Conventional Cars													
Minicompact	0.359	0.353	0.420	0.347	0.387	0.385	0.383	0.382	0.381	0.379	0.380	0.378	0.378
Subcompact	13.756	13.463	15.792	13.240	14.572	14.467	14.456	14.438	14.480	14.408	14.446	14.379	14.418
Compact	32.384	32.240	35.674	31.817	33.872	33.716	33.644	33.643	33.677	33.600	33.604	33.528	33.596
Midsize	35.755	35.866	32.806	36.196	34.481	34.612	34.679	34.677	34.629	34.696	34.686	34.751	34.694
Large	16.033	16.360	13.649	16.677	14.989	15.113	15.138	15.160	15.137	15.219	15.187	15.265	15.215
Two Seater	1.713	1.718	1.660	1.724	1.699	1.707	1.701	1.700	1.696	1.698	1.696	1.700	1.697
Conventional Light Trucks													
Small Pickup	13.009	13.036	11.495	13.200	12.311	11.739	12.116	12.362	12.432	12.471	12.456	12.474	12.451
Large Pickup	21.687	21.435	21.579	21.440	21.615	21.412	21.519	21.585	21.619	21.587	21.620	21.588	21.594
Small Van	17.025	16.933	19.276	16.696	17.996	17.263	17.631	17.757	17.865	17.801	17.808	17.754	17.792
Large Van	2.507	2.472	2.495	2.469	2.493	2.359	2.424	2.476	2.498	2.490	2.497	2.489	2.491
Small Utility	32.015	32.248	31.380	32.322	31.793	32.910	32.314	31.968	31.807	31.859	31.834	31.889	31.867
Large Utility	13.756	13.876	13.775	13.874	13.792	14.318	13.996	13.852	13.779	13.793	13.784	13.806	13.804
New Vehicle Average Horsepower													
Conventional Cars													
Minicompact	243.941	250.158	251.021	255.239	259.209	263.456	268.157	272.867	274.540	276.602	277.972	279.596	281.098
Subcompact	148.501	153.760	153.692	159.095	161.549	164.880	168.203	171.633	173.385	175.457	176.974	179.040	180.583
Compact	139.823	145.166	145.173	151.587	153.983	157.397	160.993	164.481	166.323	168.261	169.849	171.695	173.511
Midsize	180.224	186.795	187.094	194.499	197.983	202.930	207.121	211.493	213.934	216.548	218.489	220.963	223.265
Large	222.654	226.975	226.875	231.047	234.430	239.102	243.213	247.496	249.091	250.971	252.539	254.515	256.444
Two Seater	267.089	270.917	271.163	275.052	279.361	285.564	290.612	295.590	296.955	297.975	298.982	299.956	301.075
Average New Car	171.296	177.169	173.957	183.853	184.852	189.184	193.094	197.044	198.989	201.252	202.909	205.102	206.983
Conventional Light Trucks													
Small Pickup	164.704	170.524	170.976	177.850	180.569	191.105	199.520	202.606	203.308	204.061	204.790	205.814	206.643
Large Pickup	225.901	233.583	233.834	241.273	244.286	254.364	264.949	268.872	269.651	270.781	271.713	272.709	273.279
Small Van	183.884	190.197	190.297	196.898	199.067	208.601	214.090	217.615	218.707	219.916	221.031	222.563	223.862
Large Van	224.040	230.955	231.308	239.132	242.248	254.600	264.636	268.633	269.533	270.907	271.956	273.415	274.362
Small Utility	185.977	192.899	193.482	199.759	202.146	205.372	207.165	210.279	210.801	211.347	211.882	212.477	213.076
Large Utility	246.305	254.237	254.363	261.615	264.282	278.432	287.036	291.338	292.299	293.790	294.881	296.216	296.823
Average New Light Truck	200.765	207.697	208.319	214.844	217.613	226.366	232.466	235.953	236.701	237.648	238.504	239.517	240.282

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
New Vehicle Average Weight													
Conventional Cars													
Minicompact	3492.189	3477.978	3479.828	3480.816	3519.826	3534.436	3579.283	3627.400	3624.851	3617.867	3619.835	3617.866	3620.531
Subcompact	2779.715	2781.328	2784.274	2787.356	2820.173	2856.663	2896.154	2937.551	2938.724	2937.362	2938.881	2938.061	2938.392
Compact	2835.598	2837.338	2840.294	2844.626	2878.141	2906.666	2947.078	2989.144	2990.245	2988.548	2990.354	2989.570	2990.385
Midsize	3314.333	3315.769	3319.307	3323.354	3362.693	3398.000	3444.017	3492.055	3493.644	3492.711	3495.077	3494.795	3496.661
Large	3686.538	3690.390	3694.714	3698.725	3743.068	3792.917	3844.684	3897.817	3900.801	3902.128	3904.724	3905.646	3907.524
Two Seater	3011.307	3007.819	3010.400	3013.088	3048.591	3087.473	3128.818	3172.964	3173.590	3170.925	3173.158	3172.048	3174.008
Average New Car	3140.879	3146.143	3110.714	3157.871	3171.791	3208.936	3253.439	3299.406	3300.467	3300.615	3302.347	3303.047	3303.582
Conventional Light Trucks													
Small Pickup	3646.363	3651.545	3658.375	3665.031	3670.897	3685.966	3708.653	3763.689	3771.119	3778.620	3785.815	3793.271	3800.274
Large Pickup	4716.068	4724.008	4732.926	4741.381	4749.418	4807.652	4855.723	4925.689	4935.757	4946.622	4957.143	4968.431	4976.920
Small Van	4072.693	4078.939	4085.822	4092.344	4097.937	4103.817	4112.082	4172.240	4180.328	4188.432	4196.245	4204.204	4211.806
Large Van	4756.253	4763.736	4772.192	4779.353	4784.787	4863.248	4887.314	4957.745	4967.914	4979.146	4989.975	5001.670	5009.224
Small Utility	3868.292	3868.834	3874.984	3880.264	3884.594	3814.022	3807.967	3864.292	3871.939	3879.702	3887.288	3895.104	3902.578
Large Utility	5161.205	5169.214	5177.782	5184.972	5190.438	5276.397	5297.218	5373.041	5384.217	5396.709	5408.301	5418.885	5426.472
Average New Light Truck	4258.192	4261.955	4277.708	4275.093	4286.153	4295.902	4309.622	4371.702	4380.234	4388.985	4398.164	4406.909	4414.788
Average Weight for the Stock													
Conventional Cars	3130	3128	3127	3128	3130	3135	3142	3151	3161	3171	3182	3192	3203
Conventional Light Trucks	4064	4089	4112	4133	4154	4172	4189	4209	4227	4244	4261	4276	4290

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (MPG)													
Minicompact	27.296	27.412	27.515	27.611	27.674	27.737	27.789	27.868	27.944	28.023	28.091	28.150	0.5%
Subcompact	31.936	32.070	32.215	32.350	32.442	32.541	32.630	32.751	32.850	32.936	33.017	33.084	0.3%
Compact	31.518	31.634	31.757	31.875	31.950	32.029	32.100	32.209	32.293	32.361	32.427	32.479	0.3%
Midsized	27.872	28.005	28.136	28.262	28.360	28.449	28.510	28.594	28.662	28.727	28.784	28.831	0.3%
Large	26.026	26.169	26.318	26.456	26.567	26.667	26.761	26.874	26.957	27.037	27.097	27.158	0.3%
Two Seater	26.281	26.432	26.581	26.697	26.789	26.871	26.952	27.042	27.124	27.207	27.287	27.356	0.4%
Average New Car	29.246	29.378	29.515	29.639	29.731	29.822	29.896	30.000	30.082	30.152	30.219	30.269	0.3%
Average New Car On-Road MPG	22.873	23.072	23.274	23.468	23.637	23.806	23.961	24.045	24.111	24.166	24.219	24.258	0.7%
Conventional Light Trucks													
Small Pickup	25.441	25.650	25.820	25.945	26.075	26.226	26.363	26.516	26.640	26.770	26.870	26.965	0.8%
Large Pickup	20.796	20.963	21.113	21.235	21.344	21.459	21.537	21.653	21.775	21.892	21.994	22.068	0.7%
Small Van	25.297	25.417	25.526	25.599	25.683	25.783	25.873	25.991	26.113	26.232	26.325	26.431	0.6%
Large Van	20.192	20.366	20.530	20.656	20.773	20.870	20.984	21.129	21.268	21.417	21.548	21.656	0.8%
Small Utility	24.452	24.564	24.689	24.806	24.925	25.052	25.162	25.299	25.417	25.553	25.663	25.777	0.8%
Large Utility	19.577	19.747	19.871	19.976	20.085	20.176	20.281	20.384	20.493	20.613	20.689	20.779	0.7%
Average New Light Truck	22.937	23.089	23.227	23.343	23.454	23.572	23.674	23.800	23.921	24.048	24.150	24.247	0.7%
Average New Light Truck On-Road MPG	18.242	18.348	18.444	18.521	18.595	18.674	18.740	18.840	18.936	19.036	19.116	19.192	0.7%
Degradation Factors 1/													
Cars	0.782	0.785	0.789	0.792	0.795	0.798	0.801	0.801	0.801	0.801	0.801	0.801	0.3%
Light Trucks	0.795	0.795	0.794	0.793	0.793	0.792	0.792	0.792	0.792	0.792	0.792	0.792	-0.1%
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	43.42	43.40	43.37	43.35	43.31	43.28	43.25	43.28	43.31	43.35	43.37	43.39	N/A
Subcompact	35.866	36.089	36.301	36.531	36.787	37.014	37.228	37.419	37.597	37.728	37.846	37.937	0.4%
Compact	37.294	37.496	37.574	37.643	37.676	37.727	37.772	37.867	37.933	37.980	38.025	38.059	0.7%
Midsized	33.012	33.174	33.270	33.352	33.462	33.524	33.565	33.636	33.691	33.739	33.796	33.833	1.0%
Large	30.136	30.352	30.517	30.680	30.841	30.996	31.124	31.263	31.363	31.437	31.495	31.546	0.6%
Two Seater	35.273	35.333	35.378	35.416	35.445	35.468	35.491	35.542	35.589	35.635	35.670	35.703	0.0%
Average New Alternative Cars	33.812	34.012	34.140	34.256	34.377	34.481	34.561	34.663	34.744	34.803	34.870	34.910	0.8%
Alternative-Fuel Light Trucks													
Small Pickup	25.766	25.985	26.166	26.303	26.447	26.599	26.739	26.893	27.015	27.141	27.240	27.341	0.8%
Large Pickup	21.099	21.259	21.406	21.526	21.634	21.749	21.828	21.943	22.065	22.186	22.287	22.365	0.7%
Small Van	29.742	30.393	30.431	30.424	30.421	30.447	30.473	30.555	30.627	30.687	30.730	30.782	1.2%
Large Van	20.158	20.412	20.603	20.751	20.885	21.008	21.100	21.238	21.378	21.526	21.655	21.762	0.6%
Small Utility	27.594	27.895	28.090	28.259	28.495	28.604	29.011	29.145	29.265	29.383	29.504	29.614	0.7%
Large Utility	21.599	21.766	21.869	22.229	22.293	22.357	22.434	22.529	22.619	22.707	22.775	22.859	1.1%
Average New Alternative Light Trucks	25.839	26.179	26.313	26.457	26.587	26.666	26.878	26.992	27.094	27.186	27.277	27.361	1.4%
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	29.255	29.390	29.529	29.660	29.758	29.852	29.928	30.030	30.111	30.184	30.248	30.303	0.3%
Light Trucks	21.565	21.726	21.862	21.967	22.072	22.173	22.268	22.386	22.504	22.628	22.725	22.816	0.7%
Average On-Road MPG													
Cars	22.593	22.848	23.076	23.289	23.486	23.675	23.851	23.926	23.997	24.063	24.127	24.182	0.6%
Light Trucks	16.896	17.000	17.109	17.206	17.298	17.381	17.455	17.537	17.622	17.709	17.796	17.882	0.6%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Vehicle Sales Shares (%)													
Conventional Cars													
Minicompact	0.379	0.379	0.380	0.379	0.378	0.379	0.379	0.379	0.380	0.379	0.380	0.379	0.3%
Subcompact	14.432	14.444	14.466	14.446	14.429	14.454	14.448	14.467	14.482	14.462	14.491	14.456	0.3%
Compact	33.590	33.602	33.631	33.583	33.564	33.593	33.587	33.599	33.632	33.608	33.667	33.620	0.2%
Midsize	34.705	34.700	34.674	34.715	34.734	34.708	34.717	34.704	34.674	34.695	34.640	34.682	-0.1%
Large	15.196	15.178	15.152	15.179	15.199	15.170	15.175	15.156	15.140	15.163	15.130	15.172	-0.3%
Two Seater	1.698	1.697	1.697	1.698	1.696	1.695	1.694	1.694	1.693	1.693	1.692	1.692	-0.1%
Conventional Light Trucks													
Small Pickup	12.454	12.458	12.459	12.480	12.493	12.488	12.495	12.478	12.454	12.465	12.439	12.463	-0.2%
Large Pickup	21.633	21.626	21.630	21.642	21.641	21.649	21.648	21.659	21.659	21.647	21.635	21.631	0.0%
Small Van	17.776	17.788	17.805	17.777	17.758	17.770	17.770	17.785	17.808	17.798	17.849	17.813	0.2%
Large Van	2.494	2.494	2.496	2.499	2.498	2.499	2.497	2.498	2.497	2.496	2.496	2.497	0.0%
Small Utility	31.850	31.845	31.825	31.825	31.831	31.819	31.817	31.808	31.806	31.815	31.801	31.814	-0.1%
Large Utility	13.792	13.789	13.785	13.777	13.779	13.775	13.774	13.772	13.776	13.778	13.780	13.782	0.0%
New Vehicle Average Horsepower													
Conventional Cars													
Minicompact	282.469	283.720	284.902	286.028	286.791	287.486	288.080	288.362	288.639	288.950	289.171	289.421	0.6%
Subcompact	181.821	182.939	184.017	184.997	185.930	186.784	187.589	188.164	188.569	188.923	189.285	189.519	0.9%
Compact	175.008	176.436	177.820	179.119	180.377	181.517	182.621	183.517	184.238	184.922	185.678	186.351	1.1%
Midsize	225.169	226.880	228.499	230.014	231.412	232.697	233.799	234.532	235.121	235.800	236.442	237.035	1.0%
Large	258.130	259.647	261.103	262.454	263.741	264.991	266.330	267.286	267.888	268.555	269.041	269.467	0.7%
Two Seater	302.029	302.962	303.834	304.624	305.374	305.947	306.493	306.702	306.779	306.905	307.077	307.177	0.5%
Average New Car	208.595	210.064	211.453	212.822	214.097	215.216	216.307	217.074	217.644	218.294	218.846	219.432	0.9%
Conventional Light Trucks													
Small Pickup	207.429	208.236	209.000	209.773	210.548	210.922	211.230	211.151	211.091	211.036	211.015	210.989	0.9%
Large Pickup	273.835	274.357	274.898	275.427	275.942	276.447	276.880	276.767	276.651	276.537	276.486	276.440	0.7%
Small Van	225.005	226.144	227.223	228.282	229.371	230.474	231.525	232.031	232.514	232.708	232.902	233.197	0.9%
Large Van	275.519	276.412	276.876	277.383	277.842	278.302	278.732	278.588	278.389	278.185	278.047	277.919	0.8%
Small Utility	213.633	214.164	214.709	215.283	215.851	216.420	216.864	216.863	216.809	216.689	216.567	216.440	0.5%
Large Utility	297.481	298.105	298.702	299.365	299.994	300.618	301.199	301.141	301.007	300.855	300.767	300.620	0.7%
Average New Light Truck	241.014	241.701	242.375	243.059	243.736	244.370	244.918	244.972	244.992	244.923	244.892	244.861	0.7%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
New Vehicle Average Weight													
Conventional Cars													
Minicompact	3623.504	3625.121	3627.273	3629.286	3632.050	3634.747	3637.001	3634.589	3631.915	3629.136	3627.371	3625.559	0.2%
Subcompact	2939.312	2940.844	2942.151	2943.459	2945.268	2946.844	2948.689	2946.724	2944.665	2942.879	2941.329	2939.565	0.2%
Compact	2991.498	2992.968	2994.271	2995.536	2997.333	2998.910	3000.663	2998.635	2996.423	2994.462	2992.896	2991.126	0.2%
Midsize	3498.341	3500.559	3502.531	3504.405	3506.572	3508.847	3511.225	3508.975	3506.534	3504.444	3502.707	3500.778	0.2%
Large	3909.783	3912.719	3915.326	3917.770	3920.020	3922.123	3924.986	3922.705	3920.477	3918.868	3916.885	3914.656	0.3%
Two Seater	3175.815	3177.330	3178.949	3180.081	3182.071	3184.103	3186.147	3184.071	3181.825	3179.717	3178.092	3176.339	0.2%
Average New Car	3304.931	3306.703	3308.062	3310.188	3312.469	3313.980	3316.224	3313.843	3311.254	3309.653	3307.366	3306.080	0.2%
Conventional Light Trucks													
Small Pickup	3806.616	3812.618	3818.379	3824.039	3829.494	3834.946	3840.548	3839.108	3838.020	3837.027	3836.640	3836.158	0.2%
Large Pickup	4985.253	4992.950	5001.066	5009.979	5018.221	5026.311	5034.172	5032.130	5030.024	5027.944	5027.009	5026.182	0.3%
Small Van	4218.799	4225.603	4232.433	4238.828	4244.995	4251.079	4256.980	4254.370	4251.312	4247.795	4245.163	4242.582	0.2%
Large Van	5017.442	5025.665	5034.106	5043.329	5051.670	5060.033	5067.861	5065.237	5061.622	5057.901	5055.409	5053.080	0.3%
Small Utility	3909.482	3915.850	3922.380	3929.095	3935.396	3941.415	3947.202	3945.033	3942.464	3939.794	3937.579	3935.271	0.1%
Large Utility	5435.200	5443.276	5451.786	5461.114	5469.836	5478.316	5486.330	5483.048	5478.982	5474.815	5472.029	5468.723	0.2%
Average New Light Truck	4422.445	4429.316	4436.521	4443.889	4450.792	4457.673	4464.208	4462.093	4459.629	4456.770	4454.962	4452.888	0.2%
Average Weight for the Stock													
Conventional Cars	3214	3223	3232	3241	3250	3258	3265	3271	3277	3282	3286	3290	0.2%
Conventional Light Trucks	4304	4317	4330	4342	4353	4365	4375	4385	4393	4401	4407	4413	0.3%

Table 49. 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: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Year Fuel Economy Reports from Auto Manufacturers, 1998; Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the U.S. Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology
(Trillion Btu)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	727.10	726.55	699.78	661.94	612.04	589.80	577.68	565.64	548.86	529.94	513.78	498.94	488.30
Distillate	0.00	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	0.60	0.45	0.26	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	13.58	21.92	29.40	36.30	37.70	37.27	36.60	36.04	35.26	34.19	33.20	32.15	31.31
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	2.35	3.34	4.25	5.09	5.83	6.16	6.10	6.08	6.02	5.87	5.70	5.54	5.40
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	0.00	0.00	0.00	0.00	23.95	24.90	24.27	23.74	23.13	22.42	21.78	21.15	20.62
Electric	0.58	0.73	0.87	0.97	0.99	0.86	0.77	0.69	0.63	0.59	0.56	0.55	0.54
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	744.20	753.00	734.56	704.44	680.51	659.00	645.42	632.19	613.90	593.00	575.02	558.33	546.17
Light Trucks 1/													
Conventional Gasoline	785.68	773.00	729.43	689.21	643.88	649.62	652.26	660.74	663.03	663.42	667.52	674.56	681.86
Distillate	0.00	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
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
Ethanol													
Flex	13.84	27.22	39.93	53.47	67.34	71.77	72.34	73.45	74.11	74.25	74.59	75.24	75.99
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	12.64	16.36	19.79	23.48	27.24	27.52	27.73	28.20	28.41	28.54	28.78	29.12	29.49
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	28.55	43.69	57.67	72.73	88.14	91.16	91.68	93.04	93.57	93.77	94.35	95.33	96.38
Electric	0.77	1.20	1.59	1.97	2.30	2.35	2.20	2.08	1.97	1.91	1.88	1.89	1.93
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	841.48	861.47	848.42	840.85	828.91	842.42	846.22	857.50	861.09	861.89	867.12	876.15	885.64
Total Fleet Vehicles	1585.68	1614.47	1582.98	1545.29	1509.42	1501.42	1491.64	1489.69	1474.99	1454.89	1442.13	1434.48	1431.81
Commercial Light Trucks 2/	583.83	586.53	584.43	604.97	624.68	637.69	648.05	658.60	670.36	683.59	696.76	709.81	724.53

Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology
(Trillion Btu)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Cars 1/													
Conventional Gasoline	481.35	474.22	469.27	466.01	464.69	464.48	464.16	463.56	461.80	459.85	458.20	458.17	-2.0%
Distillate	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	-28.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol													
Flex	30.76	30.29	29.93	29.67	29.51	29.42	29.34	29.28	29.15	29.02	28.90	28.85	1.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG	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
CNG Bi-fuel	5.29	5.21	5.15	5.11	5.08	5.07	5.06	5.06	5.06	5.05	5.04	5.03	1.8%
LPG	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
LPG Bi-fuel	20.20	19.87	19.62	19.43	19.32	19.25	19.20	19.18	19.14	19.08	19.03	19.00	N/A
Electric	0.53	0.53	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.53	-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	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	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	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	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	N/A
Total Fleet Cars	538.14	530.12	524.50	520.74	519.13	518.74	518.29	517.61	515.67	513.52	511.69	511.58	-1.7%
Light Trucks 1/													
Conventional Gasoline	688.84	695.31	702.24	711.36	721.78	733.76	747.02	757.67	766.69	774.86	783.55	793.52	0.1%
Distillate	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	N/A
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	N/A
Ethanol													
Flex	76.67	77.30	77.99	78.91	80.00	81.24	82.63	83.79	84.80	85.72	86.68	87.77	5.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG	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
CNG Bi-fuel	29.84	30.19	30.55	31.00	31.50	32.08	32.71	33.23	33.68	34.09	34.51	34.99	3.4%
LPG	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
LPG Bi-fuel	97.37	98.30	99.28	100.58	102.06	103.76	105.65	107.22	108.56	109.77	111.02	112.42	4.2%
Electric	1.97	2.00	2.04	2.08	2.13	2.18	2.23	2.28	2.32	2.36	2.40	2.44	3.1%
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	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	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	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	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	N/A
Total Fleet Light Trucks	894.68	903.10	912.11	923.93	937.47	953.00	970.25	984.18	996.05	1006.80	1018.16	1031.14	0.8%
Total Fleet Vehicles	1432.82	1433.22	1436.60	1444.68	1456.60	1471.74	1488.54	1501.79	1511.72	1520.32	1529.84	1542.72	-0.2%
Commercial Light Trucks 2/	737.61	750.27	763.38	777.54	792.08	803.39	817.06	829.40	844.59	860.60	876.92	895.63	1.9%

Table 50. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not Applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); 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 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 51. Transportation Fleet Car and Truck Sales by Type and Technology
(Thousands)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	1475.03	1366.54	1310.48	1282.30	1274.93	1257.97	1229.95	1194.55	1158.22	1124.56	1126.23	1119.22	1119.94
Distillate	0.00	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
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
Ethanol													
Flex	82.76	76.67	73.52	71.94	71.53	70.58	69.01	67.02	64.98	63.09	63.19	62.79	62.83
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	12.00	11.12	10.66	10.43	10.37	10.23	10.01	9.72	9.42	9.15	9.16	9.10	9.11
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	46.28	42.87	41.12	40.23	40.00	39.47	38.59	37.48	36.34	35.28	35.33	35.11	35.14
Electric	2.45	2.27	2.18	2.13	2.12	2.09	2.05	1.99	1.93	1.87	1.87	1.86	1.86
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	1618.51	1499.47	1437.96	1407.04	1398.95	1380.34	1349.59	1310.75	1270.89	1233.95	1235.79	1228.10	1228.88
Light Trucks 1/													
Conventional Gasoline	794.11	806.30	778.99	831.33	854.71	875.47	887.99	897.51	906.46	921.03	938.05	952.10	972.99
Distillate	0.00	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
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
Ethanol													
Flex	83.52	84.80	81.93	87.43	89.89	92.08	93.39	94.39	95.34	96.87	98.66	100.14	102.33
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	30.71	31.18	30.13	32.15	33.05	33.86	34.34	34.71	35.06	35.62	36.28	36.82	37.63
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	102.28	103.85	100.33	107.07	110.09	112.76	114.37	115.60	116.75	118.63	120.82	122.63	125.32
Electric	3.32	3.37	3.26	3.47	3.57	3.66	3.71	3.75	3.79	3.85	3.92	3.98	4.07
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	1013.94	1029.51	994.63	1061.46	1091.32	1117.82	1133.81	1145.97	1157.39	1175.99	1197.73	1215.67	1242.33
Total Fleet Vehicles	2632.45	2528.98	2432.59	2468.50	2490.26	2498.16	2483.41	2456.72	2428.27	2409.94	2433.51	2443.77	2471.21
Commercial Light Trucks 2/	524.67	610.86	585.31	645.01	662.81	696.69	710.92	719.35	725.38	729.03	738.36	740.96	750.65

Table 51. Transportation Fleet Car and Truck Sales by Type and Technology
(Thousands)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Cars 1/													
Conventional Gasoline	1115.44	1112.10	1118.63	1130.58	1141.49	1147.48	1151.11	1141.59	1140.29	1143.16	1148.20	1153.68	-0.7%
Distillate	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	-0.7%
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	N/A
Ethanol													
Flex	62.58	62.39	62.76	63.43	64.04	64.38	64.58	64.05	63.98	64.14	64.42	64.73	-0.7%
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	N/A
CNG	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
CNG Bi-fuel	9.07	9.05	9.10	9.20	9.29	9.33	9.36	9.29	9.28	9.30	9.34	9.38	-0.7%
LPG	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
LPG Bi-fuel	35.00	34.89	35.10	35.47	35.81	36.00	36.11	35.82	35.78	35.87	36.02	36.20	-0.7%
Electric	1.86	1.85	1.86	1.88	1.90	1.91	1.91	1.90	1.90	1.90	1.91	1.92	-0.7%
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	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	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	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	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	N/A
Total Fleet Cars	1223.94	1220.28	1227.44	1240.56	1252.53	1259.10	1263.09	1252.64	1251.22	1254.36	1259.90	1265.91	-0.7%
Light Trucks 1/													
Conventional Gasoline	985.25	998.45	1020.07	1047.00	1074.97	1097.45	1118.98	1126.66	1142.97	1165.57	1191.79	1221.69	1.8%
Distillate	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	1.8%
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	N/A
Ethanol													
Flex	103.62	105.01	107.28	110.12	113.06	115.42	117.69	118.49	120.21	122.59	125.35	128.49	1.8%
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	N/A
CNG	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
CNG Bi-fuel	38.10	38.61	39.45	40.49	41.57	42.44	43.28	43.57	44.20	45.08	46.09	47.25	1.8%
LPG	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
LPG Bi-fuel	126.90	128.60	131.39	134.85	138.46	141.35	144.12	145.11	147.21	150.13	153.50	157.35	1.8%
Electric	4.12	4.17	4.26	4.38	4.49	4.59	4.68	4.71	4.78	4.87	4.98	5.11	1.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	N/A
Total Fleet Light Trucks	1258.00	1274.85	1302.46	1336.84	1372.55	1401.25	1428.75	1438.55	1459.38	1488.24	1521.71	1559.88	1.8%
Total Fleet Vehicles	2481.94	2495.13	2529.90	2577.40	2625.09	2660.35	2691.84	2691.19	2710.60	2742.59	2781.61	2825.80	0.5%
Commercial Light Trucks 2/	753.95	758.64	769.60	784.50	799.57	810.72	820.87	821.10	827.54	837.82	850.33	864.47	1.5%

Table 51. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not Applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); 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 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 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; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology
(Thousands)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	6200.84	6094.59	5885.35	5584.94	5177.93	5025.99	4945.03	4857.13	4742.73	4612.56	4512.15	4439.33	4402.07
Distillate	0.00	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	4.96	3.72	2.42	1.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	115.55	183.62	246.61	304.97	316.88	315.82	309.73	304.01	297.30	289.60	283.31	278.40	275.45
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	21.16	29.86	37.99	45.59	51.21	53.53	52.22	51.18	50.11	48.92	47.88	46.99	46.37
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	54.77	95.03	133.00	168.97	191.89	200.45	195.74	191.88	187.84	183.30	179.39	176.10	173.85
Electric	5.74	7.34	8.83	10.18	10.76	10.16	9.94	9.76	9.55	9.31	9.11	8.95	8.84
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	6403.02	6414.16	6314.19	6115.75	5748.75	5605.96	5512.67	5413.97	5287.53	5143.69	5031.84	4949.76	4906.58
Light Trucks 1/													
Conventional Gasoline	5071.29	4889.24	4593.58	4320.03	4030.31	4110.47	4193.03	4303.31	4380.59	4446.82	4509.82	4573.71	4648.46
Distillate	0.00	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	0.13	0.10	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	89.82	173.10	253.02	337.38	422.46	452.70	461.62	472.98	482.24	489.76	496.85	503.87	511.99
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	75.63	96.92	116.61	137.83	159.59	162.52	165.73	170.12	173.22	175.87	178.36	180.88	183.82
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	173.19	260.60	342.89	430.95	520.80	543.60	554.31	568.83	579.34	588.21	596.58	605.00	614.82
Electric	5.28	8.23	11.04	14.02	17.04	18.42	18.78	19.23	19.62	19.93	20.22	20.51	20.84
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	5415.34	5428.19	5317.20	5240.24	5150.20	5287.71	5393.47	5534.47	5635.02	5720.59	5801.84	5883.97	5979.94
Total Fleet Vehicles	11818.36	11842.35	11631.39	11355.99	10898.94	10893.67	10906.14	10948.44	10922.54	10864.28	10833.68	10833.73	10886.51
Commercial Light Trucks 2/	5678.86	5763.41	5918.31	6189.52	6507.67	6868.47	7238.13	7601.38	7948.22	8270.50	8570.32	8839.46	9086.22

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology
(Thousands)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Cars 1/													
Conventional Gasoline	4391.25	4377.60	4376.82	4387.89	4413.67	4447.76	4479.04	4489.45	4488.29	4484.35	4482.49	4494.13	-1.3%
Distillate	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	-28.4%
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	N/A
Ethanol													
Flex	274.06	273.17	273.00	273.60	274.97	276.81	278.69	279.54	279.73	279.67	279.65	280.14	1.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG	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
CNG Bi-fuel	45.99	45.78	45.74	45.81	46.00	46.25	46.53	46.70	46.79	46.83	46.85	46.90	2.0%
LPG	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
LPG Bi-fuel	172.52	171.78	171.64	171.93	172.66	173.64	174.73	175.36	175.66	175.75	175.81	176.03	2.7%
Electric	8.78	8.75	8.74	8.76	8.80	8.85	8.91	8.94	8.95	8.96	8.96	8.97	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	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	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	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	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	N/A
Total Fleet Cars	4892.60	4877.08	4875.95	4887.98	4916.09	4953.31	4987.91	5000.00	4999.43	4995.56	4993.75	5006.17	-1.1%
Light Trucks 1/													
Conventional Gasoline	4725.95	4802.46	4883.92	4977.69	5079.71	5190.60	5309.04	5413.98	5509.04	5599.50	5693.61	5796.66	0.7%
Distillate	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	-13.1%
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	N/A
Ethanol													
Flex	520.41	528.85	537.84	548.09	559.30	571.32	584.18	595.81	606.48	616.66	627.10	638.42	5.8%
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	N/A
CNG	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
CNG Bi-fuel	186.88	189.91	193.13	196.83	200.84	205.21	209.88	214.06	217.85	221.44	225.16	229.21	3.8%
LPG	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
LPG Bi-fuel	625.04	635.17	645.95	658.32	671.75	686.31	701.92	715.88	728.58	740.64	753.10	766.64	4.8%
Electric	21.18	21.52	21.89	22.30	22.76	23.24	23.76	24.24	24.68	25.09	25.52	25.98	5.1%
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	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	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	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	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	N/A
Total Fleet Light Trucks	6079.46	6177.91	6282.73	6403.24	6534.37	6676.68	6828.80	6963.96	7086.63	7203.34	7324.50	7456.91	1.4%
Total Fleet Vehicles	10972.06	11054.99	11158.68	11291.22	11450.47	11629.99	11816.70	11963.96	12086.06	12198.90	12318.25	12463.09	0.2%
Commercial Light Trucks 2/	9306.59	9504.02	9687.02	9861.93	10030.59	10190.66	10341.92	10476.30	10602.46	10726.03	10850.98	10980.17	2.8%

Table 52. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); 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 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); Energy Information Administration (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, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology
(Billion Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cars 1/													
Conventional Gasoline	125.22	123.60	119.76	114.00	105.91	102.56	100.83	98.94	96.44	93.65	91.50	89.95	89.14
Distillate	0.00	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	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Ethanol													
Flex	2.33	3.72	5.02	6.22	6.48	6.44	6.32	6.19	6.05	5.88	5.75	5.64	5.58
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
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	0.43	0.61	0.77	0.93	1.05	1.09	1.06	1.04	1.02	0.99	0.97	0.95	0.94
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	1.11	1.93	2.71	3.45	3.92	4.09	3.99	3.91	3.82	3.72	3.64	3.57	3.52
Electric	0.12	0.15	0.18	0.21	0.22	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.18
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	129.30	130.08	128.48	124.83	117.59	114.40	112.40	110.28	107.52	104.43	102.04	100.29	99.35
Light Trucks 1/													
Conventional Gasoline	102.41	99.15	93.47	88.18	82.44	83.88	85.49	87.66	89.08	90.28	91.45	92.67	94.13
Distillate	0.00	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
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
Ethanol													
Flex	1.81	3.51	5.15	6.89	8.64	9.24	9.41	9.63	9.81	9.94	10.08	10.21	10.37
Neat	1.81	3.51	5.15	6.89	8.64	9.24	9.41	9.63	9.81	9.94	10.08	10.21	10.37
CNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-fuel	1.53	1.97	2.37	2.81	3.26	3.32	3.38	3.47	3.52	3.57	3.62	3.66	3.72
LPG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPG Bi-fuel	3.50	5.29	6.98	8.80	10.65	11.09	11.30	11.59	11.78	11.94	12.10	12.26	12.45
Electric	0.11	0.17	0.22	0.29	0.35	0.38	0.38	0.39	0.40	0.40	0.41	0.42	0.42
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 Light Truck	111.17	113.59	113.34	113.85	113.99	117.14	119.38	122.37	124.39	126.09	127.73	129.43	131.46
Total Fleet Vehicles	240.47	243.67	241.83	238.68	231.57	231.54	231.78	232.65	231.91	230.52	229.77	229.71	230.81
Commercial Light Trucks 2/	64.07	64.74	64.79	67.23	69.56	71.48	73.32	75.11	77.00	79.04	81.08	83.15	85.45

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology
(Billion Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Cars 1/													
Conventional Gasoline	88.88	88.55	88.49	88.68	89.16	89.82	90.42	90.58	90.49	90.35	90.26	90.46	-1.3%
Distillate	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	-28.5%
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	N/A
Ethanol													
Flex	5.55	5.53	5.52	5.53	5.55	5.59	5.63	5.64	5.64	5.63	5.63	5.64	1.8%
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	N/A
CNG	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
CNG Bi-fuel	0.93	0.93	0.92	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94	0.94	1.9%
LPG	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
LPG Bi-fuel	3.49	3.47	3.47	3.47	3.49	3.51	3.53	3.54	3.54	3.54	3.54	3.54	2.7%
Electric	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	N/A
Total Fleet Cars	99.03	98.66	98.58	98.78	99.31	100.03	100.69	100.88	100.80	100.65	100.56	100.77	-1.1%
Light Trucks 1/													
Conventional Gasoline	95.66	97.15	98.75	100.60	102.62	104.83	107.18	109.23	111.07	112.82	114.65	116.68	0.7%
Distillate	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	-13.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol													
Flex	10.53	10.70	10.87	11.08	11.30	11.54	11.79	12.02	12.23	12.42	12.63	12.85	5.8%
Neat	10.53	10.70	10.87	11.08	11.30	11.54	11.79	12.02	12.23	12.42	12.63	12.85	5.8%
CNG	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
CNG Bi-fuel	3.78	3.84	3.90	3.98	4.06	4.14	4.24	4.32	4.39	4.46	4.53	4.61	3.8%
LPG	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
LPG Bi-fuel	12.65	12.85	13.06	13.30	13.57	13.86	14.17	14.44	14.69	14.92	15.17	15.43	4.8%
Electric	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.51	0.52	5.1%
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	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	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	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	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	N/A
Total Fleet Light Truck	133.59	135.67	137.90	140.48	143.30	146.38	149.65	152.52	155.10	157.56	160.12	162.95	1.6%
Total Fleet Vehicles	232.62	234.33	236.49	239.26	242.61	246.41	250.34	253.40	255.90	258.21	260.68	263.71	0.3%
Commercial Light Trucks 2/	87.61	89.73	91.92	94.27	96.69	98.72	101.04	103.20	105.71	108.33	110.99	113.96	2.5%

Table 53. 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.

CNG = Compressed natural gas.

LNG = Liquefied natural gas.

N/A = Not applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); and Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 54. Air Travel Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Fuel Cost (1987 dollars per million Btu)	4.4	4.2	4.7	4.4	4.2	4.1	4.0	4.0	4.0	4.0	4.1	4.1	4.1
Yield-domestic (ticket price) 1/	12.9	11.5	10.8	10.5	10.1	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.8
Yield-international (1996 dollars) 1/	9.8	9.5	9.3	8.9	8.6	8.3	7.9	7.6	7.2	6.9	6.6	6.2	5.9
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	491.3	479.8	482.0	494.1	507.7	522.0	536.2	555.6	574.1	597.5	619.0	644.9	669.7
Load Factor, Domestic 2/	0.69	0.70	0.71	0.71	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73
Revenue Passenger Miles, International	185.0	171.4	171.3	180.2	189.4	198.5	206.9	215.2	223.6	232.4	241.2	250.6	260.6
Load Factor, International 2/	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78
Revenue Ton Miles, Freight (billion)	26.0	26.0	25.1	26.4	29.0	31.5	33.4	35.3	37.0	38.6	40.2	41.8	43.5
Seat Miles Demanded (billion)													
Narrow Body Aircraft	581.1	560.7	555.9	567.4	580.9	596.1	610.2	629.3	647.3	672.2	693.1	719.4	745.3
Wide Body Aircraft	303.7	277.9	276.8	284.9	293.2	301.5	307.9	315.8	323.5	331.8	339.0	348.3	357.5
Regional Jets	68.4	70.8	73.0	78.1	83.6	89.4	95.6	102.6	110.0	118.3	126.7	136.3	145.0
Aircraft Sales													
Narrow Body Aircraft	304.0	157.0	168.8	182.8	200.2	215.0	227.5	246.8	261.5	283.9	302.7	329.1	357.6
Wide Body Aircraft	60.0	38.0	52.7	57.1	62.5	67.1	71.0	77.0	81.6	88.6	94.5	102.7	111.6
Regional Jets	278.0	279.0	94.9	102.8	112.6	120.9	127.9	138.8	147.0	159.6	170.2	185.1	201.1
Total Aircraft Sales	642.0	474.0	316.4	342.7	375.2	402.9	426.4	462.6	490.2	532.1	567.3	616.9	670.3
Aircraft Stock													
Narrow Body Aircraft	5051.0	5002.0	5027.6	5067.5	5127.3	5204.3	5296.6	5410.5	5540.7	5694.2	5865.4	6061.2	6287.1
Wide Body Aircraft	1392.0	1373.0	1386.7	1401.8	1419.5	1439.3	1460.5	1485.5	1514.8	1551.5	1595.2	1647.4	1709.3
Regional Jets	1040.0	1290.0	1379.1	1475.4	1580.6	1693.2	1811.9	1940.3	2075.8	2222.5	2378.9	2548.8	2732.7
Total Aircraft Stock	7483.0	7665.0	7793.3	7944.7	8127.4	8336.8	8569.1	8836.4	9131.4	9468.3	9839.5	10257.4	10729.1
Aircraft Active Stock													
Narrow Body Aircraft	4198.0	3817.1	3346.4	3412.1	3490.3	3635.4	3716.7	3830.2	3936.2	4079.1	4202.6	4359.8	4514.4
Wide Body Aircraft	1139.0	767.4	723.9	746.0	781.4	809.6	840.8	884.4	932.7	987.3	1048.6	1116.8	1195.3
Regional Jets	971.0	1266.8	1351.2	1441.8	1540.4	1645.3	1755.4	1873.4	1998.1	2132.2	2273.5	2424.9	2587.8
Total Active Stock	6308.0	5851.3	5421.5	5599.9	5812.1	6090.3	6313.0	6588.0	6867.0	7198.6	7524.6	7901.5	8297.5
Aircraft Parked Stock													
Narrow Body Aircraft	853.0	635.9	509.7	491.7	487.9	451.8	489.5	514.5	542.0	533.1	529.9	511.5	526.1
Wide Body Aircraft	253.0	181.6	132.6	123.9	107.2	108.8	110.8	112.1	113.5	112.9	114.0	110.2	109.3
Regional Jets	69.0	23.2	28.0	33.6	40.2	48.0	56.5	67.0	77.7	90.3	105.5	123.9	144.9
Total Parked Stock	1175.0	840.7	670.3	649.3	635.3	608.6	656.9	693.6	733.2	736.3	749.5	745.6	780.3
Aircraft Cargo Stock													
Narrow Body Aircraft	594.0	549.0	1171.4	1163.6	1149.1	1117.1	1090.4	1065.7	1062.6	1082.1	1132.9	1189.9	1246.6
Wide Body Aircraft	395.0	424.0	530.2	531.8	530.9	520.9	508.9	489.0	468.6	451.3	432.5	420.4	404.7
Total Cargo Stock	989.0	973.0	1701.6	1695.5	1680.0	1638.0	1599.2	1554.8	1531.2	1533.4	1565.4	1610.3	1651.3

