

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Use by Mode													
Highway													
Light-Duty Vehicles	15582.6	15779.3	16110.2	16406.8	16781.6	17204.2	17628.1	18048.4	18450.0	18810.8	19167.1	19521.4	19879.4
Automobiles	9032.9	8921.0	8890.8	8874.4	8878.6	8915.4	8969.4	9011.3	9029.3	9048.7	9067.9	9087.1	9111.9
Light Trucks	6523.8	6832.6	7193.9	7506.8	7877.5	8263.2	8633.0	9011.2	9394.9	9736.1	10073.2	10408.2	10741.4
Motorcycles	26.0	25.6	25.5	25.5	25.5	25.6	25.8	25.9	25.9	26.0	26.0	26.1	26.1
Commercial Light Trucks 1/	578.0	577.7	599.1	610.1	615.9	626.5	640.1	654.4	665.6	676.0	687.0	697.4	711.0
Buses	243.9	248.9	251.8	253.1	255.0	257.3	259.6	261.9	264.0	265.6	266.9	267.8	268.3
Transit	96.1	98.0	99.2	99.7	100.4	101.4	102.3	103.2	104.0	104.6	105.1	105.5	105.7
Intercity	35.4	36.2	36.6	36.8	37.1	37.4	37.8	38.1	38.4	38.6	38.8	39.0	39.0
School	112.3	114.6	116.0	116.6	117.5	118.5	119.6	120.7	121.6	122.4	123.0	123.4	123.6
Freight Trucks 2/	4387.7	4461.5	4681.1	4871.0	4964.0	5091.6	5268.8	5434.6	5555.9	5676.8	5785.7	5884.9	6010.9
Medium (1000-26000 pounds)	718.6	721.5	747.2	768.4	776.7	792.4	816.2	838.9	856.1	874.5	892.5	909.9	931.7
Large (> 26000 pounds)	3669.1	3740.0	3934.0	4102.6	4187.3	4299.2	4452.6	4595.8	4699.8	4802.3	4893.2	4975.0	5079.1
Non-Highway													
Air 3/	2867.8	2744.5	2844.1	2926.2	3021.9	3130.6	3204.1	3297.2	3425.4	3534.9	3624.1	3695.6	3767.9
General Aviation	177.0	171.0	175.7	179.6	184.1	189.3	192.7	197.2	203.3	208.5	212.7	216.1	219.5
Domestic Air Carriers	1620.4	1561.2	1634.7	1638.9	1656.6	1682.5	1729.7	1773.8	1835.1	1883.5	1923.6	1952.6	1984.2
International Air Carriers	536.1	489.3	516.8	530.5	550.0	572.3	596.0	619.1	642.6	665.4	681.1	692.8	701.2
Freight Carriers	534.3	523.0	516.9	577.2	631.2	686.6	685.7	707.1	744.5	777.6	806.8	834.1	863.0
Water 4/	1160.7	1126.6	1077.4	1089.5	1095.3	1102.4	1113.3	1122.6	1126.6	1132.8	1138.4	1142.6	1149.1
Freight	853.7	818.5	761.6	770.9	773.4	777.1	784.9	791.2	792.0	795.1	797.5	798.2	800.9
Domestic Shipping	264.4	257.6	255.2	263.6	265.3	268.0	275.0	280.5	280.5	282.9	284.6	284.5	286.4
International Shipping	589.3	560.8	506.4	507.3	508.1	509.0	509.8	510.6	511.5	512.2	513.0	513.7	514.5
Recreational Boats	307.0	308.1	315.8	318.6	321.9	325.3	328.4	331.4	334.6	337.7	340.9	344.4	348.2
Rail	580.4	586.9	599.8	614.8	619.2	626.6	635.9	641.8	643.2	649.6	653.0	656.0	660.9
Freight	465.5	469.2	480.1	493.1	495.3	500.3	507.1	510.6	509.6	513.6	514.6	515.2	517.7
Passenger	115.0	117.6	119.7	121.7	123.9	126.3	128.8	131.2	133.6	136.0	138.4	140.8	143.2
Intercity	26.3	27.0	27.5	28.0	28.5	29.1	29.6	30.2	30.7	31.3	31.8	32.4	32.9
Transit	47.1	47.8	48.5	49.3	50.2	51.2	52.2	53.2	54.2	55.1	56.1	57.1	58.1
Commuter	41.6	42.8	43.7	44.4	45.2	46.1	47.0	47.9	48.7	49.6	50.5	51.3	52.2
Lubricants	200.0	199.1	201.0	201.1	202.5	205.0	208.1	211.3	213.6	216.0	218.8	221.8	225.8
Pipeline Fuel Natural Gas	685.0	653.3	656.3	668.7	667.8	668.3	687.5	696.6	699.2	711.7	720.4	722.1	730.3
Military Use													
Aviation	514.7	554.8	621.8	642.2	649.9	651.4	652.5	653.5	653.5	654.0	654.7	655.4	656.4
Residual Fuel Use	19.2	20.8	19.3	20.0	20.2	20.3	20.3	20.3	20.3	20.3	20.4	20.4	20.4
Distillate Fuel Use	102.1	113.3	122.6	126.7	128.2	128.4	128.6	128.8	128.8	128.9	129.0	129.1	129.3
<b>Total</b>	<b>26922.2</b>	<b>27066.6</b>	<b>27784.5</b>	<b>28430.2</b>	<b>29021.6</b>	<b>29712.7</b>	<b>30447.0</b>	<b>31171.6</b>	<b>31846.2</b>	<b>32477.5</b>	<b>33065.5</b>	<b>33614.5</b>	<b>34209.6</b>
Energy Use by Type													
Motor Gasoline	16477.0	16638.0	16961.2	17224.9	17560.1	17958.2	18361.3	18762.3	19137.3	19473.3	19807.1	20138.8	20477.9
Distillate (diesel)	5421.0	5536.0	5816.1	6063.1	6198.9	6367.6	6588.4	6792.0	6947.0	7105.3	7247.5	7377.9	7537.5
Jet Fuel (kerosene & naphtha)	3340.0	3257.0	3423.6	3526.1	3629.6	3739.9	3814.4	3908.5	4036.8	4146.8	4236.7	4308.9	4382.1
Residual Oil	646.0	617.0	551.5	555.1	556.5	558.1	560.6	562.8	563.6	564.9	566.0	566.7	568.0
Aviation Gasoline	42.5	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1	42.1
Liquefied Petroleum Gas	20.2	24.1	26.4	35.4	44.1	46.7	50.3	53.7	56.5	59.8	62.1	64.6	67.6
Lubricants	200.0	199.1	201.0	201.1	202.5	205.0	208.1	211.3	213.6	216.0	218.8	221.8	225.8
Petroleum Subtotal	26146.7	26313.5	27022.0	27647.9	28233.8	28917.6	29625.3	30332.8	30997.0	31608.3	32180.3	32720.8	33301.1
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	0.8	1.1	1.1	1.2	1.2	1.4	1.6	1.7	2.0	2.3	2.5	2.6	2.7
Electricity	75.6	77.4	78.9	80.7	82.4	84.1	85.9	87.7	89.4	91.2	92.9	94.7	96.5
Compressed Natural Gas	14.0	21.3	26.2	31.7	36.3	41.3	46.9	52.7	58.4	63.9	69.1	74.0	78.7
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4
Pipeline Fuel Natural Gas	685.0	653.3	656.3	668.7	667.8	668.3	687.5	696.6	699.2	711.7	720.4	722.1	730.3
<b>Total Consumption</b>	<b>26922.2</b>	<b>27066.6</b>	<b>27784.5</b>	<b>28430.2</b>	<b>29021.6</b>	<b>29712.7</b>	<b>30447.0</b>	<b>31171.6</b>	<b>31846.2</b>	<b>32477.5</b>	<b>33065.5</b>	<b>33614.5</b>	<b>34209.6</b>

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Use by Mode												
Highway												
Light-Duty Vehicles	20236.6	20573.7	20907.7	21227.3	21541.6	21851.7	22179.9	22522.6	22885.1	23286.4	23695.8	1.9%
Automobiles	9142.0	9165.5	9191.3	9214.2	9238.3	9263.1	9298.3	9337.3	9409.5	9493.4	9577.2	0.3%
Light Trucks	11068.4	11381.9	11690.0	11986.7	12276.9	12562.0	12855.0	13158.5	13448.6	13765.8	14091.2	3.3%
Motorcycles	26.2	26.3	26.3	26.4	26.5	26.5	26.6	26.7	27.0	27.2	27.4	0.3%
Commercial Light Trucks 1/	721.3	729.5	741.6	755.0	768.1	780.3	791.8	803.9	817.1	830.6	843.9	1.7%
Buses	268.4	268.3	268.0	267.6	267.3	267.1	266.7	266.5	266.5	266.7	267.1	0.3%
Transit	105.7	105.7	105.6	105.4	105.3	105.2	105.1	105.0	105.0	105.1	105.2	0.3%
Intercity	39.0	39.0	39.0	38.9	38.9	38.9	38.8	38.8	38.8	38.8	38.8	0.3%
School	123.6	123.6	123.5	123.3	123.1	123.1	122.9	122.8	122.8	122.9	123.0	0.3%
Freight Trucks 2/	6105.7	6174.6	6285.4	6400.2	6505.0	6602.8	6686.0	6779.3	6888.3	6995.5	7097.9	2.1%
Medium (1000-26000 pounds)	950.4	966.9	991.0	1015.9	1038.9	1061.2	1083.3	1106.8	1132.6	1157.9	1182.8	2.3%
Large (> 26000 pounds)	5155.3	5207.6	5294.4	5384.3	5466.1	5541.6	5602.7	5672.5	5755.7	5837.5	5915.0	2.1%
Non-Highway												
Air 3/	3832.1	3882.7	3943.2	4006.8	4068.2	4113.3	4149.0	4179.3	4208.4	4236.7	4253.8	2.0%
General Aviation	222.6	225.0	227.9	230.9	233.8	235.9	237.6	239.1	240.5	241.8	242.6	1.6%
Domestic Air Carriers	2012.0	2030.5	2048.6	2061.2	2072.9	2076.3	2077.1	2073.8	2066.1	2059.5	2045.7	1.2%
International Air Carriers	710.0	721.1	732.2	741.8	751.8	761.0	768.5	772.7	775.7	776.8	775.0	2.1%
Freight Carriers	887.5	906.1	934.6	972.8	1009.6	1040.0	1065.8	1093.7	1126.0	1158.6	1190.5	3.8%
Water 4/	1153.3	1158.4	1167.5	1175.2	1180.5	1185.3	1190.1	1195.0	1202.1	1210.3	1216.7	0.4%
Freight	801.5	803.3	809.3	814.0	816.2	818.0	819.2	820.4	823.6	827.7	829.9	0.1%
Domestic Shipping	286.3	287.3	292.5	296.4	297.9	298.9	299.3	299.9	302.3	305.5	306.9	0.8%
International Shipping	515.3	516.0	516.8	517.6	518.3	519.1	519.8	520.6	521.4	522.1	522.9	-0.3%
Recreational Boats	351.8	355.2	358.2	361.3	364.2	367.4	370.9	374.6	378.5	382.7	386.9	1.0%
Rail	665.2	670.8	676.4	681.8	687.7	693.4	698.3	704.4	712.8	720.1	727.2	1.0%
Freight	519.6	522.7	525.8	528.8	532.3	535.5	537.8	541.3	547.1	551.6	555.8	0.8%
Passenger	145.7	148.1	150.5	153.0	155.4	157.9	160.5	163.1	165.7	168.5	171.4	1.7%
Intercity	33.5	34.1	34.6	35.2	35.7	36.3	36.9	37.5	38.1	38.8	39.4	1.7%
Transit	59.0	60.0	61.0	62.0	63.0	64.0	65.1	66.1	67.2	68.3	69.5	1.7%
Commuter	53.1	54.0	54.9	55.8	56.7	57.6	58.5	59.5	60.4	61.4	62.5	1.7%
Lubricants	229.2	232.3	236.6	241.2	245.7	250.0	254.1	258.3	263.0	267.8	272.6	1.4%
Pipeline Fuel Natural Gas	730.5	762.9	808.4	818.7	826.0	823.7	826.9	834.3	833.5	840.5	842.8	1.2%
Military Use												
Aviation	658.3	660.9	663.3	665.5	667.5	669.4	671.2	672.8	674.4	675.9	677.3	0.9%
Residual Fuel Use	20.5	20.5	20.6	20.7	20.8	20.8	20.9	20.9	21.0	21.0	21.1	0.1%
Distillate Fuel Use	129.7	130.2	130.6	131.1	131.5	131.8	132.2	132.5	132.8	133.1	133.4	0.7%
<b>Total</b>	<b>34750.8</b>	<b>35264.8</b>	<b>35849.4</b>	<b>36391.1</b>	<b>36909.8</b>	<b>37389.7</b>	<b>37867.0</b>	<b>38369.7</b>	<b>38905.1</b>	<b>39484.8</b>	<b>40049.5</b>	<b>1.8%</b>
Energy Use by Type												
Motor Gasoline	20811.5	21122.1	21433.8	21733.5	22028.2	22314.9	22619.3	22938.1	23278.1	23657.0	24043.7	1.7%
Distillate (diesel)	7666.2	7771.9	7921.2	8072.5	8212.9	8349.0	8469.8	8602.5	8755.2	8906.2	9050.6	2.3%
Jet Fuel (kerosene & naphtha)	4448.4	4501.5	4564.4	4630.2	4693.7	4740.6	4778.1	4810.0	4840.7	4870.6	4899.1	1.9%
Residual Oil	568.7	569.7	571.9	573.7	574.8	575.8	576.7	577.6	579.0	580.6	581.7	-0.3%
Aviation Gasoline	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	69.7	71.8	74.5	76.6	78.2	79.8	81.1	82.8	84.2	85.5	87.2	6.0%
Lubricants	229.2	232.3	236.6	241.2	245.7	250.0	254.1	258.3	263.0	267.8	272.6	1.4%
Petroleum Subtotal	33835.8	34311.4	34844.4	35369.7	35875.7	36352.2	36821.3	37311.4	37842.3	38409.8	38967.0	1.8%
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.2%
Ethanol	2.8	3.1	3.3	3.6	3.5	3.9	3.9	4.0	4.1	4.2	4.4	6.7%
Electricity	98.4	100.3	102.3	104.4	106.5	108.6	110.7	112.9	115.1	117.4	119.8	2.0%
Compressed Natural Gas	82.8	86.4	90.1	93.5	96.7	99.5	102.2	104.7	107.3	109.8	112.3	7.8%
Liquid Hydrogen	0.5	0.7	0.8	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	N/A
Pipeline Fuel Natural Gas	730.5	762.9	808.4	818.7	826.0	823.7	826.9	834.3	833.5	840.5	842.8	1.2%
<b>Total Consumption</b>	<b>34750.8</b>	<b>35264.8</b>	<b>35849.4</b>	<b>36391.1</b>	<b>36909.8</b>	<b>37389.7</b>	<b>37867.0</b>	<b>38369.7</b>	<b>38905.1</b>	<b>39484.8</b>	<b>40049.5</b>	<b>1.8%</b>

**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: 2003 values derived using: Energy Information Administration (EIA), Short-Term Energy Outlook, September 2004, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep04.pdf>; EIA, Fuel Oil and Kerosene Sales 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/fuel\\_oil\\_and\\_kerosene\\_sales/historical/2002/foks\\_2002.html](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2002/foks_2002.html); EIA, State Energy Data Report 2001, DOE/EIA-0214(2001) (Washington, DC, November 2004); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, 21, 22, and 23 and Annual (Oak Ridge, TN, September 2003); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.  
Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Light-Duty Vehicle</b>													
Motor Gasoline	15332.45	15500.36	15790.56	16038.74	16367.84	16753.22	17139.00	17522.71	17884.82	18207.72	18527.12	18844.28	19163.88
Ethanol	0.80	1.06	1.05	1.17	1.20	1.40	1.56	1.75	2.04	2.28	2.46	2.57	2.71
Compressed Natural Gas	11.98	18.53	22.03	25.76	28.36	30.77	33.21	35.65	37.93	40.08	42.18	44.21	46.14
Liquefied Petroleum Gas	10.97	15.10	17.42	26.34	34.98	37.45	40.56	43.48	45.94	48.84	50.75	52.95	55.60
Electricity	1.89	2.43	2.90	3.38	3.67	3.88	4.08	4.32	4.54	4.75	5.02	5.28	5.53
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.23	0.30	0.37
Distillate (diesel)	224.53	241.75	276.15	311.39	345.52	377.51	409.71	440.48	474.68	507.00	539.33	571.77	605.16
Total	15582.63	15779.25	16110.15	16406.78	16781.58	17204.23	17628.14	18048.44	18450.04	18810.79	19167.10	19521.38	19879.39
<b>Commercial Light Trucks Gasoline 1/</b>	578.04	577.66	599.06	610.09	615.94	626.47	640.09	654.45	665.58	676.04	686.97	697.41	710.98
<b>Freight Trucks 2/</b>													
Motor Gasoline	250.05	242.42	246.22	247.79	244.75	243.37	243.86	243.77	242.29	241.81	241.92	242.45	244.62
Distillate (diesel)	4126.35	4207.39	4421.79	4608.17	4702.22	4828.50	5001.63	5163.63	5282.49	5400.17	5505.46	5601.00	5721.73
Compressed Natural Gas	2.01	2.78	4.14	5.92	7.99	10.54	13.64	17.06	20.49	23.83	26.94	29.78	32.51
Liquefied Petroleum Gas	9.27	8.95	8.98	9.08	9.08	9.23	9.70	10.18	10.60	10.99	11.35	11.66	11.99
Total	4387.68	4461.53	4681.13	4870.97	4964.03	5091.63	5268.83	5434.64	5555.86	5676.81	5785.66	5884.88	6010.85
<b>Freight Rail 3/</b>													
Distillate (diesel)	465.45	469.24	480.06	493.13	495.31	500.29	507.13	510.57	509.60	513.60	514.63	515.18	517.70
Total	465.45	469.24	480.06	493.13	495.31	500.29	507.13	510.57	509.60	513.60	514.63	515.18	517.70
<b>Domestic Shipping</b>													
Distillate (diesel)	187.89	184.31	190.14	196.40	197.63	199.70	204.90	208.99	209.00	210.73	211.99	211.90	213.35
Residual Oil	76.51	73.33	65.07	67.21	67.64	68.35	70.13	71.54	71.55	72.14	72.58	72.55	73.05
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	264.40	257.64	255.22	263.61	265.26	268.05	275.03	280.53	280.54	282.87	284.57	284.46	286.40
<b>International Shipping</b>													
Distillate (diesel)	39.01	37.93	39.39	39.46	39.52	39.59	39.65	39.71	39.77	39.83	39.88	39.94	40.00
Residual Oil	550.32	522.89	467.04	467.87	468.62	469.46	470.19	470.94	471.70	472.40	473.09	473.78	474.52
Total	589.33	560.82	506.43	507.32	508.14	509.05	509.84	510.65	511.47	512.23	512.97	513.72	514.52
<b>Air Transportation</b>													
Jet Fuel	2825.34	2702.18	2801.79	2883.91	2979.65	3088.44	3161.96	3255.03	3383.31	3492.78	3581.99	3653.52	3725.75
Aviation Gasoline	42.48	42.35	42.30	42.26	42.23	42.20	42.18	42.16	42.14	42.13	42.12	42.11	42.10
Total	2867.82	2744.53	2844.08	2926.17	3021.88	3130.63	3204.13	3297.18	3425.45	3534.91	3624.10	3695.63	3767.85
<b>Miscellaneous Transportation</b>													
<b>Military Use</b>													
Jet Fuel	514.66	554.82	621.81	642.21	649.92	651.44	652.48	653.52	653.53	654.03	654.71	655.41	656.39
Residual Fuel	19.17	20.78	19.34	19.98	20.22	20.26	20.29	20.32	20.32	20.33	20.35	20.38	20.41
Distillate	102.13	113.31	122.61	126.65	128.16	128.43	128.62	128.81	128.78	128.85	128.97	129.10	129.28
Total	635.96	688.91	763.76	788.84	798.30	800.13	801.39	802.66	802.63	803.22	804.03	804.88	806.08
<b>Bus Transportation</b>													
Transit Bus (motor gasoline)	4.35	4.35	4.42	4.44	4.47	4.51	4.56	4.60	4.63	4.66	4.69	4.70	4.71
Transit Bus (diesel)	91.72	93.67	94.78	95.28	95.97	96.84	97.72	98.58	99.35	99.97	100.46	100.80	100.98
Intercity Bus (diesel)	35.45	36.20	36.63	36.82	37.09	37.43	37.77	38.10	38.40	38.64	38.83	38.96	39.03
School Bus (motor gasoline)	5.09	5.09	5.16	5.19	5.23	5.28	5.33	5.38	5.42	5.45	5.48	5.50	5.51
School Bus (diesel)	107.26	109.54	110.83	111.41	112.22	113.24	114.27	115.28	116.18	116.90	117.48	117.87	118.09
Total	243.87	248.85	251.81	253.14	254.98	257.30	259.64	261.93	263.97	265.62	266.93	267.84	268.32
<b>Rail Transportation</b>													
Intercity Rail (electricity)	10.32	10.50	10.64	10.82	11.02	11.23	11.45	11.67	11.88	12.10	12.31	12.52	12.74
Intercity Rail (diesel)	15.94	16.50	16.90	17.18	17.49	17.83	18.17	18.52	18.86	19.19	19.53	19.86	20.20
Transit Rail (electricity)	47.05	47.84	48.51	49.32	50.22	51.20	52.19	53.18	54.17	55.13	56.10	57.07	58.05

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Commuter Rail (electricity)	16.37	16.64	16.87	17.16	17.47	17.81	18.15	18.50	18.84	19.18	19.51	19.85	20.19
Commuter Rail (diesel)	25.27	26.16	26.79	27.23	27.72	28.27	28.81	29.35	29.90	30.42	30.96	31.49	32.03
Total	114.95	117.63	119.71	121.71	123.92	126.34	128.78	131.22	133.64	136.02	138.40	140.79	143.21
Recreation Boats	307.01	308.13	315.78	318.60	321.91	325.32	328.42	331.44	334.55	337.66	340.88	344.43	348.23
Lubricants	200.00	199.11	200.95	201.10	202.54	204.96	208.15	211.33	213.59	216.03	218.82	221.82	225.79
Pipeline Fuel Natural Gas	685.03	653.30	656.31	668.72	667.80	668.32	687.46	696.60	699.21	711.68	720.42	722.07	730.31
Total Miscellaneous	2186.83	2215.91	2308.34	2352.11	2369.44	2382.38	2413.84	2435.18	2447.61	2470.23	2489.49	2501.83	2521.94
Total Consumption	26922.18	27066.60	27784.47	28430.18	29021.58	29712.73	30447.03	31171.63	31846.17	32477.49	33065.47	33614.49	34209.64

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Light-Duty Vehicle</b>												
Motor Gasoline	19481.96	19779.72	20073.01	20352.70	20628.10	20896.28	21182.34	21481.50	21799.88	22156.42	22521.06	1.7%
Ethanol	2.85	3.10	3.34	3.56	3.52	3.87	3.85	3.97	4.14	4.23	4.41	6.7%
Compressed Natural Gas	47.98	49.73	51.42	53.03	54.56	56.03	57.46	58.87	60.23	61.65	63.08	5.7%
Liquefied Petroleum Gas	57.49	59.43	61.88	63.84	65.27	66.64	67.92	69.54	70.76	72.02	73.61	7.5%
Electricity	5.88	6.24	6.61	7.17	7.71	8.24	8.78	9.31	9.81	10.35	10.88	7.1%
Liquid Hydrogen	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	N/A
Distillate (diesel)	639.95	674.79	710.57	745.87	780.97	818.88	857.48	896.96	937.61	978.74	1019.40	6.8%
Total	20236.61	20573.69	20907.67	21227.33	21541.62	21851.71	22179.93	22522.55	22885.13	23286.44	23695.77	1.9%
<b>Commercial Light Trucks Gasoline 1/</b>												
	721.32	729.54	741.61	754.98	768.12	780.27	791.77	803.86	817.10	830.64	843.91	1.7%
<b>Freight Trucks 2/</b>												
Motor Gasoline	246.20	247.45	250.73	254.30	257.57	260.79	264.15	267.97	272.51	277.09	281.67	0.7%
Distillate (diesel)	5812.42	5878.03	5983.46	6092.56	6192.31	6285.34	6363.99	6452.14	6555.35	6656.74	6753.41	2.2%
Compressed Natural Gas	34.83	36.71	38.66	40.51	42.12	43.51	44.70	45.84	47.03	48.16	49.22	14.0%
Liquefied Petroleum Gas	12.23	12.37	12.57	12.78	12.97	13.12	13.20	13.31	13.41	13.49	13.55	1.9%
Total	6105.68	6174.56	6285.43	6400.16	6504.97	6602.76	6686.04	6779.26	6888.31	6995.48	7097.85	2.1%
<b>Freight Rail 3/</b>												
Distillate (diesel)	519.56	522.70	525.81	528.83	532.27	535.53	537.80	541.34	547.08	551.58	555.85	0.8%
Total	519.56	522.70	525.81	528.83	532.27	535.53	537.80	541.34	547.08	551.58	555.85	0.8%
<b>Domestic Shipping</b>												
Distillate (diesel)	213.24	213.98	217.89	220.78	221.89	222.61	222.96	223.34	225.12	227.54	228.60	1.0%
Residual Oil	73.02	73.28	74.62	75.62	76.01	76.26	76.39	76.52	77.14	77.97	78.34	0.3%
Motor Gasoline	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	286.26	287.26	292.51	296.40	297.89	298.87	299.35	299.86	302.25	305.52	306.95	0.8%
<b>International Shipping</b>												
Distillate (diesel)	40.06	40.11	40.17	40.22	40.28	40.34	40.39	40.45	40.50	40.56	40.62	0.3%
Residual Oil	475.23	475.90	476.61	477.35	478.06	478.75	479.43	480.13	480.85	481.59	482.32	-0.4%
Total	515.29	516.01	516.78	517.57	518.34	519.08	519.82	520.57	521.35	522.15	522.94	-0.3%
<b>Air Transportation</b>												
Jet Fuel	3790.05	3840.63	3901.11	3964.69	4026.13	4071.18	4106.94	4137.20	4166.31	4194.66	4211.78	2.0%
Aviation Gasoline	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	3832.14	3882.72	3943.20	4006.78	4068.21	4113.26	4149.01	4179.28	4208.38	4236.74	4253.85	2.0%
<b>Miscellaneous Transportation</b>												
<b>Military Use</b>												
Jet Fuel	658.34	660.91	663.28	665.48	667.52	669.41	671.18	672.83	674.41	675.91	677.35	0.9%
Residual Fuel	20.47	20.55	20.62	20.69	20.76	20.82	20.87	20.93	20.98	21.02	21.07	0.1%
Distillate	129.66	130.16	130.63	131.06	131.45	131.82	132.17	132.49	132.80	133.10	133.38	0.7%
Total	808.47	811.62	814.53	817.23	819.73	822.05	824.22	826.25	828.19	830.03	831.80	0.9%
<b>Bus Transportation</b>												
Transit Bus (motor gasoline)	4.72	4.72	4.71	4.71	4.70	4.70	4.69	4.69	4.69	4.70	4.71	0.4%
Transit Bus (diesel)	101.00	100.97	100.87	100.71	100.59	100.53	100.37	100.30	100.29	100.37	100.51	0.3%
Intercity Bus (diesel)	39.04	39.02	38.98	38.92	38.87	38.85	38.79	38.76	38.76	38.79	38.85	0.3%
School Bus (motor gasoline)	5.52	5.52	5.51	5.50	5.50	5.50	5.49	5.49	5.49	5.49	5.50	0.4%
School Bus (diesel)	118.11	118.08	117.96	117.76	117.62	117.56	117.37	117.29	117.27	117.37	117.53	0.3%
Total	268.38	268.31	268.04	267.60	267.28	267.13	266.72	266.54	266.50	266.73	267.10	0.3%
<b>Rail Transportation</b>												
Intercity Rail (electricity)	12.95	13.17	13.39	13.61	13.83	14.05	14.27	14.51	14.74	14.99	15.24	1.7%
Intercity Rail (diesel)	20.55	20.89	21.23	21.58	21.92	22.27	22.63	22.99	23.37	23.76	24.16	1.7%
Transit Rail (electricity)	59.05	60.04	61.03	62.02	63.02	64.02	65.05	66.12	67.20	68.33	69.48	1.7%

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Commuter Rail (electricity)	20.54	20.88	21.23	21.57	21.92	22.27	22.63	23.00	23.38	23.77	24.17	1.7%
Commuter Rail (diesel)	32.57	33.12	33.66	34.21	34.75	35.30	35.87	36.45	37.05	37.67	38.30	1.7%
Total	145.66	148.10	150.55	152.99	155.44	157.91	160.45	163.07	165.74	168.52	171.36	1.7%
Recreation Boats	351.78	355.16	358.24	361.26	364.22	367.36	370.91	374.55	378.47	382.69	386.86	1.0%
Lubricants	229.19	232.29	236.57	241.25	245.72	250.00	254.08	258.32	263.03	267.82	272.56	1.4%
Pipeline Fuel Natural Gas	730.48	762.87	808.44	818.71	825.99	823.73	826.94	834.28	833.53	840.52	842.75	1.2%
Total Miscellaneous	2533.97	2578.35	2636.36	2659.05	2678.38	2688.19	2703.32	2723.01	2735.46	2756.31	2772.42	1.0%
Total Consumption	34750.84	35264.83	35849.38	36391.09	36909.81	37389.66	37867.04	38369.73	38905.07	39484.85	40049.55	1.8%

**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: 2003 compressed natural gas volumes: Energy Information Administration (EIA), AEO2005 National Energy Modeling System run supple3.d102004a. Other 2003 values derived using: EIA, Short-Term Energy Outlook, September 2004, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep04.pdf>; EIA, Fuel Oil and Kerosene Sales 2002, [http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/fuel\\_oil\\_and\\_kerosene\\_sales/historical/2002/foks\\_2002.html](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2002/foks_2002.html); EIA, State Energy Data 2001, DOE/EIA-0214(2001) (Washington, DC, November 2004); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, 21, 22, and 23 and Annual (Oak Ridge, TN, September 2003); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.