Table 54. Air Travel Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
New Aircraft Efficiency 3/													
Narrow Body Aircraft	63.9	64.6	64.8	64.9	65.1	65.5	66.1	67.2	68.7	70.3	71.9	73.0	73.7
Wide Body Aircraft	62.3	63.0	63.2	63.3	63.5	63.9	64.6	65.6	67.0	68.7	70.2	71.3	72.0
Regional Jets	42.1	42.7	42.8	42.9	43.0	43.2	43.7	44.3	45.3	46.4	47.4	48.2	48.6
Average Aircraft	61.9	58.0	57.3	57.2	57.1	57.3	57.7	58.4	59.5	60.9	62.0	62.8	63.3
Aircraft Stock Efficiency 3/													
Narrow Body Aircraft	57.3	56.5	59.1	59.6	60.1	60.5	61.0	61.6	62.2	63.0	63.8	64.7	65.7
Wide Body Aircraft	56.4	56.1	57.8	58.5	59.2	59.8	60.5	61.2	61.9	62.7	63.5	64.4	65.3
Regional Jets	40.4	41.1	41.3	41.4	41.5	41.7	41.8	42.0	42.3	42.6	42.9	43.3	43.7
Average Aircraft	55.3	54.8	56.7	57.1	57.6	57.9	58.3	58.8	59.3	59.9	60.5	61.2	62.0
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel	2924.3	2801.1	2677.7	2744.0	2847.2	2951.4	3033.8	3128.9	3212.7	3308.1	3386.3	3480.0	3565.2
Aviation Gasoline	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1
Military													
Jet Fuel	501.7	538.9	583.5	603.9	611.1	612.5	616.8	621.1	625.2	629.3	633.3	637.1	640.7

Table 54. Air Travel Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Fuel Cost (1987 dollars per million Btu)	4.1	4.1	4.1	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	0.2%
Yield-domestic (ticket price) 1/	7.5	7.2	6.9	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	-2.3%
Yield-international (1996 dollars) 1/	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	-2.3%
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	697.0	716.3	733.1	750.4	765.8	779.6	791.0	802.2	811.3	819.2	826.6	831.6	2.4%
Load Factor, Domestic 2/	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.75	0.3%
Revenue Passenger Miles, International	270.3	277.7	284.9	291.5	297.5	303.2	308.5	313.5	317.7	321.5	324.7	327.3	2.9%
Load Factor, International 2/	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.2%
Revenue Ton Miles, Freight (billion)	45.1	46.6	48.1	50.0	52.2	54.2	56.0	57.7	59.5	61.5	63.5	65.6	4.1%
Seat Miles Demanded (billion)													
Narrow Body Aircraft	772.8	791.3	807.9	824.3	838.3	851.6	862.0	871.5	879.3	884.9	891.3	889.0	2.0%
Wide Body Aircraft	366.1	371.7	375.3	379.1	381.9	384.2	384.9	385.9	386.0	385.4	384.1	386.2	1.4%
Regional Jets	155.5	164.4	173.2	182.2	190.9	199.6	207.8	215.9	223.5	231.1	238.1	245.3	5.6%
Aircraft Sales													
Narrow Body Aircraft	387.8	400.5	408.8	418.2	423.7	423.5	420.1	413.2	404.5	393.3	381.0	366.7	3.8%
Wide Body Aircraft	121.0	125.0	127.6	130.5	132.2	132.2	131.1	129.0	126.2	122.8	118.9	114.5	4.9%
Regional Jets	218.1	225.2	229.9	235.1	238.3	238.1	236.3	232.4	227.4	221.2	214.2	206.2	-1.3%
Total Aircraft Sales	726.9	750.7	766.2	783.8	794.2	793.8	787.5	774.6	758.1	737.2	714.2	687.4	1.6%
Aircraft Stock													
Narrow Body Aircraft	6546.7	6819.5	7096.1	7376.7	7657.0	7932.6	8200.7	8458.2	8703.5	8934.2	9150.5	9351.3	2.8%
Wide Body Aircraft	1781.7	1857.4	1934.9	2014.3	2095.3	2177.2	2258.7	2337.8	2414.7	2487.5	2555.4	2617.4	2.8%
Regional Jets	2931.3	3134.7	3339.9	3547.5	3754.9	3958.7	4156.7	4346.5	4527.0	4696.4	4853.7	4997.6	6.1%
Total Aircraft Stock	11259.7	11811.6	12370.9	12938.4	13507.3	14068.4	14616.0	15142.5	15645.1	16118.0	16559.6	16966.3	3.5%
Aircraft Active Stock													
Narrow Body Aircraft	4677.7	4915.6	5096.0	5328.0	5596.3	5859.2	6113.9	6351.2	6550.1	6706.6	6842.5	6953.2	2.6%
Wide Body Aircraft	1283.5	1373.6	1463.5	1554.8	1647.5	1736.8	1821.6	1900.0	1972.0	2034.9	2090.6	2139.9	4.6%
Regional Jets	2765.5	2943.2	3120.7	3295.5	3470.5	3639.1	3802.4	3955.6	4097.4	4223.6	4328.2	4420.8	5.6%
Total Active Stock	8726.6	9232.4	9680.3	10178.3	10714.3	11235.1	11737.9	12206.8	12619.4	12965.1	13261.3	13514.0	3.7%
Aircraft Parked Stock													
Narrow Body Aircraft	557.9	533.5	578.9	623.0	662.6	717.2	787.9	867.0	922.4	938.9	942.3	931.6	1.7%
Wide Body Aircraft	111.2	110.6	106.6	105.9	117.0	133.7	152.4	168.5	181.6	185.6	187.9	196.8	0.3%
Regional Jets	165.9	191.5	219.2	252.0	284.4	319.6	354.2	390.9	429.6	472.7	525.4	576.7	15.0%
Total Parked Stock	834.9	835.6	904.7	980.9	1064.0	1170.5	1294.5	1426.4	1533.5	1597.3	1655.6	1705.1	3.1%
Aircraft Cargo Stock													
Narrow Body Aircraft	1311.1	1370.4	1421.2	1425.6	1398.2	1356.2	1298.9	1240.0	1231.1	1288.7	1365.7	1466.4	4.4%
Wide Body Aircraft	387.0	373.2	364.7	353.6	330.9	306.7	284.6	269.3	261.1	267.0	276.9	280.8	-1.8%
Total Cargo Stock	1698.1	1743.6	1785.9	1779.2	1729.1	1662.9	1583.5	1509.3	1492.1	1555.7	1642.6	1747.2	2.6%

Table 54. Air Travel Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.01	0.01	0.02	0.05	0.10	0.18	0.32	0.49	0.68	27.6%
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	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	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	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	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	25.9%
New Aircraft Efficiency 3/													
Narrow Body Aircraft	74.1	74.3	74.4	74.4	74.5	74.6	74.8	75.1	75.7	76.6	77.7	78.9	0.9%
Wide Body Aircraft	72.4	72.6	72.7	72.8	72.9	73.0	73.2	73.6	74.1	75.0	76.2	77.3	0.9%
Regional Jets	48.9	49.0	49.1	49.1	49.2	49.2	49.3	49.5	49.9	50.5	51.2	52.0	0.9%
Average Aircraft	63.5	63.6	63.6	63.6	63.7	63.8	63.9	64.2	64.6	65.4	66.3	67.3	0.7%
Aircraft Stock Efficiency 3/													
Narrow Body Aircraft	66.7	67.6	68.4	69.1	69.6	70.2	70.6	71.1	71.6	72.1	72.7	73.2	1.1%
Wide Body Aircraft	66.1	66.8	67.5	68.2	68.7	69.2	69.7	70.2	70.6	71.1	71.6	72.1	1.1%
Regional Jets	44.1	44.5	44.8	45.1	45.4	45.7	46.0	46.2	46.5	46.7	47.0	47.3	0.6%
Average Aircraft	62.7	63.3	63.9	64.3	64.7	65.1	65.4	65.7	66.0	66.3	66.7	67.0	0.9%
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel	3655.8	3719.3	3777.5	3849.4	3921.2	3989.5	4044.3	4097.8	4146.8	4190.7	4231.2	4262.9	1.8%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
Military													
Jet Fuel	643.8	647.2	650.4	653.3	655.9	658.3	660.5	662.5	664.4	666.1	667.7	669.2	0.9%

Table 54. 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: 2002 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 2002/2001 (Washington, DC, 2002); 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 2000, DOE/EIA-0214(2000) (Washington, DC, August 2003); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 55. Freight Transportation Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	31.64	30.97	31.52	33.15	34.69	35.88	37.00	38.05	39.18	40.50	41.88	43.27	44.75
Gasoline	13.61	13.49	13.06	13.04	12.88	12.52	12.12	11.70	11.35	11.10	10.92	10.78	10.71
Liquefied Petroleum Gas	0.38	0.36	0.33	0.32	0.31	0.30	0.30	0.31	0.32	0.34	0.36	0.38	0.39
Compressed Natural Gas	0.05	0.06	0.08	0.11	0.16	0.23	0.31	0.40	0.50	0.61	0.72	0.83	0.94
Medium Subtotal	45.68	44.88	44.99	46.63	48.04	48.93	49.74	50.46	51.35	52.55	53.87	55.26	56.79
Heavy													
Diesel	153.80	149.65	150.76	156.98	163.40	168.78	173.60	177.97	182.59	187.83	193.01	198.18	203.74
Gasoline	1.52	1.45	1.36	1.32	1.27	1.21	1.15	1.10	1.06	1.04	1.03	1.03	1.03
Liquefied Petroleum Gas	0.03	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.15	0.16	0.18	0.18	0.19
Compressed Natural Gas	0.03	0.05	0.07	0.10	0.15	0.22	0.30	0.38	0.47	0.55	0.63	0.69	0.75
Heavy Subtotal	155.38	151.19	152.24	158.46	164.90	170.29	175.16	179.58	184.27	189.58	194.85	200.08	205.71
Total Vehicle Miles Traveled	201.06	196.07	197.23	205.08	212.94	219.23	224.90	230.04	235.63	242.13	248.72	255.34	262.50
Consumption (trillion Btu)													
Medium													
Diesel	481.76	468.63	474.89	497.80	519.45	536.31	552.42	567.69	584.47	604.17	624.76	645.61	667.69
Gasoline	201.80	199.40	192.46	191.75	189.04	183.37	177.15	170.74	165.26	161.27	158.28	156.04	154.56
Liquefied Petroleum Gas	7.77	7.19	6.58	6.24	5.94	5.68	5.63	5.68	5.82	6.02	6.25	6.48	6.70
Compressed Natural Gas	0.75	0.99	1.30	1.82	2.58	3.60	4.88	6.33	7.92	9.63	11.38	13.12	14.83
Medium Subtotal	692.08	676.21	675.24	697.61	717.01	728.97	740.09	750.45	763.48	781.09	800.68	821.25	843.77
Heavy													
Diesel	3503.11	3390.60	3403.71	3535.87	3674.27	3791.74	3898.77	3996.50	4100.19	4215.77	4326.11	4430.13	4535.60
Gasoline	27.36	25.98	24.22	23.39	22.48	21.37	20.33	19.41	18.73	18.31	18.06	17.93	17.92
Liquefied Petroleum Gas	0.46	0.62	0.79	1.00	1.28	1.61	1.96	2.29	2.59	2.84	3.02	3.16	3.26
Compressed Natural Gas	0.61	0.90	1.25	1.80	2.63	3.77	5.11	6.56	8.04	9.47	10.77	11.92	12.94
Heavy Subtotal	3531.54	3418.11	3429.97	3562.07	3700.66	3818.49	3926.17	4024.78	4129.55	4246.39	4357.96	4463.13	4569.72
Medium and Heavy Total													
Diesel	3984.87	3859.24	3878.60	4033.67	4193.72	4328.05	4451.19	4564.19	4684.67	4819.94	4950.87	5075.74	5203.29
Gasoline	229.16	225.38	216.68	215.14	211.52	204.74	197.49	190.16	183.99	179.58	176.34	173.97	172.48
Liquefied Petroleum Gas	8.24	7.82	7.37	7.25	7.22	7.29	7.59	7.98	8.41	8.86	9.27	9.64	9.96
Compressed Natural Gas	1.35	1.89	2.55	3.63	5.21	7.37	9.99	12.90	15.97	19.10	22.15	25.04	27.76
Total	4223.62	4094.32	4105.21	4259.69	4417.67	4547.46	4666.26	4775.22	4893.03	5027.49	5158.64	5284.39	5413.49
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.27	8.32	8.35	8.37	8.39	8.40	8.41	8.42	8.42	8.43	8.43	8.44	8.44
Gasoline	8.43	8.45	8.47	8.49	8.51	8.53	8.55	8.57	8.59	8.61	8.63	8.66	8.68
Liquefied Petroleum Gas	6.21	6.27	6.34	6.42	6.50	6.60	6.71	6.82	6.92	7.02	7.10	7.18	7.25
Compressed Natural Gas	7.60	7.72	7.80	7.85	7.88	7.89	7.89	7.90	7.91	7.91	7.92	7.93	7.93
Medium Average	8.30	8.34	8.37	8.39	8.40	8.42	8.43	8.44	8.45	8.45	8.46	8.46	8.47
Heavy													
Diesel	5.49	5.52	5.54	5.55	5.56	5.57	5.57	5.57	5.57	5.57	5.58	5.59	5.62
Gasoline	6.95	6.99	7.02	7.04	7.06	7.07	7.08	7.09	7.11	7.13	7.15	7.17	7.20
Liquefied Petroleum Gas	6.84	6.97	7.06	7.11	7.15	7.19	7.21	7.22	7.23	7.24	7.25	7.25	7.25
Compressed Natural Gas	7.08	7.14	7.17	7.20	7.23	7.24	7.25	7.26	7.26	7.26	7.27	7.27	7.27
Heavy Average	5.50	5.53	5.55	5.56	5.57	5.58	5.58	5.58	5.58	5.58	5.59	5.61	5.63
Average	5.95	5.99	6.01	6.02	6.03	6.03	6.03	6.03	6.02	6.02	6.03	6.04	6.06

Table 55. Freight Transportation Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Stock (millions)													
Medium													
Diesel	2.03	2.10	2.17	2.24	2.32	2.40	2.49	2.57	2.65	2.73	2.80	2.87	2.94
Gasoline	2.03	1.97	1.91	1.85	1.80	1.75	1.70	1.65	1.61	1.56	1.51	1.47	1.43
Liquefied Petroleum Gas	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06
Medium Subtotal	4.11	4.12	4.13	4.14	4.17	4.21	4.25	4.29	4.33	4.36	4.40	4.43	4.46
Heavy													
Diesel	4.16	4.24	4.30	4.36	4.45	4.56	4.68	4.79	4.89	4.99	5.08	5.16	5.24
Gasoline	0.37	0.34	0.32	0.30	0.28	0.26	0.25	0.23	0.22	0.21	0.20	0.19	0.18
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03
Heavy Subtotal	4.53	4.59	4.63	4.67	4.74	4.84	4.94	5.04	5.14	5.23	5.31	5.38	5.46
Total Stock	8.65	8.72	8.75	8.81	8.90	9.04	9.19	9.33	9.47	9.59	9.70	9.81	9.92
New Trucks by Size Class													
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.79	8.67	8.59	8.52	8.50	8.48	8.48	8.48	8.47	8.47	8.46	8.46	8.46
Gasoline	9.02	8.99	8.97	8.94	8.92	8.92	8.92	8.94	8.96	8.99	9.01	9.03	9.05
Liquefied Petroleum Gas	8.03	8.01	7.99	7.98	7.96	7.95	7.94	7.95	7.97	7.98	7.99	8.00	8.00
Compressed Natural Gas	8.01	7.99	7.97	7.95	7.93	7.91	7.90	7.92	7.93	7.94	7.96	7.96	7.96
Medium Average	8.82	8.72	8.64	8.58	8.55	8.53	8.53	8.52	8.52	8.51	8.51	8.51	8.51
Heavy													
Diesel	5.77	5.76	5.68	5.63	5.61	5.59	5.58	5.58	5.59	5.61	5.66	5.73	5.81
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
Liquefied Petroleum 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
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.78	5.76	5.69	5.64	5.62	5.60	5.60	5.60	5.60	5.63	5.68	5.74	5.83
Average	6.18	6.15	6.10	6.04	6.01	5.98	5.97	5.97	5.97	6.00	6.05	6.11	6.19
Sales (millions)													
Medium													
Diesel	0.14	0.13	0.13	0.13	0.15	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18
Gasoline	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
Liquefied Petroleum 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.19	0.17	0.17	0.17	0.19	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23
Heavy													
Diesel	0.26	0.24	0.22	0.23	0.27	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31
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
Liquefied Petroleum 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heavy Subtotal	0.26	0.24	0.22	0.24	0.27	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32
Total Sales	0.45	0.41	0.39	0.41	0.47	0.52	0.53	0.54	0.54	0.54	0.54	0.54	0.55

Table 55. Freight Transportation Energy Use

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Railroads													
Ton Miles by Rail (billion)	1416.97	1336.07	1334.33	1367.99	1402.47	1445.00	1473.65	1492.14	1521.43	1545.08	1581.98	1610.42	1638.43
Fuel Efficiency (ton miles per thousand Btu)	2.82	2.85	2.88	2.91	2.94	2.97	3.00	3.03	3.06	3.09	3.12	3.15	3.19
Fuel Consumption (trillion Btu)													
Distillate (diesel)	501.83	468.45	463.16	470.10	477.12	486.68	491.37	492.55	497.20	499.88	506.70	510.65	514.34
Residual Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Domestic Shipping													
Ton Miles Shipping (billion)	773.75	723.79	716.07	730.59	749.11	762.67	776.48	787.23	795.66	805.03	815.59	826.42	837.55
Fuel Efficiency (ton miles per thousand Btu)	2.29	2.29	2.30	2.30	2.31	2.31	2.31	2.32	2.32	2.33	2.33	2.34	2.34
Fuel Consumption (trillion Btu)													
Distillate (diesel)	241.92	223.99	221.16	225.20	230.44	234.15	237.91	240.72	242.81	245.18	247.90	250.69	253.55
Residual Oil	96.44	91.85	90.69	92.34	94.49	96.01	97.55	98.70	99.56	100.53	101.65	102.79	103.97
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 1996 dollars)	2076.16	2095.83	2145.87	2295.31	2510.20	2710.03	2891.13	3078.37	3264.35	3465.65	3678.13	3906.66	4158.81
Exports (billion 1996 dollars)	785.17	756.94	754.24	806.19	906.14	1005.19	1094.40	1183.84	1270.93	1357.58	1449.49	1545.51	1645.59
Imports (billion 1996 dollars)	1290.99	1338.89	1391.63	1489.12	1604.06	1704.84	1796.73	1894.53	1993.42	2108.07	2228.64	2361.14	2513.22
Fuel Consumption (trillion Btu)													
Distillate (diesel)	52.22	42.35	46.73	46.81	46.92	47.01	47.09	47.16	47.23	47.30	47.37	47.45	47.52
Residual Oil	721.27	601.61	663.88	665.06	666.56	667.85	668.93	669.99	670.98	672.00	673.02	674.05	675.12

Table 55. Freight Transportation Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	46.16	47.58	49.13	50.85	52.58	54.21	55.99	57.71	59.65	61.64	63.67	65.86	3.3%
Gasoline	10.64	10.59	10.59	10.62	10.65	10.66	10.71	10.76	10.85	10.95	11.05	11.18	-0.8%
Liquefied Petroleum Gas	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	1.5%
Compressed Natural Gas	1.04	1.14	1.22	1.31	1.39	1.46	1.53	1.60	1.66	1.73	1.80	1.87	16.1%
Medium Subtotal	58.25	59.72	61.37	63.21	65.06	66.78	68.69	70.54	72.63	74.81	77.02	79.41	2.5%
Heavy													
Diesel	208.99	214.05	219.34	225.17	231.02	236.06	241.55	246.60	252.51	258.76	265.25	272.58	2.6%
Gasoline	1.04	1.04	1.05	1.07	1.09	1.10	1.12	1.13	1.16	1.18	1.21	1.24	-0.7%
Liquefied Petroleum Gas	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	7.9%
Compressed Natural Gas	0.80	0.84	0.87	0.90	0.92	0.94	0.96	0.97	0.99	1.01	1.03	1.06	14.0%
Heavy Subtotal	211.02	216.13	221.46	227.33	233.22	238.29	243.82	248.91	254.85	261.15	267.69	275.08	2.6%
Total Vehicle Miles Traveled	269.26	275.85	282.83	290.54	298.28	305.07	312.51	319.44	327.49	335.96	344.71	354.49	2.6%
Consumption (trillion Btu)													
Medium													
Diesel	688.72	709.84	732.94	757.74	782.75	806.19	831.85	856.70	884.69	913.63	943.16	975.00	3.2%
Gasoline	153.21	152.17	151.73	151.77	151.81	151.53	151.76	151.95	152.75	153.72	154.77	156.17	-1.1%
Liquefied Petroleum Gas	6.88	7.02	7.15	7.24	7.33	7.41	7.52	7.61	7.70	7.82	7.94	8.08	0.5%
Compressed Natural Gas	16.40	17.84	19.22	20.53	21.77	22.88	23.99	25.01	26.06	27.10	28.14	29.23	15.9%
Medium Subtotal	865.21	886.87	911.03	937.27	963.67	988.01	1015.12	1041.27	1071.21	1102.28	1134.02	1168.47	2.4%
Heavy													
Diesel	4624.39	4700.49	4778.11	4863.85	4945.54	5012.55	5092.25	5166.14	5260.90	5365.47	5477.27	5608.31	2.2%
Gasoline	17.95	18.01	18.14	18.34	18.57	18.78	19.04	19.30	19.65	20.04	20.47	20.98	-0.9%
Liquefied Petroleum Gas	3.33	3.35	3.35	3.35	3.35	3.34	3.34	3.34	3.35	3.37	3.41	3.45	7.7%
Compressed Natural Gas	13.76	14.40	14.92	15.40	15.82	16.14	16.47	16.73	17.03	17.37	17.74	18.19	13.9%
Heavy Subtotal	4659.42	4736.25	4814.53	4900.94	4983.29	5050.81	5131.11	5205.52	5300.93	5406.25	5518.88	5650.93	2.2%
Medium and Heavy Total													
Diesel	5313.11	5410.32	5511.05	5621.59	5728.30	5818.74	5924.10	6022.84	6145.59	6279.11	6420.44	6583.31	2.3%
Gasoline	171.16	170.18	169.87	170.11	170.39	170.31	170.80	171.25	172.40	173.76	175.24	177.14	-1.0%
Liquefied Petroleum Gas	10.20	10.37	10.50	10.59	10.68	10.75	10.87	10.95	11.06	11.20	11.35	11.53	1.7%
Compressed Natural Gas	30.16	32.25	34.14	35.93	37.59	39.02	40.47	41.74	43.09	44.47	45.88	47.42	15.0%
Total	5524.63	5623.12	5725.56	5838.22	5946.96	6038.82	6146.23	6246.79	6372.15	6508.53	6652.91	6819.40	2.2%
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.44	8.44	8.44	8.44	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	0.1%
Gasoline	8.70	8.73	8.75	8.78	8.81	8.83	8.86	8.88	8.91	8.93	8.95	8.97	0.3%
Liquefied Petroleum Gas	7.31	7.37	7.42	7.46	7.52	7.58	7.63	7.69	7.73	7.79	7.85	7.90	1.0%
Compressed Natural Gas	7.94	7.95	7.96	7.97	7.97	7.98	7.98	7.98	7.98	7.99	7.99	7.99	0.1%
Medium Average	8.47	8.48	8.48	8.49	8.49	8.50	8.50	8.50	8.51	8.51	8.51	8.51	0.1%
Heavy													
Diesel	5.65	5.70	5.74	5.79	5.84	5.89	5.93	5.97	6.00	6.03	6.06	6.08	0.4%
Gasoline	7.22	7.25	7.27	7.29	7.31	7.32	7.34	7.35	7.37	7.38	7.39	7.40	0.2%
Liquefied Petroleum Gas	7.26	7.26	7.26	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.2%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	0.1%
Heavy Average	5.66	5.71	5.75	5.80	5.85	5.90	5.94	5.98	6.01	6.04	6.07	6.09	0.4%
Average	6.10	6.14	6.18	6.22	6.27	6.32	6.36	6.40	6.43	6.46	6.48	6.50	0.4%

Table 55. Freight Transportation Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Stock (millions)													
Medium													
Diesel	3.00	3.07	3.13	3.19	3.26	3.32	3.38	3.44	3.49	3.55	3.61	3.67	2.4%
Gasoline	1.39	1.35	1.32	1.28	1.25	1.23	1.20	1.17	1.15	1.13	1.11	1.09	-2.5%
Liquefied Petroleum Gas	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.6%
Compressed Natural Gas	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	13.4%
Medium Subtotal	4.49	4.53	4.56	4.60	4.64	4.68	4.72	4.75	4.79	4.83	4.87	4.92	0.8%
Heavy													
Diesel	5.32	5.40	5.47	5.53	5.60	5.66	5.72	5.77	5.82	5.86	5.91	5.97	1.5%
Gasoline	0.17	0.16	0.16	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	-4.3%
Liquefied Petroleum 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	6.1%
Compressed Natural Gas	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	13.7%
Heavy Subtotal	5.54	5.61	5.68	5.74	5.81	5.87	5.92	5.97	6.02	6.06	6.11	6.17	1.3%
Total Stock	10.03	10.14	10.24	10.34	10.45	10.54	10.64	10.72	10.81	10.89	10.99	11.09	1.1%
New Trucks by Size Class													
Fuel Efficiency (MPG gasoline equivalent)													
Medium													
Diesel	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	-0.1%
Gasoline	9.08	9.12	9.16	9.21	9.24	9.25	9.25	9.25	9.25	9.25	9.25	9.25	0.1%
Liquefied Petroleum Gas	8.00	8.00	8.00	8.00	8.24	8.24	8.26	8.27	8.27	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	0.0%
Medium Average	8.52	8.52	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.53	-0.1%
Heavy													
Diesel	5.93	6.04	6.10	6.15	6.22	6.23	6.23	6.23	6.23	6.24	6.24	6.24	0.4%
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	0.0%
Liquefied Petroleum 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	0.0%
Compressed Natural Gas	7.27	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	5.94	6.05	6.11	6.17	6.24	6.24	6.24	6.24	6.25	6.25	6.25	6.25	0.4%
Average	6.29	6.40	6.45	6.51	6.58	6.58	6.59	6.59	6.60	6.60	6.60	6.60	0.3%
Sales (millions)													
Medium													
Diesel	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.21	2.0%
Gasoline	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.2%
Liquefied Petroleum 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	5.8%
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	9.1%
Medium Subtotal	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	1.8%
Heavy													
Diesel	0.32	0.32	0.31	0.32	0.32	0.32	0.32	0.31	0.32	0.32	0.33	0.34	1.5%
Gasoline	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.6%
Liquefied Petroleum 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	3.1%
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	8.3%
Heavy Subtotal	0.33	0.33	0.32	0.33	0.33	0.33	0.33	0.32	0.33	0.33	0.34	0.35	1.6%
Total Sales	0.56	0.56	0.55	0.56	0.57	0.57	0.57	0.56	0.57	0.58	0.59	0.60	1.7%

Table 55. Freight Transportation Energy Use

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Railroads													
Ton Miles by Rail (billion)	1663.55	1689.96	1730.52	1761.48	1787.71	1818.86	1851.70	1884.34	1926.27	1974.77	2012.89	2056.19	1.9%
Fuel Efficiency (ton miles per thousand Btu)	3.22	3.25	3.28	3.32	3.35	3.38	3.42	3.45	3.49	3.52	3.56	3.59	1.0%
Fuel Consumption (trillion Btu)													
Distillate (diesel)	517.00	519.96	527.11	531.18	533.70	537.57	541.80	545.84	552.40	560.65	565.76	572.14	0.9%
Residual 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	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	N/A
Domestic Shipping													
Ton Miles Shipping (billion)	847.12	857.37	865.07	876.67	894.85	908.38	918.40	924.68	933.72	948.73	964.20	976.90	1.3%
Fuel Efficiency (ton miles per thousand Btu)	2.35	2.35	2.36	2.36	2.37	2.37	2.38	2.38	2.39	2.39	2.39	2.40	0.2%
Fuel Consumption (trillion Btu)													
Distillate (diesel)	255.94	258.52	260.32	263.28	268.20	271.71	274.16	275.48	277.62	281.52	285.54	288.72	1.1%
Residual Oil	104.95	106.00	106.74	107.96	109.97	111.41	112.42	112.96	113.84	115.44	117.08	118.39	1.1%
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	N/A
International Shipping													
Gross Trade (billion 1996 dollars)	4421.93	4678.32	4959.33	5279.59	5630.32	5993.94	6382.50	6779.09	7209.91	7674.52	8154.47	8662.40	6.4%
Exports (billion 1996 dollars)	1750.05	1852.95	1965.49	2098.86	2250.06	2400.25	2546.94	2699.25	2868.17	3052.94	3248.49	3458.02	6.8%
Imports (billion 1996 dollars)	2671.88	2825.37	2993.84	3180.74	3380.25	3593.69	3835.56	4079.84	4341.74	4621.58	4905.97	5204.38	6.1%
Fuel Consumption (trillion Btu)													
Distillate (diesel)	47.60	47.66	47.73	47.81	47.89	47.96	48.04	48.12	48.19	48.27	48.34	48.42	0.6%
Residual Oil	676.17	677.14	678.15	679.23	680.34	681.42	682.51	683.56	684.64	685.72	686.78	687.84	0.6%

Table 55. Freight Transportation Energy Use

MPG = Miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2002 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, and 22 and Annual (Oak Ridge, TN, September 2002); 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 2001 (Washington, DC, November 2002); and Energy Information Administration (EIA), AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Car													
Unit Body Construction	93.01	92.87	94.04	92.73	93.46	93.41	93.40	93.39	93.40	93.36	93.37	93.34	93.36
Material Substitution II	49.97	51.01	51.00	51.01	50.99	54.65	54.63	54.63	54.62	54.60	54.60	54.58	54.57
Material Substitution III	0.05	0.32	0.63	1.06	1.67	3.41	4.29	4.53	5.25	6.65	7.01	8.13	8.70
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.29	0.52	0.87	1.19	1.61	2.01
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	54.48	55.86	55.00	55.89	55.40	60.42	60.36	60.25	59.08	55.82	55.29	52.62	50.53
Drag Reduction III	0.25	0.92	1.60	2.66	4.10	10.22	14.12	15.07	17.41	21.97	22.43	25.40	27.17
Drag Reduction IV	0.00	0.09	0.28	0.74	1.40	3.66	5.40	6.19	7.78	10.57	11.71	14.15	15.56
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.19	0.54	1.04
Roll-Over Technology	0.00	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	8.68	13.32	13.46	16.39	20.53	32.65	37.42	39.11	42.89	47.64	50.34	54.93	58.21
Early Torque Converter Lockup	0.00	0.18	0.62	1.86	3.90	11.60	16.84	19.47	23.99	30.52	32.76	37.92	41.30
Aggressive Shift Logic	2.98	3.29	3.32	3.55	3.83	5.38	6.11	6.40	6.96	8.28	8.67	9.56	10.21
4-Speed Automatic	71.55	71.59	69.66	71.48	70.04	69.38	68.78	68.00	66.37	63.59	62.22	60.74	58.07
5-Speed Automatic	7.94	7.99	7.77	8.13	8.10	8.31	8.44	8.53	8.64	8.78	8.85	9.01	9.14
6-Speed Automatic	0.00	0.00	0.00	0.02	0.11	0.28	0.46	0.65	0.87	1.15	1.42	1.73	1.98
6-Speed Manual	1.01	1.18	1.27	1.42	1.67	2.31	2.60	2.78	3.05	3.36	3.45	3.64	3.72
CVT	0.06	0.18	0.33	0.52	0.86	1.50	1.90	2.17	2.63	3.30	3.55	4.11	4.84
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.04	0.19	0.63	1.73	4.11	5.67	7.69	10.07
Roller Cam	90.93	96.18	96.09	96.40	96.36	97.31	97.35	97.38	97.42	97.47	97.48	97.51	97.50
OHC/AdvOHV-4 Cylinder	3.51	3.49	3.62	2.93	3.03	3.01	3.02	3.02	3.02	3.02	3.02	3.01	3.02
OHC/AdvOHV-6 Cylinder	5.19	5.22	4.94	5.08	4.80	4.62	4.44	4.27	4.11	4.00	3.94	3.88	3.86
OHC/AdvOHV-8 Cylinder	3.18	3.22	2.80	3.27	3.01	3.02	3.02	3.02	3.01	3.02	3.01	3.02	3.00
4-Valve/4-Cylinder	47.04	46.79	50.00	46.97	48.86	48.72	48.67	48.66	48.69	48.61	48.63	48.55	48.62
4-Valve/6-Cylinder	23.47	22.98	21.71	23.27	22.63	22.87	23.07	23.25	23.39	23.52	23.58	23.67	23.66
4-Valve/8-Cylinder	8.74	8.85	8.02	9.08	8.65	8.84	9.00	9.14	9.25	9.33	9.32	9.35	9.34
5-Valve/6-Cylinder	1.60	2.19	2.11	2.22	2.17	2.19	2.19	2.19	2.20	2.21	2.21	2.21	2.21
VVT-4 Cylinder	17.39	22.10	27.03	32.35	35.36	41.16	44.01	45.03	47.09	48.03	48.01	48.03	47.93
VVT-6 Cylinder	3.43	3.65	3.54	4.26	4.38	4.88	5.21	5.47	5.83	6.44	6.60	7.03	7.32
VVT-8 Cylinder	0.47	0.71	0.85	1.45	1.56	1.95	2.22	2.33	2.52	2.83	2.93	3.25	3.46
VVL-4 Cylinder	6.54	6.53	6.77	6.95	7.26	7.57	7.84	8.09	8.34	8.62	8.76	9.01	9.18
VVL-6 Cylinder	0.41	0.55	0.78	1.15	1.39	1.85	2.18	2.47	2.81	3.23	3.39	3.73	3.90
VVL-8 Cylinder	1.15	1.28	1.29	1.65	1.66	1.88	2.01	2.07	2.06	2.06	2.03	2.03	2.00
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.27	0.50	0.79
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.27	0.46	0.74	1.03
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.22	0.38	0.56	0.77	0.98
Cylinder Deactivation	0.00	0.00	0.00	0.03	0.16	0.48	0.83	1.15	1.41	1.76	2.00	2.39	2.71
Turbocharging/Supercharging	0.03	0.14	0.27	0.52	0.68	0.93	1.14	1.35	1.57	1.79	1.91	2.09	2.19
Engine Friction Reduction I	66.98	69.06	69.48	69.02	69.23	62.72	61.51	61.42	60.78	58.02	57.39	54.98	53.85
Engine Friction Reduction II	19.37	22.52	22.32	25.24	25.41	35.09	36.70	36.87	37.59	40.36	40.57	42.44	42.46
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.23	0.73	1.38	2.47	3.67
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	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.28	0.49	0.81	1.10	1.48	1.97
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.25	0.44	0.70	0.96	1.26	1.62
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.03	0.15	0.34	0.61	1.04	1.40	1.87	2.30
5W-30 Engine Oil	40.28	40.38	39.85	40.44	40.11	41.27	41.24	41.22	41.18	41.12	41.08	41.01	40.95
5W-20 Engine Oil	0.00	0.00	0.07	0.34	1.05	3.75	6.81	8.80	12.04	16.82	18.80	23.02	25.25
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	0.00	0.00	0.04	0.17	0.56	1.12	1.77	2.72	4.22	5.35	7.32	9.16
Improved Alternator	0.00	0.00	0.00	0.00	0.03	0.16	0.37	0.62	0.98	1.44	1.79	2.28	2.70
Improved Oil/Water Pump	0.09	0.69	1.40	2.48	3.97	10.14	14.08	15.04	17.43	22.11	22.58	25.62	27.41

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.29	0.53	0.82	1.19	1.56
Tires II	52.97	58.37	57.08	58.52	57.75	65.71	65.69	65.65	65.58	65.52	65.46	65.39	65.26
Tires III	0.00	0.00	0.00	0.00	0.06	0.43	1.39	2.62	4.70	8.26	10.84	15.25	18.36
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	82.67	82.71	82.51	82.72	82.62	82.62	82.63	82.64	82.64	82.65	82.64	82.65	82.65
Four Wheel Drive Improvements	0.02	0.15	0.28	0.45	0.63	1.05	1.28	1.36	1.52	1.76	1.78	1.91	1.91
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.54	0.73	0.92	1.12
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.54	0.73	0.92	1.12	1.32
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
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	0.00	0.00
Light Truck													
Unit Body Construction	18.83	19.09	20.63	19.37	20.37	32.00	35.22	35.08	35.06	35.04	35.03	35.02	35.04
Material Substitution II	30.49	31.30	31.09	31.48	31.52	60.19	65.04	65.08	65.10	65.10	65.05	64.99	64.91
Material Substitution III	0.00	0.07	0.17	0.42	0.81	5.59	13.94	13.94	13.94	13.94	13.94	13.99	14.09
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.22	0.41
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	33.85	41.86	42.24	42.34	44.86	61.72	45.62	45.49	44.54	40.24	36.79	27.96	24.41
Drag Reduction III	0.16	1.12	2.32	4.29	7.64	31.48	47.25	47.24	47.24	48.72	49.95	54.26	55.26
Drag Reduction IV	0.00	0.00	0.00	0.00	0.00	0.71	6.05	6.37	7.95	11.03	13.26	17.78	20.33
Drag Reduction 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
Roll-Over Technology	0.00	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.00	0.00	0.00	0.00	0.21	5.97	21.27	24.01	29.65	37.29	43.09	51.28	57.39
Early Torque Converter Lockup	0.00	0.00	0.00	0.00	0.00	1.69	10.76	13.15	17.87	24.93	29.06	35.53	41.40
Aggressive Shift Logic	0.00	0.00	0.00	0.00	0.00	0.45	3.18	3.36	4.19	5.76	6.88	9.13	10.97
4-Speed Automatic	83.61	83.47	84.17	83.26	83.61	82.17	80.94	80.93	80.87	80.71	80.53	80.09	79.50
5-Speed Automatic	6.06	6.21	6.11	6.47	6.57	8.59	10.11	10.05	10.02	10.03	10.02	10.10	10.12
6-Speed Automatic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.21	0.39	0.67	0.97
6-Speed Manual	0.03	0.14	0.26	0.46	0.72	3.01	5.02	5.02	5.02	5.02	5.02	5.03	5.02
CVT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.13	0.22	0.32
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.20	0.64
Roller Cam	79.34	81.33	83.26	85.31	87.18	91.95	96.16	97.12	98.18	99.23	99.23	99.23	99.23
OHC/AdvOHV-4 Cylinder	2.93	2.92	2.54	2.84	2.60	1.58	0.44	0.45	0.45	0.46	0.46	0.46	0.45
OHC/AdvOHV-6 Cylinder	40.16	40.36	40.96	40.59	40.73	37.65	35.10	35.14	35.17	35.16	35.15	35.14	35.15
OHC/AdvOHV-8 Cylinder	25.29	25.23	24.98	25.09	24.93	24.22	22.84	22.80	22.78	22.77	22.79	22.78	22.78
4-Valve/4-Cylinder	6.77	6.80	6.61	6.94	6.85	7.76	8.99	9.03	9.04	9.05	9.05	9.06	9.05
4-Valve/6-Cylinder	8.10	8.19	8.30	8.73	9.02	14.90	19.68	19.67	19.67	19.67	19.67	19.66	19.67
4-Valve/8-Cylinder	3.58	3.65	3.74	3.91	4.09	7.24	10.43	10.40	10.38	10.39	10.39	10.39	10.39
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	0.28	1.65	3.38	5.83	6.79	9.34	9.43	9.48	9.49	9.51	9.50	9.51	9.50
VVT-6 Cylinder	0.07	0.28	0.55	1.01	1.66	9.35	19.77	19.79	19.79	19.79	19.79	19.79	19.78
VVT-8 Cylinder	0.06	0.22	0.34	0.62	1.07	6.32	12.54	12.52	12.50	12.50	12.50	12.47	12.42
VVL-4 Cylinder	0.00	0.04	0.11	0.30	0.54	4.16	7.05	7.05	7.01	6.95	6.84	6.67	6.47
VVL-6 Cylinder	0.05	0.17	0.34	0.61	0.99	4.11	7.29	7.29	7.29	7.28	7.27	7.25	7.22
VVL-8 Cylinder	0.00	0.00	0.00	0.00	0.00	0.12	0.42	0.55	0.77	1.05	1.27	1.55	1.78
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.15
Cylinder Deactivation	0.00	0.00	0.00	0.04	0.12	1.06	4.53	4.53	4.52	5.09	5.45	6.56	7.45
Turbocharging/Supercharging	0.02	0.08	0.16	0.29	0.42	1.15	1.78	1.78	1.78	1.79	1.86	2.00	2.05
Engine Friction Reduction I	48.77	58.58	59.60	63.83	68.55	66.29	50.53	50.53	50.50	48.19	46.37	40.61	38.16