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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	15148.08	15274.23	15519.67	15713.13	15974.08	16247.27	16521.36	16787.88	17030.99	17232.89	17432.95	17632.89	17837.60
TDI Diesel ICE	224.53	241.75	276.15	311.39	345.52	377.51	409.71	440.48	474.68	507.00	539.33	571.77	605.16
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.61	0.50	0.46	0.38	0.37	0.35	0.33	0.31	0.29	0.27	0.25	0.23	0.21
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	213.82	271.89	331.33	388.43	441.84	521.60	601.13	679.97	760.27	837.04	911.93	984.26	1054.31
Ethanol ICE	0.27	0.30	0.33	0.37	0.41	0.44	0.48	0.52	0.56	0.60	0.65	0.69	0.74
Total Alcohol	214.70	272.69	332.12	389.18	442.61	522.39	601.94	680.80	761.13	837.92	912.83	985.18	1055.26
Natural Gas Technology													
Compressed Natural Gas ICE	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26
Compressed Natural Gas Bi-fuel	21.18	26.32	31.45	36.79	40.52	43.98	47.49	51.00	54.28	57.37	60.40	63.31	66.10
Liquefied Petroleum Gas ICE	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12
Liquefied Petroleum Gas Bi-fuel	45.14	59.91	75.50	115.45	129.57	141.97	154.37	166.27	177.11	186.97	196.69	206.12	215.15
Total Natural Gas Technology	66.64	86.56	107.28	152.58	170.44	186.31	202.22	217.64	231.76	244.71	257.47	269.81	281.63
Electric Technology													
Electric Vehicle	1.89	2.43	2.90	3.38	3.67	3.88	4.08	4.32	4.54	4.75	5.02	5.28	5.53
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	2.15	4.46	6.84	9.86
Electric-Gasoline Hybrid	1.86	3.57	6.97	16.11	25.95	47.72	70.58	100.64	131.03	167.30	204.28	242.22	280.83
Total Electricity	3.75	6.00	9.87	19.49	29.62	51.59	74.66	104.96	136.63	174.20	213.76	254.34	296.22
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	0.05	0.09	0.13	0.23	0.30	0.37
Total Fuel Cell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.23	0.30	0.37
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	15332.45	15500.36	15790.56	16038.74	16367.84	16753.22	17139.00	17522.71	17884.82	18207.72	18527.12	18844.28	19163.88
Distillate (diesel)	224.53	241.75	276.15	311.39	345.52	377.51	409.71	440.48	474.68	507.00	539.33	571.77	605.16
Methanol	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
Ethanol	0.80	1.06	1.05	1.17	1.20	1.40	1.56	1.75	2.04	2.28	2.46	2.57	2.71
Compressed Natural Gas	11.98	18.53	22.03	25.76	28.36	30.77	33.21	35.65	37.93	40.08	42.18	44.21	46.14
Liquefied Petroleum Gas	10.97	15.10	17.42	26.34	34.98	37.45	40.56	43.48	45.94	48.84	50.75	52.95	55.60
Electricity	1.89	2.43	2.90	3.38	3.67	3.88	4.08	4.32	4.54	4.75	5.02	5.28	5.53
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.23	0.30	0.37

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Light-Duty Consumption by Technology Type												
Conventional Vehicles 1/												
Gasoline ICE Vehicles	18043.17	18233.21	18422.92	18603.65	18784.07	18963.39	19161.82	19375.17	19609.30	19879.81	20160.14	1.3%
TDI Diesel ICE	639.95	674.79	710.57	745.87	780.97	818.88	857.48	896.96	937.61	978.74	1019.40	6.8%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	0.19	0.17	0.15	0.13	0.12	0.13	0.12	0.10	0.09	0.08	0.07	-8.5%
Methanol ICE	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	1121.22	1184.68	1245.61	1303.18	1357.65	1409.02	1459.36	1508.77	1557.01	1606.63	1655.49	8.6%
Ethanol ICE	0.79	0.84	0.89	0.94	0.99	1.05	1.10	1.15	1.21	1.28	1.34	7.0%
Total Alcohol	1122.19	1185.68	1246.65	1304.25	1358.76	1410.20	1460.58	1510.03	1558.32	1607.99	1656.90	8.5%
Natural Gas Technology												
Compressed Natural Gas ICE	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	1.9%
Compressed Natural Gas Bi-fuel	68.75	71.27	73.71	76.03	78.24	80.35	82.41	84.45	86.42	88.47	90.52	5.8%
Liquefied Petroleum Gas ICE	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	-1.0%
Liquefied Petroleum Gas Bi-fuel	223.68	231.80	239.60	246.98	253.94	260.57	267.01	273.35	279.40	286.01	292.57	7.5%
Total Natural Gas Technology	292.80	303.45	313.69	323.39	332.56	341.30	349.81	358.19	366.20	374.87	383.48	7.0%
Electric Technology												
Electric Vehicle	5.88	6.24	6.61	7.17	7.71	8.24	8.78	9.31	9.81	10.35	10.88	7.1%
Electric-Diesel Hybrid	14.37	19.01	24.55	30.15	35.76	43.44	51.18	58.99	67.00	74.99	82.84	N/A
Electric-Gasoline Hybrid	320.22	359.19	397.31	434.52	470.80	504.87	538.48	571.62	604.46	637.53	670.25	26.9%
Total Electricity	340.47	384.44	428.47	471.84	514.27	556.54	598.44	639.92	681.27	722.87	763.97	24.6%
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	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	N/A
Fuel Cell Hydrogen	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	N/A
Total Fuel Cell	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	N/A
Light-Duty Consumption by Fuel Type 1/												
Motor Gasoline	19481.96	19779.72	20073.01	20352.70	20628.10	20896.28	21182.34	21481.50	21799.88	22156.42	22521.06	1.7%
Distillate (diesel)	639.95	674.79	710.57	745.87	780.97	818.88	857.48	896.96	937.61	978.74	1019.40	6.8%
Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.2%
Ethanol	2.85	3.10	3.34	3.56	3.52	3.87	3.85	3.97	4.14	4.23	4.41	6.7%
Compressed Natural Gas	47.98	49.73	51.42	53.03	54.56	56.03	57.46	58.87	60.23	61.65	63.08	5.7%
Liquefied Petroleum Gas	57.49	59.43	61.88	63.84	65.27	66.64	67.92	69.54	70.76	72.02	73.61	7.5%
Electricity	5.88	6.24	6.61	7.17	7.71	8.24	8.78	9.31	9.81	10.35	10.88	7.1%
Liquid Hydrogen	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	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, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	401.8	403.1	413.7	416.1	413.3	399.6	393.9	391.4	384.9	378.2	378.7	375.5	372.5
TDI Diesel ICE	0.3	0.4	1.0	1.0	0.9	1.1	1.1	1.0	1.2	1.2	1.2	1.2	1.2
Total Conventional	402.1	403.5	414.6	417.1	414.2	400.7	395.0	392.5	386.1	379.4	379.8	376.7	373.7
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	19.0	19.1	19.7	19.7	19.5	23.5	23.0	22.9	26.7	26.2	26.2	26.0	25.7
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	0.1
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	1.4	1.5	2.9	3.0	3.7
Electric-Gasoline Hybrid	1.0	2.2	4.3	4.1	4.1	12.7	13.0	17.0	16.7	20.0	19.9	20.3	20.5
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	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	0.1	0.1
Total Alternatives	23.0	24.2	27.0	26.8	26.6	39.1	38.9	42.6	47.5	50.2	51.7	52.1	52.6
Percent Alternative Car Sales	5.41	5.66	6.11	6.04	6.03	8.90	8.96	9.80	10.95	11.69	11.98	12.14	12.34
Total New Car Sales	425.1	427.7	441.6	443.9	440.8	439.8	433.8	435.1	433.6	429.6	431.5	428.7	426.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	369.7	368.5	357.6	364.6	376.5	372.3	375.7	384.4	387.6	387.8	396.6	401.1	405.6
TDI Diesel ICE	16.7	16.5	33.1	34.4	34.1	33.0	32.5	31.8	35.1	34.6	34.8	35.2	36.3
Total Conventional	386.4	385.0	390.7	399.0	410.6	405.2	408.2	416.1	422.8	422.5	431.4	436.3	441.9
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	18.1	18.7	18.6	20.0	20.7	37.0	37.4	38.5	38.9	39.1	40.2	40.7	41.3
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	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.6	0.5	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	5.9	6.3	10.8	11.2	14.0	14.4	17.6	18.5	19.4	20.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.6	1.6	1.6	1.7	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	5.4	5.4	5.5	5.7	5.8	6.1	6.1	6.3	6.4	6.4	6.6	6.6	6.7
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.1
Total Alternatives	25.3	25.9	25.9	33.5	35.0	56.0	56.9	61.1	62.2	65.5	68.2	69.4	71.0
Percent Alternative Light Truck Sales	6.15	6.30	6.22	7.75	7.85	12.15	12.23	12.81	12.83	13.43	13.64	13.73	13.84
Total New Truck Sales	411.8	410.8	416.7	432.5	445.6	461.3	465.1	477.2	485.0	488.0	499.6	505.7	512.9
Percent Total Alternative Sales	5.77	5.97	6.17	6.89	6.94	10.56	10.65	11.37	11.94	12.62	12.87	13.00	13.16
EPACT Legislative Alternative Sales	13.67	13.59	13.77	14.10	14.32	14.62	14.59	14.82	14.92	14.97	15.27	15.40	15.56
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	12.78	19.08	19.37	19.31	27.41	27.60	26.60	36.98	33.09	30.24
Total Vehicles Sales	836.8	838.5	858.3	876.4	886.4	901.1	899.0	912.3	918.6	917.6	931.1	934.5	939.2

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>New Car Sales 1/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	367.6	369.8	373.0	374.8	374.3	375.2	375.7	377.8	380.3	381.5	383.4	-0.2%
TDI Diesel ICE	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	7.2%
Total Conventional	368.8	371.0	374.3	376.1	375.7	376.6	377.2	379.3	381.9	383.1	385.0	-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	-0.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	25.3	25.5	25.7	25.7	25.6	25.6	25.6	25.7	25.9	25.9	26.1	1.4%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.0%
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%
Electric-Diesel Hybrid	3.8	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.1	N/A
Electric-Gasoline Hybrid	20.8	21.0	21.2	21.4	21.4	21.5	21.6	21.7	21.9	21.9	22.1	11.1%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.1%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-0.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
Fuel Cell Hydrogen	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	N/A
Total Alternatives	52.7	53.2	53.7	54.3	54.1	54.2	54.3	54.6	55.0	55.2	55.4	3.8%
Percent Alternative Car Sales	12.50	12.53	12.55	12.61	12.59	12.59	12.59	12.58	12.58	12.59	12.58	3.7%
Total New Car Sales	421.6	424.2	428.0	430.4	429.8	430.8	431.5	433.8	436.8	438.3	440.4	0.1%
<b>New Light Truck Sales 2/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	405.2	413.1	421.1	427.4	431.4	435.9	442.7	451.1	460.1	469.7	479.9	1.2%
TDI Diesel ICE	37.0	38.1	39.2	40.2	41.0	42.4	43.2	44.4	46.3	47.5	47.8	4.9%
Total Conventional	442.2	451.2	460.3	467.7	472.5	478.2	485.9	495.5	506.4	517.2	527.7	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	1.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	41.3	42.3	43.4	44.3	44.8	45.4	46.4	47.6	48.9	50.4	51.8	4.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.7	0.8	0.8	1.4	1.3	1.3	1.3	1.3	1.3	1.4	1.4	10.0%
Electric-Diesel Hybrid	1.5	1.6	2.3	2.4	2.4	4.7	4.8	4.9	5.1	5.2	5.3	N/A
Electric-Gasoline Hybrid	21.1	21.8	22.1	22.7	23.2	22.7	23.4	24.2	25.1	26.0	27.1	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Compressed Natural Gas Bi-fuel	2.0	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.5	1.9%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5%
Liquefied Petroleum Gas Bi-fuel	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.7	7.8	8.0	8.2	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	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	N/A
Fuel Cell Hydrogen	0.3	0.3	0.3	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	N/A
Total Alternatives	73.8	75.8	78.1	80.8	81.9	84.4	86.4	88.7	91.3	94.2	97.0	6.2%
Percent Alternative Light Truck Sales	14.30	14.38	14.51	14.74	14.78	15.00	15.09	15.19	15.27	15.41	15.52	4.2%
Total New Truck Sales	516.0	527.0	538.4	548.5	554.4	562.6	572.3	584.3	597.6	611.5	624.7	1.9%
Percent Total Alternative Sales	13.49	13.55	13.64	13.80	13.83	13.96	14.01	14.07	14.14	14.23	14.30	4.0%
EPACT Legislative Alternative Sales	15.60	15.89	16.20	16.47	16.61	16.82	17.06	17.37	17.72	18.07	18.41	1.4%
ZEVP Legislative Alternative Sales	45.29	48.00	49.28	69.90	68.18	67.74	68.96	69.37	68.76	73.11	72.97	N/A
Total Vehicles Sales	937.5	951.2	966.4	978.9	984.3	993.5	1003.7	1018.1	1034.5	1049.7	1065.1	1.1%

**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1154.2	1137.6	1154.0	1151.4	1139.1	1097.9	1079.0	1069.3	1048.4	1027.3	1025.6	1014.3	1003.3
TDI Diesel ICE	0.9	1.1	2.8	2.9	2.7	3.1	3.0	2.9	3.3	3.2	3.2	3.2	3.3
Total Conventional	1155.0	1138.7	1156.9	1154.3	1141.7	1101.0	1082.0	1072.2	1051.7	1030.5	1028.8	1017.5	1006.6
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	54.5	54.0	54.9	54.4	53.7	64.6	63.1	62.5	72.6	71.1	71.0	70.2	69.3
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	4.0	8.0	8.2	10.1
Electric-Gasoline Hybrid	2.9	6.1	12.1	11.3	11.2	34.6	35.4	46.2	45.2	53.8	53.5	54.4	54.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.7	1.6	1.6	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.4	6.2	6.2	6.1	5.9	5.7	5.5	5.4	5.2	5.1	5.2	5.1	5.1
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Total Alternatives	65.9	68.3	75.2	74.2	73.1	107.2	106.1	116.1	129.0	136.0	139.6	140.1	141.2
Percent Alternative Car Sales	5.40	5.66	6.11	6.04	6.01	8.87	8.93	9.77	10.92	11.66	11.95	12.10	12.30
Total New Car Sales	1221.0	1207.1	1232.1	1228.5	1214.8	1208.2	1188.1	1188.3	1180.6	1166.5	1168.4	1157.6	1147.8
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1066.2	1036.3	991.4	1002.9	1035.6	1021.3	1027.6	1048.5	1053.9	1051.6	1072.6	1081.3	1090.5
TDI Diesel ICE	43.4	50.4	99.1	101.8	96.4	92.3	91.0	88.7	98.2	96.5	96.8	97.8	100.2
Total Conventional	1109.6	1086.7	1090.5	1104.6	1132.0	1113.6	1118.5	1137.2	1152.0	1148.1	1169.4	1179.1	1190.7
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	52.4	52.5	51.7	55.0	57.0	101.6	102.4	104.9	105.9	105.9	108.7	109.8	111.1
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	0.7	0.7	0.7	0.9	0.9	0.9	1.2	1.1	1.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	16.3	17.3	29.4	30.5	37.8	39.0	47.3	49.7	51.9	54.3
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	4.7	4.6	4.6	4.7	4.8	5.0	5.0	5.1	5.2	5.2	5.3	5.4	5.4
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	15.5	15.2	15.2	15.7	16.1	16.6	16.7	17.1	17.3	17.4	17.7	17.9	18.1
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	0.3	0.3	0.3	0.6	0.3	0.2
Total Alternatives	73.1	72.8	72.0	92.3	96.0	153.4	155.3	166.1	168.6	177.0	183.3	186.4	190.1
Percent Alternative Light Truck Sales	6.18	6.28	6.20	7.71	7.82	12.11	12.19	12.75	12.77	13.36	13.55	13.65	13.77
Total New Truck Sales	1182.7	1159.5	1162.6	1197.0	1228.0	1267.0	1273.9	1303.3	1320.6	1325.1	1352.7	1365.4	1380.8
Percent Total Alternative Sales	5.78	5.96	6.15	6.87	6.92	10.53	10.62	11.32	11.90	12.56	12.81	12.94	13.10
EPACT Legislative Alternative Sales	39.27	38.36	38.42	39.02	39.46	40.15	39.96	40.47	40.63	40.64	41.34	41.58	41.89
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	23.24	34.68	35.18	35.05	49.76	50.09	48.25	67.07	60.00	54.81
Total Vehicles Sales	2403.6	2366.5	2394.7	2425.5	2442.8	2475.2	2462.0	2491.6	2501.3	2491.6	2521.1	2523.0	2528.6

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>New Car Sales 1/</b>												
<b>Conventional Vehicles</b>												
Gasoline ICE Vehicles	987.5	990.3	996.0	998.1	993.8	992.8	991.1	993.3	996.8	996.7	998.2	-0.6%
TDI Diesel ICE	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.2	4.4	4.4	6.7%
<b>Total Conventional</b>	<b>990.8</b>	<b>993.8</b>	<b>999.6</b>	<b>1001.7</b>	<b>997.5</b>	<b>996.7</b>	<b>995.0</b>	<b>997.4</b>	<b>1001.0</b>	<b>1001.0</b>	<b>1002.7</b>	<b>-0.6%</b>
<b>Alternative-Fuel Vehicles</b>												
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	-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	N/A
Ethanol-Flex Fuel ICE	68.0	68.2	68.5	68.5	68.0	67.8	67.6	67.6	67.8	67.7	67.8	1.0%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.9%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.8%
Electric-Diesel Hybrid	10.4	10.5	10.5	10.6	10.6	10.7	10.7	10.7	10.9	10.9	10.8	N/A
Electric-Gasoline Hybrid	55.2	55.6	56.2	56.5	56.4	56.4	56.4	56.6	56.8	56.8	57.0	10.7%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2%
Compressed Natural Gas Bi-fuel	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.3%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.1	-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	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	N/A
Fuel Cell Hydrogen	0.4	0.5	0.5	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	N/A
<b>Total Alternatives</b>	<b>140.9</b>	<b>141.7</b>	<b>142.7</b>	<b>143.6</b>	<b>142.9</b>	<b>142.7</b>	<b>142.4</b>	<b>142.7</b>	<b>143.3</b>	<b>143.3</b>	<b>143.4</b>	<b>3.4%</b>
<b>Percent Alternative Car Sales</b>	<b>12.45</b>	<b>12.48</b>	<b>12.50</b>	<b>12.54</b>	<b>12.53</b>	<b>12.53</b>	<b>12.52</b>	<b>12.52</b>	<b>12.52</b>	<b>12.52</b>	<b>12.52</b>	<b>3.7%</b>
<b>Total New Car Sales</b>	<b>1131.7</b>	<b>1135.5</b>	<b>1142.3</b>	<b>1145.3</b>	<b>1140.3</b>	<b>1139.4</b>	<b>1137.5</b>	<b>1140.1</b>	<b>1144.3</b>	<b>1144.4</b>	<b>1146.1</b>	<b>-0.2%</b>
<b>New Light Truck Sales 2/</b>												
<b>Conventional Vehicles</b>												
Gasoline ICE Vehicles	1086.7	1104.6	1122.7	1136.9	1143.7	1151.6	1166.0	1184.2	1203.6	1224.9	1247.3	0.8%
TDI Diesel ICE	101.9	104.8	107.4	110.0	112.0	115.3	117.2	120.3	125.1	128.0	128.3	4.3%
<b>Total Conventional</b>	<b>1188.5</b>	<b>1209.4</b>	<b>1230.0</b>	<b>1246.8</b>	<b>1255.7</b>	<b>1267.0</b>	<b>1283.2</b>	<b>1304.5</b>	<b>1328.7</b>	<b>1352.9</b>	<b>1375.7</b>	<b>1.1%</b>
<b>Alternative-Fuel Vehicles</b>												
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	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	N/A
Ethanol-Flex Fuel ICE	110.7	113.1	115.6	117.7	118.8	119.9	122.1	124.9	127.8	131.2	134.4	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	N/A
Electric Vehicle	1.5	1.6	1.7	2.7	2.6	2.6	2.6	2.6	2.6	2.8	2.8	8.2%
Electric-Diesel Hybrid	4.2	4.3	6.3	6.5	6.6	12.5	12.8	13.1	13.5	13.8	13.9	N/A
Electric-Gasoline Hybrid	56.2	57.7	58.4	59.9	61.0	59.5	61.1	63.0	65.0	67.2	69.8	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Compressed Natural Gas Bi-fuel	5.5	5.6	5.7	5.8	5.8	5.9	5.9	6.1	6.2	6.3	6.4	1.5%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0%
Liquefied Petroleum Gas Bi-fuel	18.2	18.5	18.8	19.1	19.3	19.5	19.8	20.1	20.5	20.9	21.3	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	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	N/A
Fuel Cell Hydrogen	0.5	0.6	0.6	1.2	1.2	1.1	1.2	1.2	1.2	1.3	1.3	N/A
<b>Total Alternatives</b>	<b>196.7</b>	<b>201.3</b>	<b>207.0</b>	<b>212.8</b>	<b>215.2</b>	<b>221.0</b>	<b>225.4</b>	<b>230.9</b>	<b>236.9</b>	<b>243.6</b>	<b>250.0</b>	<b>5.8%</b>
<b>Percent Alternative Light Truck Sales</b>	<b>14.20</b>	<b>14.27</b>	<b>14.40</b>	<b>14.58</b>	<b>14.63</b>	<b>14.85</b>	<b>14.94</b>	<b>15.04</b>	<b>15.13</b>	<b>15.26</b>	<b>15.38</b>	<b>4.2%</b>
<b>Total New Truck Sales</b>	<b>1385.2</b>	<b>1410.7</b>	<b>1437.0</b>	<b>1459.7</b>	<b>1470.8</b>	<b>1488.0</b>	<b>1508.7</b>	<b>1535.4</b>	<b>1565.5</b>	<b>1596.5</b>	<b>1625.7</b>	<b>1.5%</b>
<b>Percent Total Alternative Sales</b>	<b>13.41</b>	<b>13.47</b>	<b>13.56</b>	<b>13.68</b>	<b>13.71</b>	<b>13.85</b>	<b>13.90</b>	<b>13.97</b>	<b>14.03</b>	<b>14.12</b>	<b>14.19</b>	<b>4.0%</b>
EPACT Legislative Alternative Sales	41.89	42.54	43.24	43.82	44.06	44.48	44.97	45.65	46.42	47.19	47.92	1.0%
ZEVP Legislative Alternative Sales	82.07	86.95	89.27	126.59	123.44	122.62	124.80	125.51	124.39	132.21	131.92	N/A
<b>Total Vehicles Sales</b>	<b>2517.0</b>	<b>2546.2</b>	<b>2579.3</b>	<b>2605.0</b>	<b>2611.2</b>	<b>2627.4</b>	<b>2646.1</b>	<b>2675.5</b>	<b>2709.8</b>	<b>2740.8</b>	<b>2771.8</b>	<b>0.7%</b>



**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1229.0	1209.1	1223.9	1218.6	1197.1	1149.4	1126.4	1113.6	1088.9	1064.6	1060.7	1047.2	1034.0
TDI Diesel ICE	1.0	1.0	2.8	2.8	2.8	3.2	3.1	3.0	3.4	3.4	3.4	3.4	3.4
Total Conventional	1230.0	1210.1	1226.7	1221.4	1200.0	1152.6	1129.5	1116.6	1092.4	1068.0	1064.1	1050.5	1037.4
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	58.0	57.3	58.3	57.6	56.4	67.7	65.9	65.1	75.4	73.7	73.5	72.4	71.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
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	4.1	4.2	8.3	8.5	10.4
Electric-Gasoline Hybrid	3.1	6.4	12.5	11.7	11.8	36.1	36.7	47.9	46.8	55.6	55.1	56.0	56.1
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.8	1.7	1.7	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.8	6.6	6.6	6.5	6.2	6.0	5.8	5.6	5.4	5.3	5.3	5.3	5.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	70.2	72.5	79.5	78.2	76.8	112.1	110.6	120.7	133.8	140.8	144.2	144.2	145.1
Percent Alternative Car Sales	5.40	5.65	6.08	6.02	6.01	8.86	8.92	9.75	10.91	11.65	11.94	12.07	12.27
Total New Car Sales	1300.2	1282.6	1306.2	1299.6	1276.7	1264.7	1240.0	1237.3	1226.2	1208.8	1208.3	1194.7	1182.5
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1132.3	1106.6	1061.5	1071.6	1086.8	1069.3	1073.7	1093.5	1094.4	1089.7	1110.0	1115.9	1123.5
TDI Diesel ICE	49.6	47.8	94.0	96.7	103.2	96.7	94.0	91.3	102.8	100.8	100.9	102.0	104.1
Total Conventional	1181.9	1154.4	1155.5	1168.4	1190.1	1166.0	1167.7	1184.8	1197.3	1190.5	1210.9	1217.9	1227.6
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	55.5	56.1	55.3	58.7	59.8	106.4	106.9	109.3	109.9	109.7	112.4	113.3	114.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.5	0.5	0.5	0.5	0.5	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	16.9	18.1	30.7	31.7	39.2	40.4	48.8	51.2	53.4	55.8
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	5.0	4.9	4.9	5.0	5.1	5.2	5.2	5.4	5.4	5.4	5.5	5.6	5.6
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	16.5	16.2	16.2	16.6	16.9	17.4	17.4	17.8	18.0	18.0	18.3	18.5	18.7
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	77.6	77.7	76.9	97.8	100.5	160.3	161.9	172.3	174.3	182.6	188.1	191.3	195.0
Percent Alternative Light Truck Sales	6.16	6.31	6.24	7.73	7.79	12.09	12.18	12.69	12.71	13.30	13.44	13.58	13.71
Total New Truck Sales	1259.5	1232.1	1232.4	1266.2	1290.6	1326.3	1329.6	1357.0	1371.6	1373.1	1398.9	1409.3	1422.6
Percent Total Alternative Sales	5.77	5.97	6.16	6.86	6.91	10.51	10.60	11.29	11.86	12.53	12.75	12.89	13.06
EPACT Legislative Alternative Sales	41.81	40.76	40.73	41.27	41.47	42.03	41.70	42.14	42.20	42.12	42.75	42.91	43.16
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	2559.7	2514.7	2538.6	2565.8	2567.4	2591.0	2569.6	2594.3	2597.7	2581.9	2607.3	2604.0	2605.1

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>New Car Sales 1/</b>												
<b>Conventional Vehicles</b>												
Gasoline ICE Vehicles	1016.0	1017.1	1020.9	1021.4	1014.9	1011.9	1008.2	1008.4	1009.8	1007.8	1007.2	-0.8%
TDI Diesel ICE	3.5	3.6	3.7	3.8	3.8	4.0	4.0	4.2	4.4	4.5	4.6	6.9%
<b>Total Conventional</b>	<b>1019.5</b>	<b>1020.7</b>	<b>1024.5</b>	<b>1025.1</b>	<b>1018.8</b>	<b>1015.9</b>	<b>1012.2</b>	<b>1012.6</b>	<b>1014.2</b>	<b>1012.3</b>	<b>1011.8</b>	<b>-0.8%</b>
<b>Alternative-Fuel Vehicles</b>												
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	-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	N/A
Ethanol-Flex Fuel ICE	70.0	70.0	70.2	70.1	69.4	69.1	68.7	68.6	68.6	68.4	68.4	0.8%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	4.1%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.2%
Electric-Diesel Hybrid	10.7	10.8	10.9	11.0	11.0	11.0	11.0	11.0	11.1	11.2	11.0	N/A
Electric-Gasoline Hybrid	56.6	56.9	57.4	57.6	57.4	57.3	57.1	57.2	57.3	57.2	57.3	10.5%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Compressed Natural Gas Bi-fuel	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.5%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	5.1	5.1	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	-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	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	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	N/A
<b>Total Alternatives</b>	<b>144.4</b>	<b>144.9</b>	<b>145.7</b>	<b>145.8</b>	<b>144.9</b>	<b>144.5</b>	<b>143.9</b>	<b>144.0</b>	<b>144.3</b>	<b>144.0</b>	<b>143.8</b>	<b>3.2%</b>
<b>Percent Alternative Car Sales</b>	<b>12.41</b>	<b>12.43</b>	<b>12.45</b>	<b>12.45</b>	<b>12.45</b>	<b>12.45</b>	<b>12.45</b>	<b>12.45</b>	<b>12.45</b>	<b>12.45</b>	<b>12.44</b>	<b>3.7%</b>
<b>Total New Car Sales</b>	<b>1163.9</b>	<b>1165.5</b>	<b>1170.2</b>	<b>1171.0</b>	<b>1163.6</b>	<b>1160.4</b>	<b>1156.2</b>	<b>1156.5</b>	<b>1158.5</b>	<b>1156.2</b>	<b>1155.6</b>	<b>-0.5%</b>
<b>New Light Truck Sales 2/</b>												
<b>Conventional Vehicles</b>												
Gasoline ICE Vehicles	1118.3	1134.5	1150.3	1164.0	1168.7	1174.1	1186.4	1202.3	1219.3	1238.7	1258.5	0.6%
TDI Diesel ICE	105.7	108.8	111.7	114.4	116.1	119.6	121.4	124.5	129.3	132.1	132.4	4.7%
<b>Total Conventional</b>	<b>1224.0</b>	<b>1243.2</b>	<b>1262.0</b>	<b>1278.4</b>	<b>1284.8</b>	<b>1293.7</b>	<b>1307.8</b>	<b>1326.8</b>	<b>1348.6</b>	<b>1370.7</b>	<b>1390.9</b>	<b>0.9%</b>
<b>Alternative-Fuel Vehicles</b>												
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	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	N/A
Ethanol-Flex Fuel ICE	113.7	116.0	118.2	120.2	121.0	122.0	123.9	126.4	129.2	132.3	135.3	4.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	1.3%
Electric-Diesel Hybrid	4.3	4.5	6.5	6.7	6.8	12.9	13.1	13.4	13.9	14.1	14.2	N/A
Electric-Gasoline Hybrid	57.6	59.0	59.6	61.0	62.0	60.3	61.8	63.6	65.6	67.7	70.1	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Compressed Natural Gas Bi-fuel	5.6	5.7	5.8	5.9	5.9	6.0	6.0	6.1	6.3	6.4	6.5	1.3%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6%
Liquefied Petroleum Gas Bi-fuel	18.7	19.0	19.3	19.6	19.7	19.9	20.1	20.4	20.8	21.2	21.5	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	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	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	N/A
<b>Total Alternatives</b>	<b>200.6</b>	<b>204.8</b>	<b>210.1</b>	<b>214.0</b>	<b>216.1</b>	<b>221.7</b>	<b>225.6</b>	<b>230.7</b>	<b>236.3</b>	<b>242.3</b>	<b>248.3</b>	<b>5.4%</b>
<b>Percent Alternative Light Truck Sales</b>	<b>14.08</b>	<b>14.14</b>	<b>14.27</b>	<b>14.34</b>	<b>14.40</b>	<b>14.63</b>	<b>14.71</b>	<b>14.81</b>	<b>14.91</b>	<b>15.02</b>	<b>15.15</b>	<b>4.1%</b>
<b>Total New Truck Sales</b>	<b>1424.6</b>	<b>1448.0</b>	<b>1472.1</b>	<b>1492.4</b>	<b>1500.9</b>	<b>1515.4</b>	<b>1533.5</b>	<b>1557.5</b>	<b>1584.9</b>	<b>1613.0</b>	<b>1639.2</b>	<b>1.3%</b>
<b>Percent Total Alternative Sales</b>	<b>13.33</b>	<b>13.38</b>	<b>13.46</b>	<b>13.51</b>	<b>13.55</b>	<b>13.69</b>	<b>13.74</b>	<b>13.81</b>	<b>13.87</b>	<b>13.95</b>	<b>14.03</b>	<b>4.0%</b>
EPACT Legislative Alternative Sales	43.08	43.67	44.29	44.80	44.96	45.30	45.71	46.31	47.00	47.68	48.31	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	N/A
<b>Total Vehicles Sales</b>	<b>2588.4</b>	<b>2613.6</b>	<b>2642.3</b>	<b>2663.4</b>	<b>2664.6</b>	<b>2675.9</b>	<b>2689.6</b>	<b>2714.1</b>	<b>2743.4</b>	<b>2769.3</b>	<b>2794.8</b>	<b>0.5%</b>

**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	512.0	505.6	513.3	512.5	508.9	492.2	485.0	481.6	472.6	463.5	463.1	458.3	453.6
TDI Diesel ICE	0.4	0.5	1.4	1.4	1.2	1.4	1.3	1.3	1.5	1.4	1.4	1.5	1.5
Total Conventional	512.4	506.2	514.7	513.9	510.1	493.6	486.3	482.9	474.1	464.9	464.5	459.8	455.1
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	24.2	24.0	24.4	24.2	24.0	29.0	28.4	28.1	32.7	32.1	32.1	31.7	31.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.2	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	1.8	1.8	3.6	3.7	4.5
Electric-Gasoline Hybrid	1.3	2.7	5.4	5.1	5.0	15.4	15.7	20.6	20.2	24.1	24.0	24.4	24.5
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.4	2.3	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	29.2	30.4	33.5	33.1	32.6	47.9	47.5	52.1	58.0	61.2	62.8	63.0	63.5
Percent Alternative Car Sales	5.40	5.66	6.11	6.05	6.01	8.85	8.91	9.74	10.90	11.63	11.92	12.05	12.25
Total New Car Sales	541.6	536.6	548.2	547.0	542.7	541.5	533.8	534.9	532.0	526.1	527.4	522.8	518.7
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	472.4	457.5	435.3	440.9	462.7	458.5	463.0	473.4	475.7	475.1	485.2	489.0	493.6
TDI Diesel ICE	19.8	25.8	50.1	51.3	43.2	40.7	39.7	38.8	43.8	43.1	43.3	43.9	44.9
Total Conventional	492.3	483.3	485.5	492.3	505.9	499.2	502.7	512.3	519.5	518.2	528.5	532.9	538.4
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	23.2	23.1	22.7	24.2	25.5	45.6	46.1	47.3	47.8	47.8	49.1	49.6	50.2
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	7.2	7.7	13.1	13.6	16.9	17.5	21.2	22.3	23.3	24.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.1	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.9	6.8	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.8	8.0	8.1	8.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	32.4	32.1	31.8	40.7	42.7	68.6	69.7	74.5	75.6	79.5	82.1	83.7	85.5
Percent Alternative Light Truck Sales	6.17	6.23	6.14	7.64	7.79	12.09	12.18	12.69	12.71	13.29	13.44	13.57	13.70
Total New Truck Sales	524.7	515.4	517.2	533.0	548.6	567.8	572.4	586.7	595.1	597.6	610.5	616.6	624.0
Percent Total Alternative Sales	5.78	5.94	6.13	6.83	6.91	10.51	10.60	11.28	11.85	12.51	12.73	12.87	13.05
EPACT Legislative Alternative Sales	17.42	17.05	17.09	17.37	17.63	17.99	17.95	18.22	18.31	18.33	18.66	18.78	18.93
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	1066.3	1052.0	1065.4	1080.0	1091.3	1109.3	1106.2	1121.7	1127.2	1123.8	1137.9	1139.4	1142.6

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>New Car Sales 1/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	446.8	448.3	450.9	452.1	450.3	449.9	449.1	450.1	451.7	451.6	452.3	-0.5%
TDI Diesel ICE	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.0	6.2%
Total Conventional	448.3	449.8	452.5	453.8	451.9	451.6	450.9	452.0	453.6	453.6	454.3	-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	-0.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	30.8	30.9	31.0	31.0	30.8	30.7	30.6	30.6	30.7	30.7	30.7	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	4.1%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.9%
Electric-Diesel Hybrid	4.7	4.7	4.8	4.8	4.8	4.9	4.8	4.9	4.9	4.9	4.9	N/A
Electric-Gasoline Hybrid	24.8	25.0	25.3	25.4	25.4	25.4	25.4	25.5	25.6	25.6	25.6	10.7%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-0.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	-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	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	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	N/A
Total Alternatives	63.4	63.7	64.2	64.4	64.1	64.1	64.0	64.1	64.4	64.4	64.4	3.5%
Percent Alternative Car Sales	12.38	12.41	12.43	12.43	12.43	12.43	12.43	12.42	12.43	12.43	12.42	3.6%
Total New Car Sales	511.7	513.5	516.7	518.2	516.1	515.7	514.9	516.1	518.0	518.0	518.7	-0.2%
<b>New Light Truck Sales 2/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	492.4	500.7	508.8	516.0	519.2	522.7	529.2	537.4	546.1	555.9	565.8	1.0%
TDI Diesel ICE	45.7	47.2	48.5	49.8	50.7	52.3	53.2	54.7	56.9	58.3	58.6	3.8%
Total Conventional	538.1	547.8	557.3	565.8	569.8	575.0	582.5	592.1	603.1	614.2	624.4	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	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	N/A
Ethanol-Flex Fuel ICE	50.1	51.2	52.3	53.3	53.8	54.3	55.3	56.5	57.9	59.4	60.8	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	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	1.7%
Electric-Diesel Hybrid	1.9	1.9	2.8	2.9	3.0	5.7	5.8	5.9	6.1	6.3	6.3	N/A
Electric-Gasoline Hybrid	25.2	25.9	26.2	26.9	27.4	26.7	27.5	28.3	29.2	30.2	31.4	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Compressed Natural Gas Bi-fuel	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.9	2.9	1.6%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8%
Liquefied Petroleum Gas Bi-fuel	8.2	8.4	8.5	8.7	8.7	8.8	9.0	9.1	9.3	9.5	9.7	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	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	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	N/A
Total Alternatives	88.1	90.2	92.7	94.6	95.8	98.5	100.4	102.9	105.6	108.5	111.4	5.8%
Percent Alternative Light Truck Sales	14.07	14.14	14.27	14.33	14.39	14.62	14.71	14.81	14.90	15.01	15.14	4.1%
Total New Truck Sales	626.3	638.0	650.1	660.4	665.6	673.5	682.9	695.0	708.7	722.7	735.8	1.6%
Percent Total Alternative Sales	13.31	13.37	13.45	13.50	13.53	13.67	13.73	13.79	13.86	13.93	14.02	4.0%
EPACT Legislative Alternative Sales	18.94	19.24	19.56	19.83	19.94	20.13	20.36	20.66	21.01	21.36	21.69	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	N/A
<b>Total Vehicles Sales</b>	<b>1137.9</b>	<b>1151.6</b>	<b>1166.8</b>	<b>1178.6</b>	<b>1181.7</b>	<b>1189.2</b>	<b>1197.8</b>	<b>1211.1</b>	<b>1226.7</b>	<b>1240.7</b>	<b>1254.5</b>	<b>0.8%</b>

**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1473.6	1450.5	1475.5	1479.2	1470.9	1428.3	1414.8	1413.8	1397.1	1380.1	1388.8	1384.8	1380.7
TDI Diesel ICE	1.1	1.3	3.5	3.6	3.3	3.8	3.7	3.6	4.2	4.1	4.2	4.2	4.3
Total Conventional	1474.7	1451.8	1479.0	1482.8	1474.2	1432.1	1418.5	1417.4	1401.3	1384.2	1393.0	1389.0	1385.1
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	69.5	68.8	70.2	69.9	69.3	84.1	82.8	82.6	96.8	95.5	96.2	95.8	95.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.1	10.4	10.7	13.3
Electric-Gasoline Hybrid	3.7	7.6	15.0	14.2	14.2	44.3	45.5	60.0	59.4	71.2	71.4	73.2	74.1
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.1	2.1	2.1	2.4	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	8.2	7.9	7.9	7.9	7.6	7.5	7.2	7.1	6.9	6.9	7.0	7.0	7.0
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	84.1	86.9	95.8	94.9	94.1	138.7	138.3	152.4	170.7	181.3	187.6	189.4	192.4
Percent Alternative Car Sales	5.40	5.65	6.08	6.02	6.00	8.83	8.88	9.71	10.86	11.58	11.87	12.00	12.20
Total New Car Sales	1558.8	1538.7	1574.8	1577.8	1568.3	1570.8	1556.7	1569.7	1572.0	1565.5	1580.6	1578.3	1577.5
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1360.0	1322.7	1271.1	1292.3	1344.8	1335.6	1355.4	1394.7	1411.7	1419.8	1460.2	1482.8	1507.3
TDI Diesel ICE	56.8	62.5	122.5	126.7	116.7	112.3	110.2	108.3	122.9	122.0	123.7	126.2	130.3
Total Conventional	1416.8	1385.2	1393.7	1419.0	1461.5	1447.8	1465.6	1503.0	1534.6	1541.8	1583.9	1609.0	1637.6
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	66.8	67.0	66.3	70.8	74.0	132.8	135.0	139.4	141.7	142.9	147.8	150.5	153.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	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	20.5	22.0	37.7	39.4	49.2	51.2	62.5	66.2	69.8	73.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	6.0	5.8	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.2	7.3	7.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	19.8	19.4	19.5	20.2	20.8	21.6	21.9	22.6	23.1	23.3	24.0	24.4	24.9
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	93.2	92.9	92.3	118.2	123.8	199.4	203.5	218.7	223.7	236.5	246.0	252.8	260.1
Percent Alternative Light Truck Sales	6.17	6.28	6.21	7.69	7.81	12.10	12.19	12.70	12.72	13.30	13.44	13.58	13.71
Total New Truck Sales	1510.0	1478.1	1485.9	1537.2	1585.3	1647.2	1669.1	1721.7	1758.3	1778.3	1829.9	1861.8	1897.7
Percent Total Alternative Sales	5.78	5.96	6.14	6.84	6.91	10.50	10.60	11.27	11.84	12.50	12.71	12.85	13.02
EPACT Legislative Alternative Sales	50.13	48.90	49.10	50.11	50.94	52.20	52.35	53.46	54.10	54.55	55.92	56.69	57.57
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	3068.8	3016.8	3060.8	3115.0	3153.6	3218.0	3225.9	3291.4	3330.3	3343.9	3410.5	3440.1	3475.2



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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>New Car Sales 1/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	1369.9	1384.6	1403.0	1417.1	1421.4	1430.5	1438.4	1451.9	1467.2	1477.4	1489.8	0.1%
TDI Diesel ICE	4.4	4.6	4.8	4.9	5.1	5.3	5.5	5.7	6.0	6.2	6.4	7.4%
Total Conventional	1374.3	1389.1	1407.8	1422.0	1426.5	1435.8	1443.8	1457.6	1473.2	1483.6	1496.2	0.1%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	94.3	95.3	96.5	97.2	97.2	97.6	98.0	98.8	99.7	100.3	101.1	1.8%
Ethanol ICE	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.8%
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.3%
Electric-Diesel Hybrid	13.8	14.1	14.3	14.5	14.7	14.9	15.0	15.2	15.5	15.6	15.6	N/A
Electric-Gasoline Hybrid	75.6	76.7	78.1	79.1	79.5	80.1	80.7	81.6	82.5	83.1	83.9	11.5%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Compressed Natural Gas Bi-fuel	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	0.4%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	6.9	7.0	7.1	7.2	7.2	7.2	7.3	7.3	7.4	7.5	7.5	-0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Total Alternatives	193.3	195.8	198.7	200.8	201.4	202.7	203.8	205.7	208.1	209.5	211.2	4.1%
Percent Alternative Car Sales	12.33	12.35	12.37	12.38	12.37	12.37	12.37	12.37	12.38	12.37	12.37	3.6%
Total New Car Sales	1567.6	1584.9	1606.5	1622.9	1627.9	1638.5	1647.6	1663.3	1681.2	1693.1	1707.3	0.5%
<b>New Light Truck Sales 2/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	1515.0	1551.8	1588.8	1623.3	1645.1	1668.6	1701.7	1740.3	1781.2	1825.6	1871.3	1.6%
TDI Diesel ICE	133.7	138.9	143.9	148.6	152.4	158.5	162.4	168.1	176.3	181.9	183.9	5.0%
Total Conventional	1648.7	1690.7	1732.7	1771.9	1797.6	1827.1	1864.1	1908.5	1957.5	2007.5	2055.2	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	2.3%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	154.1	158.6	163.3	167.6	170.3	173.3	177.6	183.0	188.7	194.9	201.1	5.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	2.3%
Electric-Diesel Hybrid	5.6	5.8	8.5	8.8	9.0	17.4	17.8	18.4	19.2	19.8	20.1	N/A
Electric-Gasoline Hybrid	76.8	79.5	81.1	83.8	86.0	84.6	87.5	90.9	94.6	98.5	102.9	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1%
Compressed Natural Gas Bi-fuel	7.6	7.8	8.0	8.2	8.3	8.4	8.6	8.8	9.1	9.3	9.6	2.3%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Liquefied Petroleum Gas Bi-fuel	25.2	25.8	26.5	27.1	27.5	28.1	28.7	29.4	30.2	31.0	31.8	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	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	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	N/A
Total Alternatives	270.0	278.3	288.2	296.4	302.1	312.7	321.2	331.5	342.7	354.5	366.5	6.4%
Percent Alternative Light Truck Sales	14.07	14.14	14.26	14.33	14.39	14.61	14.70	14.80	14.90	15.01	15.13	4.1%
Total New Truck Sales	1918.7	1969.1	2020.9	2068.3	2099.7	2139.8	2185.3	2240.0	2300.2	2362.0	2421.7	2.3%
Percent Total Alternative Sales	13.29	13.34	13.42	13.47	13.51	13.64	13.70	13.76	13.83	13.91	13.99	4.0%
EPACT Legislative Alternative Sales	58.02	59.38	60.81	62.09	62.90	63.96	65.14	66.60	68.21	69.81	71.38	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	N/A
Total Vehicles Sales	3486.3	3554.0	3627.4	3691.1	3727.5	3778.3	3833.0	3903.3	3981.4	4055.1	4129.1	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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	424.4	419.8	426.9	427.0	423.0	408.9	402.9	400.3	393.1	385.9	385.9	382.3	378.8
TDI Diesel ICE	0.3	0.4	1.1	1.1	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2
Total Conventional	424.7	420.2	428.0	428.1	424.0	410.0	404.0	401.3	394.3	387.1	387.1	383.5	380.0
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	20.0	19.9	20.3	20.2	19.9	24.1	23.6	23.4	27.2	26.7	26.7	26.4	26.2
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	0.1	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	1.5	1.5	3.0	3.1	3.8
Electric-Gasoline Hybrid	1.1	2.2	4.4	4.1	4.1	12.8	13.0	17.1	16.8	20.0	19.9	20.3	20.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.4	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	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	24.2	25.2	27.8	27.4	27.1	39.8	39.4	43.2	48.2	50.9	52.3	52.5	53.0
Percent Alternative Car Sales	5.40	5.65	6.09	6.02	6.00	8.84	8.89	9.73	10.88	11.61	11.90	12.04	12.24
Total New Car Sales	448.9	445.4	455.8	455.5	451.1	449.8	443.4	444.6	442.5	438.0	439.4	436.0	433.0
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	390.7	381.4	365.1	370.4	384.7	380.7	384.4	393.3	395.5	395.3	404.0	407.6	411.7
TDI Diesel ICE	17.4	19.7	38.4	39.5	35.7	34.0	33.2	32.4	36.7	36.2	36.4	37.0	37.9
Total Conventional	408.1	401.0	403.5	409.8	420.5	414.7	417.6	425.8	432.1	431.4	440.4	444.6	449.6
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	19.2	19.3	19.0	20.3	21.2	37.9	38.3	39.3	39.7	39.8	40.9	41.4	41.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	5.9	6.4	10.9	11.3	14.0	14.5	17.6	18.5	19.4	20.3
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	5.7	5.6	5.6	5.8	6.0	6.2	6.2	6.4	6.5	6.5	6.7	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	26.8	26.8	26.6	34.0	35.5	57.0	57.9	61.8	62.8	66.1	68.3	69.7	71.3
Percent Alternative Light Truck Sales	6.15	6.26	6.18	7.66	7.79	12.08	12.17	12.68	12.70	13.28	13.42	13.56	13.69
Total New Truck Sales	434.9	427.8	430.0	443.8	456.0	471.6	475.4	487.6	495.0	497.5	508.7	514.3	520.9
Percent Total Alternative Sales	5.77	5.95	6.13	6.83	6.90	10.50	10.59	11.27	11.84	12.50	12.72	12.86	13.03
EPACT Legislative Alternative Sales	14.44	14.15	14.21	14.47	14.65	14.95	14.91	15.14	15.23	15.26	15.55	15.66	15.80
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	883.8	873.2	885.8	899.3	907.0	921.4	918.8	932.2	937.5	935.5	948.1	950.3	953.9

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	373.4	375.0	377.6	379.0	377.8	377.8	377.5	378.7	380.3	380.6	381.5	-0.4%
TDI Diesel ICE	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	6.7%
Total Conventional	374.7	376.3	379.0	380.4	379.2	379.3	379.1	380.3	382.0	382.3	383.2	-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	-0.8%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	25.7	25.8	26.0	26.0	25.8	25.8	25.7	25.8	25.9	25.9	25.9	1.2%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.4%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.8%
Electric-Diesel Hybrid	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.2	4.2	4.1	N/A
Electric-Gasoline Hybrid	20.7	20.9	21.1	21.2	21.2	21.2	21.3	21.4	21.5	21.5	21.6	10.9%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-0.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-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	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	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	N/A
Total Alternatives	52.9	53.2	53.7	53.9	53.7	53.8	53.7	53.9	54.2	54.2	54.3	3.6%
Percent Alternative Car Sales	12.37	12.39	12.41	12.42	12.41	12.42	12.41	12.41	12.42	12.42	12.41	3.6%
Total New Car Sales	427.6	429.6	432.7	434.4	433.0	433.1	432.8	434.2	436.1	436.5	437.5	-0.1%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	411.2	418.5	425.7	432.2	435.3	438.6	444.5	451.8	459.5	468.0	476.8	1.0%
TDI Diesel ICE	38.6	39.9	41.0	42.1	42.9	44.3	45.1	46.4	48.4	49.6	49.8	4.3%
Total Conventional	449.8	458.4	466.8	474.3	478.2	483.0	489.7	498.2	507.9	517.6	526.7	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	1.7%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	41.8	42.8	43.8	44.6	45.1	45.6	46.4	47.5	48.7	50.0	51.3	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	N/A
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	1.7%
Electric-Diesel Hybrid	1.6	1.6	2.4	2.5	2.5	4.8	4.9	5.0	5.2	5.3	5.4	N/A
Electric-Gasoline Hybrid	21.0	21.6	21.9	22.5	22.9	22.4	23.0	23.7	24.5	25.4	26.4	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Compressed Natural Gas Bi-fuel	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	1.7%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Liquefied Petroleum Gas Bi-fuel	6.9	7.0	7.1	7.3	7.3	7.4	7.5	7.7	7.8	8.0	8.1	1.7%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Total Alternatives	73.6	75.4	77.6	79.2	80.3	82.6	84.3	86.5	88.8	91.3	93.8	5.9%
Percent Alternative Light Truck Sales	14.06	14.12	14.25	14.31	14.37	14.61	14.69	14.79	14.89	15.00	15.12	4.1%
Total New Truck Sales	523.4	533.7	544.3	553.6	558.5	565.6	574.0	584.7	596.7	609.0	620.5	1.7%
Percent Total Alternative Sales	13.30	13.35	13.44	13.48	13.52	13.66	13.71	13.78	13.85	13.92	14.00	4.0%
EPACT Legislative Alternative Sales	15.83	16.10	16.38	16.62	16.73	16.91	17.11	17.38	17.69	18.00	18.29	1.2%
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	N/A
Total Vehicles Sales	951.0	963.3	977.0	987.9	991.4	998.7	1006.8	1018.9	1032.8	1045.5	1058.0	0.9%

**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.

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

N/A = Not applicable.

Sources: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	821.7	815.5	832.7	836.5	829.1	803.3	794.3	792.6	782.3	771.9	776.1	773.2	770.3
TDI Diesel ICE	0.6	0.7	1.9	1.9	2.0	2.3	2.2	2.2	2.5	2.5	2.5	2.5	2.6
Total Conventional	822.3	816.3	834.7	838.4	831.1	805.6	796.6	794.8	784.8	774.4	778.6	775.7	772.9
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	38.8	38.7	39.6	39.6	39.1	47.3	46.5	46.3	54.2	53.4	53.7	53.5	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	0.2	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	3.0	3.1	6.1	6.3	7.9
Electric-Gasoline Hybrid	2.1	4.3	8.4	7.9	8.1	25.1	25.7	33.8	33.4	40.0	40.0	41.0	41.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.2	1.2	1.2	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	4.6	4.4	4.5	4.4	4.3	4.2	4.1	4.0	3.9	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	46.9	48.8	54.0	53.6	53.1	78.2	77.8	85.7	95.9	101.8	105.3	106.2	107.9
Percent Alternative Car Sales	5.40	5.65	6.08	6.01	6.01	8.84	8.90	9.73	10.89	11.62	11.91	12.04	12.25
Total New Car Sales	869.2	865.1	888.6	892.0	884.2	883.8	874.4	880.4	880.7	876.2	883.8	881.9	880.7
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	757.6	745.8	721.2	734.9	752.5	746.0	755.8	776.8	785.1	788.9	810.8	822.6	835.5
TDI Diesel ICE	32.5	32.9	65.0	67.2	71.8	69.0	67.8	66.5	75.2	74.5	75.4	76.8	79.2
Total Conventional	790.1	778.7	786.2	802.1	824.3	815.0	823.6	843.4	860.2	863.4	886.1	899.4	914.7
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	37.2	37.8	37.6	40.3	41.4	74.2	75.3	77.7	78.8	79.5	82.1	83.5	85.1
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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
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	11.5	12.5	21.3	22.2	27.7	28.8	35.1	37.2	39.1	41.2
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	3.3	3.3	3.3	3.4	3.5	3.7	3.7	3.8	3.9	3.9	4.0	4.1	4.2
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	11.0	10.9	11.0	11.4	11.7	12.2	12.3	12.7	12.9	13.1	13.4	13.6	13.9
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	51.9	52.4	52.3	67.0	69.5	111.8	113.9	122.3	124.9	131.9	137.1	140.8	144.8
Percent Alternative Light Truck Sales	6.16	6.30	6.23	7.71	7.78	12.06	12.15	12.66	12.68	13.26	13.40	13.54	13.67
Total New Truck Sales	842.0	831.0	838.5	869.1	893.8	926.8	937.5	965.6	985.1	995.3	1023.3	1040.2	1059.5
Percent Total Alternative Sales	5.77	5.97	6.15	6.85	6.90	10.49	10.58	11.26	11.83	12.49	12.71	12.85	13.02
EPACT Legislative Alternative Sales	27.95	27.49	27.71	28.33	28.72	29.37	29.41	29.98	30.31	30.53	31.27	31.68	32.14
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	1711.3	1696.1	1727.1	1761.2	1778.0	1810.5	1811.9	1846.1	1865.8	1871.5	1907.1	1922.1	1940.2

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	763.7	771.4	781.2	788.6	790.5	795.2	799.2	806.4	814.5	819.9	826.5	0.1%
TDI Diesel ICE	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.6	3.7	3.8	7.9%
Total Conventional	766.3	774.1	784.0	791.5	793.6	798.3	802.4	809.7	818.1	823.6	830.3	0.1%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	52.6	53.1	53.7	54.1	54.1	54.3	54.4	54.8	55.4	55.7	56.1	1.7%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	4.9%
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.4%
Electric-Diesel Hybrid	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.1	9.1	9.1	N/A
Electric-Gasoline Hybrid	42.2	42.8	43.6	44.1	44.3	44.6	44.9	45.4	45.9	46.2	46.6	11.5%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Compressed Natural Gas Bi-fuel	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	0.4%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.2	-0.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Total Alternatives	108.3	109.6	111.2	112.3	112.5	113.2	113.8	114.8	116.1	116.8	117.7	4.1%
Percent Alternative Car Sales	12.38	12.40	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.41	3.6%
Total New Car Sales	874.6	883.7	895.2	903.8	906.1	911.6	916.2	924.6	934.2	940.4	948.0	0.4%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	839.0	858.8	878.8	897.3	908.9	921.2	939.0	959.9	982.0	1006.1	1031.1	1.5%
TDI Diesel ICE	81.2	84.2	87.1	89.9	92.1	95.7	97.9	101.3	106.1	109.4	110.5	5.7%
Total Conventional	920.2	943.1	965.9	987.2	1001.0	1016.8	1037.0	1061.2	1088.0	1115.5	1141.6	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	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	N/A
Ethanol-Flex Fuel ICE	85.4	87.8	90.3	92.7	94.1	95.7	98.0	101.0	104.0	107.5	110.8	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	N/A
Electric Vehicle	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	2.2%
Electric-Diesel Hybrid	3.3	3.4	5.0	5.2	5.3	10.2	10.5	10.8	11.2	11.6	11.8	N/A
Electric-Gasoline Hybrid	42.9	44.3	45.2	46.6	47.8	46.9	48.5	50.4	52.4	54.5	57.0	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Compressed Natural Gas Bi-fuel	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.2	5.3	2.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2%
Liquefied Petroleum Gas Bi-fuel	14.0	14.4	14.8	15.1	15.3	15.6	15.9	16.3	16.8	17.2	17.6	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	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	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	N/A
Total Alternatives	150.2	154.8	160.2	164.6	167.7	173.6	178.3	183.9	190.0	196.5	203.1	6.4%
Percent Alternative Light Truck Sales	14.04	14.10	14.23	14.29	14.35	14.59	14.67	14.77	14.87	14.98	15.10	4.1%
Total New Truck Sales	1070.5	1097.9	1126.1	1151.9	1168.7	1190.5	1215.2	1245.1	1278.0	1311.9	1344.7	2.2%
Percent Total Alternative Sales	13.29	13.34	13.43	13.47	13.51	13.65	13.70	13.77	13.84	13.91	13.99	3.9%
EPACT Legislative Alternative Sales	32.37	33.11	33.88	34.58	35.01	35.58	36.23	37.02	37.90	38.78	39.63	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	N/A
Total Vehicles Sales	1945.1	1981.6	2021.3	2055.7	2074.8	2102.0	2131.5	2169.7	2212.2	2252.3	2292.7	1.4%

**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.



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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	461.1	466.1	481.9	488.5	481.0	464.7	458.6	457.2	453.4	449.2	453.0	452.0	452.0
TDI Diesel ICE	0.4	0.4	1.0	1.1	1.3	1.5	1.5	1.4	1.6	1.6	1.6	1.6	1.7
Total Conventional	461.5	466.5	483.0	489.5	482.3	466.2	460.1	458.6	455.0	450.8	454.6	453.6	453.7
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	21.8	22.1	22.9	23.1	22.7	27.4	26.8	26.7	31.4	31.1	31.4	31.3	31.2
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Electric 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	1.9	2.0	3.9	4.1	5.0
Electric-Gasoline Hybrid	1.2	2.5	4.9	4.7	5.0	15.3	15.7	20.7	20.1	24.2	24.2	25.0	25.2
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.6	2.5	2.6	2.6	2.5	2.4	2.3	2.3	2.3	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	26.4	27.9	31.3	31.3	31.2	46.0	45.9	50.6	56.6	60.4	62.7	63.5	64.6
Percent Alternative Car Sales	5.40	5.65	6.09	6.02	6.08	8.99	9.06	9.93	11.06	11.81	12.12	12.27	12.46
Total New Car Sales	487.9	494.4	514.3	520.9	513.5	512.2	506.0	509.2	511.6	511.2	517.3	517.1	518.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	424.0	427.5	419.7	431.3	429.8	426.1	430.5	442.6	450.5	454.8	468.9	476.2	486.4
TDI Diesel ICE	19.5	17.5	35.2	36.9	48.9	46.3	46.1	45.0	49.1	48.6	49.4	50.7	51.5
Total Conventional	443.5	444.9	454.9	468.2	478.7	472.4	476.6	487.6	499.6	503.4	518.3	527.0	537.9
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	20.8	21.7	21.9	23.6	23.7	42.4	42.9	44.3	45.3	45.8	47.5	48.4	49.5
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	0.3	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	6.8	7.6	12.9	13.5	16.8	17.3	21.3	22.6	23.9	25.1
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.2	6.2	6.4	6.7	6.8	7.0	7.1	7.3	7.5	7.6	7.9	8.0	8.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	29.0	30.0	30.4	39.3	40.4	64.7	65.9	70.9	72.6	77.3	80.6	83.0	85.6
Percent Alternative Light Truck Sales	6.15	6.32	6.26	7.75	7.78	12.05	12.15	12.70	12.69	13.31	13.46	13.60	13.73
Total New Truck Sales	472.6	474.9	485.2	507.5	519.1	537.2	542.5	558.5	572.2	580.6	598.9	609.9	623.4
Percent Total Alternative Sales	5.77	5.98	6.17	6.87	6.93	10.56	10.66	11.38	11.92	12.61	12.84	12.99	13.15
EPACT Legislative Alternative Sales	15.69	15.71	16.03	16.54	16.68	17.02	17.02	17.34	17.61	17.81	18.30	18.57	18.91
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	960.5	969.4	999.5	1028.4	1032.6	1049.4	1048.5	1067.7	1083.8	1091.8	1116.2	1127.0	1141.7

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	449.5	455.5	462.1	467.5	469.6	473.0	476.4	481.5	486.4	490.6	494.8	0.3%
TDI Diesel ICE	1.7	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.5	8.8%
Total Conventional	451.2	457.2	463.9	469.4	471.5	475.0	478.5	483.7	488.7	493.0	497.3	0.3%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	31.0	31.3	31.8	32.1	32.1	32.3	32.5	32.7	33.1	33.3	33.6	1.9%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.6%
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%
Electric-Diesel Hybrid	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.8	5.9	5.9	N/A
Electric-Gasoline Hybrid	25.7	26.1	26.7	27.1	27.2	27.5	27.7	28.0	28.4	28.6	28.9	11.9%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1%
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	0.0%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Total Alternatives	65.0	66.0	67.1	67.9	68.2	68.8	69.2	69.9	70.8	71.3	72.0	4.4%
Percent Alternative Car Sales	12.59	12.61	12.64	12.64	12.63	12.64	12.63	12.63	12.66	12.63	12.64	3.7%
Total New Car Sales	516.2	523.2	531.0	537.3	539.7	543.8	547.7	553.6	559.6	564.3	569.3	0.6%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	489.8	502.9	515.5	527.8	535.6	543.2	555.2	568.7	581.4	597.0	611.8	1.6%
TDI Diesel ICE	52.8	54.9	56.9	58.5	60.1	62.6	63.9	66.0	69.5	71.5	72.8	6.7%
Total Conventional	542.6	557.9	572.4	586.3	595.6	605.8	619.2	634.7	650.8	668.5	684.6	2.0%
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	2.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	49.9	51.5	53.0	54.5	55.5	56.5	58.0	59.8	61.6	63.8	65.8	5.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	2.5%
Electric-Diesel Hybrid	2.1	2.2	3.2	3.3	3.4	6.6	6.7	6.9	7.3	7.5	7.6	N/A
Electric-Gasoline Hybrid	26.2	27.1	27.7	28.6	29.4	28.9	29.8	31.1	32.4	33.7	35.3	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Compressed Natural Gas Bi-fuel	2.5	2.6	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.2	2.4%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3%
Liquefied Petroleum Gas Bi-fuel	8.3	8.5	8.8	9.0	9.1	9.3	9.5	9.8	10.0	10.3	10.6	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	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	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	N/A
Total Alternatives	89.2	92.1	95.6	98.5	100.5	104.3	107.3	110.9	114.7	118.7	122.9	6.6%
Percent Alternative Light Truck Sales	14.12	14.17	14.32	14.38	14.44	14.69	14.77	14.87	14.99	15.08	15.22	4.1%
Total New Truck Sales	631.8	650.0	668.0	684.8	696.1	710.2	726.4	745.6	765.6	787.2	807.5	2.4%
Percent Total Alternative Sales	13.43	13.47	13.57	13.62	13.65	13.80	13.85	13.92	14.00	14.06	14.15	4.0%
EPACT Legislative Alternative Sales	19.11	19.60	20.10	20.56	20.85	21.23	21.65	22.17	22.70	23.27	23.80	1.9%
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	N/A
Total Vehicles Sales	1148.0	1173.2	1199.1	1222.1	1235.9	1253.9	1274.1	1299.2	1325.1	1351.6	1376.8	1.6%

**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>New Car Sales 1/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1249.9	1237.1	1259.8	1263.4	1266.5	1231.3	1216.1	1208.8	1194.4	1175.9	1179.4	1171.4	1164.3
TDI Diesel ICE	1.0	1.4	3.8	3.9	3.0	3.5	3.7	3.8	4.0	4.2	4.2	4.2	4.3
Total Conventional	1250.9	1238.6	1263.6	1267.3	1269.4	1234.9	1219.8	1212.5	1198.4	1180.0	1183.6	1175.6	1168.5
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	59.0	58.7	59.9	59.7	59.7	72.5	71.1	70.6	82.7	81.4	81.7	81.0	80.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	5.2	10.1	10.4	12.8
Electric-Gasoline Hybrid	3.2	7.0	13.8	13.0	12.6	39.3	40.7	53.7	52.3	62.9	62.8	64.4	64.9
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.8	1.8	1.8	2.3	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.9	6.7	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.9	5.9	5.9	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	0.5	0.4
Total Alternatives	71.5	74.6	82.8	82.3	81.5	120.8	120.6	132.9	148.2	157.7	163.0	164.7	166.9
Percent Alternative Car Sales	5.41	5.68	6.15	6.10	6.03	8.91	9.00	9.88	11.01	11.79	12.10	12.29	12.50
Total New Car Sales	1322.4	1313.2	1346.4	1349.5	1350.9	1355.6	1340.3	1345.4	1346.6	1337.8	1346.6	1340.3	1335.4
<b>New Light Truck Sales 2/</b>													
Conventional Vehicles													
Gasoline ICE Vehicles	1150.9	1112.8	1055.3	1072.9	1151.3	1142.9	1147.6	1168.4	1190.3	1188.3	1218.7	1234.7	1251.7
TDI Diesel ICE	51.2	70.5	137.7	141.5	107.1	106.2	114.4	119.1	123.3	128.2	127.9	129.6	132.8
Total Conventional	1202.1	1183.3	1193.0	1214.4	1258.4	1249.1	1262.0	1287.5	1313.7	1316.5	1346.6	1364.3	1384.5
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	56.4	56.1	55.1	58.8	63.4	113.8	114.4	117.1	119.7	119.9	123.7	125.6	127.6
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.5	0.5	0.5	0.8	1.1	1.1	1.1	1.4	1.5	1.4	2.1	1.8	1.6
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	18.3	19.4	33.4	35.0	43.7	45.1	55.3	58.6	61.6	64.8
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	5.1	5.0	5.0	5.2	5.4	5.6	5.7	5.8	5.9	6.0	6.2	6.2	6.3
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	16.8	16.5	16.7	17.2	17.9	18.6	18.8	19.4	19.8	19.9	20.4	20.7	21.1
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	0.6	0.6	0.6	1.4	0.6	0.5
Total Alternatives	78.9	78.1	77.4	100.4	107.2	172.5	175.0	188.1	192.6	203.1	212.4	216.6	222.0
Percent Alternative Light Truck Sales	6.16	6.19	6.09	7.64	7.85	12.13	12.18	12.75	12.79	13.37	13.63	13.70	13.82
Total New Truck Sales	1280.9	1261.5	1270.4	1314.9	1365.6	1421.6	1437.1	1475.6	1506.3	1519.6	1559.0	1580.9	1606.5
Percent Total Alternative Sales	5.77	5.93	6.12	6.86	6.94	10.56	10.64	11.38	11.95	12.63	12.92	13.05	13.22
EPACT Legislative Alternative Sales	42.53	41.73	41.98	42.86	43.88	45.05	45.08	45.82	46.34	46.61	47.64	48.14	48.74
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	53.01	79.20	80.43	80.21	113.95	114.79	110.63	153.89	137.77	125.93
Total Vehicles Sales	2603.3	2574.7	2616.7	2664.4	2716.5	2777.3	2777.4	2821.0	2852.9	2857.4	2905.6	2921.2	2942.0

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>New Car Sales 1/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	1153.4	1162.4	1174.3	1183.4	1185.8	1190.6	1195.1	1203.7	1211.5	1219.4	1225.5	0.0%
TDI Diesel ICE	4.2	4.4	4.6	4.7	4.8	5.1	5.2	5.4	6.0	5.7	6.0	6.7%
Total Conventional	1157.5	1166.8	1179.0	1188.1	1190.6	1195.7	1200.3	1209.1	1217.5	1225.1	1231.5	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	-0.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	79.5	80.1	80.8	81.3	81.2	81.4	81.5	82.0	82.5	82.9	83.3	1.6%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	4.7%
Electric Vehicle	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8%
Electric-Diesel Hybrid	12.8	13.2	13.6	13.7	13.6	14.0	14.1	14.2	14.9	14.1	14.4	N/A
Electric-Gasoline Hybrid	66.0	66.9	68.0	68.6	68.8	69.2	69.5	70.2	70.7	71.2	71.8	11.2%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Compressed Natural Gas Bi-fuel	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	0.5%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	5.8	5.9	6.0	6.0	6.0	6.0	6.1	6.1	6.2	6.2	6.2	-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	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	N/A
Fuel Cell Hydrogen	0.9	1.1	1.1	2.1	1.9	1.9	1.9	1.8	1.7	1.9	1.9	N/A
Total Alternatives	167.5	169.6	171.9	174.3	174.2	175.1	175.6	176.9	178.7	179.0	180.3	4.1%
Percent Alternative Car Sales	12.64	12.69	12.73	12.79	12.76	12.77	12.76	12.76	12.80	12.75	12.77	3.7%
Total New Car Sales	1325.0	1336.4	1350.9	1362.4	1364.8	1370.8	1375.9	1385.9	1396.1	1404.1	1411.9	0.3%
<b>New Light Truck Sales 2/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	1260.2	1284.4	1308.9	1332.6	1351.1	1365.4	1389.3	1418.1	1437.5	1486.8	1513.9	1.4%
TDI Diesel ICE	128.9	136.5	143.3	146.4	147.7	154.7	158.9	163.3	179.9	168.1	175.8	4.2%
Total Conventional	1389.1	1421.0	1452.2	1479.0	1498.8	1520.0	1548.1	1581.4	1617.4	1654.9	1689.7	1.6%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
Ethanol-Flex Fuel ICE	128.6	131.7	135.0	138.4	140.7	142.6	145.9	150.0	153.2	159.7	163.6	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	N/A
Electric Vehicle	2.8	3.0	3.1	5.5	5.3	5.2	5.3	5.3	5.2	5.7	5.6	11.3%
Electric-Diesel Hybrid	5.2	5.5	8.2	8.4	8.5	16.4	16.8	17.3	18.6	17.9	18.6	N/A
Electric-Gasoline Hybrid	67.2	69.5	70.6	72.6	74.4	72.8	75.0	77.8	80.4	84.2	87.8	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Compressed Natural Gas Bi-fuel	6.4	6.6	6.7	6.9	7.0	7.1	7.2	7.4	7.5	7.7	7.9	2.1%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7%
Liquefied Petroleum Gas Bi-fuel	21.3	21.8	22.3	22.8	23.1	23.5	23.9	24.5	25.1	25.7	26.3	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	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	N/A
Fuel Cell Hydrogen	1.2	1.3	1.3	2.7	2.7	2.6	2.8	2.8	2.8	3.1	3.0	N/A
Total Alternatives	232.7	239.4	247.2	257.3	261.6	270.1	276.8	285.0	292.7	304.0	312.9	6.5%
Percent Alternative Light Truck Sales	14.35	14.42	14.55	14.82	14.86	15.09	15.17	15.27	15.33	15.52	15.62	4.3%
Total New Truck Sales	1621.8	1660.4	1699.4	1736.3	1760.4	1790.1	1825.0	1866.4	1910.1	1958.8	2002.6	2.1%
Percent Total Alternative Sales	13.58	13.65	13.74	13.93	13.94	14.08	14.13	14.20	14.26	14.36	14.45	4.1%
EPACT Legislative Alternative Sales	49.04	50.07	51.13	52.12	52.73	53.51	54.40	55.49	56.64	57.90	59.03	1.6%
ZEVP Legislative Alternative Sales	188.68	200.02	205.43	291.45	284.34	282.57	287.75	289.55	287.11	305.37	304.89	N/A
Total Vehicles Sales	2946.9	2996.8	3050.3	3098.7	3125.2	3160.9	3200.9	3252.4	3306.3	3363.0	3414.5	1.3%

**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.

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

N/A = Not applicable.