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Engine Friction Reduction II	0.19	1.38	2.90	5.42	9.58	33.71	49.47	49.47	49.50	51.74	53.38	58.58	59.97
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.25	0.81	1.87
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	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.16	0.29	0.52	0.77
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.21	0.40
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.27	0.52
5W-30 Engine Oil	37.25	42.03	41.84	42.00	42.01	74.20	67.09	67.09	66.68	63.01	60.69	55.30	51.34
5W-20 Engine Oil	0.00	0.00	0.12	0.45	1.55	15.42	32.91	32.91	33.32	36.99	39.31	44.70	48.66
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	0.00	0.00	0.00	0.03	0.51	3.50	3.51	4.01	5.40	6.52	8.91	10.88
Improved Alternator	0.00	0.00	0.00	0.00	0.03	0.48	2.00	2.02	2.32	2.87	3.25	3.98	4.52
Improved Oil/Water Pump	0.16	1.13	2.34	4.33	7.72	31.32	47.00	47.00	47.00	48.59	49.92	54.53	55.79
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.25	0.47	0.83	1.24
Tires II	39.57	49.91	50.46	52.68	57.24	88.66	84.07	83.39	80.36	75.25	72.92	67.49	63.17
Tires III	0.00	0.00	0.00	0.00	0.10	3.13	15.93	16.61	19.64	24.75	27.08	32.51	36.83
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	15.35	15.26	17.37	15.05	16.22	15.57	15.90	16.01	16.10	16.04	16.05	16.00	16.04
Four Wheel Drive Improvements	0.04	0.17	0.32	0.58	0.97	4.31	9.03	9.01	9.00	9.01	9.01	9.01	9.01
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.02	0.18	0.54	0.68	0.87	1.09	1.28	1.50
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.02	0.18	0.54	0.68	0.87	1.09	1.28	1.50	1.68
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
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	0.00	0.00
Light-Duty Vehicle Total													
Unit Body Construction	57.81	56.57	58.19	55.73	56.40	62.06	63.51	63.22	62.99	62.68	62.44	62.11	61.82
Material Substitution II	40.73	41.31	41.27	41.16	41.12	57.48	59.98	60.04	60.08	60.12	60.14	60.15	60.16
Material Substitution III	0.03	0.19	0.41	0.74	1.23	4.52	9.25	9.40	9.78	10.49	10.69	11.27	11.62
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14	0.25	0.42	0.61	0.87	1.15
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	44.69	48.97	48.77	49.05	50.05	61.08	52.78	52.61	51.50	47.63	45.48	39.41	36.40
Drag Reduction III	0.21	1.02	1.95	3.48	5.90	21.07	31.14	31.72	32.96	36.04	37.02	40.85	42.36
Drag Reduction IV	0.00	0.04	0.14	0.37	0.69	2.16	5.73	6.28	7.87	10.81	12.53	16.10	18.14
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.25	0.48
Roll-Over Technology	0.00	0.00	0.00	0.00	12.32	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	12.32	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	4.56	6.76	6.88	8.12	10.23	19.03	29.12	31.30	35.99	42.19	46.50	52.97	57.77
Early Torque Converter Lockup	0.00	0.09	0.32	0.92	1.92	6.54	13.72	16.20	20.80	27.58	30.80	36.64	41.35
Aggressive Shift Logic	1.57	1.67	1.70	1.76	1.89	2.86	4.60	4.83	5.52	6.96	7.72	9.33	10.62
4-Speed Automatic	77.27	77.44	76.75	77.42	76.92	75.91	75.03	74.69	73.93	72.60	71.93	71.10	69.66
5-Speed Automatic	7.05	7.12	6.96	7.29	7.32	8.45	9.30	9.32	9.36	9.44	9.47	9.60	9.67
6-Speed Automatic	0.00	0.00	0.00	0.01	0.05	0.14	0.22	0.32	0.46	0.66	0.87	1.16	1.44
6-Speed Manual	0.54	0.67	0.78	0.93	1.19	2.66	3.85	3.94	4.08	4.24	4.29	4.38	4.43
CVT	0.03	0.09	0.17	0.26	0.42	0.73	0.93	1.05	1.28	1.60	1.74	2.02	2.40
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.31	0.83	1.95	2.69	3.68	4.97
Roller Cam	85.43	88.87	89.83	90.80	91.71	94.57	96.74	97.24	97.82	98.40	98.41	98.43	98.44
OHC/AdvOHV-4 Cylinder	3.24	3.21	3.09	2.88	2.81	2.28	1.69	1.69	1.68	1.67	1.66	1.64	1.63
OHC/AdvOHV-6 Cylinder	21.78	22.51	22.53	22.99	23.02	21.49	20.19	20.24	20.30	20.39	20.49	20.62	20.78
OHC/AdvOHV-8 Cylinder	13.67	14.05	13.63	14.28	14.12	13.84	13.20	13.26	13.32	13.41	13.50	13.60	13.70
4-Valve/4-Cylinder	27.93	27.11	28.81	26.78	27.56	27.81	28.29	28.15	28.02	27.80	27.64	27.40	27.22
4-Valve/6-Cylinder	16.17	15.70	15.16	15.94	15.73	18.80	21.33	21.40	21.45	21.49	21.50	21.53	21.50
4-Valve/8-Cylinder	6.29	6.29	5.93	6.47	6.34	8.03	9.73	9.79	9.84	9.89	9.89	9.91	9.91
5-Valve/6-Cylinder	0.84	1.11	1.08	1.10	1.07	1.07	1.07	1.06	1.05	1.05	1.04	1.03	1.02

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
VVT-4 Cylinder	9.27	12.04	15.48	18.97	20.87	24.91	26.25	26.63	27.49	27.77	27.59	27.40	27.15
VVT-6 Cylinder	1.83	1.99	2.08	2.62	3.00	7.16	12.69	12.88	13.11	13.46	13.60	13.86	14.05
VVT-8 Cylinder	0.28	0.47	0.60	1.03	1.31	4.18	7.52	7.60	7.72	7.92	8.00	8.19	8.31
VVL-4 Cylinder	3.43	3.34	3.52	3.59	3.85	5.83	7.44	7.55	7.65	7.74	7.74	7.76	7.71
VVL-6 Cylinder	0.24	0.36	0.56	0.88	1.19	3.00	4.80	4.96	5.14	5.36	5.45	5.62	5.70
VVL-8 Cylinder	0.60	0.65	0.66	0.82	0.82	0.98	1.20	1.28	1.38	1.53	1.63	1.77	1.88
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.23	0.36
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.13	0.22	0.36	0.52
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.11	0.18	0.27	0.39	0.53
Cylinder Deactivation	0.00	0.00	0.00	0.03	0.14	0.77	2.73	2.90	3.03	3.51	3.83	4.62	5.27
Turbocharging/Supercharging	0.02	0.11	0.22	0.40	0.55	1.04	1.47	1.57	1.68	1.79	1.89	2.05	2.12
Engine Friction Reduction I	58.34	63.90	64.65	66.40	68.89	64.54	55.87	55.79	55.42	52.85	51.55	47.29	45.36
Engine Friction Reduction II	10.27	12.12	12.84	15.24	17.38	34.38	43.26	43.39	43.80	46.35	47.36	51.08	51.93
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.38	0.78	1.58	2.70
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	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14	0.27	0.47	0.67	0.96	1.32
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.12	0.21	0.35	0.50	0.70	0.96
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.16	0.29	0.51	0.71	1.01	1.34
5W-30 Engine Oil	38.85	41.19	40.82	41.22	41.07	58.08	54.52	54.61	54.47	52.63	51.48	48.66	46.57
5W-20 Engine Oil	0.00	0.00	0.09	0.40	1.30	9.70	20.22	21.28	23.14	27.43	29.67	34.63	37.91
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	0.00	0.00	0.02	0.10	0.53	2.34	2.67	3.39	4.84	5.97	8.17	10.09
Improved Alternator	0.00	0.00	0.00	0.00	0.03	0.32	1.21	1.34	1.68	2.19	2.56	3.19	3.68
Improved Oil/Water Pump	0.13	0.91	1.86	3.42	5.87	20.95	30.99	31.58	32.84	36.04	37.07	41.10	42.76
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.19	0.38	0.63	1.00	1.39
Tires II	46.61	54.21	53.85	55.57	57.49	77.42	75.13	74.83	73.28	70.64	69.42	66.52	64.13
Tires III	0.00	0.00	0.00	0.00	0.08	1.81	8.86	9.86	12.49	16.93	19.45	24.49	28.35
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	50.72	49.52	50.70	48.58	48.95	48.39	48.36	48.16	47.96	47.61	47.33	46.96	46.63
Four Wheel Drive Improvements	0.03	0.16	0.30	0.51	0.81	2.71	5.26	5.32	5.42	5.57	5.61	5.71	5.75
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.02	0.14	0.38	0.52	0.71	0.92	1.11	1.33
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.02	0.14	0.38	0.52	0.71	0.92	1.11	1.32	1.51
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
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	0.00	0.00

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Car													
Unit Body Construction	93.37	93.38	93.39	93.38	93.37	93.38	93.38	93.39	93.39	93.38	93.40	93.38	0.0%
Material Substitution II	54.56	54.55	54.55	54.54	54.53	54.53	54.52	54.52	54.52	54.51	54.51	54.51	0.3%
Material Substitution III	9.26	9.49	9.73	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	16.2%
Material Substitution IV	2.43	2.86	3.23	3.59	3.89	4.19	4.36	4.52	4.66	4.71	4.74	4.77	N/A
Material Substitution V	0.02	0.11	0.25	0.44	0.69	0.97	1.25	1.55	1.86	2.18	2.44	2.71	N/A
Drag Reduction II	47.98	46.37	45.14	44.04	43.21	42.38	41.66	40.96	40.42	39.91	39.65	39.35	-1.5%
Drag Reduction III	28.27	28.72	29.18	29.48	29.49	29.47	29.46	29.45	29.44	29.45	29.44	29.45	16.3%
Drag Reduction IV	16.76	17.55	17.76	17.96	18.12	18.14	18.15	18.15	18.15	18.15	18.14	18.15	26.1%
Drag Reduction V	1.73	2.52	3.39	4.30	5.26	6.29	7.21	8.09	8.80	9.48	9.83	10.22	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	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	N/A
Advanced Low Loss Torque Converter	61.54	62.91	64.56	65.72	65.72	65.70	65.69	65.67	65.66	65.66	65.64	65.64	7.2%
Early Torque Converter Lockup	44.08	46.89	48.02	49.25	50.28	50.38	50.42	50.41	50.41	50.41	50.40	50.41	27.6%
Aggressive Shift Logic	10.85	11.11	11.38	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	5.6%
4-Speed Automatic	57.28	56.78	56.32	56.06	55.97	55.69	55.56	55.51	55.46	55.45	55.39	55.38	-1.1%
5-Speed Automatic	9.27	9.32	9.38	9.40	9.40	9.40	9.40	9.40	9.39	9.40	9.39	9.40	0.7%
6-Speed Automatic	2.18	2.36	2.48	2.58	2.62	2.84	2.91	2.92	2.92	2.92	2.91	2.92	N/A
6-Speed Manual	3.81	3.86	3.89	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	5.4%
CVT	5.24	5.44	5.63	5.76	5.81	5.85	5.91	5.95	5.98	6.01	6.03	6.08	16.6%
Automated Manual Trans	10.13	10.19	10.26	10.30	10.30	10.31	10.31	10.32	10.32	10.32	10.33	10.32	N/A
Roller Cam	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	97.50	0.1%
OHC/AdvOHV-4 Cylinder	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	-0.6%
OHC/AdvOHV-6 Cylinder	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.84	3.85	3.84	3.85	-1.3%
OHC/AdvOHV-8 Cylinder	3.00	2.99	2.99	2.99	2.99	2.99	2.99	2.98	2.98	2.98	2.98	2.99	-0.3%
4-Valve/4-Cylinder	48.62	48.63	48.66	48.62	48.60	48.63	48.63	48.64	48.67	48.65	48.69	48.65	0.2%
4-Valve/6-Cylinder	23.66	23.66	23.65	23.66	23.67	23.66	23.66	23.66	23.65	23.66	23.64	23.66	0.1%
4-Valve/8-Cylinder	9.34	9.34	9.33	9.34	9.35	9.34	9.34	9.33	9.33	9.34	9.33	9.34	0.2%
5-Valve/6-Cylinder	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	0.0%
VVT-4 Cylinder	47.75	47.57	47.31	47.02	46.74	46.48	46.19	46.01	45.85	45.71	45.33	45.10	3.1%
VVT-6 Cylinder	7.59	7.71	7.83	7.90	7.90	7.88	7.88	7.88	7.88	7.87	7.86	7.87	3.4%
VVT-8 Cylinder	3.66	3.67	3.69	3.70	3.64	3.58	3.49	3.45	3.35	3.31	3.30	3.29	6.9%
VVL-4 Cylinder	9.41	9.51	9.62	9.69	9.69	9.69	9.62	9.34	9.13	9.03	8.84	8.72	1.3%
VVL-6 Cylinder	4.10	4.16	4.24	4.30	4.28	4.27	4.27	4.26	4.26	4.16	4.12	4.10	9.2%
VVL-8 Cylinder	1.95	1.92	1.95	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.9%
Camless Valve Actuation-4cyl	1.11	1.45	1.94	2.38	2.83	3.22	3.62	3.92	4.22	4.38	4.97	5.24	N/A
Camless Valve Actuation-6cyl	1.34	1.74	2.11	2.48	2.79	3.11	3.38	3.63	3.76	4.16	4.32	4.38	N/A
Camless Valve Actuation-8cyl	1.23	1.40	1.53	1.66	1.80	1.93	2.07	2.14	2.29	2.37	2.38	2.39	N/A
Cylinder Deactivation	3.03	3.34	3.67	3.99	4.15	4.31	4.46	4.47	4.47	4.47	4.47	4.47	N/A
Turbocharging/Supercharging	2.30	2.33	2.38	2.42	2.42	2.43	2.43	2.43	2.43	2.43	2.43	2.43	13.3%
Engine Friction Reduction I	52.43	50.95	49.33	47.54	45.88	44.13	42.53	40.93	39.89	38.81	37.77	36.75	-2.7%
Engine Friction Reduction II	42.56	42.61	42.71	42.79	42.79	42.78	42.78	42.78	42.77	42.78	42.75	42.75	2.8%
Engine Friction Reduction III	5.01	6.43	7.93	9.49	10.83	12.14	13.13	14.03	14.29	14.54	14.74	14.81	N/A
Engine Friction Reduction IV	0.00	0.00	0.03	0.18	0.50	0.95	1.56	2.27	3.04	3.87	4.75	5.69	N/A
Stoichiometric GDI/4-Cylinder	2.42	2.86	3.24	3.61	3.90	4.19	4.36	4.94	5.19	5.27	5.32	5.37	N/A
Stoichiometric GDI/6-Cylinder	1.95	2.27	2.55	2.83	3.05	3.27	3.38	3.70	3.83	3.87	3.88	3.90	N/A
Lean Burn GDI	2.75	3.20	3.57	3.92	4.20	4.48	4.62	4.79	4.91	4.92	4.93	4.93	N/A
5W-30 Engine Oil	40.90	40.86	40.82	40.81	40.80	40.78	40.78	40.77	40.77	40.77	40.77	40.78	0.0%
5W-20 Engine Oil	27.88	29.09	30.67	31.52	32.44	33.24	33.50	33.49	33.48	33.49	33.48	33.49	N/A
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	N/A
Electric Power Steering	10.93	12.70	14.28	15.82	16.87	17.58	17.95	18.14	18.27	18.41	18.51	18.70	N/A
Improved Alternator	3.14	3.49	3.84	4.11	4.38	4.50	4.64	4.75	4.75	4.75	4.75	4.75	N/A
Improved Oil/Water Pump	28.53	28.98	29.45	29.75	29.76	29.75	29.75	29.75	29.74	29.75	29.73	29.75	17.8%

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Electric Oil/Water Pump	1.95	2.36	2.78	3.14	3.50	3.80	4.10	4.26	4.43	4.56	4.60	4.64	N/A
Tires II	65.16	64.85	63.84	63.00	62.02	60.63	59.04	57.54	56.29	54.91	53.41	51.99	-0.5%
Tires III	20.63	22.36	24.73	26.76	28.03	28.77	29.73	30.52	30.68	30.69	30.67	30.69	N/A
Tires IV	0.00	0.05	0.24	0.71	1.45	2.53	3.89	5.44	7.15	8.97	10.91	12.74	N/A
Front Wheel Drive	82.65	82.65	82.65	82.65	82.65	82.65	82.65	82.65	82.64	82.65	82.64	82.65	0.0%
Four Wheel Drive Improvements	1.91	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.02	2.03	12.1%
42V-Launch Assist and Regen	1.32	1.52	1.68	1.84	1.96	2.08	2.13	2.20	2.24	2.25	2.25	2.25	N/A
42V-Engine Off at Idle	1.52	1.68	1.84	1.96	2.08	2.13	2.20	2.24	2.25	2.25	2.25	2.25	N/A
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	N/A
Increased Size/Weight	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	10.5%
Variable Compression Ratio	0.00	0.02	0.11	0.24	0.40	0.61	0.82	1.04	1.31	1.55	1.79	1.98	N/A
Light Truck													
Unit Body Construction	35.02	35.02	35.02	35.00	34.99	34.99	34.99	34.99	35.01	35.01	35.04	35.02	2.7%
Material Substitution II	64.83	64.75	64.67	64.58	64.48	64.35	64.26	64.16	64.10	64.05	63.99	63.94	3.2%
Material Substitution III	14.17	14.24	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29	26.4%
Material Substitution IV	0.70	1.01	1.35	1.70	2.06	2.44	2.80	3.15	3.47	3.79	3.94	4.13	N/A
Material Substitution V	0.00	0.00	0.00	0.00	0.02	0.06	0.13	0.24	0.39	0.56	0.73	0.91	N/A
Drag Reduction II	20.28	17.44	15.38	13.84	12.75	11.55	10.45	9.81	9.15	8.50	8.01	7.48	-7.2%
Drag Reduction III	56.70	57.43	56.94	56.24	55.69	55.08	54.29	53.89	53.49	53.03	52.51	51.96	18.1%
Drag Reduction IV	22.99	25.01	27.34	29.20	30.25	31.28	32.28	32.35	32.35	32.35	32.34	32.35	N/A
Drag Reduction V	0.03	0.12	0.34	0.71	1.31	2.08	2.98	3.96	5.01	6.12	7.13	8.22	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	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	N/A
Advanced Low Loss Torque Converter	63.32	68.58	73.97	76.08	78.68	80.60	80.69	80.69	80.69	80.65	80.64	80.64	N/A
Early Torque Converter Lockup	46.69	51.81	56.26	60.60	62.41	64.58	66.39	66.42	66.41	66.38	66.37	66.36	N/A
Aggressive Shift Logic	12.77	14.49	15.72	16.93	17.38	17.84	18.27	18.29	18.29	18.29	18.29	18.29	N/A
4-Speed Automatic	78.70	77.43	76.08	75.02	73.93	72.81	71.71	70.92	70.73	70.01	69.75	69.65	-0.8%
5-Speed Automatic	10.19	10.24	10.24	10.23	10.24	10.23	10.23	10.23	10.23	10.23	10.23	10.23	2.2%
6-Speed Automatic	1.28	1.70	2.07	2.42	2.75	3.08	3.38	3.67	3.80	4.26	4.42	4.45	N/A
6-Speed Manual	5.03	5.03	5.02	5.03	5.03	5.03	5.03	5.03	5.02	5.03	5.02	5.02	16.9%
CVT	0.43	0.59	0.74	0.89	1.04	1.18	1.31	1.44	1.52	1.77	1.90	1.95	N/A
Automated Manual Trans	1.42	2.35	3.28	3.90	4.54	5.19	5.86	6.23	6.22	6.23	6.21	6.23	N/A
Roller Cam	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	99.23	0.9%
OHC/AdvOHV-4 Cylinder	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.46	-7.8%
OHC/AdvOHV-6 Cylinder	35.13	35.14	35.14	35.13	35.13	35.13	35.13	35.13	35.14	35.14	35.16	35.15	-0.6%
OHC/AdvOHV-8 Cylinder	22.80	22.79	22.79	22.79	22.80	22.80	22.79	22.80	22.80	22.80	22.79	22.79	-0.4%
4-Valve/4-Cylinder	9.05	9.05	9.05	9.05	9.06	9.05	9.05	9.05	9.04	9.05	9.04	9.05	1.2%
4-Valve/6-Cylinder	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.67	19.66	3.9%
4-Valve/8-Cylinder	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39	4.7%
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	N/A
VVT-4 Cylinder	9.49	9.44	9.35	9.21	9.01	8.77	8.50	8.10	7.72	7.35	6.98	6.61	6.2%
VVT-6 Cylinder	19.76	19.72	19.67	19.61	19.54	19.45	19.36	19.27	19.18	19.09	19.01	18.88	20.0%
VVT-8 Cylinder	12.36	12.29	12.22	12.14	12.04	11.95	11.85	11.75	11.65	11.55	11.44	11.38	18.8%
VVL-4 Cylinder	6.24	5.89	5.52	5.11	4.66	4.28	4.20	4.10	4.00	3.84	3.76	3.70	21.4%
VVL-6 Cylinder	7.16	7.11	7.01	6.89	6.77	6.63	6.52	6.52	6.52	6.52	6.52	6.52	17.1%
VVL-8 Cylinder	2.02	2.27	2.51	2.76	2.87	2.99	3.09	3.09	3.09	3.09	3.09	3.09	N/A
Camless Valve Actuation-4cyl	0.02	0.06	0.15	0.29	0.50	0.74	1.02	1.41	1.77	2.16	2.51	2.89	N/A
Camless Valve Actuation-6cyl	0.22	0.42	0.71	1.04	1.40	1.89	2.35	2.82	3.26	3.70	4.11	4.53	N/A
Camless Valve Actuation-8cyl	0.27	0.44	0.62	0.82	1.08	1.31	1.56	1.80	2.06	2.30	2.55	2.69	N/A
Cylinder Deactivation	8.36	9.21	9.60	9.92	10.17	10.17	10.17	10.17	10.17	10.17	10.16	10.17	N/A
Turbocharging/Supercharging	2.10	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	15.4%
Engine Friction Reduction I	34.68	31.00	27.94	24.63	20.87	17.27	14.22	11.06	8.62	7.53	6.70	5.63	-9.7%