Sources: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>New Car Sales 1/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	7727.6	7644.5	7781.8	7793.2	7728.9	7475.6	7370.9	7328.5	7215.2	7096.6	7111.2	7058.9	7009.5
TDI Diesel ICE	6.1	7.3	19.3	19.7	18.1	21.0	20.7	20.2	22.9	22.8	22.8	23.0	23.4
<b>Total Conventional</b>	<b>7733.7</b>	<b>7651.8</b>	<b>7801.1</b>	<b>7812.9</b>	<b>7747.0</b>	<b>7496.7</b>	<b>7391.6</b>	<b>7348.7</b>	<b>7238.1</b>	<b>7119.4</b>	<b>7134.1</b>	<b>7081.9</b>	<b>7033.0</b>
<b>Alternative-Fuel Vehicles</b>													
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	364.6	362.6	370.4	368.5	364.2	440.2	431.2	428.3	499.7	491.0	492.5	488.2	484.1
Ethanol ICE	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1
Electric Vehicle	2.3	2.2	2.2	2.2	2.1	2.0	2.0	1.9	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	27.4	28.3	56.3	57.9	71.6
Electric-Gasoline Hybrid	19.6	40.9	80.9	76.0	76.1	235.6	241.7	316.9	311.0	371.8	370.9	379.0	381.8
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	11.2	10.9	10.9	12.9	12.5	12.0	11.6	11.2	10.9	10.8	10.9	10.8	10.7
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	42.9	41.6	41.7	41.4	40.1	39.1	37.6	36.8	35.8	35.5	35.7	35.5	35.4
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	0.9	0.7
<b>Total Alternatives</b>	<b>441.4</b>	<b>459.0</b>	<b>506.8</b>	<b>501.8</b>	<b>496.0</b>	<b>729.7</b>	<b>725.0</b>	<b>796.2</b>	<b>887.8</b>	<b>940.4</b>	<b>969.2</b>	<b>975.5</b>	<b>987.3</b>
<b>Percent Alternative Car Sales</b>	<b>5.40</b>	<b>5.66</b>	<b>6.10</b>	<b>6.04</b>	<b>6.02</b>	<b>8.87</b>	<b>8.93</b>	<b>9.77</b>	<b>10.93</b>	<b>11.67</b>	<b>11.96</b>	<b>12.11</b>	<b>12.31</b>
<b>Total New Car Sales</b>	<b>8175.1</b>	<b>8110.8</b>	<b>8308.0</b>	<b>8314.8</b>	<b>8243.0</b>	<b>8226.4</b>	<b>8116.6</b>	<b>8144.9</b>	<b>8125.8</b>	<b>8059.8</b>	<b>8103.3</b>	<b>8057.4</b>	<b>8020.2</b>
<b>New Light Truck Sales 2/</b>													
<b>Conventional Vehicles</b>													
Gasoline ICE Vehicles	7123.9	6959.0	6678.4	6781.7	7024.8	6952.6	7013.6	7175.6	7244.7	7251.4	7427.0	7511.2	7605.7
TDI Diesel ICE	307.0	343.6	675.2	696.1	657.1	630.5	628.9	621.9	687.2	684.3	688.5	699.3	717.2
<b>Total Conventional</b>	<b>7430.9</b>	<b>7302.6</b>	<b>7353.5</b>	<b>7477.7</b>	<b>7681.9</b>	<b>7583.1</b>	<b>7642.6</b>	<b>7797.5</b>	<b>7931.9</b>	<b>7935.7</b>	<b>8115.6</b>	<b>8210.5</b>	<b>8322.9</b>
<b>Alternative-Fuel Vehicles</b>													
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	349.5	352.3	348.2	371.7	386.7	691.8	698.7	717.9	727.7	730.5	752.3	762.8	774.5
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	3.4	3.3	3.3	3.9	4.3	4.5	4.5	5.2	5.2	5.2	6.3	5.9	5.7
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	109.5	117.3	200.2	208.3	259.1	268.2	326.5	344.9	361.7	379.8
Compressed Natural Gas ICE	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	31.3	30.7	31.0	32.0	32.9	34.0	34.3	35.3	35.9	36.1	37.0	37.5	38.1
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	103.9	102.2	102.8	106.3	109.3	113.2	114.1	117.2	119.2	120.1	123.1	124.7	126.6
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	1.0	1.0	1.0	2.4	1.0	0.9
<b>Total Alternatives</b>	<b>488.1</b>	<b>488.6</b>	<b>485.4</b>	<b>623.4</b>	<b>650.6</b>	<b>1043.7</b>	<b>1060.1</b>	<b>1135.8</b>	<b>1157.3</b>	<b>1219.5</b>	<b>1266.1</b>	<b>1293.8</b>	<b>1325.5</b>
<b>Percent Alternative Light Truck Sales</b>	<b>6.16</b>	<b>6.27</b>	<b>6.19</b>	<b>7.70</b>	<b>7.81</b>	<b>12.10</b>	<b>12.18</b>	<b>12.71</b>	<b>12.73</b>	<b>13.32</b>	<b>13.50</b>	<b>13.61</b>	<b>13.74</b>
<b>Total New Truck Sales</b>	<b>7919.0</b>	<b>7791.2</b>	<b>7839.0</b>	<b>8101.1</b>	<b>8332.5</b>	<b>8626.8</b>	<b>8702.6</b>	<b>8933.3</b>	<b>9089.2</b>	<b>9155.2</b>	<b>9381.7</b>	<b>9504.2</b>	<b>9648.4</b>
<b>Percent Total Alternative Sales</b>	<b>5.78</b>	<b>5.96</b>	<b>6.15</b>	<b>6.85</b>	<b>6.92</b>	<b>10.52</b>	<b>10.61</b>	<b>11.31</b>	<b>11.88</b>	<b>12.55</b>	<b>12.78</b>	<b>12.92</b>	<b>13.09</b>
EPACT Legislative Alternative Sales	262.91	257.76	259.04	264.06	267.72	273.37	272.97	277.39	279.64	280.81	286.70	289.41	292.71
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	89.04	132.97	134.98	134.57	191.11	192.48	185.47	257.94	230.87	210.98
<b>Total Vehicles Sales</b>	<b>16094.1</b>	<b>15902.0</b>	<b>16146.9</b>	<b>16415.9</b>	<b>16575.5</b>	<b>16853.2</b>	<b>16819.2</b>	<b>17078.2</b>	<b>17215.0</b>	<b>17214.9</b>	<b>17485.0</b>	<b>17561.6</b>	<b>17668.6</b>

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>New Car Sales 1/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	6927.7	6974.3	7039.0	7082.0	7078.5	7096.8	7110.7	7151.8	7198.5	7225.4	7259.1	-0.2%
TDI Diesel ICE	23.7	24.6	25.5	26.3	26.9	28.1	28.8	29.8	31.6	32.2	33.2	7.1%
Total Conventional	6951.4	6998.9	7064.5	7108.3	7105.4	7124.9	7139.5	7181.6	7230.1	7257.6	7292.3	-0.2%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	477.2	480.1	484.2	486.1	484.3	484.5	484.6	486.6	489.5	490.9	492.9	1.4%
Ethanol ICE	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	4.5%
Electric Vehicle	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.4%
Electric-Diesel Hybrid	73.4	74.6	75.8	76.6	76.8	78.0	78.2	78.7	80.5	80.1	79.8	N/A
Electric-Gasoline Hybrid	387.6	392.0	397.5	401.1	401.6	403.2	404.4	407.5	410.6	412.0	414.9	11.1%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2%
Compressed Natural Gas Bi-fuel	10.5	10.6	10.8	10.8	10.8	10.8	10.9	10.9	11.0	11.1	11.2	0.1%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	35.0	35.2	35.6	35.8	35.8	35.9	36.0	36.2	36.5	36.6	36.8	-0.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
Fuel Cell Hydrogen	1.5	1.8	1.8	3.5	3.3	3.1	3.1	3.0	2.9	3.2	3.1	N/A
Total Alternatives	988.4	997.6	1009.0	1017.4	1016.0	1019.1	1020.7	1026.6	1034.8	1037.7	1042.5	3.8%
Percent Alternative Car Sales	12.45	12.48	12.50	12.52	12.51	12.51	12.51	12.51	12.52	12.51	12.51	3.7%
Total New Car Sales	7939.8	7996.5	8073.5	8125.7	8121.4	8144.1	8160.3	8208.2	8264.8	8295.3	8334.8	0.1%
<b>New Light Truck Sales 2/</b>												
Conventional Vehicles												
Gasoline ICE Vehicles	7617.8	7769.3	7920.6	8057.6	8138.9	8221.2	8354.1	8513.8	8670.6	8872.6	9056.6	1.2%
TDI Diesel ICE	725.6	753.4	778.9	799.9	815.0	845.5	863.4	889.1	937.7	946.4	959.9	4.8%
Total Conventional	8343.4	8522.7	8699.5	8857.4	8953.9	9066.7	9217.5	9402.8	9608.3	9819.0	10016.6	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	1.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	775.5	794.9	814.8	833.3	844.1	855.3	873.5	896.7	920.0	949.1	974.9	4.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	7.6	8.1	8.3	12.4	12.1	12.0	12.2	12.3	12.2	13.1	13.1	6.4%
Electric-Diesel Hybrid	29.8	31.0	45.3	46.6	47.6	91.0	93.1	95.8	100.1	101.4	103.3	N/A
Electric-Gasoline Hybrid	394.1	406.4	412.7	424.7	434.2	424.8	437.6	453.1	469.3	487.4	507.7	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Compressed Natural Gas Bi-fuel	38.3	39.2	40.1	40.9	41.3	42.0	42.7	43.6	44.6	45.7	46.6	1.9%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.4%
Liquefied Petroleum Gas Bi-fuel	127.5	130.3	133.2	135.8	137.4	139.5	142.0	145.0	148.3	151.8	155.1	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	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	N/A
Fuel Cell Hydrogen	2.0	2.1	2.3	4.6	4.5	4.4	4.6	4.7	4.6	5.1	5.0	N/A
Total Alternatives	1374.9	1412.1	1456.9	1498.3	1521.2	1569.0	1605.8	1651.1	1699.1	1753.6	1805.9	6.1%
Percent Alternative Light Truck Sales	14.15	14.21	14.34	14.47	14.52	14.75	14.84	14.94	15.03	15.15	15.27	4.1%
Total New Truck Sales	9718.2	9934.8	10156.4	10355.8	10475.1	10635.7	10823.2	11053.9	11307.4	11572.6	11822.4	1.9%
Percent Total Alternative Sales	13.38	13.44	13.53	13.61	13.64	13.78	13.84	13.90	13.97	14.05	14.13	4.0%
EPACT Legislative Alternative Sales	293.88	299.61	305.60	310.87	313.79	317.90	322.64	328.65	335.29	342.04	348.47	1.4%
ZEVP Legislative Alternative Sales	316.04	334.97	343.98	487.94	475.96	472.94	481.50	484.43	480.27	510.68	509.78	N/A
Total Vehicles Sales	17658.1	17931.3	18229.9	18481.4	18596.5	18779.8	18983.5	19262.2	19572.2	19867.9	20157.2	1.1%



**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Light-Duty Car Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	126.64	127.39	128.12	128.71	129.16	129.35	129.39	129.35	129.17	128.85	128.55	128.20	127.81
TDI Diesel ICE	0.51	0.47	0.44	0.42	0.40	0.39	0.38	0.37	0.37	0.37	0.37	0.37	0.37
Total Conventional	127.15	127.86	128.56	129.13	129.56	129.74	129.77	129.72	129.54	129.22	128.92	128.57	128.18
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.01	0.01	0.01	0.01	0.01	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	1.30	1.65	2.00	2.34	2.67	3.06	3.43	3.78	4.19	4.57	4.93	5.27	5.59
Ethanol ICE	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas Technology													
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.03	0.04	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.10	0.14	0.18	0.22	0.25	0.28	0.31	0.34	0.37	0.39	0.41	0.43	0.45
Electric Technology													
Electric Vehicle	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.11	0.17	0.24
Electric-Gasoline Hybrid	0.04	0.08	0.16	0.24	0.31	0.55	0.79	1.10	1.41	1.77	2.13	2.48	2.83
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	1.49	1.94	2.42	2.89	3.34	4.01	4.66	5.37	6.14	6.94	7.75	8.54	9.30
Total Car Stock	128.64	129.80	130.98	132.02	132.90	133.76	134.43	135.08	135.68	136.17	136.67	137.11	137.48
Light-Duty Truck Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	68.03	71.71	75.00	78.30	81.76	85.02	88.18	91.36	94.45	97.38	100.32	103.17	105.94
TDI Diesel ICE	2.64	2.89	3.46	4.04	4.58	5.08	5.57	6.03	6.54	7.02	7.48	7.93	8.37
Total Conventional	70.68	74.60	78.46	82.34	86.34	90.09	93.74	97.39	100.99	104.40	107.80	111.10	114.31
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	1.14	1.49	1.82	2.17	2.53	3.18	3.82	4.47	5.12	5.75	6.37	6.98	7.57
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.37	0.40	0.42	0.45
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.29	0.39	0.48	0.59	0.69	0.79	0.89	0.99	1.09	1.18	1.27	1.36	1.44
Electric Technology													
Electric Vehicle	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06
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	0.11	0.23	0.43	0.64	0.89	1.16	1.48	1.81	2.15	2.51
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	0.01	0.01	0.01
Total Alternatives	1.56	2.03	2.49	3.09	3.70	4.69	5.67	6.71	7.75	8.83	9.91	10.98	12.03
Total Truck Stock	72.23	76.63	80.95	85.42	90.04	94.78	99.42	104.10	108.74	113.23	117.71	122.08	126.34
Total Vehicle Stock	200.88	206.43	211.94	217.45	222.94	228.54	233.85	239.19	244.41	249.39	254.38	259.18	263.82

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Light-Duty Car Stock 1/</b>												
<b>Conventional Vehicles</b>												
Gasoline ICE Vehicles	127.34	126.94	126.61	126.35	126.09	125.87	125.69	125.56	125.49	125.45	125.47	-0.1%
TDI Diesel ICE	0.37	0.38	0.38	0.39	0.39	0.40	0.41	0.42	0.43	0.44	0.45	-0.1%
Total Conventional	127.72	127.31	126.99	126.73	126.49	126.28	126.10	125.98	125.92	125.89	125.92	-0.1%
<b>Alternative-Fuel Vehicles</b>												
<b>Alcohol Fuel Technology</b>												
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	-8.8%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	5.88	6.15	6.40	6.64	6.85	7.04	7.21	7.37	7.51	7.64	7.76	7.3%
Ethanol ICE	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	7.3%
<b>Natural Gas Technology</b>												
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7%
Compressed Natural Gas Bi-fuel	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	6.3%
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.54	0.55	0.56	0.56	6.5%
<b>Electric Technology</b>												
Electric Vehicle	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	4.9%
Electric-Diesel Hybrid	0.31	0.39	0.46	0.53	0.60	0.67	0.74	0.80	0.86	0.92	0.97	N/A
Electric-Gasoline Hybrid	3.18	3.51	3.83	4.14	4.44	4.71	4.97	5.21	5.43	5.64	5.83	21.4%
<b>Fuel Cell Technology</b>												
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	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	N/A
Fuel Cell Hydrogen	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	N/A
Total Alternatives	10.03	10.73	11.40	12.03	12.63	13.18	13.69	14.16	14.60	15.01	15.38	9.9%
Total Car Stock	137.75	138.04	138.39	138.77	139.11	139.45	139.79	140.14	140.52	140.90	141.30	0.4%
<b>Light-Duty Truck Stock 1/</b>												
<b>Conventional Vehicles</b>												
Gasoline ICE Vehicles	108.54	111.12	113.67	116.18	118.59	120.93	123.22	125.50	127.79	130.12	132.50	2.8%
TDI Diesel ICE	8.80	9.22	9.64	10.06	10.46	10.87	11.27	11.66	12.08	12.48	12.87	7.0%
Total Conventional	117.34	120.34	123.31	126.24	129.06	131.79	134.49	137.17	139.87	142.60	145.37	3.1%
<b>Alternative-Fuel Vehicles</b>												
<b>Alcohol Fuel Technology</b>												
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	-7.3%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	8.13	8.68	9.22	9.73	10.23	10.70	11.15	11.60	12.03	12.46	12.89	10.3%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Natural Gas Technology</b>												
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9%
Compressed Natural Gas Bi-fuel	0.47	0.49	0.51	0.53	0.55	0.57	0.59	0.60	0.62	0.63	0.65	7.1%
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.9%
Liquefied Petroleum Gas Bi-fuel	1.52	1.59	1.67	1.74	1.80	1.86	1.92	1.98	2.04	2.09	2.15	8.1%
<b>Electric Technology</b>												
Electric Vehicle	0.06	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.14	0.15	11.9%
Electric-Diesel Hybrid	0.03	0.06	0.11	0.15	0.20	0.29	0.38	0.47	0.57	0.66	0.76	N/A
Electric-Gasoline Hybrid	2.86	3.22	3.56	3.91	4.25	4.56	4.86	5.16	5.46	5.75	6.04	N/A
<b>Fuel Cell Technology</b>												
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	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	N/A
Fuel Cell Hydrogen	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	N/A
Total Alternatives	13.09	14.13	15.16	16.17	17.15	18.11	19.05	19.97	20.88	21.79	22.68	11.6%
Total Truck Stock	130.42	134.47	138.47	142.41	146.21	149.91	153.54	157.14	160.75	164.39	168.05	3.6%
Total Vehicle Stock	268.17	272.51	276.86	281.18	285.32	289.36	293.32	297.28	301.27	305.29	309.35	1.9%

**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: 2003 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 23 and Annual (Oak Ridge, TN, September 2003); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	28.03	29.49	29.48	29.12	29.00	29.10	28.88	29.14	29.42	29.48	29.57	29.66	29.70
TDI Diesel ICE	40.57	42.46	39.79	39.25	38.67	37.31	36.93	37.00	37.86	37.87	37.88	37.94	38.00
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	27.26	28.47	28.48	28.33	28.25	28.28	28.02	28.25	28.52	28.56	28.64	28.72	28.78
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	28.08	29.57	29.58	29.28	29.16	28.26	28.03	28.27	29.11	29.16	29.24	29.34	29.42
Ethanol ICE	27.78	29.03	29.03	28.87	28.78	28.79	28.53	28.76	29.03	29.07	29.14	29.23	29.30
Natural Gas Technology													
Compressed Natural Gas ICE	27.63	28.50	28.49	28.18	28.03	28.05	27.82	28.03	28.27	28.31	28.37	28.45	28.50
Compressed Natural Gas Bi-fuel	30.19	31.67	31.69	28.00	27.80	27.71	27.48	27.71	27.96	28.05	28.16	28.24	28.30
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.00	0.00	0.00	27.88	27.60	27.45	27.23	27.43	27.70	27.79	27.89	27.99	28.06
Electric Technology													
Electric Vehicle	32.21	33.23	36.58	40.23	44.80	47.26	46.62	54.22	54.24	54.19	54.08	54.06	54.02
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.11	49.91	47.14	46.96	45.90
Electric-Gasoline Hybrid	43.29	45.57	45.60	45.19	44.67	40.99	40.51	39.65	39.44	40.32	40.31	40.28	40.31
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	38.97	38.96	38.96	38.92	38.90	38.87	38.83
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	63.03	62.18	61.43	60.57	60.58	60.62	60.57	60.53	50.68	50.64
Average New Car MPG	28.90	29.50	29.75	29.24	29.11	29.30	29.09	29.41	29.74	29.89	30.00	30.11	30.17
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	20.73	21.47	21.47	21.48	21.35	22.36	22.15	22.26	22.38	22.46	22.54	22.64	22.74
TDI Diesel ICE	24.75	25.36	27.05	27.00	26.71	28.03	27.68	27.73	28.42	28.44	28.46	28.47	28.50
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	20.09	20.83	20.88	20.62	20.42	22.01	21.82	21.94	22.08	22.18	22.29	22.40	22.52
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	19.84	20.34	20.37	20.43	20.33	21.16	20.93	20.98	21.11	21.16	21.21	21.28	21.33
Compressed Natural Gas Bi-fuel	18.74	19.22	19.26	19.32	19.21	19.93	19.72	19.77	19.91	19.96	20.01	20.05	20.11
Liquefied Petroleum Gas ICE	19.11	19.62	19.63	19.69	19.65	20.53	20.33	20.42	20.59	20.66	20.74	20.84	20.91
Liquefied Petroleum Gas Bi-fuel	18.76	19.26	19.29	19.34	19.23	20.04	19.84	19.91	20.07	20.14	20.22	20.27	20.36
Electric Technology													
Electric Vehicle	26.48	27.29	30.02	27.81	30.76	35.48	34.93	34.91	34.80	34.68	34.65	34.53	34.43
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	32.56	31.84	33.63	33.17	31.96	31.88	31.44	31.35	31.28	31.22
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	37.58	37.62	38.53
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	46.20	45.12	46.30	45.63	45.54	45.44	45.35	45.26	45.18	44.97
Average New Truck MPG	21.30	21.80	21.79	21.89	21.72	22.81	22.59	22.70	22.88	22.99	23.08	23.17	23.28

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Fleet Average Stock Car MPG 2/	22.04	22.16	22.26	22.28	22.35	22.42	22.49	22.56	22.65	22.74	22.84	22.95	23.07
Fleet Average Stock Truck MPG 2/	17.06	17.12	17.19	17.23	17.27	17.40	17.51	17.61	17.70	17.80	17.89	17.97	18.06
Fleet Average Stock Vehicle MPG 2/	19.95	19.98	20.01	19.98	19.98	20.03	20.06	20.10	20.14	20.19	20.25	20.30	20.36

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Automobiles 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	29.77	29.85	29.92	29.97	30.04	30.12	30.21	30.30	30.38	30.42	30.49	0.2%
TDI Diesel ICE	38.06	38.14	38.22	38.27	38.35	38.44	38.52	38.63	38.75	38.81	38.93	-0.4%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	28.85	28.91	28.98	29.05	29.12	29.19	29.29	29.37	29.44	29.50	29.56	0.2%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	29.50	29.60	29.70	29.78	29.87	29.97	30.08	30.18	30.28	30.34	30.42	0.1%
Ethanol ICE	29.37	29.44	29.51	29.57	29.64	29.71	29.81	29.89	29.97	30.03	30.09	0.2%
Natural Gas Technology												
Compressed Natural Gas ICE	28.54	28.60	28.65	28.70	28.76	28.83	28.93	29.00	29.07	29.10	29.15	0.1%
Compressed Natural Gas Bi-fuel	28.39	28.47	28.54	28.60	28.66	28.74	28.82	28.87	28.93	28.96	28.99	-0.4%
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	28.16	28.26	28.36	28.44	28.52	28.61	28.70	28.77	28.85	28.89	28.94	N/A
Electric Technology												
Electric Vehicle	53.78	53.68	53.60	53.39	53.31	53.23	53.24	53.24	53.24	53.26	53.27	2.2%
Electric-Diesel Hybrid	45.76	45.66	45.59	45.53	45.50	45.47	45.47	45.48	45.49	45.48	45.49	N/A
Electric-Gasoline Hybrid	40.30	40.30	40.31	40.31	40.33	40.36	40.39	40.42	40.45	40.44	40.47	-0.5%
Fuel Cell Technology												
Fuel Cell Gasoline	38.80	38.77	38.74	38.72	38.71	38.68	38.71	38.73	38.75	38.78	38.80	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	N/A
Fuel Cell Hydrogen	50.61	49.81	49.76	49.72	49.68	49.65	49.69	49.75	49.84	49.91	50.01	N/A
Average New Car MPG	30.25	30.33	30.41	30.47	30.53	30.61	30.71	30.79	30.88	30.92	30.99	0.2%
Light-Duty Trucks 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	22.85	22.97	23.10	23.21	23.31	23.43	23.56	23.68	23.81	23.91	24.01	0.5%
TDI Diesel ICE	28.54	28.59	28.66	28.70	28.74	28.80	28.89	28.96	29.03	29.09	29.15	0.6%
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	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	N/A
Ethanol-Flex Fuel ICE	22.66	22.80	22.94	23.07	23.19	23.32	23.46	23.59	23.73	23.83	23.94	0.6%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Technology												
Compressed Natural Gas ICE	21.41	21.51	21.62	21.72	21.81	21.90	22.01	22.12	22.23	22.32	22.39	0.4%
Compressed Natural Gas Bi-fuel	20.19	20.28	20.37	20.44	20.50	20.59	20.68	20.76	20.86	20.90	20.96	0.4%
Liquefied Petroleum Gas ICE	21.01	21.13	21.27	21.39	21.49	21.60	21.75	21.87	22.01	22.13	22.22	0.6%
Liquefied Petroleum Gas Bi-fuel	20.46	20.57	20.70	20.79	20.87	20.97	21.08	21.19	21.31	21.38	21.47	0.5%
Electric Technology												
Electric Vehicle	34.45	34.39	34.32	35.38	35.18	35.03	35.10	35.08	35.01	35.27	35.23	1.2%
Electric-Diesel Hybrid	40.40	40.26	37.16	37.06	36.99	38.15	38.11	38.09	38.10	38.11	38.15	N/A
Electric-Gasoline Hybrid	30.97	30.95	31.01	31.01	31.02	30.97	31.03	31.09	31.14	31.17	31.21	N/A
Fuel Cell Technology												
Fuel Cell Gasoline	38.46	38.40	38.33	38.26	38.19	38.12	38.12	38.13	38.12	38.11	38.10	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	N/A
Fuel Cell Hydrogen	44.88	44.80	44.72	44.63	44.56	44.48	44.49	44.51	44.53	44.54	44.56	N/A
Average New Truck MPG	23.42	23.55	23.68	23.80	23.90	24.05	24.18	24.30	24.45	24.54	24.64	0.6%

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Fleet Average Stock Car MPG 2/	23.18	23.30	23.42	23.55	23.68	23.81	23.94	24.07	24.13	24.19	24.25	0.4%
Fleet Average Stock Truck MPG 2/	18.13	18.21	18.29	18.36	18.43	18.50	18.57	18.64	18.74	18.84	18.94	0.5%
Fleet Average Stock Vehicle MPG 2/	20.41	20.48	20.54	20.60	20.67	20.73	20.79	20.86	20.92	20.98	21.05	0.2%



**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: 2003 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 2002 (Washington, DC, November 2003); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Conventional Vehicles 1/													
Gasoline ICE Vehicles	2474.5	2503.5	2509.1	2528.9	2570.1	2618.1	2664.9	2711.0	2753.3	2790.9	2828.8	2866.8	2906.2
TDI Diesel ICE	38.6	40.7	46.6	52.8	58.8	64.8	70.7	76.4	82.7	88.7	94.5	100.2	105.9
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	32.8	42.2	51.1	59.8	68.0	80.5	92.8	105.0	117.9	130.3	142.5	154.3	165.9
Ethanol ICE	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Natural Gas Technology													
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.8	3.6	4.3	5.0	5.5	6.0	6.4	6.9	7.4	7.8	8.2	8.6	9.0
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	7.6	10.3	13.0	15.6	17.4	19.1	20.7	22.3	23.8	25.2	26.7	28.0	29.4
Electric Technology													
Electric Vehicle	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.1	1.2	1.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.3	2.1	2.9
Electric-Gasoline Hybrid	0.5	1.0	1.9	4.1	6.4	11.6	16.9	23.8	30.7	39.0	47.4	56.0	64.7
Fuel Cell Technology													
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
VMT Equation Components													
Total VMT (billion miles)	2557.4	2602.0	2626.7	2666.9	2727.1	2801.0	2873.6	2946.6	3017.4	3083.8	3150.8	3217.5	3285.7
VMT/Driving Population (thousand miles)	11.4	11.5	11.5	11.5	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	13.0
Driving Population (million)	223.9	226.5	229.1	231.7	234.4	237.0	239.5	241.8	244.1	246.3	248.5	250.5	252.5
Price Effects													
Motor Gasoline Price (1987 \$/million Btu)	7.82	8.93	10.12	9.91	9.41	8.93	8.78	8.59	8.50	8.52	8.44	8.44	8.45
Fleet Miles per Gallon	20.08	20.08	20.08	20.03	20.02	20.06	20.10	20.14	20.18	20.23	20.29	20.35	20.41
Real Cost of Driving per Mile (1987 cents)	6.653	7.598	8.609	8.449	8.033	7.606	7.467	7.288	7.197	7.192	7.110	7.088	7.072
Point Price Elasticity	-0.046	-0.053	-0.060	-0.058	-0.055	-0.051	-0.050	-0.048	-0.046	-0.046	-0.045	-0.044	-0.043
Income Effects													
Disposable Income (billion 1987 dollars)	6573.5	6724.8	6980.0	7173.4	7409.6	7655.8	7882.3	8105.9	8341.9	8581.0	8834.9	9120.5	9432.5
Point Income Elasticity	431.872	435.135	448.313	454.791	460.533	464.301	466.744	468.673	471.370	474.628	478.323	483.409	489.353
Demographic Driving Population Effect													
Percentage Female Driving Population	0.617	0.624	0.630	0.636	0.641	0.646	0.650	0.654	0.658	0.661	0.664	0.666	0.668
Point Demographic Elasticity	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Conventional Vehicles 1/												
Gasoline ICE Vehicles	2945.6	2984.5	3022.6	3060.5	3098.2	3136.3	3178.1	3222.7	3269.8	3323.2	3378.6	1.4%
TDI Diesel ICE	111.7	117.4	123.1	128.7	134.2	139.8	145.6	151.5	157.8	164.2	170.6	6.7%
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	-9.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	177.0	187.8	198.2	208.1	217.6	226.6	235.6	244.4	253.2	262.2	271.1	8.8%
Ethanol ICE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	7.5%
Natural Gas Technology												
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1%
Compressed Natural Gas Bi-fuel	9.4	9.7	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5	5.9%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7%
Liquefied Petroleum Gas Bi-fuel	30.6	31.9	33.1	34.2	35.3	36.4	37.4	38.4	39.4	40.5	41.5	6.5%
Electric Technology												
Electric Vehicle	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	8.2%
Electric-Diesel Hybrid	4.2	5.5	7.0	8.5	9.9	12.0	14.0	16.0	18.1	20.1	22.2	N/A
Electric-Gasoline Hybrid	73.5	82.3	90.8	99.2	107.3	115.0	122.5	130.0	137.4	144.8	152.1	25.7%
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	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	N/A
Fuel Cell Hydrogen	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	N/A
VMT Equation Components												
Total VMT (billion miles)	3353.7	3420.9	3486.8	3551.8	3615.7	3679.7	3747.3	3817.7	3890.9	3970.8	4052.5	2.0%
VMT/Driving Population (thousand miles)	13.2	13.3	13.5	13.6	13.7	13.9	14.0	14.2	14.3	14.5	14.7	1.1%
Driving Population (million)	254.5	256.6	258.8	260.9	263.1	265.3	267.4	269.7	271.9	274.2	276.5	0.9%
Price Effects												
Motor Gasoline Price (1987 \$/million Btu)	8.46	8.51	8.55	8.57	8.60	8.65	8.67	8.71	8.78	8.78	8.85	0.0%
Fleet Miles per Gallon	20.47	20.54	20.60	20.67	20.74	20.81	20.88	20.95	21.02	21.08	21.15	0.2%
Real Cost of Driving per Mile (1987 cents)	7.066	7.076	7.092	7.083	7.083	7.098	7.095	7.105	7.140	7.115	7.148	-0.3%
Point Price Elasticity	-0.043	-0.042	-0.042	-0.041	-0.041	-0.041	-0.040	-0.040	-0.040	-0.039	-0.039	-1.4%
Income Effects												
Disposable Income (billion 1987 dollars)	9731.7	10021.5	10289.5	10558.7	10825.9	11115.1	11448.6	11798.0	12182.5	12605.8	13034.4	3.1%
Point Income Elasticity	494.425	499.036	502.800	506.603	510.333	514.970	520.989	527.155	534.290	541.968	549.347	1.1%
Demographic Driving Population Effect												
Percentage Female Driving Population	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	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	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: 2003 derived using: Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 23 and Annual (Oak Ridge, TN, September 2003); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Personal Vehicles</b>													
<b>EPA Rated New Vehicle Fuel Efficiency</b>													
<b>Conventional Cars (miles per gallon)</b>													
Minicompact	24.927	26.380	26.406	26.254	26.499	26.808	26.646	26.999	27.334	27.398	27.457	27.528	27.599
Subcompact	30.967	32.452	32.441	32.219	32.061	32.018	31.715	31.924	32.243	32.306	32.406	32.493	32.537
Compact	30.205	31.752	31.770	31.604	31.524	31.494	31.212	31.470	31.805	31.903	32.049	32.123	32.156
Midsized	26.742	27.918	27.933	27.790	27.725	27.766	27.515	27.752	28.014	28.055	28.121	28.198	28.235
Large	25.244	25.881	25.881	25.711	25.651	25.732	25.514	25.716	25.972	26.029	26.122	26.218	26.264
Two Seater	25.064	25.807	25.814	25.660	25.661	25.813	25.621	25.895	26.173	26.251	26.353	26.456	26.550
Average New Car	27.983	29.489	29.475	29.086	28.960	29.069	28.864	29.130	29.403	29.465	29.552	29.646	29.689
Average New Car On-Road MPG	21.043	22.250	22.315	22.038	22.015	22.173	22.092	22.368	22.650	22.771	22.917	23.067	23.178
<b>Conventional Light Trucks (miles per gallon)</b>													
Small Pickup	22.678	23.626	23.634	23.716	23.601	25.005	24.743	24.807	24.923	24.989	25.073	25.184	25.345
Large Pickup	19.078	19.602	19.618	19.657	19.522	20.302	20.115	20.207	20.381	20.460	20.550	20.648	20.727
Small Van	23.493	24.343	24.331	24.299	24.113	25.302	25.021	25.067	25.155	25.201	25.247	25.307	25.377
Large Van	18.242	18.733	18.766	18.823	18.813	19.692	19.505	19.599	19.776	19.856	19.944	20.012	20.112
Small Utility	21.624	22.559	22.558	22.584	22.491	23.967	23.730	23.818	23.967	24.040	24.129	24.228	24.332
Large Utility	17.676	18.053	18.082	18.129	18.118	18.990	18.823	18.938	19.117	19.202	19.295	19.381	19.486
Average New Light Truck	20.855	21.618	21.628	21.637	21.500	22.521	22.312	22.417	22.534	22.620	22.704	22.798	22.900
Average New Light Truck On-Road MPG	17.111	17.707	17.686	17.618	17.476	18.277	18.078	18.131	18.192	18.230	18.270	18.315	18.368
<b>Degradation Factors 1/</b>													
Cars	0.752	0.755	0.757	0.758	0.760	0.763	0.765	0.768	0.770	0.773	0.775	0.778	0.781
Light Trucks	0.820	0.819	0.818	0.814	0.813	0.812	0.810	0.809	0.807	0.806	0.805	0.803	0.802
<b>New Fuel Efficiency by Size Class 2/</b>													
<b>Alternative-Fuel Cars</b>													
Minicompact	0.00	0.00	0.00	0.00	0.00	44.49	43.90	43.98	44.06	44.03	43.99	43.95	43.91
Subcompact	0.000	0.000	0.000	63.034	62.181	61.433	60.573	57.059	32.107	37.003	36.978	37.038	37.134
Compact	32.079	34.754	36.462	36.405	36.302	36.231	36.013	36.308	37.596	37.791	37.996	38.164	38.301
Midsized	27.004	28.198	28.208	28.056	27.980	32.370	32.093	32.284	32.508	32.578	33.153	33.283	33.360
Large	27.213	27.875	27.868	25.791	25.544	25.602	25.344	29.469	29.653	29.781	29.911	30.053	30.645
Two Seater	36.052	37.147	37.115	36.775	36.394	36.133	35.748	35.852	35.987	35.972	35.969	35.968	35.967
Average New Alternative Cars	28.729	30.971	32.042	31.512	31.360	32.111	31.936	32.620	33.059	33.824	34.127	34.287	34.485
<b>Alternative-Fuel Light Trucks</b>													
Small Pickup	22.895	23.854	23.856	23.928	23.800	25.234	24.974	25.046	25.168	25.239	25.331	25.447	25.613
Large Pickup	19.269	19.798	19.811	19.847	19.715	20.515	20.333	20.435	20.622	20.075	23.229	23.421	23.606
Small Van	23.723	24.584	24.571	24.534	24.340	29.551	29.155	29.137	29.309	29.338	29.359	29.398	29.455
Large Van	19.032	19.510	19.569	18.927	18.821	19.370	19.191	19.433	19.663	19.743	20.067	20.091	20.195
Small Utility	25.207	26.182	28.804	32.557	31.848	25.264	25.019	25.154	25.346	25.460	25.670	25.791	25.943
Large Utility	17.852	18.232	18.259	18.307	18.295	19.210	19.046	20.974	21.140	21.246	21.339	21.438	21.558
Average New Alt. Light Trucks	20.143	20.933	21.009	23.076	22.832	24.254	24.073	24.339	24.479	24.808	24.945	25.062	25.199
<b>Fleet Vehicles</b>													
<b>EPA Rated New Vehicle Fuel Efficiency</b>													
Cars	28.240	29.486	29.498	29.268	29.179	29.139	28.875	29.108	29.428	29.488	29.581	29.663	29.705
Light Trucks	19.697	20.256	20.279	20.283	20.199	21.136	20.931	21.021	21.181	21.255	21.337	21.417	21.511
<b>Average On-Road MPG</b>													
Cars	21.082	21.412	21.751	22.005	22.253	22.291	22.266	22.303	22.416	22.549	22.756	22.941	23.080
Light Trucks	16.164	16.229	16.244	16.300	16.352	16.558	16.652	16.741	16.850	16.978	17.004	17.048	17.099
<b>New Vehicle Sales Shares (percent)</b>													
<b>Conventional Cars</b>													
Minicompact	0.355	0.430	0.422	0.375	0.364	0.363	0.375	0.372	0.376	0.380	0.376	0.379	0.379
Subcompact	13.552	15.999	15.868	14.138	13.746	13.745	14.201	14.173	14.305	14.467	14.350	14.426	14.423
Compact	32.206	35.885	35.817	33.141	32.583	32.590	33.263	33.162	33.379	33.595	33.401	33.584	33.600

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Midsize	35.903	32.607	32.659	35.099	35.599	35.607	35.010	35.073	34.886	34.690	34.855	34.707	34.700
Large	16.267	13.411	13.576	15.535	15.985	15.977	15.444	15.515	15.352	15.172	15.318	15.208	15.203
Two Seater	1.718	1.667	1.657	1.712	1.723	1.719	1.706	1.705	1.702	1.697	1.700	1.697	1.697
<b>Conventional Light Trucks</b>													
Small Pickup	13.058	11.315	11.419	12.607	12.486	12.480	12.530	12.657	12.552	12.447	12.532	12.460	12.441
Large Pickup	21.570	21.646	21.533	21.623	21.384	21.456	21.581	21.629	21.617	21.638	21.631	21.613	21.610
Small Van	16.904	19.378	19.395	17.533	16.778	16.817	17.501	17.515	17.654	17.804	17.680	17.781	17.796
Large Van	2.487	2.497	2.489	2.496	2.375	2.403	2.475	2.496	2.493	2.499	2.497	2.496	2.492
Small Utility	32.165	31.368	31.371	31.941	32.822	32.733	32.057	31.922	31.896	31.831	31.874	31.856	31.861
Large Utility	13.816	13.795	13.792	13.801	14.156	14.110	13.856	13.780	13.789	13.781	13.785	13.794	13.800
<b>New Vehicle Average Horsepower</b>													
<b>Conventional Cars</b>													
Minicompact	248.673	244.816	245.168	249.745	255.934	261.571	266.486	268.236	269.755	271.228	272.833	274.435	276.009
Subcompact	152.365	150.430	150.723	154.281	158.846	163.591	167.146	169.109	170.955	172.352	173.895	175.425	176.911
Compact	143.665	141.458	141.950	145.925	151.120	155.553	159.127	161.212	162.920	164.522	166.372	168.166	169.945
Midsize	185.591	183.527	184.142	189.340	195.571	201.494	206.087	209.012	211.446	213.386	215.552	217.727	219.858
Large	226.299	223.838	224.176	228.159	233.317	238.858	243.442	245.300	246.973	248.454	250.149	251.873	253.574
Two Seater	269.937	268.125	268.604	273.265	279.371	286.097	291.185	292.831	294.159	295.266	296.456	297.679	298.861
Average New Car	175.880	170.215	170.819	177.688	183.736	188.954	192.384	194.785	196.537	197.963	200.038	201.744	203.572
<b>Conventional Light Trucks</b>													
Small Pickup	170.646	169.603	170.159	174.177	181.005	191.810	195.221	196.480	197.727	198.808	199.981	201.193	202.453
Large Pickup	233.155	232.477	233.185	237.229	246.413	259.387	263.642	264.998	266.596	267.703	268.799	269.954	271.150
Small Van	189.666	188.212	188.646	191.561	199.659	208.612	212.546	214.137	215.639	216.918	218.284	219.682	221.119
Large Van	231.413	231.304	232.138	235.620	243.969	256.781	261.132	262.774	264.625	265.929	267.208	268.499	269.944
Small Utility	192.505	189.639	190.088	193.016	200.337	203.239	206.460	207.203	207.937	208.612	209.326	210.047	210.760
Large Utility	253.965	253.825	254.503	257.938	267.545	281.681	286.267	287.845	289.500	290.705	291.865	293.024	294.333
Average New Light Truck	207.398	206.263	206.744	209.969	218.212	227.118	230.869	232.061	233.355	234.402	235.427	236.510	237.629
<b>New Vehicle Average Weight</b>													
<b>Conventional Cars</b>													
Minicompact	3477.708	3423.764	3428.143	3470.383	3510.634	3536.166	3583.502	3577.012	3570.311	3573.105	3576.367	3579.670	3582.731
Subcompact	2780.738	2745.523	2749.028	2783.216	2821.429	2855.770	2896.318	2895.796	2894.120	2896.616	2898.265	2900.090	2902.922
Compact	2836.514	2793.210	2797.020	2832.499	2872.146	2906.131	2947.321	2946.322	2943.285	2946.000	2948.291	2950.261	2952.855
Midsize	3315.816	3278.969	3283.371	3324.267	3368.457	3407.925	3455.198	3455.172	3453.118	3456.433	3459.124	3461.738	3465.033
Large	3690.407	3650.098	3654.599	3698.568	3746.958	3794.237	3846.907	3848.300	3847.766	3851.705	3854.495	3857.198	3860.921
Two Seater	3007.683	2982.331	2986.019	3022.698	3062.061	3100.190	3144.197	3144.569	3146.129	3149.241	3152.336	3155.460	3158.452
Average New Car	3145.154	3064.756	3070.468	3138.328	3187.290	3225.394	3262.562	3263.298	3258.781	3259.173	3263.805	3264.328	3267.303
<b>Conventional Light Trucks</b>													
Small Pickup	3637.990	3615.815	3621.937	3627.981	3717.189	3698.918	3753.835	3761.474	3769.325	3776.669	3783.762	3790.320	3796.540
Large Pickup	4719.376	4705.648	4713.816	4721.604	4837.814	4834.007	4903.723	4913.998	4925.334	4935.770	4945.750	4955.317	4963.435
Small Van	4062.858	4032.080	4038.958	4044.887	4144.706	4094.813	4154.725	4162.916	4171.264	4179.208	4186.953	4194.313	4201.183
Large Van	4761.653	4759.416	4767.750	4773.495	4872.102	4858.319	4928.227	4938.668	4950.317	4961.004	4971.176	4980.069	4988.796
Small Utility	3843.223	3785.611	3791.768	3797.154	3888.500	3788.824	3844.904	3852.804	3861.051	3868.747	3876.180	3883.305	3890.031
Large Utility	5166.147	5163.052	5171.775	5177.314	5285.021	5263.114	5338.520	5350.129	5361.426	5372.781	5383.581	5392.497	5401.917
Average New Light Truck	4248.154	4227.646	4233.490	4233.996	4334.145	4287.044	4349.993	4358.528	4368.398	4378.010	4386.040	4394.271	4401.758
<b>Average Weight for the Stock</b>													
Conventional Cars	3161	3152	3145	3143	3143	3146	3151	3156	3162	3168	3175	3182	3189
Conventional Light Trucks	4072	4092	4111	4129	4152	4169	4189	4208	4225	4242	4258	4273	4286

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Personal Vehicles</b>												
<b>EPA Rated New Vehicle Fuel Efficiency</b>												
<b>Conventional Cars (miles per gallon)</b>												
Minicompact	27.678	27.751	27.828	27.875	27.926	27.987	28.082	28.164	28.250	28.318	28.348	0.3%
Subcompact	32.608	32.682	32.759	32.811	32.870	32.948	33.059	33.148	33.234	33.298	33.352	0.1%
Compact	32.215	32.282	32.353	32.397	32.450	32.519	32.622	32.696	32.767	32.819	32.861	0.2%
Midsized	28.302	28.370	28.439	28.503	28.566	28.634	28.729	28.805	28.880	28.931	28.980	0.2%
Large	26.334	26.411	26.483	26.564	26.645	26.739	26.836	26.926	27.022	27.090	27.158	0.2%
Two Seater	26.655	26.755	26.831	26.898	26.962	27.044	27.135	27.217	27.308	27.385	27.438	0.3%
Average New Car	29.758	29.834	29.906	29.962	30.027	30.105	30.200	30.283	30.367	30.411	30.474	0.1%
Average New Car On-Road MPG	23.303	23.447	23.578	23.702	23.830	23.969	24.121	24.264	24.331	24.366	24.418	0.4%
<b>Conventional Light Trucks (miles per gallon)</b>												
Small Pickup	25.490	25.638	25.763	25.875	25.995	26.124	26.252	26.355	26.481	26.577	26.666	0.6%
Large Pickup	20.827	20.945	21.086	21.207	21.316	21.418	21.547	21.654	21.777	21.879	21.952	0.5%
Small Van	25.456	25.548	25.657	25.728	25.808	25.911	26.030	26.126	26.247	26.346	26.447	0.4%
Large Van	20.227	20.358	20.497	20.594	20.684	20.832	20.979	21.121	21.278	21.378	21.510	0.6%
Small Utility	24.444	24.543	24.663	24.777	24.892	25.021	25.145	25.272	25.414	25.530	25.643	0.6%
Large Utility	19.601	19.721	19.837	19.946	20.035	20.160	20.287	20.405	20.532	20.611	20.707	0.6%
Average New Light Truck	23.015	23.132	23.263	23.373	23.480	23.600	23.729	23.846	23.982	24.085	24.183	0.5%
Average New Light Truck On-Road MPG	18.425	18.494	18.565	18.624	18.677	18.741	18.811	18.871	18.978	19.059	19.138	0.4%
<b>Degradation Factors 1/</b>												
Cars	0.783	0.786	0.788	0.791	0.794	0.796	0.799	0.801	0.801	0.801	0.801	0.3%
Light Trucks	0.801	0.799	0.798	0.797	0.795	0.794	0.793	0.791	0.791	0.791	0.791	-0.2%
<b>New Fuel Efficiency by Size Class 2/</b>												
<b>Alternative-Fuel Cars</b>												
Minicompact	43.89	43.86	43.84	43.81	43.78	43.75	43.79	43.82	43.86	43.89	43.91	N/A
Subcompact	37.267	37.344	37.458	37.596	37.761	37.921	38.091	38.258	38.386	38.477	38.565	N/A
Compact	38.462	38.503	38.549	38.598	38.636	38.682	38.748	38.799	38.864	38.886	38.905	0.5%
Midsized	33.479	33.530	33.588	33.679	33.723	33.777	33.851	33.911	33.973	34.009	34.043	0.9%
Large	30.808	30.931	31.034	31.148	31.250	31.370	31.476	31.572	31.669	31.728	31.784	0.6%
Two Seater	35.974	35.987	36.007	36.029	36.043	36.065	36.115	36.160	36.207	36.238	36.268	-0.1%
Average New Alternative Cars	34.636	34.716	34.796	34.882	34.957	35.043	35.129	35.214	35.302	35.330	35.390	0.6%
<b>Alternative-Fuel Light Trucks</b>												
Small Pickup	25.766	25.920	26.075	26.192	26.319	26.465	26.616	26.730	26.852	26.946	27.033	0.6%
Large Pickup	23.823	23.953	24.095	24.238	24.395	24.560	24.744	24.917	25.106	25.257	25.401	1.1%
Small Van	30.310	30.328	30.368	30.395	30.430	30.491	30.565	30.629	30.704	30.742	30.787	1.0%
Large Van	23.500	23.679	23.835	24.071	24.187	24.349	24.518	24.692	24.886	25.033	25.215	1.2%
Small Utility	26.158	26.305	26.447	26.709	26.814	27.486	27.636	27.766	27.920	28.037	28.144	0.3%
Large Utility	21.697	21.799	22.234	22.314	22.390	22.503	22.611	22.706	22.821	22.873	22.961	1.1%
Average New Alt. Light Trucks	25.596	25.711	25.872	26.028	26.122	26.463	26.591	26.706	26.842	26.926	27.026	1.2%
<b>Fleet Vehicles</b>												
<b>EPA Rated New Vehicle Fuel Efficiency</b>												
Cars	29.774	29.847	29.921	29.984	30.049	30.126	30.227	30.309	30.389	30.446	30.498	0.2%
Light Trucks	21.618	21.736	21.862	21.963	22.056	22.174	22.301	22.414	22.543	22.632	22.728	0.5%
<b>Average On-Road MPG</b>												
Cars	23.207	23.344	23.470	23.605	23.736	23.869	24.006	24.147	24.215	24.279	24.335	0.6%
Light Trucks	17.137	17.192	17.245	17.305	17.362	17.420	17.480	17.537	17.630	17.720	17.809	0.4%
<b>New Vehicle Sales Shares (percent)</b>												
<b>Conventional Cars</b>												
Minicompact	0.379	0.381	0.381	0.380	0.380	0.381	0.380	0.380	0.381	0.378	0.381	-0.5%
Subcompact	14.451	14.496	14.515	14.482	14.501	14.521	14.479	14.503	14.534	14.430	14.531	-0.4%
Compact	33.622	33.672	33.673	33.612	33.633	33.674	33.626	33.666	33.724	33.568	33.720	-0.3%

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Midsize	34.680	34.636	34.636	34.691	34.673	34.638	34.674	34.641	34.591	34.727	34.593	0.3%
Large	15.172	15.120	15.098	15.140	15.119	15.093	15.147	15.117	15.078	15.203	15.083	0.5%
Two Seater	1.697	1.696	1.697	1.695	1.694	1.693	1.694	1.693	1.692	1.694	1.691	0.1%
<b>Conventional Light Trucks</b>												
Small Pickup	12.452	12.433	12.431	12.464	12.457	12.441	12.450	12.430	12.411	12.487	12.418	0.4%
Large Pickup	21.618	21.632	21.660	21.666	21.677	21.670	21.657	21.659	21.646	21.637	21.650	0.0%
Small Van	17.805	17.833	17.827	17.789	17.797	17.822	17.800	17.832	17.866	17.775	17.871	-0.4%
Large Van	2.493	2.494	2.496	2.498	2.501	2.499	2.497	2.497	2.496	2.498	2.497	0.0%
Small Utility	31.842	31.823	31.808	31.811	31.801	31.798	31.817	31.804	31.800	31.823	31.787	0.1%
Large Utility	13.791	13.786	13.777	13.772	13.768	13.771	13.779	13.778	13.782	13.781	13.777	0.0%
<b>New Vehicle Average Horsepower</b>												
<b>Conventional Cars</b>												
Minicompact	277.362	278.589	279.726	280.523	281.266	281.956	282.424	282.831	283.255	283.674	284.086	0.7%
Subcompact	178.216	179.403	180.408	181.380	182.288	183.197	183.987	184.591	185.135	185.658	186.024	1.0%
Compact	171.494	172.863	174.077	175.236	176.310	177.398	178.463	179.327	180.177	181.114	181.839	1.1%
Midsize	221.756	223.422	224.853	226.186	227.405	228.590	229.694	230.563	231.395	232.226	232.864	1.1%
Large	255.126	256.511	257.707	258.875	260.014	261.298	262.017	262.704	263.500	264.194	264.688	0.8%
Two Seater	299.886	300.748	301.471	302.153	302.721	303.291	303.605	303.780	303.978	304.206	304.369	0.6%
Average New Car	205.164	206.541	207.774	209.015	210.089	211.166	212.197	212.944	213.665	214.622	215.057	1.1%
<b>Conventional Light Trucks</b>												
Small Pickup	203.674	204.840	205.987	207.124	208.240	209.367	210.136	210.658	210.624	210.605	210.586	1.0%
Large Pickup	272.363	273.497	274.028	274.577	275.084	275.582	275.544	275.465	275.342	275.271	275.215	0.8%
Small Van	222.418	223.647	224.811	225.929	227.031	228.168	228.931	229.350	229.910	230.411	230.937	0.9%
Large Van	271.402	272.895	274.421	275.955	276.750	277.174	277.041	276.832	276.608	276.474	276.324	0.8%
Small Utility	211.480	212.148	212.826	213.468	214.059	214.568	214.670	214.672	214.695	214.723	214.757	0.6%
Large Utility	295.616	296.514	297.144	297.787	298.394	298.975	298.953	298.829	298.681	298.624	298.498	0.7%
Average New Light Truck	238.714	239.706	240.523	241.307	242.050	242.755	242.998	243.105	243.156	243.203	243.294	0.8%
<b>New Vehicle Average Weight</b>												
<b>Conventional Cars</b>												
Minicompact	3584.367	3586.436	3588.272	3590.895	3593.485	3595.444	3592.822	3589.884	3586.707	3584.679	3582.967	0.2%
Subcompact	2905.065	2907.716	2910.262	2912.777	2915.139	2917.491	2916.097	2914.571	2913.070	2911.760	2910.381	0.3%
Compact	2954.545	2956.209	2958.178	2960.080	2961.802	2963.559	2961.561	2959.341	2957.244	2955.564	2953.816	0.3%
Midsize	3467.303	3469.615	3471.880	3474.071	3476.186	3478.302	3476.041	3473.491	3471.006	3469.008	3466.875	0.3%
Large	3864.022	3866.832	3869.592	3871.603	3873.454	3875.901	3873.363	3870.840	3868.722	3866.533	3864.116	0.3%
Two Seater	3160.877	3163.255	3164.921	3167.198	3169.446	3171.600	3169.719	3167.676	3165.696	3164.075	3162.552	0.3%
Average New Car	3269.091	3270.597	3272.664	3275.449	3277.139	3278.800	3277.402	3274.673	3271.898	3271.949	3268.221	0.3%
<b>Conventional Light Trucks</b>												
Small Pickup	3802.374	3808.144	3813.907	3819.916	3825.768	3831.754	3830.895	3830.153	3829.522	3829.187	3828.835	0.3%
Large Pickup	4971.825	4980.362	4988.940	4997.574	5005.382	5012.999	5011.043	5008.707	5006.217	5004.933	5003.911	0.3%
Small Van	4207.958	4214.792	4221.658	4227.907	4233.901	4239.702	4237.258	4234.158	4230.701	4228.134	4225.595	0.2%
Large Van	4997.470	5006.071	5015.079	5023.689	5031.825	5039.526	5037.110	5033.306	5029.237	5026.793	5024.070	0.2%
Small Utility	3896.773	3903.127	3909.575	3916.056	3921.941	3927.627	3925.536	3922.954	3920.949	3919.264	3917.570	0.2%
Large Utility	5410.820	5419.632	5428.678	5437.702	5445.958	5453.820	5450.850	5446.624	5442.062	5439.227	5435.941	0.2%
Average New Light Truck	4409.068	4416.486	4423.992	4431.098	4437.913	4444.471	4442.255	4439.728	4437.158	4434.948	4433.607	0.2%
<b>Average Weight for the Stock</b>												
Conventional Cars	3196	3202	3209	3215	3221	3227	3232	3237	3241	3245	3248	0.1%
Conventional Light Trucks	4300	4312	4324	4335	4345	4357	4366	4374	4382	4388	4394	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: 2003 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 2002 (Washington, DC, November 2003); 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, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Cars 1/</b>													
Conventional Gasoline	711.91	678.69	649.72	598.95	573.22	560.06	543.47	525.61	507.12	491.36	479.96	471.57	466.90
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	0.44	0.25	0.13	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	21.45	28.43	35.59	36.89	36.26	35.49	34.74	33.91	32.84	31.85	30.95	30.23	29.80
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	3.29	4.16	5.00	5.73	6.03	5.94	5.88	5.81	5.65	5.48	5.34	5.23	5.14
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
Liquefied Petroleum Gas Bi-fuel	0.00	0.00	0.00	23.24	24.23	23.60	22.99	22.31	21.57	20.92	20.39	19.96	19.64
Electric	0.79	0.94	1.05	1.07	0.93	0.84	0.76	0.68	0.62	0.58	0.55	0.53	0.52
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
<b>Total Fleet Cars</b>	<b>737.88</b>	<b>712.46</b>	<b>691.50</b>	<b>665.87</b>	<b>640.68</b>	<b>625.94</b>	<b>607.84</b>	<b>588.33</b>	<b>567.81</b>	<b>550.18</b>	<b>537.20</b>	<b>527.51</b>	<b>522.00</b>
<b>Light Trucks 1/</b>													
Conventional Gasoline	742.38	696.36	659.69	608.62	613.10	615.56	624.27	635.59	644.86	651.02	660.78	670.05	678.20
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	26.11	38.07	50.81	63.65	67.81	68.39	69.51	71.01	72.17	72.91	73.89	74.88	75.74
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	15.75	19.06	22.43	25.86	26.03	26.18	26.60	27.15	27.63	27.96	28.42	28.85	29.24
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
Liquefied Petroleum Gas Bi-fuel	41.96	55.21	69.34	83.44	86.21	86.64	87.92	89.64	91.08	92.06	93.44	94.79	95.97
Electric	0.96	1.29	1.59	1.93	2.02	1.95	1.89	1.88	1.86	1.84	1.86	1.90	1.94
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
<b>Total Fleet Light Trucks</b>	<b>827.16</b>	<b>810.00</b>	<b>803.86</b>	<b>783.50</b>	<b>795.17</b>	<b>798.72</b>	<b>810.20</b>	<b>825.27</b>	<b>837.59</b>	<b>845.79</b>	<b>858.39</b>	<b>870.46</b>	<b>881.08</b>
<b>Total Fleet Vehicles</b>	<b>1565.04</b>	<b>1522.46</b>	<b>1495.36</b>	<b>1449.37</b>	<b>1435.85</b>	<b>1424.66</b>	<b>1418.03</b>	<b>1413.60</b>	<b>1405.40</b>	<b>1395.97</b>	<b>1395.59</b>	<b>1397.98</b>	<b>1403.08</b>
<b>Commercial Light Trucks 2/</b>	<b>578.04</b>	<b>577.66</b>	<b>599.06</b>	<b>610.09</b>	<b>615.94</b>	<b>626.47</b>	<b>640.09</b>	<b>654.45</b>	<b>665.58</b>	<b>676.04</b>	<b>686.97</b>	<b>697.41</b>	<b>710.98</b>

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Cars 1/</b>												
Conventional Gasoline	462.30	457.91	455.55	454.38	454.24	453.62	452.04	450.38	450.93	451.68	452.82	-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	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	-28.1%
Neat	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	29.45	29.16	28.97	28.85	28.77	28.70	28.59	28.47	28.48	28.50	28.54	0.0%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	5.08	5.03	5.00	4.98	4.96	4.95	4.94	4.93	4.94	4.94	4.96	0.8%
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	N/A
Liquefied Petroleum Gas Bi-fuel	19.38	19.18	19.05	18.95	18.88	18.83	18.77	18.71	18.73	18.75	18.78	N/A
Electric	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.52	0.52	0.52	-2.7%
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	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	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	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	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	N/A
<b>Total Fleet Cars</b>	<b>516.72</b>	<b>511.80</b>	<b>509.09</b>	<b>507.67</b>	<b>507.36</b>	<b>506.61</b>	<b>504.86</b>	<b>503.01</b>	<b>503.59</b>	<b>504.38</b>	<b>505.61</b>	<b>-1.5%</b>
<b>Light Trucks 1/</b>												
Conventional Gasoline	685.47	693.96	702.75	712.24	721.56	731.69	741.37	751.23	760.40	771.38	783.54	0.5%
Distillate	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	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	N/A
Ethanol												
Flex	76.48	77.34	78.27	79.25	80.22	81.27	82.32	83.39	84.39	85.56	86.87	3.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	29.59	30.00	30.42	30.87	31.30	31.78	32.25	32.72	33.16	33.68	34.26	2.7%
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	N/A
Liquefied Petroleum Gas Bi-fuel	97.02	98.25	99.51	100.86	102.17	103.61	105.02	106.45	107.78	109.36	111.11	3.2%
Electric	1.97	2.01	2.05	2.09	2.13	2.17	2.21	2.26	2.30	2.34	2.39	2.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	N/A
<b>Total Fleet Light Trucks</b>	<b>890.54</b>	<b>901.55</b>	<b>913.00</b>	<b>925.30</b>	<b>937.38</b>	<b>950.53</b>	<b>963.17</b>	<b>976.05</b>	<b>988.01</b>	<b>1002.33</b>	<b>1018.17</b>	<b>1.0%</b>
<b>Total Fleet Vehicles</b>	<b>1407.26</b>	<b>1413.36</b>	<b>1422.09</b>	<b>1432.97</b>	<b>1444.74</b>	<b>1457.14</b>	<b>1468.03</b>	<b>1479.07</b>	<b>1491.60</b>	<b>1506.71</b>	<b>1523.78</b>	<b>0.0%</b>
<b>Commercial Light Trucks 2/</b>	<b>721.32</b>	<b>729.54</b>	<b>741.61</b>	<b>754.98</b>	<b>768.12</b>	<b>780.27</b>	<b>791.77</b>	<b>803.86</b>	<b>817.10</b>	<b>830.64</b>	<b>843.91</b>	<b>1.7%</b>

**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.

N/A = Not Applicable.

Sources: 2003 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 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Cars 1/</b>													
Conventional Gasoline	1366.72	1326.39	1328.35	1299.13	1257.87	1225.34	1179.40	1153.82	1121.50	1112.38	1118.39	1112.05	1106.93
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	76.68	74.42	74.53	72.89	70.57	68.75	66.17	64.73	62.92	62.41	62.75	62.39	62.10
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	11.12	10.79	10.81	10.57	10.23	9.97	9.59	9.39	9.12	9.05	9.10	9.05	9.00
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
Liquefied Petroleum Gas Bi-fuel	42.88	41.61	41.68	40.76	39.46	38.44	37.00	36.20	35.19	34.90	35.09	34.89	34.73
Electric	2.27	2.21	2.21	2.16	2.09	2.04	1.96	1.92	1.87	1.85	1.86	1.85	1.84
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	1499.67	1455.42	1457.57	1425.50	1380.23	1344.54	1294.13	1266.06	1230.59	1220.59	1227.18	1220.23	1214.60
<b>Light Trucks 1/</b>													
Conventional Gasoline	806.41	793.40	798.26	824.96	848.52	878.49	886.21	909.70	925.58	932.30	955.36	967.84	982.52
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	84.81	83.44	83.96	86.76	89.24	92.39	93.21	95.68	97.35	98.05	100.48	101.79	103.33
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
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	31.19	30.68	30.87	31.90	32.82	33.97	34.27	35.18	35.80	36.06	36.95	37.43	38.00
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
Liquefied Petroleum Gas Bi-fuel	103.87	102.19	102.82	106.25	109.29	113.15	114.14	117.17	119.21	120.08	123.05	124.66	126.55
Electric	3.37	3.32	3.34	3.45	3.55	3.67	3.70	3.80	3.87	3.90	3.99	4.05	4.11
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	1029.65	1013.03	1019.24	1053.33	1083.42	1121.68	1131.54	1161.53	1181.80	1190.38	1219.83	1235.77	1254.51
Total Fleet Vehicles	2529.31	2468.45	2476.81	2478.84	2463.65	2466.23	2425.67	2427.60	2412.40	2410.97	2447.02	2456.00	2469.11
Commercial Light Trucks 2/	609.66	604.50	658.86	668.80	691.90	714.94	726.32	751.54	761.96	763.23	757.74	752.36	742.52

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Cars 1/</b>												
Conventional Gasoline	1095.82	1103.65	1114.27	1121.48	1120.88	1124.01	1126.25	1132.87	1140.68	1144.89	1150.34	-0.6%
Distillate	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	-0.6%
Neat	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	61.48	61.92	62.52	62.92	62.89	63.06	63.19	63.56	64.00	64.23	64.54	-0.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	8.91	8.98	9.06	9.12	9.12	9.14	9.16	9.22	9.28	9.31	9.36	-0.6%
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	N/A
Liquefied Petroleum Gas Bi-fuel	34.38	34.63	34.96	35.19	35.17	35.26	35.33	35.54	35.79	35.92	36.09	-0.6%
Electric	1.82	1.84	1.85	1.87	1.86	1.87	1.87	1.88	1.90	1.90	1.91	-0.6%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	N/A
Total Fleet Cars	1202.42	1211.01	1222.67	1230.57	1229.92	1233.35	1235.81	1243.07	1251.65	1256.26	1262.24	-0.6%
<b>Light Trucks 1/</b>												
Conventional Gasoline	989.64	1011.69	1034.25	1054.56	1066.71	1083.06	1102.16	1125.65	1151.46	1178.47	1203.91	1.9%
Distillate	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	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	N/A
Ethanol												
Flex	104.08	106.40	108.78	110.91	112.19	113.91	115.92	118.39	121.10	123.94	126.62	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	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	38.27	39.13	40.00	40.78	41.25	41.89	42.62	43.53	44.53	45.58	46.56	1.9%
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	N/A
Liquefied Petroleum Gas Bi-fuel	127.46	130.30	133.21	135.83	137.39	139.50	141.96	144.98	148.31	151.79	155.06	1.9%
Electric	4.14	4.23	4.32	4.41	4.46	4.53	4.61	4.70	4.81	4.93	5.03	1.9%
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	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	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	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	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	N/A
Total Fleet Light Trucks	1263.59	1291.75	1320.56	1346.49	1362.01	1382.88	1407.27	1437.26	1470.22	1504.71	1537.18	1.9%
Total Fleet Vehicles	2466.02	2502.75	2543.23	2577.06	2591.93	2616.24	2643.08	2680.34	2721.86	2760.97	2799.43	0.6%
Commercial Light Trucks 2/	740.66	748.56	761.91	771.88	776.71	784.51	792.81	804.65	817.44	829.90	841.92	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.

N/A = Not Applicable.

Sources: 2003 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 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cars 1/													
Conventional Gasoline	6094.74	5901.40	5646.87	5263.20	5108.80	5006.46	4861.66	4720.24	4586.49	4476.99	4417.10	4376.90	4361.32
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	3.72	2.42	1.11	0.08	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	183.62	247.51	308.45	321.68	320.51	313.54	305.20	296.68	288.23	281.23	276.85	273.87	272.29
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	29.86	38.12	46.09	51.91	54.22	52.83	51.52	50.20	48.78	47.56	46.71	46.09	45.71
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
Liquefied Petroleum Gas Bi-fuel	95.04	133.50	170.91	194.57	203.10	198.05	193.08	188.04	182.71	178.17	175.06	172.82	171.46
Electric	7.34	8.85	10.28	10.90	10.30	10.07	9.82	9.55	9.27	9.05	8.89	8.79	8.72
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	6414.32	6331.81	6183.71	5842.34	5696.94	5580.94	5421.28	5264.70	5115.48	4993.00	4924.61	4878.47	4859.50
Light Trucks 1/													
Conventional Gasoline	4889.33	4608.08	4301.39	3981.93	4035.35	4108.95	4198.51	4306.81	4406.70	4489.57	4567.53	4647.16	4720.28
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	0.07	0.03	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	173.11	254.55	335.42	417.37	444.80	452.75	462.02	473.67	484.84	494.16	503.01	511.66	519.89
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	96.92	117.17	137.11	157.72	159.62	162.46	165.96	170.25	174.22	177.53	180.61	183.77	186.67
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
Liquefied Petroleum Gas Bi-fuel	260.62	344.75	428.55	514.58	533.92	543.43	555.05	569.33	582.63	593.72	604.09	614.62	624.34
Electric	8.23	11.10	13.94	16.84	18.11	18.43	18.79	19.26	19.72	20.10	20.47	20.82	21.16
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	5428.30	5335.72	5216.45	5088.44	5191.80	5286.02	5400.33	5539.32	5668.11	5775.08	5875.71	5978.03	6072.33
Total Fleet Vehicles	11842.63	11667.53	11400.17	10930.78	10888.73	10866.96	10821.61	10804.02	10783.59	10768.09	10800.32	10856.50	10931.84
Commercial Light Trucks 2/	5762.21	5936.30	6221.36	6545.50	6901.51	7275.20	7645.29	8017.98	8372.56	8696.16	8980.38	9226.64	9432.74



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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Cars 1/</b>												
Conventional Gasoline	4343.88	4330.20	4332.92	4347.77	4371.15	4390.63	4402.51	4414.22	4433.62	4454.13	4477.45	-1.2%
Distillate	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	-28.2%
Neat	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	271.00	270.29	270.35	271.05	272.15	273.35	274.26	275.09	276.21	277.42	278.80	0.5%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	45.42	45.31	45.31	45.38	45.50	45.67	45.85	46.02	46.20	46.38	46.60	0.9%
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	N/A
Liquefied Petroleum Gas Bi-fuel	170.43	170.01	170.02	170.32	170.81	171.48	172.14	172.75	173.42	174.13	174.94	1.2%
Electric	8.68	8.66	8.66	8.68	8.70	8.74	8.78	8.80	8.84	8.88	8.92	0.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	N/A
Total Fleet Cars	4839.41	4824.47	4827.26	4843.20	4868.32	4889.88	4903.53	4916.89	4938.29	4960.94	4986.71	-1.1%
<b>Light Trucks 1/</b>												
Conventional Gasoline	4784.16	4861.57	4940.89	5026.88	5110.60	5201.65	5291.37	5382.49	5479.31	5589.67	5709.08	1.0%
Distillate	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	-12.2%
Neat	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	526.99	535.38	544.25	553.62	562.79	572.65	582.64	592.76	603.43	615.38	628.40	4.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	189.19	192.26	195.39	198.78	202.08	205.68	209.24	212.85	216.66	221.01	225.72	3.0%
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	N/A
Liquefied Petroleum Gas Bi-fuel	632.80	643.04	653.54	664.85	675.88	687.90	699.83	711.91	724.67	739.17	754.90	3.6%
Electric	21.45	21.79	22.15	22.53	22.90	23.30	23.71	24.12	24.56	25.04	25.56	3.9%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	N/A
Total Fleet Light Trucks	6154.59	6254.04	6356.23	6466.66	6574.24	6691.18	6806.80	6924.14	7048.63	7190.27	7343.66	1.5%
Total Fleet Vehicles	10994.00	11078.50	11183.49	11309.86	11442.56	11581.06	11710.33	11841.03	11986.93	12151.21	12330.37	0.3%
Commercial Light Trucks 2/	9608.59	9765.81	9911.89	10045.05	10162.04	10267.10	10363.11	10456.52	10550.63	10647.52	10748.66	2.7%

**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.

N/A = Not applicable.