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Engine Friction Reduction II	61.57	62.71	62.70	62.64	62.43	62.16	61.93	60.97	59.66	57.19	55.16	53.09	17.2%
Engine Friction Reduction III	3.75	6.30	9.30	12.54	16.16	19.42	21.68	24.48	26.70	28.55	29.58	30.84	N/A
Engine Friction Reduction IV	0.00	0.00	0.05	0.19	0.53	1.15	2.16	3.48	5.03	6.73	8.55	10.44	N/A
Stoichiometric GDI/4-Cylinder	1.04	1.44	1.82	2.20	2.57	2.83	2.76	2.61	2.45	2.43	2.28	2.06	N/A
Stoichiometric GDI/6-Cylinder	0.67	0.97	1.29	1.71	2.10	2.50	2.84	3.07	3.28	3.48	3.54	3.88	N/A
Lean Burn GDI	0.90	1.33	1.78	2.28	2.79	3.31	3.77	4.10	4.40	4.67	4.52	4.56	N/A
5W-30 Engine Oil	47.59	46.11	44.60	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	0.1%
5W-20 Engine Oil	52.41	53.89	55.40	56.57	56.57	56.57	56.57	56.57	56.57	56.57	56.57	56.57	N/A
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	N/A
Electric Power Steering	12.64	13.57	14.16	14.78	15.63	16.45	16.94	17.20	17.40	17.52	17.57	17.74	N/A
Improved Alternator	5.06	5.52	5.98	6.18	6.40	6.57	6.59	6.59	6.59	6.59	6.59	6.59	N/A
Improved Oil/Water Pump	57.38	58.23	58.22	58.22	58.22	58.22	58.22	58.23	58.23	58.22	58.22	58.22	18.7%
Electric Oil/Water Pump	1.70	2.18	2.70	3.24	3.77	4.31	4.83	5.35	5.65	5.94	6.17	6.27	N/A
Tires II	58.72	54.81	50.88	48.89	46.11	43.10	40.55	37.64	34.50	31.03	27.90	25.87	-2.8%
Tires III	41.28	45.13	48.88	50.36	52.17	53.47	53.62	53.62	53.62	53.62	53.59	53.46	N/A
Tires IV	0.00	0.07	0.24	0.75	1.72	3.43	5.83	8.74	11.88	15.35	18.50	20.67	N/A
Front Wheel Drive	16.02	16.03	16.05	16.02	16.01	16.02	16.02	16.03	16.05	16.04	16.09	16.05	0.2%
Four Wheel Drive Improvements	9.01	9.41	9.45	9.45	9.46	9.45	9.45	9.45	9.45	9.45	9.45	9.45	19.2%
42V-Launch Assist and Regen	1.68	1.86	2.02	2.18	2.24	2.33	2.39	2.39	2.40	2.40	2.40	2.40	N/A
42V-Engine Off at Idle	1.86	2.02	2.18	2.24	2.33	2.39	2.39	2.40	2.40	2.40	2.40	2.40	N/A
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	N/A
Increased Size/Weight	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	10.5%
Variable Compression Ratio	0.00	0.02	0.07	0.15	0.26	0.42	0.58	0.75	0.96	1.15	1.33	1.49	N/A
Light-Duty Vehicle Total													
Unit Body Construction	61.58	61.35	61.13	60.89	60.63	60.42	60.18	59.97	59.76	59.52	59.29	58.99	0.2%
Material Substitution II	60.16	60.15	60.14	60.13	60.11	60.07	60.06	60.03	60.03	60.04	60.05	60.07	1.6%
Material Substitution III	11.93	12.10	12.25	12.34	12.36	12.37	12.39	12.41	12.42	12.44	12.46	12.48	19.9%
Material Substitution IV	1.48	1.84	2.19	2.54	2.87	3.20	3.47	3.74	3.98	4.17	4.27	4.39	N/A
Material Substitution V	0.01	0.05	0.11	0.20	0.31	0.45	0.62	0.80	1.01	1.24	1.44	1.65	N/A
Drag Reduction II	32.89	30.49	28.69	27.24	26.13	24.98	23.92	23.13	22.41	21.69	21.16	20.57	-3.7%
Drag Reduction III	43.76	44.48	44.52	44.38	44.18	43.93	43.58	43.43	43.29	43.13	42.92	42.72	17.6%
Drag Reduction IV	20.15	21.65	23.06	24.21	24.92	25.56	26.18	26.27	26.33	26.39	26.44	26.52	32.1%
Drag Reduction V	0.80	1.20	1.70	2.30	3.05	3.91	4.80	5.72	6.62	7.53	8.26	9.04	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	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	N/A
Advanced Low Loss Torque Converter	62.51	66.02	69.76	71.49	72.99	74.11	74.22	74.27	74.32	74.36	74.41	74.48	11.0%
Early Torque Converter Lockup	45.50	49.59	52.57	55.57	57.08	58.40	59.50	59.57	59.63	59.68	59.73	59.81	32.4%
Aggressive Shift Logic	11.90	12.97	13.78	14.55	14.83	15.11	15.38	15.42	15.44	15.47	15.50	15.53	10.2%
4-Speed Automatic	68.95	68.11	67.24	66.61	66.04	65.35	64.74	64.33	64.26	63.89	63.78	63.79	-0.8%
5-Speed Automatic	9.77	9.83	9.85	9.87	9.87	9.87	9.87	9.87	9.88	9.88	9.88	9.89	1.4%
6-Speed Automatic	1.69	2.00	2.25	2.49	2.69	2.97	3.18	3.35	3.43	3.70	3.79	3.82	N/A
6-Speed Manual	4.47	4.50	4.52	4.54	4.54	4.54	4.55	4.55	4.56	4.56	4.56	4.57	8.7%
CVT	2.62	2.78	2.93	3.05	3.13	3.22	3.30	3.37	3.41	3.55	3.61	3.64	17.5%
Automated Manual Trans	5.38	5.89	6.40	6.74	7.07	7.42	7.78	7.98	7.96	7.94	7.93	7.91	N/A
Roller Cam	98.45	98.45	98.46	98.47	98.47	98.48	98.49	98.50	98.50	98.51	98.51	98.52	0.4%
OHC/AdvOHV-4 Cylinder	1.62	1.61	1.60	1.59	1.58	1.57	1.56	1.55	1.54	1.53	1.52	1.51	-3.2%
OHC/AdvOHV-6 Cylinder	20.90	21.03	21.15	21.26	21.39	21.51	21.63	21.75	21.87	22.00	22.15	22.30	0.0%
OHC/AdvOHV-8 Cylinder	13.79	13.86	13.93	14.01	14.10	14.17	14.25	14.32	14.40	14.48	14.56	14.66	0.2%
4-Valve/4-Cylinder	27.06	26.90	26.76	26.60	26.43	26.29	26.13	25.99	25.84	25.67	25.51	25.31	-0.3%
4-Valve/6-Cylinder	21.48	21.47	21.45	21.44	21.42	21.40	21.39	21.37	21.35	21.34	21.32	21.30	1.3%
4-Valve/8-Cylinder	9.91	9.92	9.92	9.93	9.93	9.93	9.94	9.94	9.94	9.95	9.95	9.96	2.0%
5-Valve/6-Cylinder	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	-0.9%

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
VVT-4 Cylinder	26.90	26.64	26.33	25.98	25.58	25.19	24.76	24.32	23.89	23.45	22.92	22.42	2.7%
VVT-6 Cylinder	14.22	14.30	14.37	14.42	14.43	14.41	14.41	14.40	14.39	14.38	14.38	14.36	9.0%
VVT-8 Cylinder	8.40	8.40	8.40	8.39	8.35	8.30	8.24	8.20	8.13	8.09	8.05	8.06	13.2%
VVL-4 Cylinder	7.68	7.52	7.35	7.15	6.87	6.64	6.54	6.34	6.18	6.02	5.87	5.76	2.4%
VVL-6 Cylinder	5.77	5.78	5.77	5.74	5.68	5.60	5.55	5.55	5.56	5.53	5.52	5.52	12.6%
VVL-8 Cylinder	1.99	2.11	2.26	2.41	2.47	2.54	2.61	2.61	2.61	2.62	2.62	2.63	6.3%
Camless Valve Actuation-4cyl	0.51	0.69	0.95	1.22	1.53	1.82	2.14	2.48	2.81	3.09	3.53	3.85	N/A
Camless Valve Actuation-6cyl	0.73	1.02	1.34	1.68	2.01	2.42	2.79	3.16	3.47	3.89	4.20	4.47	N/A
Camless Valve Actuation-8cyl	0.71	0.87	1.03	1.19	1.39	1.58	1.78	1.95	2.16	2.33	2.48	2.57	N/A
Cylinder Deactivation	5.93	6.56	6.94	7.29	7.53	7.62	7.71	7.73	7.75	7.78	7.80	7.83	N/A
Turbocharging/Supercharging	2.19	2.23	2.25	2.27	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	14.1%
Engine Friction Reduction I	42.76	40.00	37.51	34.79	31.86	28.96	26.44	23.84	21.88	20.66	19.61	18.41	-5.3%
Engine Friction Reduction II	52.92	53.64	53.76	53.84	53.80	53.72	53.67	53.19	52.50	51.14	50.00	48.84	6.2%
Engine Friction Reduction III	4.32	6.36	8.69	11.19	13.82	16.25	17.99	20.01	21.44	22.67	23.41	24.26	N/A
Engine Friction Reduction IV	0.00	0.00	0.04	0.18	0.52	1.06	1.90	2.96	4.19	5.53	6.97	8.49	N/A
Stoichiometric GDI/4-Cylinder	1.67	2.08	2.45	2.82	3.15	3.42	3.45	3.61	3.61	3.62	3.54	3.42	N/A
Stoichiometric GDI/6-Cylinder	1.25	1.56	1.86	2.21	2.52	2.83	3.07	3.34	3.51	3.64	3.68	3.89	N/A
Lean Burn GDI	1.74	2.17	2.58	3.01	3.41	3.82	4.13	4.40	4.61	4.78	4.69	4.71	N/A
5W-30 Engine Oil	44.54	43.74	42.91	42.27	42.27	42.27	42.28	42.29	42.30	42.31	42.32	42.34	0.1%
5W-20 Engine Oil	41.24	42.70	44.34	45.46	45.97	46.41	46.62	46.70	46.78	46.88	46.98	47.09	N/A
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	N/A
Electric Power Steering	11.86	13.17	14.21	15.24	16.17	16.94	17.38	17.60	17.77	17.89	17.96	18.14	N/A
Improved Alternator	4.18	4.60	5.03	5.26	5.51	5.67	5.75	5.80	5.81	5.82	5.83	5.84	N/A
Improved Oil/Water Pump	44.25	45.03	45.35	45.60	45.72	45.82	45.94	46.04	46.15	46.27	46.39	46.53	18.7%
Electric Oil/Water Pump	1.81	2.26	2.74	3.20	3.65	4.09	4.52	4.89	5.13	5.36	5.52	5.60	N/A
Tires II	61.65	59.34	56.68	55.15	53.10	50.73	48.53	46.15	43.74	41.05	38.50	36.59	-1.7%
Tires III	31.88	34.86	38.08	39.89	41.57	42.71	43.31	43.74	43.89	43.99	44.07	44.11	N/A
Tires IV	0.00	0.06	0.24	0.73	1.60	3.04	5.00	7.33	9.87	12.67	15.35	17.42	N/A
Front Wheel Drive	46.35	46.08	45.83	45.57	45.28	45.03	44.77	44.53	44.29	44.00	43.74	43.40	-0.6%
Four Wheel Drive Improvements	5.78	6.07	6.13	6.16	6.19	6.22	6.25	6.28	6.30	6.33	6.36	6.40	17.5%
42V-Launch Assist and Regen	1.52	1.71	1.87	2.03	2.12	2.22	2.28	2.31	2.33	2.33	2.34	2.34	N/A
42V-Engine Off at Idle	1.71	1.87	2.03	2.12	2.22	2.28	2.31	2.33	2.33	2.34	2.34	2.34	N/A
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	N/A
Increased Size/Weight	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	10.5%
Variable Compression Ratio	0.00	0.02	0.08	0.19	0.32	0.50	0.69	0.88	1.11	1.32	1.52	1.69	N/A

Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)

Source: Energy Information Administration, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Gasoline													
Mini-compact Cars	24.55	24.95	25.11	25.18	25.20	25.92	25.91	25.78	26.07	26.55	26.71	26.99	27.15
Subcompact Cars	31.03	30.99	31.04	30.95	30.80	30.86	30.73	30.48	30.66	31.00	31.16	31.51	31.77
Compact Cars	30.25	30.24	30.31	30.29	30.15	30.42	30.33	30.11	30.30	30.62	30.78	31.12	31.38
Midsize Cars	26.72	26.73	26.81	26.78	26.69	26.94	26.87	26.67	26.83	27.11	27.23	27.51	27.67
Large Cars	25.23	25.23	25.24	25.16	25.02	25.06	24.94	24.75	24.92	25.22	25.35	25.61	25.82
Two Seater Cars	24.93	25.08	25.11	25.11	25.01	25.12	25.06	24.90	25.11	25.42	25.59	25.90	26.11
Small Pickup	22.29	22.33	22.39	22.39	22.53	23.99	24.99	24.70	24.72	24.80	24.87	25.06	25.23
Large Pickup	18.90	18.89	18.92	18.87	18.98	19.64	20.20	20.00	20.06	20.21	20.31	20.52	20.64
Small Van	23.20	23.19	23.22	23.14	23.20	24.43	25.09	24.80	24.81	24.87	24.92	25.06	25.17
Large Van	18.11	18.08	18.11	18.10	18.23	18.84	19.53	19.34	19.41	19.60	19.69	19.91	20.03
Small Utility	21.18	21.23	21.30	21.30	21.45	22.94	23.98	23.71	23.75	23.85	23.93	24.14	24.29
Large Utility	17.54	17.53	17.56	17.52	17.63	18.22	18.87	18.70	18.78	18.96	19.07	19.28	19.41
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	0.00	0.00	0.00	41.29	41.17	41.05	40.96
Compact Cars	40.73	40.51	40.56	40.35	40.09	39.88	39.60	39.23	39.30	39.48	39.53	39.69	39.83
Midsize Cars	0.00	0.00	0.00	35.88	35.58	35.30	35.03	34.68	34.73	34.84	34.88	34.99	35.06
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	33.41	33.00	32.97	32.99	33.00	33.10	33.19
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	32.68	32.29	32.24	32.18	32.12	32.10	32.11
Large Pickup	25.45	25.37	25.38	25.23	25.23	26.07	26.47	26.14	26.12	26.13	26.14	26.20	26.24
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.34	33.22	33.11	33.03
Large Van	24.39	24.32	24.33	24.23	24.26	24.96	25.58	25.26	25.26	25.29	25.31	25.43	25.48
Small Utility	0.00	0.00	0.00	28.51	28.45	29.55	30.58	30.18	30.13	30.12	30.12	30.15	30.18
Large Utility	23.62	23.56	23.57	23.43	23.46	24.09	24.69	24.38	24.38	24.43	24.47	24.60	24.66
Methanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol Flex													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	27.25	27.25	27.32	27.28	27.17	27.42	27.34	27.14	27.31	27.60	27.72	27.99	28.16
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	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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	27.78	27.77	27.84	27.79	27.67	27.92	27.82	27.61	27.79	28.09	28.20	28.47	28.65
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	30.93	30.86	30.88	30.97
Compact Cars	30.55	30.54	30.60	30.58	30.43	30.67	30.58	30.34	30.53	30.86	31.02	31.36	31.63
Midsize Cars	26.98	26.99	27.06	27.02	26.92	27.18	27.10	26.90	27.07	27.35	27.47	27.75	27.93
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	25.03	24.74	24.80	24.98	25.13	25.42	25.63
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	22.51	22.55	22.61	22.60	22.74	24.21	25.28	24.99	25.02	25.10	25.17	25.36	25.54
Large Pickup	19.09	19.08	19.11	19.06	19.18	19.85	20.50	20.29	20.35	20.51	20.60	20.81	20.96
Small Van	23.43	23.41	23.45	23.36	23.42	24.67	25.38	25.09	25.11	25.18	25.22	25.37	25.48
Large Van	0.00	0.00	0.00	0.00	18.27	18.57	19.10	18.91	18.99	19.25	19.38	19.71	19.92
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	23.59	23.46	23.65	23.89	24.09	24.37	24.65
Large Utility	17.71	17.70	17.73	17.71	17.81	18.41	19.13	18.95	19.04	19.22	19.33	19.56	19.68
Compressed Natural Gas (CNG)													
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	32.66	32.60	32.69	32.69	32.55	32.63	32.52	32.28	32.45	32.74	32.89	33.15	33.42
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	27.24	27.20	27.21	27.10	26.93	26.91	26.74	26.51	26.64	26.88	26.97	27.21	27.39
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	20.40	20.37	20.39	20.29	20.37	21.04	21.48	21.24	21.26	21.34	21.39	21.54	21.63
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	19.54	19.51	19.53	19.50	19.60	20.17	20.80	20.57	20.60	20.74	20.79	20.94	21.04
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
CNG 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	30.25	30.22	30.31	30.32	30.22	30.39	30.33	30.12	30.30	30.60	30.74	31.05	31.27
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	24.96	24.73	24.52	24.32	24.48	24.74	24.88	25.17	25.33
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	18.90	18.88	18.91	18.82	18.93	19.51	19.93	19.71	19.74	19.84	19.89	20.03	20.09
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	18.11	18.08	18.11	18.09	18.20	18.73	19.32	19.12	19.16	19.30	19.35	19.51	19.58
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Liquefied Petroleum Gas (LPG)													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.65	19.64	19.66	19.60	19.69	20.39	20.96	20.74	20.79	20.93	21.02	21.22	21.36
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	18.83	18.80	18.82	18.80	18.92	19.54	20.25	20.05	20.11	20.29	20.38	20.58	20.70
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
LPG 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	0.00	0.00	0.00	30.10	29.92	29.75	29.57	29.78	30.13	30.31	30.65	30.89
Midsize Cars	0.00	0.00	0.00	0.00	26.61	26.49	26.38	26.21	26.37	26.68	26.81	27.08	27.24
Large Cars	0.00	0.00	0.00	0.00	24.96	24.74	24.54	24.34	24.52	24.80	24.97	25.28	25.47
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	18.90	18.89	18.91	18.84	18.95	19.61	20.16	19.94	19.98	20.12	20.20	20.39	20.49
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	18.11	18.08	18.11	18.11	18.22	18.81	19.50	19.30	19.36	19.53	19.61	19.81	19.92
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	43.95	43.37	43.40	43.48	43.46	43.48	43.45
Subcompact Cars	34.46	34.83	35.60	39.18	43.12	48.02	54.32	53.55	53.53	53.56	53.53	53.54	53.54
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	31.81	32.21	32.92	36.25	39.89	44.43	50.28	49.58	49.57	49.61	49.58	49.59	49.56
Small Pickup	26.27	26.53	27.09	29.80	33.13	37.22	42.42	41.80	41.72	41.63	41.55	41.47	41.40
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	20.14	20.34	20.77	22.85	25.42	28.21	32.19	31.73	31.67	31.59	31.53	31.45	31.41
Small Utility	24.76	25.04	25.58	28.15	31.31	35.97	41.31	40.71	40.63	40.55	40.47	40.39	40.31
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	0.00	0.00	0.00	48.24	48.06	47.86	47.70
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.35	43.16
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	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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	0.00	0.00	0.00	44.82	44.65	44.48
Compact Cars	43.81	43.62	43.68	43.56	43.24	42.91	42.55	42.11	42.13	42.16	42.14	42.17	42.17
Midsize Cars	0.00	0.00	0.00	38.63	38.33	37.96	37.58	37.17	37.16	37.18	37.18	37.22	37.24
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.80	35.70	35.63	35.57	35.53
Two Seater Cars	36.07	36.07	36.07	36.02	35.74	35.47	35.16	34.81	34.85	34.97	35.01	35.12	35.19
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	33.45	33.95	34.48	34.01	33.90	33.78	33.69	33.61	33.54
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	30.58	30.48	31.50	32.32	31.90	31.82	31.75	31.71	31.69	31.67
Large Utility	0.00	0.00	0.00	0.00	25.32	25.41	25.75	25.40	25.33	25.32	25.30	25.38	25.45
Fuel Cell Methanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	62.21	61.41	60.58	59.72	59.70	59.73	59.70	59.71	59.71
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.17
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	45.16	46.00	46.07	45.40	45.31	45.22	45.13	45.04	44.95
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
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.46	38.43	38.42	38.40	38.39	38.37
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	35.66	35.60
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	38.49	38.42
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 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Gasoline													
Mini-compact Cars	27.30	27.41	27.51	27.61	27.67	27.74	27.79	27.87	27.94	28.02	28.09	28.15	0.5%
Subcompact Cars	31.94	32.07	32.22	32.35	32.44	32.54	32.63	32.75	32.85	32.94	33.02	33.08	0.3%
Compact Cars	31.52	31.63	31.76	31.87	31.95	32.03	32.10	32.21	32.29	32.36	32.43	32.48	0.3%
Midsize Cars	27.87	28.00	28.14	28.26	28.36	28.45	28.51	28.59	28.66	28.73	28.78	28.83	0.3%
Large Cars	26.03	26.17	26.32	26.46	26.57	26.67	26.76	26.87	26.96	27.04	27.10	27.16	0.3%
Two Seater Cars	26.28	26.43	26.58	26.70	26.79	26.87	26.95	27.04	27.12	27.21	27.29	27.36	0.4%
Small Pickup	25.44	25.65	25.82	25.95	26.08	26.23	26.36	26.52	26.64	26.77	26.87	26.97	0.8%
Large Pickup	20.80	20.96	21.11	21.23	21.34	21.46	21.54	21.65	21.77	21.89	21.99	22.07	0.7%
Small Van	25.30	25.42	25.53	25.60	25.68	25.78	25.87	25.99	26.11	26.23	26.32	26.43	0.6%
Large Van	20.19	20.37	20.53	20.66	20.77	20.87	20.98	21.13	21.27	21.42	21.55	21.66	0.8%
Small Utility	24.45	24.56	24.69	24.81	24.93	25.05	25.16	25.30	25.42	25.55	25.66	25.78	0.8%
Large Utility	19.58	19.75	19.87	19.98	20.08	20.18	20.28	20.38	20.49	20.61	20.69	20.78	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	N/A
Subcompact Cars	40.92	40.92	40.97	41.04	41.08	41.16	41.24	41.32	41.40	41.45	41.48	41.50	N/A
Compact Cars	39.99	40.06	40.08	40.09	40.09	40.09	40.08	40.11	40.12	40.13	40.13	40.12	0.0%
Midsize Cars	35.12	35.16	35.21	35.23	35.25	35.26	35.25	35.26	35.28	35.29	35.29	35.29	N/A
Large Cars	33.32	33.43	33.55	33.66	33.74	33.82	33.86	33.91	33.95	33.98	34.00	34.02	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	N/A
Small Pickup	32.17	32.27	32.40	32.50	32.55	32.61	32.67	32.76	32.84	32.89	32.92	32.95	N/A
Large Pickup	26.30	26.36	26.43	26.47	26.48	26.50	26.52	26.56	26.60	26.65	26.68	26.71	0.2%
Small Van	32.99	32.98	32.99	33.02	33.03	33.06	33.11	33.18	33.25	33.32	33.37	33.42	N/A
Large Van	25.57	25.65	25.73	25.75	25.78	25.82	25.86	25.93	26.00	26.05	26.11	26.17	0.3%
Small Utility	30.22	30.27	30.33	30.38	30.42	30.47	30.50	30.57	30.64	30.71	30.77	30.84	N/A
Large Utility	24.75	24.83	24.88	24.91	24.95	25.00	25.05	25.12	25.17	25.24	25.30	25.37	0.3%
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	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	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	N/A
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	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	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	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	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	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	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	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	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	N/A
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	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	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	N/A
Midsize Cars	28.36	28.50	28.64	28.77	28.87	28.98	29.05	29.14	29.21	29.28	29.34	29.39	0.3%
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	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	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	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	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	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	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	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	N/A