Sources: 2003 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 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); 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](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Cars 1/</b>													
Conventional Gasoline	123.60	120.09	115.32	107.75	104.36	102.16	99.07	96.03	93.15	90.80	89.50	88.62	88.26
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	0.08	0.05	0.02	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	3.72	5.04	6.30	6.59	6.55	6.40	6.22	6.04	5.85	5.70	5.61	5.55	5.51
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.61	0.78	0.94	1.06	1.11	1.08	1.05	1.02	0.99	0.96	0.95	0.93	0.92
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
Liquefied Petroleum Gas Bi-fuel	1.93	2.72	3.49	3.98	4.15	4.04	3.93	3.83	3.71	3.61	3.55	3.50	3.47
Electric	0.15	0.18	0.21	0.22	0.21	0.21	0.20	0.19	0.19	0.18	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
<b>Total Fleet Cars</b>	<b>130.08</b>	<b>128.85</b>	<b>126.29</b>	<b>119.61</b>	<b>116.37</b>	<b>113.89</b>	<b>110.47</b>	<b>107.10</b>	<b>103.89</b>	<b>101.26</b>	<b>99.78</b>	<b>98.78</b>	<b>98.34</b>
<b>Light Trucks 1/</b>													
Conventional Gasoline	99.16	93.77	87.84	81.52	82.43	83.85	85.55	87.61	89.50	91.05	92.54	94.09	95.52
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	3.51	5.18	6.85	8.54	9.09	9.24	9.41	9.64	9.85	10.02	10.19	10.36	10.52
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	1.97	2.38	2.80	3.23	3.26	3.32	3.38	3.46	3.54	3.60	3.66	3.72	3.78
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
Liquefied Petroleum Gas Bi-fuel	5.29	7.02	8.75	10.53	10.91	11.09	11.31	11.58	11.83	12.04	12.24	12.44	12.63
Electric	0.17	0.23	0.28	0.34	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.42	0.43
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
<b>Total Fleet Light Truck</b>	<b>110.09</b>	<b>108.58</b>	<b>106.53</b>	<b>104.17</b>	<b>106.05</b>	<b>107.87</b>	<b>110.04</b>	<b>112.69</b>	<b>115.11</b>	<b>117.12</b>	<b>119.05</b>	<b>121.04</b>	<b>122.88</b>
<b>Total Fleet Vehicles</b>	<b>240.17</b>	<b>237.43</b>	<b>232.82</b>	<b>223.78</b>	<b>222.42</b>	<b>221.76</b>	<b>220.51</b>	<b>219.79</b>	<b>219.01</b>	<b>218.38</b>	<b>218.83</b>	<b>219.82</b>	<b>221.22</b>
<b>Commercial Light Trucks 2/</b>	<b>63.97</b>	<b>64.54</b>	<b>67.48</b>	<b>69.18</b>	<b>70.19</b>	<b>71.98</b>	<b>74.05</b>	<b>76.22</b>	<b>77.99</b>	<b>79.69</b>	<b>81.43</b>	<b>83.10</b>	<b>85.17</b>

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Cars 1/												
Conventional Gasoline	87.86	87.53	87.54	87.81	88.26	88.62	88.82	89.01	89.36	89.74	90.18	-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	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	-28.2%
Neat	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	5.48	5.46	5.46	5.47	5.50	5.52	5.53	5.55	5.57	5.59	5.61	0.5%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.94	0.9%
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	N/A
Liquefied Petroleum Gas Bi-fuel	3.45	3.44	3.44	3.44	3.45	3.46	3.47	3.48	3.50	3.51	3.52	1.2%
Electric	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	N/A
Total Fleet Cars	97.88	97.52	97.53	97.82	98.30	98.70	98.92	99.14	99.54	99.95	100.43	-1.1%
Light Trucks 1/												
Conventional Gasoline	96.76	98.27	99.82	101.53	103.19	104.99	106.75	108.53	110.44	112.62	114.98	0.9%
Distillate	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	-12.2%
Neat	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	10.66	10.82	11.00	11.18	11.36	11.56	11.75	11.95	12.16	12.40	12.66	4.1%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	3.83	3.89	3.95	4.01	4.08	4.15	4.22	4.29	4.37	4.45	4.55	3.0%
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	N/A
Liquefied Petroleum Gas Bi-fuel	12.80	13.00	13.20	13.43	13.65	13.88	14.12	14.35	14.61	14.89	15.20	3.6%
Electric	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.49	0.50	0.51	3.8%
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	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	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	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	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	N/A
Total Fleet Light Truck	124.48	126.42	128.42	130.60	132.74	135.06	137.32	139.62	142.07	144.87	147.90	1.4%
Total Fleet Vehicles	222.36	223.94	225.94	228.42	231.04	233.76	236.24	238.76	241.61	244.83	248.33	0.2%
Commercial Light Trucks 2/	86.87	88.30	90.23	92.33	94.41	96.39	98.30	100.29	102.45	104.66	106.85	2.3%

**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.

N/A = Not applicable.

Sources: 2003 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 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); and Energy Information Administration (EIA), AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

**Table 54. Air Travel Energy Use**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Fuel Cost (1987 dollars per million Btu)	4.2	4.5	5.6	5.3	4.8	4.5	4.5	4.4	4.3	4.3	4.3	4.3	4.3
Yield-domestic (ticket price) 1/	10.8	10.9	10.1	9.5	9.0	8.6	8.2	7.9	7.6	7.3	7.1	6.8	6.8
Yield-international (1996 dollars) 1/	8.9	9.0	8.6	8.3	8.0	7.7	7.4	7.1	6.9	6.6	6.4	6.1	5.9
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	479.3	504.4	515.0	524.2	536.6	552.0	573.7	594.4	619.8	643.5	664.7	683.3	702.9
Load Factor, Domestic 2/	0.70	0.71	0.71	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73
Revenue Passenger Miles, International	171.9	168.1	173.6	181.0	190.2	200.4	210.8	221.2	231.8	242.4	250.9	258.6	265.1
Load Factor, International 2/	0.76	0.75	0.76	0.76	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78
Revenue Ton Miles, Freight (billion)	28.1	29.7	28.6	32.3	35.6	39.1	39.3	40.8	43.3	45.5	47.7	49.8	52.1
Seat Miles Demanded (billion)													
Narrow Body Aircraft	560.0	577.0	588.3	596.6	609.7	625.3	647.2	667.9	695.3	718.7	739.8	758.8	777.6
Wide Body Aircraft	277.9	261.2	281.3	286.9	294.8	303.3	313.8	323.9	334.3	343.6	351.2	356.9	361.4
Regional Jets	69.9	94.1	81.4	86.3	91.9	98.4	106.0	113.8	122.7	131.7	140.4	147.9	156.8
Aircraft Sales													
Narrow Body Aircraft	164.0	98.0	221.6	234.1	238.0	243.8	241.3	241.9	239.7	236.7	235.6	238.2	243.0
Wide Body Aircraft	40.0	30.0	69.2	73.1	74.3	76.1	75.3	75.5	74.8	73.9	73.5	74.3	75.8
Regional Jets	281.0	303.0	124.6	131.6	133.8	137.1	135.7	136.0	134.8	133.1	132.5	134.0	136.7
Total Aircraft Sales	485.0	431.0	415.4	438.8	446.2	457.0	452.2	453.5	449.3	443.7	441.6	446.5	455.5
Aircraft Stock													
Narrow Body Aircraft	5002.0	4894.0	5080.4	5171.6	5269.2	5375.1	5481.2	5590.2	5698.6	5804.9	5908.9	6013.7	6124.9
Wide Body Aircraft	1373.0	1394.0	1403.1	1434.3	1463.8	1492.5	1517.9	1541.4	1563.8	1585.6	1608.2	1631.9	1658.0
Regional Jets	1290.0	1586.0	1408.8	1533.9	1660.2	1788.9	1915.1	2040.5	2163.4	2283.3	2401.7	2520.1	2639.4
Total Aircraft Stock	7665.0	7874.0	7892.3	8139.7	8393.3	8656.5	8914.2	9172.0	9425.7	9673.8	9918.8	10165.8	10422.3
Aircraft Active Stock													
Narrow Body Aircraft	4167.0	3785.0	3908.9	3993.8	4068.6	4160.1	4291.6	4414.7	4581.1	4720.6	4776.0	4823.8	4878.4
Wide Body Aircraft	1133.0	762.0	724.3	739.9	761.4	784.6	813.4	846.9	884.4	924.2	965.4	1008.5	1053.1
Regional Jets	1214.0	1214.0	1408.8	1516.8	1598.4	1678.9	1773.8	1875.8	1990.6	2105.4	2215.2	2304.8	2413.1
Total Active Stock	6514.0	5761.0	6042.0	6250.5	6428.4	6623.6	6878.8	7137.4	7456.2	7750.1	7956.7	8137.2	8344.6
Aircraft Parked Stock													
Narrow Body Aircraft	835.0	668.0	0.0	14.1	51.5	97.9	99.2	109.7	54.9	2.2	0.0	0.0	0.0
Wide Body Aircraft	240.0	187.0	148.7	162.6	171.5	187.0	195.7	205.5	210.7	210.2	210.3	203.0	200.2
Regional Jets	76.0	76.0	0.0	17.1	61.8	110.0	141.3	164.7	172.8	177.8	186.5	215.3	226.3
Total Parked Stock	1151.0	931.0	148.7	193.7	284.9	394.9	436.2	479.9	438.3	390.3	396.7	418.3	426.5
Aircraft Cargo Stock													
Narrow Body Aircraft	549.0	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	424.0	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	973.0	973.0	1701.6	1695.5	1680.0	1638.0	1599.2	1554.8	1531.2	1533.4	1565.4	1610.3	1651.3
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.11	0.20	0.34
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	66.2	67.3	68.8	70.7	72.5	74.3	75.8
Wide Body Aircraft	62.3	63.0	63.2	63.3	63.5	63.9	64.6	65.7	67.2	69.0	70.9	72.6	74.1
Regional Jets	42.1	42.7	42.8	42.9	43.0	43.2	43.7	44.4	45.4	46.6	47.9	49.0	50.0

**Table 54. Air Travel Energy Use**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Average Aircraft	61.9	58.1	57.7	57.6	57.6	57.8	58.3	59.1	60.3	61.8	63.3	64.7	65.8
Aircraft Stock Efficiency 3/ Narrow Body Aircraft	57.2	56.7	58.4	59.1	59.7	60.3	60.8	61.3	61.8	62.4	63.1	63.9	64.7
Wide Body Aircraft	56.2	55.9	57.8	58.8	59.7	60.6	61.3	62.0	62.7	63.4	64.1	64.8	65.6
Regional Jets	41.3	41.2	41.2	41.5	41.7	41.9	42.0	42.2	42.5	42.7	43.1	43.4	43.8
Average Aircraft	55.2	55.3	56.2	56.9	57.4	57.9	58.4	58.8	59.2	59.6	60.2	60.8	61.4
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel	2825.3	2702.2	2801.8	2883.9	2979.7	3088.4	3162.0	3255.0	3383.3	3492.8	3582.0	3653.5	3725.7
Aviation Gasoline	42.5	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1	42.1
Military													
Jet Fuel	514.7	554.8	621.8	642.2	649.9	651.4	652.5	653.5	653.5	654.0	654.7	655.4	656.4

**Table 54. Air Travel Energy Use**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Fuel Cost (1987 dollars per million Btu)	4.3	4.4	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	0.3%
Yield-domestic (ticket price) 1/	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	-2.2%
Yield-international (1996 dollars) 1/	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	-2.2%
Travel Demand (billion miles)												
Revenue Passenger Miles, Domestic	721.9	737.9	754.0	768.0	780.3	790.2	799.8	807.6	814.2	820.7	825.2	2.3%
Load Factor, Domestic 2/	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.75	0.2%
Revenue Passenger Miles, International	271.7	279.7	287.6	295.1	302.4	309.2	315.9	321.7	326.7	330.9	334.1	3.2%
Load Factor, International 2/	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.3%
Revenue Ton Miles, Freight (billion)	54.1	55.8	58.2	61.2	64.1	66.6	69.0	71.5	74.4	77.3	80.2	4.6%
Seat Miles Demanded (billion)												
Narrow Body Aircraft	795.6	811.7	827.1	839.9	852.1	861.4	869.7	876.5	881.2	886.9	884.3	2.0%
Wide Body Aircraft	366.0	370.3	375.4	379.6	383.4	385.6	388.2	389.8	390.4	390.1	392.7	1.9%
Regional Jets	165.7	174.4	183.1	191.5	199.8	207.6	215.3	222.4	229.7	236.4	243.4	4.4%
Aircraft Sales												
Narrow Body Aircraft	244.7	246.3	250.2	255.2	259.5	264.8	269.8	276.8	284.9	292.6	301.4	5.2%
Wide Body Aircraft	76.4	76.9	78.1	79.7	81.0	82.7	84.2	86.4	88.9	91.3	94.1	5.3%
Regional Jets	137.6	138.5	140.7	143.5	145.9	148.9	151.7	155.7	160.2	164.5	169.5	-2.6%
Total Aircraft Sales	458.6	461.7	469.1	478.4	486.4	496.4	505.7	518.9	534.0	548.5	564.9	1.2%
Aircraft Stock												
Narrow Body Aircraft	6241.3	6359.8	6477.8	6595.3	6711.4	6828.1	6945.6	7066.4	7191.8	7321.4	7457.6	1.9%
Wide Body Aircraft	1685.6	1713.1	1741.0	1769.6	1799.5	1831.9	1866.7	1903.5	1943.4	1985.3	2029.1	1.7%
Regional Jets	2757.5	2874.2	2990.5	3106.9	3222.7	3338.3	3453.0	3567.9	3683.1	3798.3	3913.6	4.2%
Total Aircraft Stock	10684.3	10947.1	11209.3	11471.8	11733.6	11998.2	12265.3	12537.8	12818.3	13105.0	13400.3	2.4%
Aircraft Active Stock												
Narrow Body Aircraft	4930.2	4989.4	5056.6	5169.7	5313.2	5471.9	5546.3	5573.6	5588.2	5609.2	5577.6	1.8%
Wide Body Aircraft	1096.5	1136.8	1173.2	1205.7	1234.5	1261.1	1286.1	1310.2	1333.1	1354.8	1376.4	2.7%
Regional Jets	2520.7	2622.6	2724.5	2819.1	2912.6	2996.8	3078.8	3153.0	3227.0	3293.1	3361.6	4.7%
Total Active Stock	8547.5	8748.8	8954.4	9194.5	9460.3	9729.8	9911.2	10036.7	10148.3	10257.2	10315.6	2.7%
Aircraft Parked Stock												
Narrow Body Aircraft	0.0	0.0	0.0	0.0	0.0	0.0	100.4	252.8	372.5	423.5	514.3	-1.2%
Wide Body Aircraft	202.0	203.1	203.1	210.3	234.0	264.1	295.9	324.1	349.2	363.5	375.7	3.2%
Regional Jets	236.8	251.6	266.0	287.8	310.2	341.4	374.2	414.9	456.1	505.1	552.0	9.4%
Total Parked Stock	438.8	454.7	469.1	498.1	544.2	605.5	770.5	991.8	1177.8	1292.2	1442.1	2.0%
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	4.2%
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	-1.9%
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	2.4%
Advanced Technology Penetration												
Ultra-high Bypass	0.51	0.69	0.83	0.91	0.96	0.98	0.99	1.00	1.00	1.00	1.00	31.4%
Propfan	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	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	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	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	27.3%
New Aircraft Efficiency 3/												
Narrow Body Aircraft	77.3	78.7	79.7	80.3	80.7	80.8	80.9	80.9	80.9	80.9	80.9	1.0%
Wide Body Aircraft	75.6	77.0	78.0	78.6	79.0	79.1	79.2	79.3	79.3	79.4	79.4	1.1%
Regional Jets	51.0	52.0	52.6	53.0	53.2	53.3	53.4	53.4	53.4	53.4	53.4	1.0%



**Table 54. Air Travel Energy Use**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Average Aircraft	67.0	68.0	68.7	69.2	69.4	69.6	69.6	69.5	69.4	69.3	69.1	0.8%
Aircraft Stock Efficiency 3/												
Narrow Body Aircraft	65.6	66.5	67.4	68.2	69.0	69.7	70.5	71.4	72.3	73.2	74.2	1.2%
Wide Body Aircraft	66.4	67.2	68.1	69.0	69.9	70.8	71.7	72.5	73.4	74.3	75.1	1.4%
Regional Jets	44.2	44.6	45.0	45.4	45.8	46.2	46.6	47.0	47.5	47.9	48.3	0.7%
Average Aircraft	62.1	62.7	63.4	64.0	64.6	65.2	65.9	66.5	67.2	67.9	68.5	1.0%
Fuel Consumption (trillion Btu)												
Commercial												
Jet Fuel	3790.0	3840.6	3901.1	3964.7	4026.1	4071.2	4106.9	4137.2	4166.3	4194.7	4211.8	2.0%
Aviation Gasoline	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	658.3	660.9	663.3	665.5	667.5	669.4	671.2	672.8	674.4	675.9	677.3	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: 2003 derived using: Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Model Maintenance Re-Estimation of the Air Travel Demand Model, Subtask 22-1(a), (September 30, 1997); Federal Aviation Administration (FAA), FAA Aviation Forecasts, Fiscal Years 1998-2009, FAA-APO 98-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; U.S. Department of Transportation, RSPA, Air Carrier Financial Statistics Quarterly, December 1999/1998; U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 1999/1998 (Washington, DC, 1999); Greene, D.L., "Energy Efficiency Improvement Potential of Commercial Aircraft to 2010," ORNL-6622, 6/1990; Rathi, A. B. Peterson, and D. Greene, Air Transport Energy Use Model, Oak Ridge National Laboratory, April 1991, Draft; Energy Information Administration (EIA), State Energy Data 2001, DOE/EIA-0214(2001) (Washington, DC, November 2004); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA AEO2005 National Energy Modeling System run aeo2005.d102004a.

**Table 55. Freight Transportation Energy Use**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	32.41	33.21	34.83	36.26	37.05	38.19	39.70	41.16	42.32	43.49	44.62	45.69	46.97
Gasoline	14.78	14.37	14.61	14.70	14.51	14.42	14.44	14.43	14.34	14.30	14.31	14.33	14.45
Liquefied Petroleum Gas	0.43	0.41	0.40	0.40	0.39	0.39	0.40	0.42	0.43	0.45	0.46	0.48	0.49
Compressed Natural Gas	0.06	0.09	0.13	0.18	0.25	0.33	0.43	0.55	0.67	0.79	0.91	1.02	1.13
Medium Subtotal	47.68	48.08	49.97	51.53	52.20	53.33	54.98	56.55	57.75	59.03	60.29	61.52	63.05
Heavy													
Diesel	160.41	164.17	173.17	180.91	184.81	189.80	196.54	202.82	207.48	212.28	216.84	221.37	227.37
Gasoline	1.82	1.79	1.86	1.91	1.93	1.95	1.99	2.03	2.06	2.09	2.12	2.16	2.22
Liquefied Petroleum Gas	0.05	0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.21	0.22
Compressed Natural Gas	0.05	0.08	0.12	0.18	0.24	0.31	0.40	0.49	0.58	0.66	0.74	0.80	0.86
Heavy Subtotal	162.33	166.10	175.23	183.10	187.08	192.19	199.08	205.51	210.29	215.22	219.90	224.54	230.66
Total Vehicle Miles Traveled	210.01	214.18	225.20	234.63	239.28	245.52	254.06	262.06	268.04	274.25	280.19	286.05	293.72
Consumption (trillion Btu)													
Medium													
Diesel	491.30	501.28	523.75	543.59	554.38	570.75	592.96	614.34	631.37	648.66	665.07	680.64	699.33
Gasoline	217.84	211.02	213.79	214.53	211.33	209.58	209.39	208.69	206.85	205.88	205.43	205.34	206.56
Liquefied Petroleum Gas	8.37	7.84	7.58	7.40	7.16	7.04	7.17	7.34	7.49	7.67	7.87	8.06	8.28
Compressed Natural Gas	1.05	1.41	2.03	2.87	3.89	5.19	6.79	8.60	10.50	12.41	14.28	16.05	17.80
Medium Subtotal	718.56	721.54	747.15	768.39	776.77	792.56	816.32	838.98	856.20	874.63	892.65	910.10	931.97
Heavy													
Diesel	3635.05	3706.11	3898.04	4064.93	4148.68	4259.00	4410.26	4551.24	4653.54	4754.40	4843.77	4924.27	5026.81
Gasoline	32.21	31.40	32.42	33.23	33.39	33.75	34.38	34.94	35.27	35.72	36.22	36.80	37.70
Liquefied Petroleum Gas	0.90	1.11	1.41	1.68	1.91	2.19	2.53	2.85	3.11	3.32	3.48	3.60	3.71
Compressed Natural Gas	0.96	1.37	2.11	3.05	4.10	5.35	6.85	8.45	9.99	11.42	12.66	13.72	14.72
Heavy Subtotal	3669.12	3739.99	3933.98	4102.88	4188.08	4300.28	4454.02	4597.48	4701.92	4804.86	4896.14	4978.39	5082.94
Medium and Heavy Total													
Diesel	4126.35	4207.39	4421.79	4608.52	4703.07	4829.75	5003.22	5165.58	5284.92	5403.06	5508.84	5604.91	5726.14
Gasoline	250.05	242.42	246.22	247.76	244.72	243.32	243.78	243.63	242.12	241.60	241.66	242.15	244.27
Liquefied Petroleum Gas	9.27	8.95	8.98	9.08	9.08	9.23	9.70	10.18	10.60	10.99	11.35	11.66	11.99
Compressed Natural Gas	2.01	2.78	4.14	5.92	7.99	10.54	13.64	17.06	20.49	23.83	26.94	29.78	32.51
Total	4387.68	4461.53	4681.13	4871.27	4964.85	5092.84	5270.34	5436.46	5558.12	5679.49	5788.79	5888.49	6014.91
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.30	8.33	8.36	8.37	8.39	8.40	8.41	8.42	8.42	8.43	8.43	8.43	8.44
Gasoline	8.48	8.51	8.53	8.56	8.58	8.60	8.62	8.65	8.67	8.70	8.72	8.74	8.76
Liquefied Petroleum Gas	6.46	6.57	6.68	6.77	6.86	6.93	7.01	7.09	7.17	7.24	7.31	7.37	7.42
Compressed Natural Gas	7.72	7.80	7.85	7.88	7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.97
Medium Average	8.34	8.37	8.39	8.41	8.43	8.44	8.45	8.46	8.47	8.48	8.48	8.49	8.50
Heavy													
Diesel	5.52	5.54	5.56	5.57	5.57	5.57	5.57	5.57	5.58	5.58	5.60	5.62	5.66
Gasoline	7.07	7.12	7.16	7.19	7.22	7.24	7.26	7.27	7.29	7.31	7.33	7.35	7.36
Liquefied Petroleum Gas	7.06	7.11	7.16	7.18	7.20	7.22	7.23	7.24	7.24	7.25	7.25	7.26	7.26
Compressed Natural Gas	7.14	7.18	7.21	7.23	7.24	7.25	7.26	7.26	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.53	5.55	5.57	5.58	5.59	5.59	5.59	5.59	5.59	5.60	5.62	5.64	5.68
Average	5.99	6.00	6.02	6.02	6.03	6.03	6.03	6.03	6.03	6.04	6.05	6.08	6.11
Stock (millions)													
Medium													
Diesel	2.06	2.12	2.19	2.26	2.32	2.39	2.46	2.53	2.60	2.66	2.71	2.76	2.81
Gasoline	2.01	1.97	1.93	1.89	1.86	1.82	1.79	1.76	1.73	1.70	1.68	1.65	1.63
Liquefied Petroleum Gas	0.05	0.05	0.05	0.05	0.05	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	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.07

**Table 55. Freight Transportation Energy Use**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Medium Subtotal	4.13	4.14	4.18	4.21	4.24	4.28	4.32	4.36	4.41	4.45	4.48	4.51	4.54
Heavy													
Diesel	4.22	4.30	4.41	4.51	4.60	4.69	4.78	4.88	4.97	5.06	5.13	5.20	5.28
Gasoline	0.36	0.34	0.33	0.32	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25
Liquefied Petroleum Gas	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Compressed Natural Gas	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04
Heavy Subtotal	4.59	4.65	4.75	4.84	4.92	5.00	5.08	5.18	5.27	5.36	5.43	5.50	5.58
Total Stock	8.72	8.79	8.93	9.05	9.16	9.28	9.40	9.54	9.68	9.81	9.91	10.01	10.12
<b>New Trucks by Size Class</b>													
<b>Fuel Efficiency (gasoline equivalent MPG)</b>													
Medium													
Diesel	8.68	8.59	8.52	8.50	8.49	8.49	8.48	8.47	8.47	8.46	8.46	8.46	8.46
Gasoline	8.99	8.97	8.95	8.94	8.93	8.92	8.95	8.97	8.99	9.01	9.03	9.05	9.09
Liquefied Petroleum Gas	8.01	8.00	7.98	7.98	7.98	7.96	7.98	7.99	8.00	8.01	8.02	8.02	8.02
Compressed Natural Gas	7.99	7.97	7.95	7.93	7.93	7.93	7.95	7.96	7.98	7.99	8.00	8.00	8.00
Medium Average	8.74	8.66	8.60	8.58	8.57	8.56	8.55	8.55	8.54	8.55	8.55	8.55	8.55
Heavy													
Diesel	5.76	5.69	5.65	5.62	5.60	5.59	5.58	5.59	5.62	5.67	5.73	5.82	5.94
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	7.28
Heavy Average	5.77	5.71	5.66	5.64	5.62	5.61	5.61	5.61	5.64	5.69	5.76	5.85	5.96
Average	6.16	6.10	6.03	6.01	5.99	5.99	5.98	5.99	6.02	6.06	6.13	6.21	6.31
<b>Sales (millions)</b>													
Medium													
Diesel	0.12	0.12	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
Gasoline	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.17	0.18	0.20	0.20	0.20	0.21	0.22	0.23	0.23	0.23	0.23	0.22	0.22
Heavy													
Diesel	0.23	0.24	0.28	0.28	0.27	0.28	0.29	0.30	0.31	0.31	0.30	0.30	0.31
Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum 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	0.24	0.25	0.29	0.29	0.29	0.29	0.31	0.32	0.32	0.32	0.32	0.32	0.33
Total Sales	0.41	0.42	0.49	0.49	0.49	0.50	0.52	0.55	0.56	0.55	0.54	0.54	0.55
<b>Railroads</b>													
Ton Miles by Rail (billion)	1327.53	1351.85	1396.97	1449.63	1470.90	1500.81	1536.79	1562.92	1575.86	1604.40	1623.95	1642.27	1667.10
Fuel Efficiency (ton miles per thousand Btu)	2.85	2.88	2.91	2.94	2.97	3.00	3.03	3.06	3.09	3.12	3.15	3.19	3.22
Fuel Consumption (trillion Btu)													
Distillate (diesel)	465.45	469.24	480.06	493.13	495.31	500.29	507.13	510.57	509.60	513.60	514.63	515.18	517.70
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
<b>Domestic Shipping</b>													
Ton Miles Shipping (billion)	605.90	591.52	583.44	603.89	608.94	616.61	633.97	647.97	649.35	656.09	661.38	662.49	668.40
Fuel Efficiency (ton miles per thousand Btu)	2.29	2.30	2.30	2.31	2.31	2.31	2.32	2.32	2.33	2.33	2.34	2.34	2.35
Fuel Consumption (trillion Btu)													
Distillate (diesel)	187.89	184.31	190.14	196.40	197.63	199.70	204.90	208.99	209.00	210.73	211.99	211.90	213.35
Residual Oil	76.51	73.33	65.07	67.21	67.64	68.35	70.13	71.54	71.55	72.14	72.58	72.55	73.05
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

**Table 55. Freight Transportation Energy Use**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
International Shipping													
Gross Trade (billion 2000 \$)	1997.18	2069.73	2279.40	2455.88	2623.42	2820.35	3002.20	3200.38	3415.17	3625.85	3841.48	4076.03	4338.99
Exports (billion 2000 dollars)	706.45	721.72	807.35	910.77	1001.87	1098.35	1204.57	1317.30	1426.61	1535.72	1646.23	1761.21	1885.23
Imports (billion 2000 dollars)	1290.72	1348.01	1472.04	1545.11	1621.55	1722.01	1797.63	1883.08	1988.56	2090.13	2195.25	2314.82	2453.76
Fuel Consumption (trillion Btu)													
Distillate (diesel)	39.01	37.93	39.39	39.46	39.52	39.59	39.65	39.71	39.77	39.83	39.88	39.94	40.00
Residual Oil	550.32	522.89	467.04	467.87	468.62	469.46	470.19	470.94	471.70	472.40	473.09	473.78	474.52

**Table 55. Freight Transportation Energy Use**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Existing Trucks by Size Class												
Vehicle Miles Traveled (billion miles)												
Medium												
Diesel	48.10	49.12	50.53	51.99	53.35	54.66	55.97	57.33	58.82	60.28	61.70	2.9%
Gasoline	14.54	14.62	14.82	15.03	15.23	15.43	15.63	15.87	16.14	16.41	16.68	0.7%
Liquefied Petroleum Gas	0.51	0.52	0.53	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	1.9%
Compressed Natural Gas	1.23	1.32	1.41	1.50	1.57	1.64	1.70	1.76	1.82	1.88	1.93	15.1%
Medium Subtotal	64.38	65.58	67.29	69.06	70.71	72.30	73.89	75.55	77.38	79.18	80.94	2.4%
Heavy												
Diesel	232.58	236.81	242.78	249.11	254.95	260.33	265.50	270.91	276.91	282.72	288.19	2.6%
Gasoline	2.27	2.32	2.39	2.46	2.53	2.60	2.66	2.73	2.81	2.89	2.97	2.3%
Liquefied Petroleum Gas	0.22	0.22	0.22	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.22	5.9%
Compressed Natural Gas	0.90	0.93	0.96	0.99	1.02	1.04	1.05	1.06	1.08	1.09	1.10	12.8%
Heavy Subtotal	235.97	240.28	246.35	252.78	258.72	264.19	269.43	274.93	281.02	286.92	292.48	2.6%
Total Vehicle Miles Traveled	300.35	305.86	313.64	321.84	329.43	336.49	343.32	350.49	358.40	366.10	373.41	2.6%
Consumption (trillion Btu)												
Medium												
Diesel	715.57	730.21	750.58	771.59	791.25	810.29	829.20	849.04	870.65	891.88	912.65	2.8%
Gasoline	207.27	207.74	209.91	212.27	214.37	216.46	218.69	221.30	224.51	227.75	231.02	0.4%
Liquefied Petroleum Gas	8.46	8.60	8.77	8.95	9.11	9.24	9.35	9.47	9.58	9.67	9.75	1.0%
Compressed Natural Gas	19.35	20.71	22.13	23.46	24.65	25.71	26.67	27.60	28.54	29.43	30.27	15.0%
Medium Subtotal	950.65	967.26	991.38	1016.27	1039.37	1061.70	1083.92	1107.41	1133.27	1158.73	1183.68	2.3%
Heavy												
Diesel	5101.85	5153.41	5239.07	5327.76	5408.48	5483.14	5543.57	5612.60	5694.91	5775.82	5852.49	2.1%
Gasoline	38.54	39.27	40.33	41.50	42.62	43.70	44.78	45.94	47.23	48.51	49.76	2.1%
Liquefied Petroleum Gas	3.76	3.78	3.81	3.83	3.86	3.87	3.85	3.84	3.83	3.82	3.81	5.8%
Compressed Natural Gas	15.48	16.00	16.54	17.05	17.47	17.80	18.02	18.24	18.49	18.73	18.95	12.7%
Heavy Subtotal	5159.62	5212.46	5299.74	5390.14	5472.43	5548.51	5610.23	5680.62	5764.47	5846.89	5925.01	2.1%
Medium and Heavy Total												
Diesel	5817.42	5883.63	5989.64	6099.35	6199.73	6293.43	6372.77	6461.63	6565.56	6667.71	6765.14	2.2%
Gasoline	245.81	247.01	250.25	253.77	256.99	260.16	263.47	267.24	271.73	276.26	280.78	0.7%
Liquefied Petroleum Gas	12.23	12.37	12.57	12.78	12.97	13.12	13.20	13.31	13.41	13.49	13.55	1.9%
Compressed Natural Gas	34.83	36.71	38.66	40.51	42.12	43.51	44.70	45.84	47.03	48.16	49.22	14.0%
Total	6110.28	6179.71	6291.13	6406.41	6511.80	6610.22	6694.14	6788.03	6897.74	7005.61	7108.69	2.1%
Fuel Efficiency (gasoline equivalent MPG)												
Medium												
Diesel	8.44	8.44	8.44	8.44	8.44	8.45	8.45	8.45	8.45	8.45	8.45	0.1%
Gasoline	8.79	8.81	8.84	8.87	8.90	8.92	8.95	8.97	8.99	9.01	9.03	0.3%
Liquefied Petroleum Gas	7.47	7.52	7.56	7.61	7.67	7.72	7.76	7.82	7.87	7.92	7.97	0.9%
Compressed Natural Gas	7.98	7.98	7.98	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	0.1%
Medium Average	8.50	8.51	8.52	8.52	8.53	8.53	8.54	8.54	8.55	8.55	8.56	0.1%
Heavy												
Diesel	5.70	5.75	5.80	5.85	5.90	5.94	5.99	6.04	6.08	6.12	6.16	0.5%
Gasoline	7.38	7.39	7.40	7.41	7.42	7.43	7.44	7.44	7.45	7.45	7.46	0.2%
Liquefied Petroleum Gas	7.26	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.1%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	7.28	7.28	0.1%
Heavy Average	5.72	5.77	5.81	5.87	5.91	5.96	6.01	6.05	6.10	6.14	6.17	0.5%
Average	6.15	6.19	6.24	6.28	6.33	6.37	6.41	6.46	6.50	6.54	6.57	0.4%
Stock (millions)												
Medium												
Diesel	2.85	2.90	2.94	2.99	3.03	3.07	3.11	3.15	3.19	3.24	3.28	2.0%
Gasoline	1.60	1.58	1.56	1.54	1.53	1.52	1.50	1.50	1.49	1.48	1.48	-1.3%
Liquefied Petroleum Gas	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.1%
Compressed Natural Gas	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.12	13.3%

**Table 55. Freight Transportation Energy Use**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Medium Subtotal	4.57	4.60	4.63	4.67	4.70	4.73	4.77	4.80	4.84	4.88	4.93	0.8%
Heavy												
Diesel	5.35	5.41	5.47	5.53	5.60	5.65	5.71	5.76	5.82	5.87	5.92	1.5%
Gasoline	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	-1.5%
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	5.9%
Compressed Natural Gas	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	13.4%
Heavy Subtotal	5.65	5.71	5.77	5.84	5.90	5.96	6.02	6.08	6.14	6.20	6.25	1.4%
Total Stock	10.22	10.31	10.40	10.50	10.60	10.70	10.79	10.88	10.98	11.08	11.18	1.1%
New Trucks by Size Class												
Fuel Efficiency (gasoline equivalent MPG)												
Medium												
Diesel	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	9.13	9.17	9.21	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	0.1%
Liquefied Petroleum Gas	8.02	8.02	8.02	8.26	8.27	8.28	8.29	8.48	8.48	8.48	8.48	0.3%
Compressed Natural Gas	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0.0%
Medium Average	8.56	8.57	8.58	8.58	8.58	8.59	8.59	8.59	8.59	8.59	8.59	0.0%
Heavy												
Diesel	6.06	6.10	6.16	6.23	6.23	6.23	6.38	6.39	6.41	6.42	6.43	0.6%
Gasoline	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	0.0%
Compressed Natural Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	0.0%
Heavy Average	6.08	6.12	6.18	6.25	6.25	6.25	6.40	6.40	6.43	6.44	6.45	0.6%
Average	6.41	6.46	6.52	6.58	6.58	6.58	6.72	6.72	6.74	6.76	6.77	0.5%
Sales (millions)												
Medium												
Diesel	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	1.6%
Gasoline	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	1.1%
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	2.3%
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	7.9%
Medium Subtotal	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	1.6%
Heavy												
Diesel	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	1.5%
Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.5%
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	1.6%
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	7.1%
Heavy Subtotal	0.33	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	1.6%
Total Sales	0.56	0.55	0.56	0.57	0.57	0.57	0.57	0.58	0.59	0.60	0.60	1.6%
Railroads												
Ton Miles by Rail (billion)	1690.13	1717.66	1745.50	1773.37	1803.11	1832.62	1859.18	1890.47	1929.97	1965.70	2001.09	1.8%
Fuel Efficiency (ton miles per thousand Btu)	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)	519.56	522.70	525.81	528.83	532.27	535.53	537.80	541.34	547.08	551.58	555.85	0.8%
Residual Oil	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	N/A
Domestic Shipping												
Ton Miles Shipping (billion)	669.45	673.20	686.91	697.47	702.45	706.21	708.80	711.48	718.66	727.92	732.84	1.0%
Fuel Efficiency (ton miles per thousand Btu)	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)	213.24	213.98	217.89	220.78	221.89	222.61	222.96	223.34	225.12	227.54	228.60	1.0%
Residual Oil	73.02	73.28	74.62	75.62	76.01	76.26	76.39	76.52	77.14	77.97	78.34	0.3%
Motor Gasoline	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 55. Freight Transportation Energy Use**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
International Shipping												
Gross Trade (billion 2000 \$)	4608.67	4872.73	5171.02	5504.38	5848.62	6194.40	6559.52	6951.49	7387.70	7855.75	8352.21	6.5%
Exports (billion 2000 dollars)	2007.70	2124.20	2272.04	2452.84	2639.38	2818.19	2999.12	3198.60	3424.41	3666.07	3923.09	8.0%
Imports (billion 2000 dollars)	2600.98	2748.54	2898.97	3051.54	3209.24	3376.21	3560.40	3752.88	3963.29	4189.68	4429.12	5.6%
Fuel Consumption (trillion Btu)												
Distillate (diesel)	40.06	40.11	40.17	40.22	40.28	40.34	40.39	40.45	40.50	40.56	40.62	0.3%
Residual Oil	475.23	475.90	476.61	477.35	478.06	478.75	479.43	480.13	480.85	481.59	482.32	-0.4%



**Table 55. Freight Transportation Energy Use**

MPG = Miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2003 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20,21, 22, and 23 and Annual (Oak Ridge, TN, September 2003); United States Department of Transportation, 1989 Carload Waybill Statistics Traffic and Revenue by Commodity Classes, September 1991 and prior issues; Reebie Associates, TRANSEARCH Database, (Greenwich, Connecticut, 1989); Army Corps of Engineers, Waterborne Commerce of the United States, (New Orleans), 1991 and prior issues; U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); and Energy Information Administration (EIA), AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Car													
Unit Body Construction	92.91	95.13	95.07	94.36	94.20	94.21	94.40	94.37	94.43	94.49	94.44	94.48	94.48
Material Substitution II	50.91	72.45	72.43	72.08	71.98	71.89	71.97	71.91	71.81	71.82	71.77	71.76	71.73
Material Substitution III	0.31	3.31	3.32	3.46	4.87	7.71	7.93	9.22	10.99	11.00	11.20	11.45	11.46
Material Substitution IV	0.00	0.00	0.00	0.00	0.03	0.14	0.32	0.58	0.97	1.31	1.69	2.07	2.47
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	0.02
Drag Reduction II	55.76	73.58	73.57	73.61	69.24	60.24	58.97	52.01	44.30	43.83	42.90	42.02	41.36
Drag Reduction III	0.90	8.77	8.77	9.11	15.16	24.10	24.62	29.60	34.49	34.75	35.28	35.66	35.66
Drag Reduction IV	0.09	1.81	1.82	2.36	5.29	10.68	11.88	15.39	19.23	19.30	19.49	19.63	19.88
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.21	0.57	1.06	1.74
Roll-Over Technology	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	13.25	25.32	26.20	29.08	38.54	46.21	48.35	53.04	58.01	59.78	62.70	65.26	66.12
Early Torque Converter Lockup	0.18	5.22	5.52	7.31	16.97	26.72	29.42	35.30	41.99	43.43	45.46	47.25	49.33
Aggressive Shift Logic	3.26	9.27	9.28	9.54	10.59	12.27	12.58	13.66	15.07	15.06	15.28	15.52	15.54
4-Speed Automatic	71.59	69.23	69.25	70.35	70.09	69.28	68.03	65.91	63.38	62.38	61.41	59.71	59.39
5-Speed Automatic	7.99	7.93	7.99	8.29	8.52	8.74	8.76	8.89	9.02	9.06	9.17	9.27	9.30
6-Speed Automatic	0.00	0.00	0.02	0.10	0.25	0.46	0.64	0.89	1.14	1.38	1.59	1.80	1.95
6-Speed Manual	1.18	2.47	2.50	2.58	2.87	3.40	3.47	3.72	4.02	4.06	4.11	4.18	4.20
CVT	0.15	0.64	0.69	0.89	1.31	1.80	1.99	2.39	2.76	2.86	2.99	3.24	3.32
Automated Manual Trans	0.00	0.00	0.00	0.00	0.04	0.22	0.86	2.63	5.15	6.75	8.81	10.08	10.14
Roller Cam	96.12	99.57	99.60	99.67	99.74	99.78	99.81	99.85	99.87	99.88	99.88	99.88	99.88
OHC/AdvOHV-4 Cylinder	3.50	1.36	1.36	1.21	1.18	1.18	1.22	1.22	1.23	1.24	1.23	1.24	1.24
OHC/AdvOHV-6 Cylinder	5.20	4.77	4.63	4.44	4.07	3.83	3.72	3.59	3.52	3.49	3.44	3.43	3.43
OHC/AdvOHV-8 Cylinder	3.21	2.77	2.79	3.09	3.15	3.14	3.05	3.05	3.02	2.99	3.01	2.99	2.99
4-Valve/4-Cylinder	46.83	52.51	52.37	50.00	49.48	49.49	50.10	50.02	50.21	50.42	50.25	50.39	50.40
4-Valve/6-Cylinder	22.97	21.72	21.93	23.28	23.89	24.12	23.93	24.10	24.06	23.99	24.12	24.07	24.07
4-Valve/8-Cylinder	8.83	8.07	8.23	9.12	9.54	9.55	9.40	9.42	9.39	9.33	9.38	9.35	9.35
5-Valve/6-Cylinder	2.19	2.15	2.15	2.22	2.24	2.25	2.24	2.24	2.24	2.24	2.24	2.24	2.24
VVT-4 Cylinder	17.33	32.74	33.06	34.83	38.20	39.60	40.18	41.52	42.76	42.90	42.73	42.77	42.69
VVT-6 Cylinder	3.47	4.29	4.43	4.83	5.22	5.57	5.64	5.89	6.17	6.24	6.38	6.49	6.51
VVT-8 Cylinder	0.64	1.31	1.41	1.75	2.09	2.45	2.43	2.62	2.85	2.81	2.88	2.93	2.88
VVL-4 Cylinder	6.54	7.49	7.72	8.43	9.34	9.68	9.83	10.03	10.14	10.20	10.30	10.34	10.34
VVL-6 Cylinder	0.54	1.18	1.51	2.13	2.69	3.06	3.18	3.46	3.62	3.70	3.84	3.92	3.92
VVL-8 Cylinder	1.27	1.48	1.64	2.04	2.21	2.29	2.23	2.22	2.18	2.13	2.10	2.05	1.97
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.25	0.42	0.64	0.88
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.51	0.68	0.85
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.51	0.68	0.85
Cylinder Deactivation	0.00	0.00	0.02	0.12	0.31	0.58	0.81	1.14	1.40	1.52	1.67	1.80	1.95
Turbocharging/Supercharging	0.13	0.50	0.73	1.06	1.35	1.57	1.71	1.92	2.04	2.13	2.23	2.31	2.32
Engine Friction Reduction I	69.04	59.88	59.81	58.12	55.74	50.19	49.97	47.23	44.23	43.50	42.38	41.24	40.03
Engine Friction Reduction II	22.38	39.59	39.68	41.75	44.26	49.81	49.98	52.49	54.84	54.78	54.86	54.87	54.87
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.27	0.93	1.72	2.76	3.89	5.10
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	0.02	0.13	0.30	0.55	0.90	1.20	1.54	2.02	2.43
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.02	0.12	0.26	0.47	0.75	1.01	1.29	1.64	1.95
Lean Burn GDI	0.00	0.00	0.00	0.00	0.03	0.16	0.37	0.70	1.19	1.55	1.95	2.35	2.76
5W-30 Engine Oil	40.36	57.62	57.65	58.10	58.16	58.06	57.89	57.57	55.82	55.65	55.63	55.58	55.49
5W-20 Engine Oil	0.00	1.15	1.40	2.27	6.51	15.03	17.27	22.66	28.50	29.51	30.42	31.15	32.01
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	0.02	0.11	0.26	0.49	0.73	1.04	1.38	1.62	1.90	2.19	2.42
Improved Alternator	0.00	0.00	0.00	0.03	0.16	0.42	0.69	1.13	1.66	1.99	2.38	2.76	3.15
Improved Oil/Water Pump	0.68	8.33	8.34	8.70	15.02	24.06	24.64	29.76	34.74	35.03	35.60	36.01	36.01
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.31	0.57	0.88	1.23	1.59	1.96
Tires II	58.06	80.20	80.23	80.81	80.93	81.51	81.25	80.43	77.79	76.77	75.90	74.78	74.06
Tires III	0.00	0.00	0.00	0.06	0.40	1.87	3.71	7.31	12.71	14.89	17.06	19.13	20.44
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	82.69	82.50	82.54	82.67	82.71	82.72	82.69	82.69	82.68	82.67	82.67	82.68	82.68

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Four Wheel Drive Improvements	0.15	0.83	0.86	0.92	1.24	1.70	1.75	1.99	2.18	2.18	2.18	2.18	2.18
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.36	0.55	0.75	0.94	1.13	1.32
42V-Engine Off at Idle	0.00	0.00	0.00	0.02	0.10	0.22	0.36	0.55	0.75	0.94	1.13	1.32	1.52
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00
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
<b>Light Truck</b>													
Unit Body Construction	20.99	27.46	27.47	26.40	26.30	36.14	36.23	36.14	36.24	36.32	36.25	36.32	36.33
Material Substitution II	36.14	48.08	48.08	48.46	49.49	70.94	70.98	71.01	70.99	70.94	70.88	70.79	70.71
Material Substitution III	0.06	0.63	0.85	1.36	2.86	14.20	14.18	14.18	14.20	14.20	14.20	14.22	14.22
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.23	0.42	0.71
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	48.42	62.47	62.92	63.46	63.34	40.08	38.98	35.80	28.12	24.58	21.59	19.19	17.32
Drag Reduction III	4.42	15.73	16.44	18.58	29.44	57.76	57.75	57.86	60.66	61.25	61.15	61.12	61.28
Drag Reduction IV	0.00	0.00	0.00	0.00	0.09	2.16	3.27	6.33	11.22	14.17	17.26	19.69	21.36
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	0.03
Roll-Over Technology	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.00	0.00	0.00	0.19	1.56	13.05	17.95	25.98	33.65	39.56	46.06	52.32	57.95
Early Torque Converter Lockup	0.00	0.00	0.00	0.00	0.20	5.05	8.44	14.83	22.04	26.76	31.47	36.67	42.14
Aggressive Shift Logic	0.00	0.00	0.00	0.00	0.07	1.20	1.75	3.31	5.84	7.32	8.80	10.20	11.70
4-Speed Automatic	83.36	83.81	83.77	83.14	82.67	80.06	80.19	80.11	80.02	79.88	79.45	78.86	78.23
5-Speed Automatic	6.36	6.82	6.87	7.11	7.72	11.01	10.89	10.87	10.86	10.85	10.86	10.86	10.86
6-Speed Automatic	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.22	0.39	0.64	0.90	1.17
6-Speed Manual	0.40	1.25	1.27	1.49	2.25	5.41	5.38	5.39	5.37	5.36	5.37	5.36	5.36
CVT	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.06	0.11	0.17	0.24	0.31
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.26	0.78	1.56
Roller Cam	83.54	87.72	89.19	91.15	93.83	98.09	98.75	99.66	99.71	99.71	99.71	99.71	99.71
OHC/AdvOHV-4 Cylinder	2.88	2.22	2.18	2.08	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OHC/AdvOHV-6 Cylinder	41.74	41.49	41.52	40.91	39.89	31.24	31.35	31.34	31.38	31.40	31.37	31.40	31.41
OHC/AdvOHV-8 Cylinder	25.18	24.65	24.57	24.52	24.37	21.29	21.24	21.23	21.23	21.23	21.23	21.23	21.23
4-Valve/4-Cylinder	6.84	6.87	6.94	7.48	7.65	9.57	9.54	9.57	9.54	9.50	9.53	9.50	9.50
4-Valve/6-Cylinder	8.53	10.57	10.62	11.25	12.43	24.29	24.37	24.37	24.39	24.41	24.39	24.40	24.40
4-Valve/8-Cylinder	3.90	4.90	4.93	5.40	6.02	13.30	13.18	13.17	13.16	13.15	13.16	13.15	13.15
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	3.01	6.80	6.82	7.55	8.70	9.57	9.54	9.57	9.54	9.50	9.53	9.50	9.48
VVT-6 Cylinder	0.62	2.26	2.29	2.67	4.03	13.21	13.22	13.22	13.22	13.22	13.22	13.20	13.19
VVT-8 Cylinder	0.38	1.27	1.30	1.61	2.76	9.84	9.77	9.76	9.75	9.74	9.72	9.68	9.65
VVL-4 Cylinder	0.03	0.31	0.45	0.89	1.45	5.04	5.01	5.00	4.95	4.88	4.76	4.62	4.45
VVL-6 Cylinder	0.39	1.26	1.39	1.80	2.45	6.33	6.33	6.33	6.33	6.32	6.30	6.26	6.21
VVL-8 Cylinder	0.00	0.00	0.00	0.00	0.02	0.23	0.32	0.52	0.76	0.95	1.13	1.30	1.47
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	0.01
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.20
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.14	0.25
Cylinder Deactivation	0.00	0.00	0.02	0.08	0.23	1.08	1.15	1.51	1.99	2.20	2.48	2.73	3.01
Turbocharging/Supercharging	0.18	0.51	0.59	0.79	0.98	1.93	1.93	1.93	1.95	2.00	2.03	2.06	2.08
Engine Friction Reduction I	65.63	76.05	75.71	75.15	68.13	40.20	40.21	39.19	35.12	33.75	32.89	31.17	28.77
Engine Friction Reduction II	4.95	16.97	17.97	20.90	31.87	59.80	59.79	60.81	64.79	65.94	66.16	66.71	67.14
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.31	0.95	2.12	4.09
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	0.02	0.07	0.18	0.33	0.55	0.80	1.08
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.22	0.40	0.68
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.28	0.54	0.92
5W-30 Engine Oil	48.60	62.44	62.25	62.17	62.97	65.62	65.62	63.01	57.22	55.03	51.84	48.80	45.60
5W-20 Engine Oil	0.00	0.95	1.86	3.67	11.24	34.38	34.38	36.99	42.78	44.97	48.16	51.20	54.40
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	0.01	0.07	0.37	0.47	0.68	0.92	1.09	1.29	1.48	1.66

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Improved Alternator	0.00	0.00	0.00	0.03	0.14	1.17	1.41	1.98	2.79	3.21	3.71	4.19	4.65
Improved Oil/Water Pump	4.42	15.59	16.37	18.59	29.53	57.55	57.53	57.92	61.13	61.84	61.94	62.25	62.58
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.28	0.52	0.88	1.30	1.75
Tires II	58.06	75.80	75.80	75.89	82.88	91.13	88.13	82.48	75.72	72.81	69.18	65.40	61.80
Tires III	0.00	0.00	0.00	0.09	0.54	8.87	11.87	17.52	24.28	27.19	30.82	34.60	38.20
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	15.24	17.46	17.48	15.80	15.13	15.17	15.78	15.79	15.91	16.05	15.94	16.03	16.04
Four Wheel Drive Improvements	0.49	1.75	1.79	2.08	3.27	12.44	12.35	12.34	12.33	12.31	12.32	12.31	12.31
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.02	0.08	0.34	0.50	0.71	0.92	1.11	1.31	1.51
42V-Engine Off at Idle	0.00	0.00	0.00	0.02	0.08	0.34	0.50	0.71	0.92	1.11	1.31	1.51	1.69
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00
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	57.52	61.98	62.12	60.82	60.07	64.49	64.30	63.91	63.71	63.55	63.22	63.00	62.73
Material Substitution II	43.64	60.51	60.56	60.43	60.67	71.41	71.46	71.44	71.38	71.35	71.29	71.24	71.17
Material Substitution III	0.19	2.00	2.12	2.42	3.86	11.03	11.16	11.82	12.69	12.70	12.81	12.95	12.97
Material Substitution IV	0.00	0.00	0.00	0.00	0.01	0.07	0.15	0.28	0.47	0.67	0.90	1.18	1.51
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	0.01
Drag Reduction II	52.15	68.13	68.38	68.60	66.27	49.92	48.63	43.53	35.76	33.59	31.46	29.67	28.23
Drag Reduction III	2.63	12.18	12.51	13.78	22.34	41.33	41.76	44.38	48.30	48.84	49.16	49.44	49.65
Drag Reduction IV	0.04	0.92	0.93	1.19	2.68	6.32	7.42	10.66	15.00	16.57	18.29	19.66	20.69
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.26	0.49	0.81
Roll-Over Technology	0.00	0.00	0.00	12.66	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	12.66	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	6.73	12.92	13.43	14.82	19.95	29.24	32.62	38.88	45.15	49.02	53.78	58.26	61.65
Early Torque Converter Lockup	0.09	2.66	2.83	3.70	8.54	15.63	18.57	24.59	31.46	34.56	37.95	41.53	45.41
Aggressive Shift Logic	1.66	4.73	4.75	4.83	5.30	6.60	6.98	8.25	10.19	10.94	11.80	12.64	13.44
4-Speed Automatic	77.38	76.38	76.33	76.66	76.42	74.80	74.33	73.34	72.17	71.69	71.09	70.07	69.68
5-Speed Automatic	7.19	7.39	7.44	7.71	8.12	9.90	9.86	9.92	9.99	10.01	10.08	10.13	10.15
6-Speed Automatic	0.00	0.00	0.01	0.05	0.13	0.23	0.32	0.47	0.66	0.85	1.08	1.31	1.52
6-Speed Manual	0.79	1.87	1.90	2.04	2.56	4.43	4.46	4.59	4.73	4.75	4.79	4.82	4.83
CVT	0.08	0.33	0.36	0.45	0.65	0.88	0.97	1.15	1.33	1.39	1.48	1.62	1.68
Automated Manual Trans	0.00	0.00	0.00	0.00	0.02	0.11	0.41	1.25	2.44	3.19	4.22	5.05	5.45
Roller Cam	89.93	93.76	94.53	95.47	96.77	98.91	99.26	99.75	99.79	99.79	99.79	99.79	99.79
OHC/AdvOHV-4 Cylinder	3.19	1.78	1.76	1.64	1.56	0.58	0.59	0.58	0.58	0.58	0.57	0.57	0.56
OHC/AdvOHV-6 Cylinder	23.18	22.76	22.61	22.44	22.08	17.86	18.02	18.11	18.23	18.33	18.43	18.57	18.71
OHC/AdvOHV-8 Cylinder	14.02	13.49	13.40	13.67	13.82	12.43	12.46	12.56	12.63	12.69	12.79	12.86	12.95
4-Valve/4-Cylinder	27.15	30.15	30.23	29.02	28.45	29.06	29.12	28.86	28.74	28.66	28.40	28.27	28.06
4-Valve/6-Cylinder	15.86	16.26	16.42	17.34	18.13	24.21	24.16	24.24	24.23	24.21	24.27	24.25	24.25
4-Valve/8-Cylinder	6.40	6.52	6.63	7.28	7.77	11.47	11.36	11.38	11.38	11.36	11.41	11.41	11.42
5-Valve/6-Cylinder	1.11	1.10	1.10	1.12	1.12	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01
VVT-4 Cylinder	10.28	20.03	20.27	21.37	23.37	24.23	24.32	24.81	25.22	25.14	24.91	24.77	24.56
VVT-6 Cylinder	2.07	3.30	3.38	3.76	4.62	9.48	9.56	9.73	9.89	9.95	10.05	10.12	10.15
VVT-8 Cylinder	0.51	1.29	1.36	1.68	2.43	6.23	6.22	6.35	6.50	6.50	6.55	6.59	6.57
VVL-4 Cylinder	3.34	3.97	4.17	4.71	5.37	7.31	7.33	7.40	7.40	7.37	7.33	7.24	7.12
VVL-6 Cylinder	0.46	1.22	1.45	1.97	2.57	4.73	4.81	4.96	5.05	5.09	5.16	5.19	5.17
VVL-8 Cylinder	0.65	0.76	0.84	1.03	1.11	1.23	1.24	1.33	1.43	1.50	1.58	1.64	1.70
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.11	0.19	0.29	0.41
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.12	0.19	0.31	0.45	0.62
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.10	0.17	0.25	0.35	0.47	0.62
Cylinder Deactivation	0.00	0.00	0.02	0.10	0.27	0.83	0.99	1.33	1.71	1.88	2.10	2.31	2.53
Turbocharging/Supercharging	0.15	0.51	0.66	0.93	1.16	1.75	1.83	1.93	1.99	2.06	2.12	2.17	2.19
Engine Friction Reduction I	67.36	67.80	67.56	66.52	61.97	45.08	44.92	43.03	39.42	38.31	37.29	35.79	33.88
Engine Friction Reduction II	13.80	28.51	29.10	31.46	38.03	54.92	55.06	56.84	60.10	60.72	60.92	61.28	61.57
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.49	0.97	1.79	2.93	4.55
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

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.01	0.06	0.15	0.30	0.52	0.74	1.01	1.36	1.69
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.22	0.37	0.52	0.71	0.97	1.26
Lean Burn GDI	0.00	0.00	0.00	0.00	0.02	0.08	0.18	0.33	0.58	0.79	1.05	1.37	1.76
5W-30 Engine Oil	44.41	59.98	59.89	60.11	60.58	61.93	61.89	60.42	56.56	55.32	53.60	51.91	50.09
5W-20 Engine Oil	0.00	1.05	1.62	2.96	8.89	24.94	26.12	30.15	36.04	37.73	39.94	42.00	44.24
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	0.01	0.06	0.16	0.43	0.60	0.85	1.13	1.34	1.57	1.81	2.00
Improved Alternator	0.00	0.00	0.00	0.03	0.15	0.80	1.06	1.57	2.26	2.64	3.09	3.54	3.97
Improved Oil/Water Pump	2.52	11.89	12.25	13.58	22.32	41.20	41.66	44.49	48.68	49.29	49.73	50.21	50.52
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.21	0.42	0.69	1.04	1.43	1.85
Tires II	58.06	78.04	78.07	78.38	81.91	86.43	84.81	81.51	76.70	74.66	72.29	69.70	67.36
Tires III	0.00	0.00	0.00	0.07	0.47	5.45	7.93	12.65	18.82	21.43	24.44	27.50	30.14
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	49.50	50.64	50.83	49.67	48.74	48.14	48.06	47.69	47.43	47.24	46.87	46.61	46.29
Four Wheel Drive Improvements	0.32	1.28	1.31	1.49	2.26	7.20	7.23	7.41	7.54	7.57	7.62	7.66	7.71
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.02	0.09	0.28	0.43	0.63	0.84	1.03	1.23	1.43
42V-Engine Off at Idle	0.00	0.00	0.00	0.02	0.09	0.28	0.43	0.63	0.84	1.03	1.23	1.42	1.61
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00
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)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Car												
Unit Body Construction	94.49	94.51	94.52	94.51	94.51	94.52	94.50	94.51	94.53	94.48	94.53	0.0%
Material Substitution II	71.68	71.59	71.43	71.27	71.13	70.98	70.84	70.70	70.56	70.45	70.37	-0.1%
Material Substitution III	11.59	11.70	11.70	11.70	11.70	11.70	11.70	11.72	11.78	11.79	11.82	6.0%
Material Substitution IV	2.89	3.26	3.63	3.93	4.24	4.45	4.65	4.83	4.91	4.96	5.01	N/A
Material Substitution V	0.11	0.25	0.44	0.70	0.97	1.27	1.57	1.89	2.22	2.50	2.79	N/A
Drag Reduction II	40.59	39.73	38.93	38.10	37.25	36.37	35.50	34.60	33.57	33.02	32.55	-3.6%
Drag Reduction III	35.73	35.83	35.82	35.82	35.80	35.78	35.80	35.83	35.93	35.99	36.00	6.6%
Drag Reduction IV	19.99	20.12	20.25	20.26	20.26	20.33	20.38	20.41	20.49	20.52	20.54	11.7%
Drag Reduction V	2.52	3.36	4.27	5.24	6.27	7.31	8.32	9.16	10.01	10.48	10.92	N/A
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	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	N/A
Advanced Low Loss Torque Converter	67.52	68.61	68.61	68.63	68.62	68.69	68.78	68.85	68.98	69.03	69.03	4.7%
Early Torque Converter Lockup	50.00	50.99	51.89	51.95	51.95	52.32	52.53	52.66	52.87	52.95	53.00	11.1%
Aggressive Shift Logic	15.66	15.78	15.78	15.78	15.78	15.79	15.82	15.84	15.89	15.91	15.92	2.5%
4-Speed Automatic	59.02	58.72	58.59	58.58	58.39	58.25	58.25	58.19	58.11	58.20	58.08	-0.8%
5-Speed Automatic	9.36	9.39	9.36	9.37	9.36	9.36	9.37	9.37	9.37	9.38	9.37	0.8%
6-Speed Automatic	2.11	2.21	2.29	2.33	2.50	2.58	2.60	2.60	2.61	2.62	2.61	N/A
6-Speed Manual	4.23	4.26	4.26	4.25	4.25	4.26	4.26	4.26	4.27	4.26	4.27	2.5%
CVT	3.40	3.46	3.47	3.48	3.49	3.52	3.54	3.56	3.59	3.61	3.63	8.2%
Automated Manual Trans	10.20	10.28	10.34	10.32	10.33	10.34	10.32	10.34	10.35	10.30	10.35	N/A
Roller Cam	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	0.0%
OHC/AdvOHV-4 Cylinder	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.25	1.24	1.25	-0.4%
OHC/AdvOHV-6 Cylinder	3.42	3.41	3.41	3.42	3.41	3.41	3.42	3.41	3.41	3.43	3.41	-1.5%
OHC/AdvOHV-8 Cylinder	2.99	2.98	2.98	2.98	2.98	2.97	2.98	2.98	2.97	2.99	2.97	0.3%
4-Valve/4-Cylinder	50.43	50.48	50.49	50.44	50.47	50.50	50.45	50.48	50.53	50.39	50.53	-0.2%
4-Valve/6-Cylinder	24.06	24.04	24.04	24.05	24.05	24.04	24.05	24.04	24.02	24.07	24.03	0.5%
4-Valve/8-Cylinder	9.34	9.33	9.32	9.33	9.33	9.32	9.33	9.33	9.31	9.35	9.32	0.7%
5-Valve/6-Cylinder	2.23	2.23	2.23	2.24	2.24	2.23	2.23	2.23	2.23	2.24	2.23	0.2%
VVT-4 Cylinder	42.64	42.58	42.50	42.36	42.28	42.20	42.05	41.97	41.95	41.70	41.75	1.1%
VVT-6 Cylinder	6.56	6.62	6.62	6.62	6.62	6.62	6.63	6.63	6.64	6.64	6.64	2.0%
VVT-8 Cylinder	2.87	2.87	2.86	2.86	2.86	2.86	2.87	2.87	2.88	2.89	2.89	3.7%
VVL-4 Cylinder	10.37	10.40	10.40	10.40	10.40	10.40	10.39	10.40	10.41	10.29	10.24	1.4%
VVL-6 Cylinder	3.95	3.97	3.95	3.94	3.93	3.93	3.92	3.92	3.92	3.92	3.92	5.6%
VVL-8 Cylinder	1.91	1.88	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.1%
Camless Valve Actuation-4cyl	1.13	1.45	1.74	2.04	2.29	2.56	2.75	2.95	3.06	3.36	3.49	N/A
Camless Valve Actuation-6cyl	1.42	1.69	1.97	2.20	2.43	2.64	2.83	2.92	3.17	3.27	3.30	N/A
Camless Valve Actuation-8cyl	1.23	1.39	1.50	1.61	1.72	1.83	1.88	1.98	2.04	2.05	2.05	N/A
Cylinder Deactivation	2.10	2.26	2.42	2.49	2.57	2.65	2.67	2.67	2.68	2.69	2.68	N/A
Turbocharging/Supercharging	2.36	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.39	2.38	2.39	7.3%
Engine Friction Reduction I	38.72	37.32	35.68	34.04	32.31	30.37	29.02	27.78	26.33	24.92	23.80	-4.1%
Engine Friction Reduction II	54.85	54.83	54.79	54.78	54.75	54.71	54.70	54.67	54.65	54.67	54.60	1.5%
Engine Friction Reduction III	6.43	7.82	9.35	10.69	12.01	13.36	13.97	14.42	14.99	15.42	15.59	N/A
Engine Friction Reduction IV	0.00	0.03	0.18	0.49	0.94	1.57	2.30	3.12	4.03	4.99	6.01	N/A
Stoichiometric GDI/4-Cylinder	2.87	3.23	3.60	3.89	4.18	4.41	5.05	5.34	5.49	5.56	5.64	N/A
Stoichiometric GDI/6-Cylinder	2.28	2.55	2.82	3.04	3.27	3.41	3.75	3.90	3.96	3.99	4.01	N/A
Lean Burn GDI	3.19	3.55	3.91	4.19	4.47	4.66	4.87	5.01	5.06	5.07	5.09	N/A
5W-30 Engine Oil	54.93	54.67	54.38	54.13	54.10	53.95	53.89	53.84	53.77	53.78	53.76	-0.3%
5W-20 Engine Oil	33.41	34.09	34.93	35.74	35.87	36.38	36.65	36.81	37.04	37.14	37.18	17.1%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	2.66	2.85	3.04	3.14	3.24	3.36	3.39	3.41	3.43	3.45	3.46	N/A
Improved Alternator	3.49	3.83	4.10	4.37	4.50	4.68	4.82	4.85	4.87	4.88	4.88	N/A
Improved Oil/Water Pump	36.11	36.23	36.22	36.24	36.23	36.22	36.25	36.29	36.40	36.46	36.46	6.9%
Electric Oil/Water Pump	2.36	2.77	3.13	3.50	3.80	4.14	4.33	4.52	4.69	4.76	4.80	N/A
Tires II	72.87	71.23	69.56	67.56	65.87	63.48	61.16	59.22	57.20	55.25	53.17	-1.9%
Tires III	22.27	24.47	26.56	27.94	28.75	30.35	31.71	32.31	32.78	32.96	33.07	N/A
Tires IV	0.05	0.24	0.70	1.43	2.51	3.93	5.59	7.45	9.53	11.75	13.76	N/A
Front Wheel Drive	82.68	82.67	82.67	82.67	82.67	82.67	82.67	82.67	82.67	82.68	82.67	0.0%