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	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	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	N/A
Midsize Cars	28.84	29.00	29.14	29.27	29.37	29.47	29.56	29.66	29.73	29.81	29.87	29.93	0.3%
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	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	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	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	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	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	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	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	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	N/A
Subcompact Cars	31.17	31.37	31.63	31.90	32.19	32.44	32.68	32.88	33.07	33.21	33.34	33.45	N/A
Compact Cars	31.78	31.91	32.03	32.15	32.23	32.31	32.39	32.50	32.59	32.66	32.74	32.79	0.3%
Midsize Cars	28.13	28.26	28.40	28.53	28.63	28.73	28.80	28.88	28.95	29.02	29.08	29.13	0.3%
Large Cars	25.86	26.07	26.25	26.44	26.61	26.78	26.92	27.08	27.19	27.29	27.36	27.43	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	N/A
Small Pickup	25.77	25.99	26.17	26.30	26.45	26.60	26.74	26.89	27.02	27.14	27.24	27.34	0.8%
Large Pickup	21.10	21.26	21.41	21.53	21.63	21.75	21.83	21.94	22.07	22.19	22.29	22.37	0.7%
Small Van	25.61	25.74	25.87	25.94	26.03	26.13	26.23	26.36	26.49	26.62	26.72	26.83	0.6%
Large Van	20.15	20.39	20.58	20.73	20.86	20.99	21.08	21.22	21.36	21.50	21.63	21.74	N/A
Small Utility	24.93	25.23	25.49	25.73	25.93	26.09	26.23	26.39	26.55	26.71	26.84	26.99	N/A
Large Utility	19.85	20.01	20.15	20.25	20.36	20.45	20.55	20.66	20.77	20.89	20.96	21.05	0.8%
Compressed Natural Gas (CNG)													
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	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	N/A
Compact Cars	33.57	33.66	33.75	33.83	33.89	33.95	33.99	34.07	34.12	34.16	34.19	34.21	0.2%
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	N/A
Large Cars	27.61	27.71	27.84	27.95	28.03	28.11	28.18	28.27	28.34	28.40	28.43	28.46	0.2%
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	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	N/A
Large Pickup	21.71	21.82	21.92	22.00	22.07	22.15	22.21	22.29	22.38	22.48	22.55	22.64	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	N/A
Large Van	21.13	21.25	21.37	21.46	21.55	21.65	21.71	21.81	21.93	22.04	22.14	22.22	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	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	N/A
CNG 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	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	N/A
Compact Cars	31.37	31.44	31.53	31.61	31.65	31.69	31.72	31.80	31.84	31.87	31.90	31.91	0.2%
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	N/A
Large Cars	25.51	25.66	25.84	25.98	26.07	26.17	26.27	26.34	26.41	26.47	26.51	26.54	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	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	N/A
Large Pickup	20.19	20.30	20.40	20.47	20.52	20.57	20.63	20.71	20.78	20.86	20.90	20.95	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	N/A
Large Van	19.69	19.81	19.91	19.98	20.05	20.12	20.20	20.29	20.39	20.50	20.57	20.66	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	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	N/A

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2022-2025
Liquefied Petroleum Gas (LPG)													
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	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	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	N/A
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	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	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	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	N/A
Large Pickup	21.49	21.65	21.79	21.90	22.01	22.11	22.19	22.30	22.41	22.54	22.63	22.74	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	N/A
Large Van	20.85	21.01	21.17	21.30	21.42	21.55	21.63	21.76	21.90	22.04	22.17	22.26	0.7%
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	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	N/A
LPG 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	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	N/A
Compact Cars	31.08	31.24	31.39	31.52	31.61	31.70	31.78	31.88	31.96	32.02	32.07	32.12	N/A
Midsize Cars	27.43	27.59	27.75	27.91	28.02	28.11	28.18	28.26	28.31	28.37	28.42	28.45	N/A
Large Cars	25.68	25.86	26.06	26.22	26.33	26.46	26.57	26.68	26.76	26.83	26.88	26.93	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	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	N/A
Large Pickup	20.63	20.78	20.91	21.00	21.09	21.18	21.25	21.35	21.45	21.55	21.66	21.73	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	N/A
Large Van	20.07	20.23	20.37	20.47	20.57	20.65	20.74	20.86	20.98	21.12	21.23	21.33	0.7%
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	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	N/A
Electric													
Mini-compact Cars	43.42	43.40	43.37	43.35	43.31	43.28	43.25	43.28	43.31	43.35	43.37	43.39	N/A
Subcompact Cars	53.52	53.49	53.47	53.45	53.41	53.38	53.35	53.39	53.42	53.46	53.48	53.52	1.9%
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	N/A
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	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	N/A
Two Seater Cars	49.54	49.51	49.49	49.47	49.44	49.41	49.37	49.41	49.44	49.47	49.50	49.53	1.9%
Small Pickup	41.33	41.26	41.20	41.14	41.08	41.02	40.96	40.98	40.99	41.00	41.00	41.01	1.9%
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	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	N/A
Large Van	31.35	31.30	31.25	31.19	31.14	31.09	31.04	31.06	31.08	31.10	31.12	31.13	1.9%
Small Utility	40.24	40.17	40.11	40.04	39.97	39.91	39.85	39.88	39.90	39.93	39.95	39.98	2.1%
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	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	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	N/A
Compact Cars	47.60	47.51	47.46	47.43	47.41	47.41	47.41	47.44	47.48	47.50	47.50	47.50	N/A
Midsize Cars	43.02	42.89	42.80	42.73	42.68	42.65	42.63	42.66	42.68	42.70	42.71	42.72	N/A
Large Cars	41.21	41.10	41.01	40.94	40.88	40.83	40.80	40.82	40.85	40.88	40.91	40.94	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	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	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	N/A
Small Van	0.00	40.29	40.15	40.04	39.94	39.87	39.81	39.83	39.86	39.89	39.93	39.98	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	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	39.91	39.83	39.77	39.73	39.72	39.73	N/A
Large Utility	0.00	0.00	0.00	31.67	31.57	31.49	31.44	31.44	31.46	31.49	31.53	31.59	N/A

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	N/A
Subcompact Cars	44.37	44.28	44.24	44.21	44.21	44.22	44.25	44.32	44.39	44.46	44.50	44.54	N/A
Compact Cars	42.18	42.18	42.19	42.20	42.20	42.21	42.20	42.23	42.25	42.27	42.27	42.27	-0.1%
Midsize Cars	37.28	37.29	37.32	37.34	37.35	37.37	37.37	37.40	37.42	37.43	37.44	37.45	N/A
Large Cars	35.52	35.54	35.59	35.67	35.76	35.86	35.96	36.05	36.12	36.17	36.20	36.23	N/A
Two Seater Cars	35.27	35.32	35.36	35.40	35.43	35.45	35.47	35.52	35.57	35.61	35.65	35.68	0.0%
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	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	N/A
Small Van	33.52	33.50	33.49	33.48	33.46	33.46	33.46	33.50	33.55	33.60	33.64	33.68	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	N/A
Small Utility	31.68	31.67	31.68	31.70	31.71	31.74	31.78	31.85	31.92	32.00	32.06	32.13	N/A
Large Utility	25.50	25.56	25.61	25.62	25.64	25.67	25.72	25.79	25.87	25.93	26.00	26.07	N/A
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	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	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	N/A
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	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	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	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	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	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	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	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	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	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	N/A
Subcompact Cars	59.69	59.66	59.63	59.60	59.57	59.53	59.50	59.54	59.58	59.61	59.65	59.68	N/A
Compact Cars	0.00	0.00	0.00	0.00	58.53	58.50	58.47	58.51	58.55	58.59	58.62	58.65	N/A
Midsize Cars	50.15	50.12	50.09	50.06	50.03	50.00	49.97	50.00	50.03	50.06	50.09	50.11	N/A
Large Cars	0.00	0.00	44.81	44.78	44.75	44.73	44.70	44.72	44.75	44.77	44.79	44.82	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	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	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	N/A
Small Van	41.58	41.52	41.45	41.39	41.33	41.27	41.21	41.24	41.27	41.30	41.33	41.35	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	N/A
Small Utility	44.88	44.80	44.73	44.65	44.58	44.51	44.45	44.47	44.50	44.53	44.55	44.58	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	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	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	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	N/A
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	N/A
Large Cars	38.35	38.32	38.29	38.27	38.25	38.23	38.20	38.22	38.24	38.26	38.28	38.30	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	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	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	N/A
Small Van	35.54	35.48	35.42	35.37	35.32	35.27	35.22	35.24	35.27	35.29	35.32	35.34	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	N/A
Small Utility	38.35	38.29	38.22	38.16	38.10	38.04	37.98	38.00	38.03	38.05	38.08	38.10	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	N/A

Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Gasoline													
Mini-compact Cars	54.0	54.1	54.1	54.2	54.4	54.7	54.8	55.0	55.0	55.1	55.1	55.2	55.2
Subcompact Cars	18.6	18.7	18.7	18.8	18.9	19.1	19.3	19.4	19.4	19.5	19.6	19.6	19.7
Compact Cars	18.9	18.9	18.9	19.0	19.2	19.4	19.6	19.7	19.8	19.8	19.9	20.0	20.0
Midsize Cars	25.3	25.4	25.4	25.5	25.6	25.9	26.0	26.2	26.2	26.3	26.4	26.5	26.5
Large Cars	29.9	29.9	29.9	30.0	30.1	30.4	30.5	30.6	30.7	30.7	30.8	30.8	30.9
Two Seater Cars	43.0	43.1	43.1	43.1	43.3	43.5	43.6	43.8	43.8	43.9	43.9	44.0	44.0
Small Pickup	17.7	17.7	17.8	17.8	17.9	18.6	18.9	19.1	19.1	19.1	19.1	19.2	19.2
Large Pickup	24.6	24.7	24.7	24.8	24.8	25.5	25.8	25.9	25.9	25.9	26.0	26.0	26.0
Small Van	26.0	26.1	26.1	26.2	26.2	26.9	27.2	27.3	27.3	27.3	27.3	27.4	27.4
Large Van	22.3	22.4	22.4	22.4	22.5	23.1	23.4	23.5	23.6	23.6	23.6	23.7	23.7
Small Utility	27.0	27.0	27.1	27.1	27.2	27.9	28.2	28.3	28.3	28.3	28.4	28.4	28.4
Large Utility	34.6	34.6	34.6	34.7	34.7	35.4	35.7	35.8	35.8	35.9	35.9	36.0	36.0
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	0.0	0.0	0.0	20.5	20.5	20.6	20.6
Compact Cars	20.3	20.4	20.4	20.5	20.6	20.8	21.0	21.1	21.1	21.2	21.2	21.3	21.3
Midsize Cars	0.0	0.0	0.0	27.0	27.2	27.4	27.5	27.6	27.7	27.7	27.8	27.8	27.9
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	32.0	32.1	32.1	32.1	32.2	32.2	32.3
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	20.8	21.0	21.0	21.0	21.1	21.1	21.2
Large Pickup	26.2	26.2	26.2	26.3	26.3	26.9	27.2	27.3	27.3	27.3	27.4	27.4	27.4
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	29.4	29.4	29.4
Large Van	24.2	24.3	24.3	24.4	24.4	25.0	25.3	25.4	25.4	25.4	25.4	25.5	25.5
Small Utility	0.0	0.0	0.0	29.2	29.2	29.8	30.1	30.2	30.3	30.3	30.3	30.4	30.4
Large Utility	36.1	36.2	36.2	36.2	36.2	36.8	37.1	37.2	37.2	37.3	37.3	37.3	37.4
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
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol Flex													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	27.6	27.7	27.7	27.8	28.0	28.2	28.4	28.5	28.6	28.6	28.7	28.8	28.8
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

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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	27.5	27.5	27.5	27.6	27.8	28.0	28.2	28.3	28.4	28.5	28.5	28.6	28.6
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	19.8	19.8	19.9	19.9
Compact Cars	19.6	19.7	19.7	19.9	20.0	20.2	20.3	20.5	20.5	20.6	20.6	20.7	20.8
Midsize Cars	25.6	25.7	25.7	25.8	26.0	26.2	26.4	26.5	26.6	26.7	26.7	26.8	26.9
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	30.8	30.9	31.0	31.0	31.1	31.1	31.2
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	19.5	19.6	19.7	19.6	19.7	20.4	20.7	20.8	20.8	20.8	20.8	20.9	20.9
Large Pickup	25.7	25.8	25.8	25.8	25.8	26.5	26.7	26.8	26.8	26.9	26.9	26.9	26.9
Small Van	27.1	27.2	27.1	27.2	27.2	27.9	28.1	28.2	28.2	28.3	28.3	28.3	28.3
Large Van	0.0	0.0	0.0	0.0	22.8	23.3	23.6	23.7	23.8	23.8	23.9	23.9	24.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	28.5	28.6	28.6	28.6	28.7	28.7	28.8
Large Utility	35.2	35.3	35.3	35.3	35.4	35.9	36.2	36.3	36.4	36.4	36.4	36.4	36.5
Compressed Natural Gas (CNG)													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	25.0	25.1	25.1	25.2	25.4	25.6	25.8	25.9	26.0	26.0	26.1	26.2	26.2
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	36.4	36.5	36.5	36.5	36.7	36.9	37.0	37.1	37.2	37.2	37.3	37.3	37.4
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	31.1	31.2	31.2	31.3	31.3	32.0	32.3	32.4	32.4	32.4	32.5	32.5	32.6
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	28.8	28.9	28.9	28.9	29.0	29.6	29.9	30.0	30.1	30.1	30.1	30.2	30.2
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
CNG Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	23.9	24.0	24.0	24.1	24.3	24.5	24.7	24.8	24.9	24.9	25.0	25.1	25.2
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	32.7	32.9	33.0	33.1	33.2	33.3	33.3	33.4	33.5
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	30.2	30.3	30.3	30.4	30.4	31.0	31.3	31.4	31.5	31.5	31.6	31.6	31.7
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	27.9	27.9	27.9	28.0	28.1	28.7	29.0	29.1	29.1	29.2	29.2	29.3	29.3
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Liquefied Petroleum Gas (LPG)													
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	30.5	30.5	30.5	30.6	30.6	31.3	31.6	31.7	31.7	31.7	31.8	31.8	31.8
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	28.1	28.2	28.2	28.2	28.3	28.9	29.2	29.4	29.4	29.4	29.4	29.5	29.5
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
LPG 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	0.0	0.0	0.0	20.6	20.8	20.9	21.1	21.1	21.2	21.3	21.4	21.4
Midsize Cars	0.0	0.0	0.0	0.0	27.1	27.3	27.4	27.6	27.7	27.8	27.8	27.9	28.0
Large Cars	0.0	0.0	0.0	0.0	31.6	31.8	31.9	32.0	32.1	32.1	32.2	32.3	32.3
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	29.4	29.4	29.5	29.5	29.6	30.2	30.5	30.6	30.7	30.7	30.7	30.8	30.8
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	27.0	27.1	27.1	27.2	27.2	27.8	28.2	28.3	28.3	28.4	28.4	28.5	28.5
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
Electric													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	68.3	68.0	67.7	67.3	66.9	66.6	66.2
Subcompact Cars	41.8	41.4	41.1	41.0	41.6	42.1	42.7	42.5	42.2	41.9	41.6	41.3	41.0
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	66.9	66.5	66.2	66.1	66.7	67.3	67.9	67.7	67.3	67.0	66.7	66.4	66.1
Small Pickup	43.5	43.1	42.7	42.6	43.2	43.8	44.4	44.2	43.9	43.5	43.2	42.8	42.5
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	51.6	51.0	50.6	50.4	51.2	52.2	53.0	52.7	52.2	51.8	51.3	50.9	50.5
Small Utility	53.5	53.0	52.6	52.5	53.2	53.5	54.1	53.8	53.5	53.1	52.7	52.4	52.0
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
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	0.0	0.0	0.0	22.2	22.2	22.1	22.1
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	29.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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	0.0	0.0	0.0	21.4	21.4	21.4
Compact Cars	25.3	24.5	23.3	22.4	22.3	22.4	22.4	22.4	22.3	22.3	22.3	22.2	22.2
Midsize Cars	0.0	0.0	0.0	27.5	27.6	27.7	27.7	27.8	27.7	27.7	27.7	27.7	27.6
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.2	33.1	33.1	33.1
Two Seater Cars	50.5	49.8	49.2	48.5	48.6	48.7	48.7	48.8	48.7	48.7	48.7	48.6	48.6
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	29.4	29.9	30.0	30.0	30.0	29.9	29.9	29.8	29.8
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	29.5	29.4	29.9	30.1	30.1	30.0	30.0	29.9	29.9	29.8
Large Utility	0.0	0.0	0.0	0.0	38.8	39.2	39.3	39.3	39.3	39.2	39.1	39.1	39.0
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
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	67.8	66.5	65.3	64.1	62.5	61.0	59.5	58.1	56.7
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	69.8
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	91.0	87.5	85.2	83.7	81.6	79.7	77.8	76.0	74.3
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
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	111.7	108.1	104.8	101.5	98.4	95.6
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	100.2	97.2
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	96.1	93.4
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

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Average Price													
Cars	17.9	18.0	17.6	18.0	18.0	18.2	18.4	18.5	18.7	18.8	19.0	19.0	19.1
Trucks	19.3	19.4	19.4	19.4	19.5	20.1	20.7	20.8	20.8	21.1	21.1	21.1	21.1
Light Duty Vehicles	18.6	18.7	18.5	18.7	18.8	19.2	19.6	19.7	19.8	20.0	20.1	20.2	20.2

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Gasoline													
Mini-compact Cars	55.3	55.3	55.4	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	0.1%
Subcompact Cars	19.7	19.8	19.8	19.8	19.9	19.9	19.9	20.0	20.0	20.0	20.0	20.0	0.3%
Compact Cars	20.1	20.1	20.2	20.2	20.2	20.3	20.3	20.3	20.4	20.4	20.4	20.4	0.3%
Midsize Cars	26.6	26.6	26.7	26.7	26.8	26.8	26.8	26.9	26.9	26.9	26.9	26.9	0.3%
Large Cars	30.9	31.0	31.0	31.1	31.1	31.2	31.2	31.2	31.3	31.3	31.3	31.3	0.2%
Two Seater Cars	44.0	44.1	44.1	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.3	44.3	0.1%
Small Pickup	19.2	19.3	19.3	19.3	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.5	0.4%
Large Pickup	26.1	26.1	26.2	26.2	26.2	26.3	26.3	26.3	26.3	26.3	26.4	26.4	0.3%
Small Van	27.5	27.5	27.5	27.6	27.6	27.6	27.7	27.7	27.7	27.8	27.8	27.8	0.3%
Large Van	23.8	23.8	23.9	23.9	23.9	24.0	24.0	24.0	24.1	24.1	24.1	24.1	0.3%
Small Utility	28.5	28.5	28.6	28.6	28.6	28.7	28.7	28.7	28.8	28.8	28.8	28.8	0.3%
Large Utility	36.0	36.1	36.1	36.2	36.2	36.2	36.3	36.3	36.3	36.4	36.4	36.4	0.2%
Turbo Direct Injection Diesel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	20.6	20.6	20.7	20.7	20.7	20.8	20.8	20.8	20.9	20.9	20.9	20.9	N/A
Compact Cars	21.4	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.6	21.6	21.6	21.6	0.3%
Midsize Cars	27.9	28.0	28.0	28.0	28.1	28.1	28.1	28.1	28.2	28.2	28.2	28.2	N/A
Large Cars	32.3	32.3	32.4	32.4	32.4	32.5	32.5	32.5	32.5	32.6	32.6	32.6	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	N/A
Small Pickup	21.2	21.2	21.2	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	N/A
Large Pickup	27.5	27.5	27.5	27.5	27.6	27.6	27.6	27.6	27.6	27.7	27.7	27.7	0.2%
Small Van	29.5	29.5	29.5	29.6	29.6	29.6	29.7	29.7	29.7	29.8	29.8	29.8	N/A
Large Van	25.5	25.6	25.6	25.6	25.6	25.6	25.6	25.7	25.7	25.7	25.7	25.7	0.2%
Small Utility	30.4	30.4	30.5	30.5	30.5	30.5	30.6	30.6	30.6	30.6	30.7	30.7	N/A
Large Utility	37.4	37.4	37.5	37.5	37.5	37.6	37.6	37.6	37.6	37.7	37.7	37.7	0.2%
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	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	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	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	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	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	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	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	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	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	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	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	N/A
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	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	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	N/A
Midsize Cars	28.9	28.9	29.0	29.0	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	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	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	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	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	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	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	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	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	N/A

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	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	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	N/A
Midsize Cars	28.7	28.7	28.8	28.8	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	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	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	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	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	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	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	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	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	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	N/A
Subcompact Cars	19.9	20.0	20.0	20.1	20.1	20.2	20.2	20.2	20.2	20.3	20.3	20.3	N/A
Compact Cars	20.8	20.9	20.9	20.9	21.0	21.0	21.0	21.1	21.1	21.1	21.1	21.1	0.3%
Midsize Cars	26.9	27.0	27.0	27.0	27.1	27.1	27.2	27.2	27.2	27.2	27.2	27.3	0.2%
Large Cars	31.3	31.3	31.4	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6	31.6	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	N/A
Small Pickup	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	0.3%
Large Pickup	26.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.1	27.1	27.0	0.2%
Small Van	28.3	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.5	0.2%
Large Van	24.0	24.1	24.1	24.1	24.2	24.2	24.2	24.3	24.3	24.4	24.4	24.4	N/A
Small Utility	28.8	28.9	28.9	29.0	29.0	29.0	29.1	29.1	29.1	29.2	29.2	29.2	N/A
Large Utility	36.5	36.5	36.5	36.6	36.6	36.6	36.6	36.6	36.6	36.7	36.7	36.7	0.2%
Compressed Natural Gas (CNG)													
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	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	N/A
Compact Cars	26.3	26.3	26.4	26.4	26.5	26.5	26.5	26.6	26.6	26.6	26.7	26.7	0.3%
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	37.4	37.5	37.5	37.6	37.6	37.7	37.7	37.7	37.8	37.8	37.8	37.8	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
Large Pickup	32.6	32.7	32.7	32.8	32.8	32.9	32.9	32.9	33.0	33.0	33.0	33.1	0.2%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	30.3	30.3	30.4	30.4	30.5	30.5	30.6	30.6	30.7	30.7	30.8	30.8	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	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	N/A
CNG 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	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	N/A
Compact Cars	25.2	25.3	25.3	25.4	25.4	25.4	25.5	25.5	25.6	25.6	25.6	25.6	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	N/A
Large Cars	33.5	33.6	33.6	33.7	33.7	33.8	33.8	33.9	33.9	33.9	34.0	34.0	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	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	N/A
Large Pickup	31.7	31.8	31.9	31.9	32.0	32.0	32.1	32.1	32.1	32.2	32.2	32.2	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	N/A
Large Van	29.4	29.5	29.5	29.6	29.6	29.7	29.7	29.8	29.8	29.9	29.9	30.0	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	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	N/A

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Liquefied Petroleum Gas (LPG)													
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	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	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	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	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	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	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	N/A
Large Pickup	31.9	31.9	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.2	0.2%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	29.6	29.6	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.9	29.9	29.9	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	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	N/A
LPG 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	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	N/A
Compact Cars	21.5	21.6	21.6	21.7	21.7	21.7	21.8	21.8	21.8	21.9	21.9	21.9	N/A
Midsize Cars	28.1	28.1	28.2	28.2	28.3	28.3	28.4	28.4	28.4	28.4	28.5	28.5	N/A
Large Cars	32.4	32.5	32.5	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.8	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	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	N/A
Large Pickup	30.9	31.0	31.0	31.0	31.1	31.1	31.2	31.2	31.2	31.2	31.3	31.3	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	28.6	28.6	28.7	28.7	28.8	28.8	28.8	28.9	28.9	29.0	29.0	29.1	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	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	N/A
Electric													
Mini-compact Cars	65.9	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	N/A
Subcompact Cars	40.7	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	-0.1%
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	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	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	N/A
Two Seater Cars	65.8	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	-0.1%
Small Pickup	42.2	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	-0.1%
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	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	N/A
Large Van	50.1	49.7	49.7	49.7	49.7	49.8	49.8	49.8	49.8	49.7	49.7	49.7	-0.1%
Small Utility	51.7	51.4	51.4	51.4	48.8	49.0	49.2	49.1	49.2	49.3	48.7	48.8	-0.4%
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	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	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	N/A
Compact Cars	22.1	22.0	22.1	22.1	22.1	22.2	22.2	22.2	22.2	22.3	22.3	22.3	N/A
Midsize Cars	29.0	28.9	28.9	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.2	N/A
Large Cars	33.7	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.8	33.8	33.8	33.8	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	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	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	N/A
Small Van	0.0	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.6	30.6	30.6	30.6	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	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	31.5	31.5	31.6	31.6	31.6	31.6	N/A
Large Utility	0.0	0.0	0.0	40.0	40.1	40.1	40.1	40.1	40.1	40.2	40.2	40.2	N/A

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	N/A
Subcompact Cars	21.3	21.3	21.3	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.5	N/A
Compact Cars	22.1	22.1	22.1	22.1	22.1	22.1	22.2	22.2	22.2	22.2	22.2	22.2	-0.4%
Midsize Cars	27.6	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.7	27.8	27.8	27.8	N/A
Large Cars	33.0	33.0	33.0	33.0	33.1	33.1	33.1	33.2	33.2	33.2	33.2	33.2	N/A
Two Seater Cars	48.6	48.5	48.6	48.6	48.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	-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	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	N/A
Small Van	29.7	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.9	29.9	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	N/A
Small Utility	29.8	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.9	29.9	N/A
Large Utility	38.9	38.9	38.9	38.9	38.9	39.0	39.0	39.0	39.0	39.1	39.1	39.1	N/A
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	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	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	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	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	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	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	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	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	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	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	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	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	N/A
Subcompact Cars	55.5	54.2	53.1	52.0	50.9	50.0	49.0	48.1	47.2	46.3	45.5	44.7	N/A
Compact Cars	0.0	0.0	0.0	0.0	52.8	51.8	50.8	49.9	48.9	48.1	47.3	46.4	N/A
Midsize Cars	68.3	66.8	65.4	64.2	62.9	61.7	60.6	59.5	58.4	57.4	56.4	55.5	N/A
Large Cars	0.0	0.0	73.4	72.0	70.5	69.2	68.0	66.7	65.5	64.4	63.4	62.3	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	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	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	N/A
Small Van	75.8	74.1	72.4	70.9	69.4	68.1	66.7	65.3	64.0	62.8	61.7	60.5	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	N/A
Small Utility	72.7	71.1	69.6	68.2	66.8	65.5	64.2	63.0	61.8	60.7	59.6	58.5	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	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	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	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	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	N/A
Large Cars	92.7	90.0	87.5	85.1	82.8	80.6	78.5	76.4	74.5	72.5	70.8	69.0	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	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	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	N/A
Small Van	94.3	91.4	88.8	86.1	83.8	81.4	79.1	76.9	74.8	72.6	70.8	68.8	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	N/A
Small Utility	90.6	87.9	85.5	83.1	80.9	78.7	76.6	74.5	72.6	70.6	68.9	67.1	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	N/A

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002- 2025
Average Price													
Cars	19.1	19.2	19.2	19.2	19.3	19.3	19.3	19.3	19.4	19.4	19.4	19.4	0.3%
Trucks	21.2	21.2	21.2	21.2	21.2	21.2	21.3	21.3	21.3	21.4	21.4	21.4	0.4%
Light Duty Vehicles	20.2	20.3	20.3	20.3	20.4	20.4	20.4	20.5	20.5	20.5	20.5	20.6	0.4%

Table 58. New Light-Duty Vehicle Prices
(Thousand 2002 Dollars)

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

Table 59. New Light-Duty Vehicle Range
(Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Gasoline													
Mini-compact Cars	405	412	414	415	416	428	428	425	430	438	441	445	448
Subcompact Cars	432	431	432	431	428	429	428	424	427	431	434	438	442
Compact Cars	435	435	436	435	433	437	436	433	436	440	442	447	451
Midsize Cars	454	454	456	455	454	458	457	454	457	462	463	468	471
Large Cars	458	458	458	457	454	455	453	449	452	458	460	465	469
Two Seater Cars	399	402	402	402	400	402	401	399	402	407	410	415	418
Small Pickup	409	410	411	411	414	440	459	453	454	455	457	460	463
Large Pickup	484	483	484	483	486	503	517	512	513	517	520	525	528
Small Van	520	520	520	519	520	547	562	556	556	557	558	562	564
Large Van	588	588	589	588	592	612	635	629	631	637	640	647	651
Small Utility	403	404	405	405	408	437	457	452	453	454	456	460	463
Large Utility	477	476	477	476	479	495	513	508	510	515	518	524	528
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	0	0	0	582	585	592	597
Compact Cars	587	587	588	588	585	590	589	584	588	594	597	604	609
Midsize Cars	0	0	0	615	613	619	617	613	617	623	626	632	636
Large Cars	0	0	0	0	0	0	611	606	611	618	621	627	633
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	619	612	613	615	616	621	625
Large Pickup	653	653	653	652	655	678	698	691	693	698	701	709	713
Small Van	0	0	0	0	0	0	0	0	0	752	754	758	761
Large Van	794	793	795	794	800	826	857	849	852	860	864	873	879
Small Utility	0	0	0	547	551	590	617	610	611	614	615	621	625
Large Utility	644	643	644	643	647	669	692	686	689	696	700	708	712
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
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Methanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	259	259	260	260	259	261	261	259	260	263	264	267	268
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 59. New Light-Duty Vehicle Range
(Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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
Midsize Cars	345	345	346	346	345	348	347	345	347	351	352	356	358
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	315	316	320	323
Compact Cars	317	317	318	318	316	319	318	316	318	321	323	327	329
Midsize Cars	331	332	333	332	331	335	334	331	333	337	338	342	344
Large Cars	0	0	0	0	0	0	330	328	330	334	336	339	342
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	299	299	300	300	302	321	335	331	331	332	333	336	338
Large Pickup	353	353	353	352	354	367	377	374	375	378	379	383	385
Small Van	380	379	380	379	379	400	410	406	406	407	408	410	412
Large Van	0	0	0	0	432	447	463	459	461	465	467	472	475
Small Utility	0	0	0	0	0	0	334	330	330	332	333	336	338
Large Utility	348	348	348	348	350	362	374	371	373	376	378	383	385
Compressed Natural Gas (CNG)													
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	261	261	261	261	260	262	262	260	261	264	265	268	271
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	275	275	275	274	272	273	272	270	271	275	276	279	281
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	290	290	290	290	291	302	310	307	308	310	312	315	317
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	353	353	353	353	355	367	381	377	379	382	384	388	391
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
CNG 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	217	217	218	218	217	219	218	216	218	220	221	224	226
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	227	227	226	225	226	229	230	232	234
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	242	242	242	241	243	251	258	256	257	259	260	262	264
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	294	294	294	294	296	306	317	314	315	318	320	324	325
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 59. New Light-Duty Vehicle Range (Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Liquefied Petroleum Gas (LPG)													
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	411	411	411	410	413	427	439	435	436	440	442	446	449
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	500	499	500	500	504	520	540	534	536	541	544	550	553
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
LPG 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	0	0	0	347	350	349	346	348	352	354	358	361
Midsize Cars	0	0	0	0	363	367	366	363	365	369	371	375	377
Large Cars	0	0	0	0	363	364	362	359	362	366	368	372	375
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	387	387	387	386	388	402	414	409	411	414	416	420	422
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	471	470	471	471	474	490	508	503	505	510	512	518	521
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	80	80	80	80	80	80	80
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
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	80	80	80	80	80	80	80	80	80	80	80	80	80
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	80	80	80	80	80	80	80	80	80	80	80	80	80
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	0	0	0	572	575	582	586
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	609	612
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 59. New Light-Duty Vehicle Range
(Miles)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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	0	0	0	542	548	553
Compact Cars	544	543	545	544	542	546	545	541	544	550	553	559	564
Midsize Cars	0	0	0	569	567	573	571	567	571	577	579	585	589
Large Cars	0	0	0	0	0	0	0	0	565	572	575	581	586
Two Seater Cars	499	502	503	503	501	503	502	498	503	509	512	518	523
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	650	684	703	694	695	697	698	702	705
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	506	510	546	571	565	566	568	570	575	578
Large Utility	0	0	0	0	599	619	641	635	638	644	648	655	660
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
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Cell Hydrogen													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	428	429	428	424	427	431	434	438	442
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	471
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	408	437	457	452	453	454	456	460	463
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
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	449	452	458	460	465	469
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	562	564
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	460	463
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Gasoline													
Mini-compact Cars	450	452	454	456	457	458	459	460	461	462	463	464	0.5%
Subcompact Cars	444	446	448	450	451	453	454	456	457	458	459	460	0.3%
Compact Cars	453	455	456	458	459	460	461	463	464	465	466	467	0.3%
Midsize Cars	474	476	478	481	482	484	485	486	487	488	489	490	0.3%
Large Cars	472	475	478	480	482	484	486	488	489	491	492	493	0.3%
Two Seater Cars	421	423	426	428	429	430	432	433	434	436	437	438	0.4%
Small Pickup	467	471	474	476	479	481	484	487	489	491	493	495	0.8%
Large Pickup	532	536	540	543	546	549	551	554	557	560	563	565	0.7%
Small Van	567	569	572	574	575	578	580	582	585	588	590	592	0.6%
Large Van	656	662	667	671	675	678	682	687	691	696	700	704	0.8%
Small Utility	466	468	470	472	474	477	479	481	484	486	488	490	0.8%
Large Utility	532	537	540	543	546	548	551	554	557	560	562	565	0.7%
Turbo Direct Injection Diesel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	600	602	605	608	609	611	613	615	617	619	620	621	N/A
Compact Cars	612	614	616	619	620	622	623	625	627	628	629	630	0.3%
Midsize Cars	640	643	646	649	651	653	654	656	658	659	661	662	N/A
Large Cars	638	641	645	648	651	653	656	658	660	662	664	665	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	631	636	640	643	646	650	653	657	660	664	666	668	N/A
Large Pickup	718	724	729	733	737	741	744	748	752	756	760	762	0.7%
Small Van	765	769	772	774	777	780	783	786	790	793	796	799	N/A
Large Van	886	894	901	906	911	916	921	927	933	940	945	950	0.8%
Small Utility	628	631	634	637	640	643	646	650	653	656	659	662	N/A
Large Utility	718	725	729	733	737	740	744	748	752	756	759	763	0.7%
Methanol													
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
Methanol Flex													
Mini-compact Cars	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	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	270	272	273	274	275	276	276	277	278	278	279	279	0.3%
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Ethanol													
Mini-compact Cars	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	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	360	362	364	365	366	368	368	369	370	371	372	373	0.3%
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
Ethanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	324	326	327	329	329	330	331	333	334	334	335	336	N/A
Compact Cars	331	332	333	334	335	336	337	338	339	340	340	341	0.3%
Midsize Cars	346	348	349	351	352	353	354	355	356	356	357	358	0.3%
Large Cars	345	347	349	350	352	353	355	356	357	358	359	360	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	341	344	346	348	349	351	353	355	357	359	360	361	0.8%
Large Pickup	388	392	394	397	399	401	402	404	407	409	411	412	0.7%
Small Van	414	416	418	419	420	422	423	425	427	429	431	432	0.6%
Large Van	479	483	487	490	493	495	498	501	505	508	511	514	N/A
Small Utility	340	341	343	345	346	348	349	351	353	355	356	358	N/A
Large Utility	388	392	394	396	399	400	402	405	407	409	411	412	0.7%
Compressed Natural Gas (CNG)													
Mini-compact Cars	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	N/A
Compact Cars	272	273	274	275	276	276	277	278	278	279	280	280	0.3%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	283	285	287	288	289	290	291	293	294	294	295	296	0.3%
Two Seater Cars	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	N/A
Large Pickup	319	322	324	326	328	329	331	332	334	336	338	339	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	394	397	400	403	405	407	409	412	415	418	420	422	0.8%
Small Utility	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	N/A
CNG Bi-Fuel													
Mini-compact Cars	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	N/A
Compact Cars	227	227	228	229	230	230	231	231	232	233	233	233	0.3%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	236	237	239	240	241	242	243	244	245	245	246	246	N/A
Two Seater Cars	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	N/A
Large Pickup	266	268	270	272	273	275	276	277	279	280	281	282	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	328	331	334	336	338	339	341	343	346	348	350	352	0.8%
Small Utility	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	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Liquefied Petroleum Gas (LPG)													
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	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	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	452	456	459	462	464	467	468	471	474	476	478	480	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	558	563	567	571	574	577	580	584	588	592	595	598	0.8%
Small Utility	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	N/A
LPG Bi-Fuel													
Mini-compact Cars	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	N/A
Compact Cars	362	364	365	367	367	368	369	370	371	372	373	373	N/A
Midsize Cars	379	381	383	384	386	387	388	389	390	391	391	392	N/A
Large Cars	378	380	382	384	386	387	389	390	391	393	393	394	N/A
Two Seater Cars	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	N/A
Large Pickup	426	429	432	435	437	439	441	443	446	448	450	452	0.7%
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	525	530	534	537	540	543	546	549	553	557	560	563	0.8%
Small Utility	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	N/A
Electric													
Mini-compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Compact Cars	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	N/A
Large Cars	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	N/A
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Pickup	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	N/A
Large Van	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Utility	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	N/A
Diesel-Electric Hybrid													
Mini-compact Cars	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	N/A
Compact Cars	589	591	593	596	597	598	600	602	603	605	606	607	N/A
Midsize Cars	616	619	622	625	627	629	630	632	633	635	636	637	N/A
Large Cars	614	617	621	624	627	629	631	634	636	638	639	641	N/A
Two Seater Cars	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	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	740	744	746	748	751	754	757	761	764	767	770	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	622	626	629	632	635	637	N/A
Large Utility	0	0	0	706	710	713	717	720	724	728	731	734	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Gasoline-Electric Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	555	558	560	563	564	566	567	570	571	573	574	575	N/A
Compact Cars	566	568	571	573	574	575	577	579	580	581	583	584	0.3%
Midsize Cars	593	595	598	601	603	605	606	608	609	610	612	613	N/A
Large Cars	590	594	597	600	603	605	607	610	612	613	615	616	N/A
Two Seater Cars	526	529	532	535	536	538	540	541	543	545	546	548	0.4%
Small Pickup	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	N/A
Small Van	709	712	715	717	719	722	725	728	731	735	737	740	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	582	584	587	590	593	596	598	602	604	608	610	613	N/A
Large Utility	665	671	675	679	682	686	689	693	696	700	703	706	N/A
Fuel Cell Methanol													
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
Fuel Cell Hydrogen													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	444	446	448	450	451	453	454	456	457	458	459	460	N/A
Compact Cars	0	0	0	0	459	460	461	463	464	465	466	467	N/A
Midsize Cars	474	476	478	481	482	484	485	486	487	488	489	490	N/A
Large Cars	0	0	478	480	482	484	486	488	489	491	492	493	N/A
Two Seater Cars	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	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	567	569	572	574	575	578	580	582	585	588	590	592	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	466	468	470	472	474	477	479	481	484	486	488	490	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Fuel Cell Gasoline													
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	472	475	478	480	482	484	486	488	489	491	492	493	N/A
Two Seater Cars	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	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	567	569	572	574	575	578	580	582	585	588	590	592	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	466	468	470	472	474	477	479	481	484	486	488	490	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	N/A

Table 59. New Light-Duty Vehicle Range
(Miles)

Sources: 2002 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.