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Four Wheel Drive Improvements	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	4.5%
42V-Launch Assist and Regen	1.52	1.68	1.84	1.96	2.08	2.13	2.20	2.25	2.26	2.26	2.27	N/A
42V-Engine Off at Idle	1.68	1.84	1.96	2.08	2.13	2.20	2.25	2.26	2.26	2.27	2.27	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	N/A
Increased Size/Weight	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	9.0%
Variable Compression Ratio	0.02	0.10	0.22	0.37	0.56	0.75	0.95	1.18	1.40	1.61	1.78	N/A
<b>Light Truck</b>												
Unit Body Construction	36.32	36.33	36.32	36.29	36.29	36.31	36.30	36.32	36.34	36.29	36.34	1.3%
Material Substitution II	70.63	70.54	70.44	70.31	70.15	70.00	69.86	69.73	69.48	69.30	69.10	1.7%
Material Substitution III	14.23	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	15.2%
Material Substitution IV	1.03	1.37	1.72	2.09	2.48	2.87	3.24	3.59	3.95	4.13	4.32	N/A
Material Substitution V	0.00	0.00	0.00	0.02	0.06	0.13	0.24	0.40	0.57	0.75	0.93	N/A
Drag Reduction II	15.16	13.56	11.99	10.41	9.47	8.34	7.29	6.57	5.89	5.32	4.71	-11.1%
Drag Reduction III	61.13	60.59	59.76	58.68	57.72	56.10	54.70	53.83	53.02	52.38	51.71	5.6%
Drag Reduction IV	23.59	25.50	27.52	29.56	30.67	32.43	33.80	34.18	34.41	34.41	34.41	N/A
Drag Reduction V	0.12	0.35	0.73	1.35	2.14	3.12	4.21	5.42	6.68	7.89	9.17	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	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	N/A
Advanced Low Loss Torque Converter	63.59	68.89	74.33	76.57	79.21	81.52	81.70	81.72	81.79	81.78	81.78	N/A
Early Torque Converter Lockup	47.12	52.14	56.62	61.13	62.98	65.78	67.78	68.06	68.19	68.18	68.18	N/A
Aggressive Shift Logic	13.24	14.83	16.05	17.34	17.81	18.59	19.18	19.38	19.51	19.51	19.51	N/A
4-Speed Automatic	77.05	75.87	74.93	73.99	73.00	71.96	71.32	71.18	70.68	70.43	70.45	-0.8%
5-Speed Automatic	10.85	10.85	10.85	10.85	10.84	10.84	10.85	10.85	10.85	10.85	10.84	2.1%
6-Speed Automatic	1.52	1.83	2.14	2.42	2.70	2.98	3.25	3.37	3.77	3.92	3.94	N/A
6-Speed Manual	5.36	5.35	5.35	5.36	5.36	5.36	5.36	5.35	5.35	5.36	5.35	6.8%
CVT	0.40	0.49	0.58	0.65	0.73	0.80	0.87	0.91	1.02	1.06	1.08	N/A
Automated Manual Trans	2.45	3.32	3.93	4.58	5.23	5.92	6.22	6.21	6.20	6.24	6.20	N/A
Roller Cam	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	0.6%
OHC/AdvOHV-4 Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-55.6%
OHC/AdvOHV-6 Cylinder	31.41	31.41	31.40	31.39	31.38	31.39	31.39	31.40	31.41	31.39	31.41	-1.3%
OHC/AdvOHV-8 Cylinder	21.23	21.23	21.24	21.24	21.25	21.25	21.24	21.24	21.24	21.23	21.24	-0.7%
4-Valve/4-Cylinder	9.50	9.49	9.49	9.50	9.50	9.49	9.50	9.49	9.48	9.51	9.48	1.5%
4-Valve/6-Cylinder	24.41	24.41	24.41	24.41	24.41	24.41	24.40	24.41	24.41	24.40	24.41	3.9%
4-Valve/8-Cylinder	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	4.6%
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	N/A
VVT-4 Cylinder	9.44	9.36	9.25	9.10	8.92	8.72	8.47	8.22	7.97	7.77	7.52	0.5%
VVT-6 Cylinder	13.16	13.12	13.07	13.03	12.96	12.90	12.84	12.79	12.73	12.68	12.63	8.1%
VVT-8 Cylinder	9.63	9.61	9.60	9.58	9.56	9.49	9.42	9.33	9.25	9.17	9.13	9.4%
VVL-4 Cylinder	4.21	3.97	3.69	3.37	3.08	3.08	3.08	3.03	2.88	2.82	2.77	10.4%
VVL-6 Cylinder	6.14	6.05	5.94	5.83	5.71	5.59	5.54	5.54	5.54	5.54	5.54	6.9%
VVL-8 Cylinder	1.67	1.88	2.08	2.28	2.37	2.49	2.58	2.58	2.59	2.59	2.59	N/A
Camless Valve Actuation-4cyl	0.06	0.13	0.24	0.40	0.58	0.77	1.03	1.27	1.51	1.74	1.96	N/A
Camless Valve Actuation-6cyl	0.36	0.60	0.86	1.13	1.47	1.80	2.14	2.44	2.76	3.04	3.32	N/A
Camless Valve Actuation-8cyl	0.39	0.54	0.70	0.90	1.08	1.26	1.45	1.64	1.83	2.02	2.11	N/A
Cylinder Deactivation	3.30	3.61	3.74	3.88	3.99	4.05	4.05	4.05	4.05	4.06	4.05	N/A
Turbocharging/Supercharging	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	6.6%
Engine Friction Reduction I	26.33	23.37	19.97	16.57	13.69	10.94	8.61	7.23	5.59	4.28	2.84	-13.9%
Engine Friction Reduction II	66.93	66.85	66.68	65.95	64.83	63.75	62.09	59.14	55.93	53.56	51.22	5.1%
Engine Friction Reduction III	6.74	9.73	13.16	16.93	20.31	23.05	25.60	28.20	31.06	32.60	34.20	N/A
Engine Friction Reduction IV	0.00	0.05	0.19	0.55	1.17	2.26	3.71	5.43	7.42	9.56	11.74	N/A
Stoichiometric GDI/4-Cylinder	1.48	1.86	2.25	2.62	2.93	2.93	2.88	2.80	2.90	2.86	2.76	N/A
Stoichiometric GDI/6-Cylinder	0.98	1.30	1.73	2.13	2.54	2.93	3.27	3.52	3.79	3.90	4.31	N/A
Lean Burn GDI	1.35	1.80	2.32	2.84	3.37	3.91	4.37	4.74	5.11	5.27	5.54	N/A
5W-30 Engine Oil	44.50	43.04	41.97	41.97	41.97	41.95	41.95	41.94	41.92	41.92	41.92	-1.8%
5W-20 Engine Oil	55.50	56.96	58.03	58.03	58.03	58.05	58.05	58.06	58.08	58.08	58.08	20.5%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	1.84	1.99	2.14	2.22	2.30	2.39	2.42	2.44	2.45	2.46	2.47	N/A

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Improved Alternator	5.13	5.58	6.05	6.27	6.49	6.76	6.81	6.82	6.83	6.83	6.83	N/A
Improved Oil/Water Pump	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	6.5%
Electric Oil/Water Pump	2.24	2.76	3.31	3.85	4.40	4.99	5.57	5.92	6.29	6.58	6.70	N/A
Tires II	57.83	53.97	49.67	47.02	43.38	38.86	35.50	31.85	27.63	24.16	21.80	-5.5%
Tires III	42.10	45.79	49.56	51.19	53.05	54.94	55.10	55.12	55.16	54.94	54.79	N/A
Tires IV	0.07	0.25	0.77	1.78	3.57	6.20	9.40	13.04	17.20	20.90	23.42	N/A
Front Wheel Drive	16.05	16.07	16.07	16.03	16.04	16.06	16.04	16.07	16.10	16.02	16.11	-0.4%
Four Wheel Drive Improvements	12.31	12.31	12.31	12.31	12.31	12.31	12.31	12.31	12.30	12.31	12.30	9.3%
42V-Launch Assist and Regen	1.69	1.87	2.03	2.18	2.25	2.33	2.40	2.41	2.42	2.42	2.42	N/A
42V-Engine Off at Idle	1.87	2.03	2.18	2.25	2.33	2.40	2.41	2.42	2.42	2.42	2.43	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	N/A
Increased Size/Weight	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	9.0%
Variable Compression Ratio	0.01	0.06	0.14	0.24	0.38	0.53	0.68	0.86	1.02	1.19	1.32	N/A
<b>Light-Duty Vehicle Total</b>												
Unit Body Construction	62.48	62.28	62.09	61.89	61.72	61.55	61.32	61.12	60.91	60.59	60.40	-0.1%
Material Substitution II	71.11	71.01	70.88	70.73	70.57	70.43	70.28	70.14	69.93	69.78	69.62	0.6%
Material Substitution III	13.04	13.11	13.12	13.12	13.13	13.13	13.14	13.15	13.17	13.20	13.22	9.0%
Material Substitution IV	1.87	2.21	2.57	2.90	3.25	3.55	3.85	4.12	4.36	4.48	4.61	N/A
Material Substitution V	0.05	0.11	0.20	0.31	0.46	0.62	0.81	1.03	1.27	1.48	1.70	N/A
Drag Reduction II	26.59	25.23	23.92	22.59	21.60	20.50	19.42	18.51	17.58	16.88	16.22	-6.3%
Drag Reduction III	49.71	49.55	49.16	48.63	48.15	47.29	46.57	46.16	45.80	45.53	45.21	6.1%
Drag Reduction IV	21.97	23.10	24.30	25.47	26.12	27.19	28.03	28.31	28.53	28.61	28.68	16.9%
Drag Reduction V	1.20	1.69	2.30	3.06	3.94	4.94	5.98	7.01	8.09	8.97	9.89	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	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	N/A
Advanced Low Loss Torque Converter	65.36	68.76	71.79	73.08	74.59	75.96	76.15	76.23	76.38	76.46	76.51	8.4%
Early Torque Converter Lockup	48.41	51.63	54.53	57.09	58.16	59.94	61.23	61.50	61.72	61.82	61.90	15.4%
Aggressive Shift Logic	14.33	15.26	15.93	16.66	16.93	17.38	17.74	17.87	17.98	18.01	18.03	6.3%
4-Speed Automatic	68.94	68.22	67.70	67.21	66.62	66.02	65.70	65.64	65.38	65.32	65.34	-0.7%
5-Speed Automatic	10.18	10.20	10.19	10.20	10.20	10.20	10.21	10.22	10.22	10.24	10.23	1.5%
6-Speed Automatic	1.79	2.00	2.21	2.38	2.62	2.81	2.97	3.05	3.28	3.38	3.39	N/A
6-Speed Manual	4.85	4.86	4.87	4.87	4.88	4.88	4.88	4.89	4.89	4.90	4.90	4.5%
CVT	1.75	1.81	1.86	1.89	1.93	1.98	2.02	2.04	2.11	2.12	2.14	8.9%
Automated Manual Trans	5.94	6.42	6.77	7.11	7.46	7.84	7.98	7.97	7.95	7.93	7.92	N/A
Roller Cam	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.78	99.78	99.78	99.78	0.3%
OHC/AdvOHV-4 Cylinder	0.56	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.53	0.52	0.52	-5.5%
OHC/AdvOHV-6 Cylinder	18.82	18.92	19.00	19.09	19.17	19.26	19.37	19.47	19.59	19.72	19.83	-0.6%
OHC/AdvOHV-8 Cylinder	13.03	13.09	13.15	13.21	13.27	13.32	13.39	13.46	13.52	13.62	13.68	0.1%
4-Valve/4-Cylinder	27.90	27.77	27.65	27.50	27.39	27.28	27.10	26.96	26.82	26.58	26.45	-0.6%
4-Valve/6-Cylinder	24.25	24.24	24.24	24.25	24.25	24.25	24.25	24.25	24.25	24.26	24.25	1.8%
4-Valve/8-Cylinder	11.44	11.44	11.45	11.47	11.48	11.49	11.51	11.52	11.53	11.56	11.56	2.6%
5-Valve/6-Cylinder	1.00	1.00	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.92	-0.8%
VVT-4 Cylinder	24.37	24.18	23.97	23.72	23.49	23.24	22.90	22.60	22.32	21.94	21.67	0.4%
VVT-6 Cylinder	10.19	10.22	10.21	10.21	10.19	10.18	10.17	10.16	10.16	10.16	10.15	5.2%
VVT-8 Cylinder	6.59	6.61	6.61	6.62	6.63	6.62	6.60	6.58	6.56	6.55	6.55	7.7%
VVL-4 Cylinder	6.98	6.84	6.66	6.46	6.28	6.25	6.22	6.17	6.06	5.94	5.86	1.8%
VVL-6 Cylinder	5.15	5.12	5.06	5.00	4.93	4.87	4.84	4.85	4.85	4.86	4.87	6.5%
VVL-8 Cylinder	1.78	1.88	1.98	2.10	2.15	2.22	2.27	2.28	2.28	2.29	2.29	5.2%
Camless Valve Actuation-4cyl	0.54	0.72	0.91	1.12	1.33	1.55	1.77	1.98	2.16	2.41	2.59	N/A
Camless Valve Actuation-6cyl	0.84	1.09	1.35	1.60	1.89	2.16	2.43	2.65	2.93	3.14	3.31	N/A
Camless Valve Actuation-8cyl	0.77	0.92	1.06	1.21	1.35	1.51	1.64	1.79	1.92	2.03	2.09	N/A
Cylinder Deactivation	2.76	3.00	3.15	3.27	3.37	3.44	3.46	3.46	3.47	3.48	3.49	N/A
Turbocharging/Supercharging	2.21	2.22	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	6.9%
Engine Friction Reduction I	31.90	29.59	26.93	24.25	21.82	19.36	17.38	15.99	14.35	12.90	11.51	-7.7%
Engine Friction Reduction II	61.50	61.49	61.41	61.04	60.43	59.83	58.91	57.24	55.39	54.02	52.62	2.8%
Engine Friction Reduction III	6.60	8.88	11.47	14.19	16.68	18.84	20.60	22.33	24.27	25.43	26.51	N/A
Engine Friction Reduction IV	0.00	0.04	0.19	0.52	1.07	1.96	3.10	4.45	5.99	7.65	9.37	N/A



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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Stoichiometric GDI/4-Cylinder	2.11	2.47	2.85	3.18	3.48	3.57	3.81	3.88	3.99	3.99	3.95	N/A
Stoichiometric GDI/6-Cylinder	1.56	1.86	2.21	2.53	2.85	3.14	3.48	3.69	3.86	3.93	4.18	N/A
Lean Burn GDI	2.18	2.58	3.02	3.43	3.85	4.23	4.58	4.85	5.09	5.19	5.35	N/A
5W-30 Engine Oil	49.19	48.22	47.47	47.32	47.27	47.16	47.08	47.01	46.93	46.87	46.81	-1.1%
5W-20 Engine Oil	45.56	46.76	47.80	48.23	48.35	48.65	48.85	49.01	49.20	49.34	49.44	19.1%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	2.21	2.37	2.54	2.62	2.71	2.81	2.84	2.85	2.87	2.87	2.88	N/A
Improved Alternator	4.39	4.80	5.19	5.43	5.62	5.86	5.95	5.98	6.00	6.02	6.03	N/A
Improved Oil/Water Pump	50.68	50.83	50.91	51.00	51.07	51.15	51.26	51.38	51.52	51.67	51.78	6.9%
Electric Oil/Water Pump	2.29	2.76	3.23	3.69	4.14	4.62	5.04	5.33	5.62	5.82	5.92	N/A
Tires II	64.59	61.67	58.48	56.05	53.20	49.54	46.53	43.51	40.12	37.14	34.77	-3.6%
Tires III	33.19	36.28	39.37	40.97	42.44	44.28	45.05	45.40	45.71	45.76	45.81	N/A
Tires IV	0.06	0.24	0.74	1.63	3.11	5.22	7.76	10.66	13.96	17.08	19.43	N/A
Front Wheel Drive	46.01	45.77	45.56	45.33	45.14	44.95	44.68	44.45	44.21	43.85	43.63	-0.7%
Four Wheel Drive Improvements	7.75	7.79	7.82	7.86	7.89	7.92	7.96	7.99	8.03	8.08	8.12	8.7%
42V-Launch Assist and Regen	1.61	1.78	1.94	2.09	2.18	2.25	2.32	2.34	2.35	2.36	2.36	N/A
42V-Engine Off at Idle	1.78	1.94	2.09	2.18	2.25	2.32	2.34	2.35	2.36	2.36	2.36	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	N/A
Increased Size/Weight	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	9.0%
Variable Compression Ratio	0.02	0.08	0.17	0.30	0.46	0.62	0.80	1.00	1.18	1.36	1.51	N/A

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

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Gasoline</b>													
Mini-compact Cars	24.93	26.38	26.41	26.25	26.50	26.81	26.65	27.00	27.33	27.40	27.46	27.53	27.60
Subcompact Cars	30.97	32.45	32.44	32.22	32.06	32.02	31.71	31.92	32.24	32.31	32.41	32.49	32.54
Compact Cars	30.21	31.75	31.77	31.60	31.52	31.49	31.21	31.47	31.80	31.90	32.05	32.12	32.16
Midsize Cars	26.74	27.92	27.93	27.79	27.73	27.77	27.51	27.75	28.01	28.05	28.12	28.20	28.24
Large Cars	25.24	25.88	25.88	25.71	25.65	25.73	25.51	25.72	25.97	26.03	26.12	26.22	26.26
Two Seater Cars	25.06	25.81	25.81	25.66	25.66	25.81	25.62	25.89	26.17	26.25	26.35	26.46	26.55
Small Pickup	22.68	23.63	23.63	23.72	23.60	25.01	24.74	24.81	24.92	24.99	25.07	25.18	25.34
Large Pickup	19.08	19.60	19.62	19.66	19.52	20.30	20.12	20.21	20.38	20.46	20.55	20.65	20.73
Small Van	23.49	24.34	24.33	24.30	24.11	25.30	25.02	25.07	25.16	25.20	25.25	25.31	25.38
Large Van	18.24	18.73	18.77	18.82	18.81	19.69	19.50	19.60	19.78	19.86	19.94	20.01	20.11
Small Utility	21.62	22.56	22.56	22.58	22.49	23.97	23.73	23.82	23.97	24.04	24.13	24.23	24.33
Large Utility	17.68	18.05	18.08	18.13	18.12	18.99	18.82	18.94	19.12	19.20	19.30	19.38	19.49
<b>Turbo Direct Injection Diesel</b>													
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	42.91	42.77	42.64	42.55	42.46
Compact Cars	40.57	42.46	42.45	42.12	41.68	41.34	40.87	40.95	41.12	41.14	41.18	41.24	41.28
Midsize Cars	0.00	0.00	37.66	37.27	36.79	36.42	36.00	36.04	36.15	36.13	36.12	36.10	36.07
Large Cars	0.00	0.00	0.00	0.00	0.00	34.15	33.72	33.70	33.77	33.77	33.80	33.84	33.89
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	32.15	31.72	31.68	31.69	31.67	31.65	31.65	31.70
Large Pickup	25.59	26.28	26.27	26.24	25.94	26.79	26.47	26.47	26.54	26.55	26.55	26.57	26.59
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.69	33.59	33.49	33.41	33.35
Large Van	24.53	25.13	25.11	25.07	24.90	25.94	25.63	25.64	25.70	25.72	25.72	25.75	25.79
Small Utility	0.00	0.00	30.43	30.39	29.86	31.17	30.76	30.75	30.79	30.78	30.79	30.80	30.82
Large Utility	23.74	24.19	24.17	24.13	23.93	24.96	24.67	24.70	24.77	24.80	24.82	24.86	24.90
<b>Methanol</b>													
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
<b>Methanol Flex</b>													
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	27.26	28.47	28.48	28.33	28.25	28.28	28.02	28.25	28.52	28.56	28.64	28.72	28.78
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
<b>Ethanol</b>													

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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	29.03	29.03	28.87	28.78	28.79	28.53	28.76	29.03	29.07	29.14	29.23	29.30
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
<b>Ethanol Flex</b>													
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	32.11	32.02	31.99	32.03	32.12
Compact Cars	30.50	32.07	32.09	31.90	31.80	31.76	31.47	31.72	32.10	32.19	32.34	32.43	32.46
Midsize Cars	27.00	28.20	28.21	28.05	27.98	28.02	27.76	28.00	28.27	28.31	28.38	28.47	28.52
Large Cars	0.00	0.00	0.00	0.00	0.00	25.61	25.35	25.48	25.68	25.77	25.87	25.99	26.12
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	22.90	23.85	23.86	23.93	23.80	25.23	24.97	25.05	25.17	25.24	25.33	25.45	25.61
Large Pickup	19.27	19.80	19.81	19.85	19.71	20.52	20.33	20.44	20.62	20.71	20.80	20.91	21.00
Small Van	23.72	24.58	24.57	24.53	24.34	25.55	25.27	25.32	25.41	25.46	25.51	25.58	25.66
Large Van	0.00	0.00	0.00	18.87	18.69	19.22	19.04	19.18	19.41	19.50	19.65	19.75	19.91
Small Utility	0.00	0.00	0.00	0.00	0.00	23.14	22.90	22.99	23.18	23.28	23.43	23.58	23.72
Large Utility	17.85	18.23	18.26	18.31	18.29	19.21	19.05	19.17	19.36	19.45	19.55	19.64	19.75
<b>Compressed Natural Gas</b>													
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	32.57	34.23	34.25	34.09	33.96	33.86	33.53	33.72	34.04	34.11	34.22	34.35	34.35
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	27.21	27.88	27.87	27.66	27.54	27.55	27.29	27.48	27.71	27.74	27.80	27.88	27.93
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	20.55	21.09	21.11	21.15	20.98	21.71	21.48	21.52	21.64	21.69	21.74	21.80	21.87
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	19.69	20.18	20.20	20.26	20.17	21.03	20.80	20.85	20.98	21.03	21.09	21.16	21.21
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
<b>Compressed Natural Gas Bi-Fuel</b>													
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	30.19	31.67	31.69	31.59	31.53	31.48	31.20	31.42	31.72	31.80	31.93	31.98	31.98
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	25.65	25.40	25.23	25.04	25.23	25.46	25.54	25.63	25.72	25.79
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	19.05	19.55	19.58	19.64	19.49	20.18	19.96	20.01	20.14	20.19	20.24	20.27	20.33
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	18.25	18.70	18.74	18.80	18.74	19.53	19.32	19.39	19.53	19.58	19.64	19.68	19.75
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
<b>Liquefied Petroleum Gas</b>													
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

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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	19.82	20.37	20.38	20.41	20.26	21.05	20.85	20.93	21.10	21.17	21.26	21.35	21.42
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	18.96	19.47	19.49	19.55	19.51	20.41	20.22	20.30	20.47	20.54	20.63	20.72	20.80
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
<b>Liquefied Petroleum Gas Bi-Fuel</b>													
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	31.45	31.10	30.92	30.66	30.88	31.22	31.36	31.55	31.65	31.71
Midsize Cars	0.00	0.00	0.00	27.69	27.42	27.28	27.05	27.24	27.49	27.56	27.64	27.73	27.79
Large Cars	0.00	0.00	0.00	25.65	25.40	25.24	25.06	25.27	25.52	25.60	25.71	25.82	25.91
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	19.07	19.59	19.62	19.66	19.51	20.27	20.07	20.14	20.30	20.36	20.44	20.50	20.58
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	18.25	18.72	18.75	18.81	18.79	19.65	19.45	19.53	19.70	19.77	19.85	19.90	19.99
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
<b>Electric</b>													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	44.49	43.90	43.98	44.06	44.03	43.99	43.95	43.91
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.33	54.36	54.31	54.28	54.24	54.19
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	32.21	33.23	36.58	40.23	44.80	50.74	50.03	50.03	50.00	49.95	49.90	49.85	49.81
Small Pickup	26.63	27.41	30.15	33.52	36.90	42.53	41.91	41.82	41.74	41.65	41.58	41.50	41.44
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	25.48	28.16	32.38	31.92	31.85	31.78	31.71	31.65	31.59	31.53
Small Utility	25.21	26.18	28.80	32.03	35.28	41.52	40.92	40.83	40.74	40.66	40.59	40.51	40.44
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
<b>Diesel-Electric Hybrid</b>													
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	50.11	49.91	49.72	49.56	49.41
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.68	44.49	44.31
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	41.82
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
<b>Gasoline-Electric Hybrid</b>													
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

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.55	46.36	46.19	46.03
Compact Cars	43.57	45.79	45.78	45.39	44.87	44.31	43.75	43.71	43.73	43.66	43.61	43.56	43.50
Midsize Cars	0.00	0.00	0.00	0.00	0.00	39.55	39.01	38.90	38.82	38.75	38.68	38.62	38.57
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.88	36.79	36.72	36.66	36.61	36.58
Two Seater Cars	36.05	37.15	37.12	36.77	36.39	36.13	35.75	35.85	35.99	35.97	35.97	35.97	35.96
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	29.41	29.29	29.19	29.12
Small Van	0.00	0.00	0.00	0.00	0.00	34.84	34.30	34.14	34.03	33.93	33.84	33.77	33.71
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	32.56	31.84	32.78	32.33	32.26	32.26	32.22	32.19	32.17	32.15
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.16	27.08	27.02	26.98	26.94	26.93
<b>Fuel Cell Methanol</b>													
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
<b>Fuel Cell Hydrogen</b>													
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	63.03	62.18	61.43	60.57	60.58	60.62	60.57	60.53	60.49	60.44
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	50.68	50.63
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	41.76
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	46.20	45.12	46.30	45.63	45.54	45.44	45.35	45.26	45.18	45.10
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Fuel Cell Gasoline</b>													
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	38.97	38.96	38.96	38.92	38.90	38.87	38.83
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	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	35.81	35.74	35.69
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	38.68	38.61	38.54
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Gasoline</b>												
Mini-compact Cars	27.68	27.75	27.83	27.87	27.93	27.99	28.08	28.16	28.25	28.32	28.35	0.3%
Subcompact Cars	32.61	32.68	32.76	32.81	32.87	32.95	33.06	33.15	33.23	33.30	33.35	0.1%
Compact Cars	32.22	32.28	32.35	32.40	32.45	32.52	32.62	32.70	32.77	32.82	32.86	0.2%
Midsize Cars	28.30	28.37	28.44	28.50	28.57	28.63	28.73	28.81	28.88	28.93	28.98	0.2%
Large Cars	26.33	26.41	26.48	26.56	26.64	26.74	26.84	26.93	27.02	27.09	27.16	0.2%
Two Seater Cars	26.66	26.76	26.83	26.90	26.96	27.04	27.13	27.22	27.31	27.38	27.44	0.3%
Small Pickup	25.49	25.64	25.76	25.88	25.99	26.12	26.25	26.36	26.48	26.58	26.67	0.6%
Large Pickup	20.83	20.95	21.09	21.21	21.32	21.42	21.55	21.65	21.78	21.88	21.95	0.5%
Small Van	25.46	25.55	25.66	25.73	25.81	25.91	26.03	26.13	26.25	26.35	26.45	0.4%
Large Van	20.23	20.36	20.50	20.59	20.68	20.83	20.98	21.12	21.28	21.38	21.51	0.6%
Small Utility	24.44	24.54	24.66	24.78	24.89	25.02	25.14	25.27	25.41	25.53	25.64	0.6%
Large Utility	19.60	19.72	19.84	19.95	20.04	20.16	20.29	20.41	20.53	20.61	20.71	0.6%
<b>Turbo Direct Injection Diesel</b>												
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	N/A
Subcompact Cars	42.40	42.38	42.40	42.39	42.39	42.42	42.46	42.50	42.54	42.55	42.56	N/A
Compact Cars	41.31	41.28	41.27	41.26	41.25	41.26	41.28	41.30	41.32	41.31	41.31	-0.1%
Midsize Cars	36.07	36.07	36.08	36.08	36.09	36.08	36.09	36.10	36.11	36.09	36.09	N/A
Large Cars	33.96	34.03	34.10	34.14	34.18	34.23	34.28	34.32	34.36	34.38	34.40	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	N/A
Small Pickup	31.80	31.92	32.03	32.09	32.15	32.23	32.34	32.42	32.46	32.49	32.52	N/A
Large Pickup	26.63	26.68	26.75	26.80	26.82	26.87	26.93	26.99	27.03	27.07	27.11	0.1%
Small Van	33.33	33.33	33.35	33.36	33.38	33.43	33.50	33.57	33.64	33.69	33.74	N/A
Large Van	25.84	25.90	25.98	26.02	26.06	26.14	26.23	26.32	26.39	26.45	26.52	0.2%
Small Utility	30.85	30.89	30.94	30.99	31.03	31.10	31.18	31.26	31.34	31.41	31.47	N/A
Large Utility	24.95	25.02	25.08	25.12	25.18	25.26	25.36	25.42	25.51	25.58	25.66	0.3%
<b>Methanol</b>												
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	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	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	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	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	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	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	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	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	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	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	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	N/A
<b>Methanol Flex</b>												
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	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	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	N/A
Midsize Cars	28.85	28.91	28.98	29.05	29.12	29.19	29.29	29.37	29.44	29.50	29.56	0.2%
Large Cars	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	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	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	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	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	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	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	N/A
<b>Ethanol</b>												

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
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	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	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	N/A
Midsize Cars	29.37	29.44	29.51	29.57	29.64	29.71	29.81	29.89	29.97	30.03	30.09	0.2%
Large Cars	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	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	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	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	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	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	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	N/A
<b>Ethanol Flex</b>												
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	N/A
Subcompact Cars	32.22	32.31	32.44	32.58	32.75	32.91	33.10	33.27	33.41	33.52	33.62	N/A
Compact Cars	32.52	32.59	32.67	32.73	32.79	32.84	32.94	33.01	33.09	33.14	33.19	0.2%
Midsize Cars	28.59	28.65	28.72	28.79	28.86	28.93	29.02	29.10	29.18	29.24	29.29	0.2%
Large Cars	26.25	26.38	26.50	26.62	26.74	26.88	27.00	27.11	27.23	27.31	27.39	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	N/A
Small Pickup	25.77	25.92	26.07	26.19	26.32	26.47	26.62	26.73	26.85	26.95	27.03	0.6%
Large Pickup	21.11	21.23	21.37	21.49	21.60	21.71	21.84	21.95	22.07	22.17	22.24	0.5%
Small Van	25.75	25.84	25.95	26.02	26.11	26.21	26.34	26.46	26.57	26.67	26.78	0.4%
Large Van	20.09	20.25	20.42	20.55	20.65	20.80	20.95	21.09	21.25	21.35	21.48	N/A
Small Utility	23.88	24.04	24.20	24.38	24.52	24.68	24.83	24.98	25.14	25.26	25.39	N/A
Large Utility	19.87	20.00	20.12	20.22	20.31	20.44	20.57	20.69	20.82	20.89	20.99	0.6%
<b>Compressed Natural Gas</b>												
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	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	N/A
Compact Cars	34.38	34.41	34.46	34.50	34.54	34.57	34.63	34.68	34.72	34.73	34.75	0.1%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	27.97	28.02	28.07	28.13	28.19	28.26	28.36	28.44	28.50	28.54	28.58	0.1%
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	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	N/A
Large Pickup	21.93	22.01	22.11	22.19	22.27	22.35	22.45	22.54	22.64	22.71	22.75	0.3%
Small Van	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	21.28	21.38	21.51	21.61	21.70	21.79	21.91	22.02	22.13	22.23	22.30	0.5%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
<b>Compressed Natural Gas Bi-Fuel</b>												
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	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	N/A
Compact Cars	32.01	32.04	32.09	32.11	32.13	32.17	32.24	32.28	32.32	32.33	32.34	0.1%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	25.90	26.01	26.10	26.18	26.26	26.36	26.44	26.51	26.59	26.63	26.68	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	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	N/A
Large Pickup	20.40	20.49	20.58	20.65	20.69	20.78	20.86	20.94	21.02	21.05	21.10	0.3%
Small Van	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	19.83	19.94	20.03	20.10	20.17	20.27	20.37	20.47	20.59	20.65	20.74	0.5%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
<b>Liquefied Petroleum Gas</b>												
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	N/A



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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Subcompact Cars	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	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	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	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	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	N/A
Large Pickup	21.52	21.62	21.76	21.87	21.97	22.08	22.21	22.32	22.44	22.53	22.60	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	N/A
Large Van	20.89	21.02	21.15	21.27	21.37	21.49	21.64	21.77	21.91	22.04	22.13	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	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	N/A
<b>Liquefied Petroleum Gas Bi-Fuel</b>												
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	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	N/A
Compact Cars	31.79	31.87	31.97	32.03	32.10	32.18	32.28	32.35	32.41	32.45	32.49	N/A
Midsize Cars	27.88	27.97	28.07	28.14	28.21	28.28	28.37	28.44	28.50	28.54	28.58	N/A
Large Cars	26.03	26.16	26.26	26.36	26.45	26.57	26.67	26.75	26.84	26.90	26.96	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	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	N/A
Large Pickup	20.67	20.78	20.91	21.00	21.08	21.17	21.28	21.37	21.48	21.54	21.62	0.4%
Small Van	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	20.10	20.22	20.35	20.44	20.52	20.64	20.77	20.89	21.02	21.11	21.22	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	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	N/A
<b>Electric</b>												
Mini-compact Cars	43.89	43.86	43.84	43.81	43.78	43.75	43.79	43.82	43.86	43.89	43.91	N/A
Subcompact Cars	54.15	54.10	54.06	54.01	53.96	53.92	53.95	53.98	54.00	54.03	54.05	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	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	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	N/A
Two Seater Cars	49.77	49.73	49.71	49.67	49.63	49.60	49.63	49.66	49.69	49.72	49.74	1.9%
Small Pickup	41.37	41.31	41.25	41.18	41.12	41.06	41.06	41.07	41.08	41.08	41.09	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	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	N/A
Large Van	31.48	31.42	31.37	31.31	31.26	31.22	31.23	31.25	31.28	31.30	31.31	N/A
Small Utility	40.37	40.30	40.24	40.17	40.11	40.05	40.07	40.10	40.12	40.14	40.16	2.0%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Diesel-Electric Hybrid</b>												
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	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	N/A
Compact Cars	49.29	49.22	49.18	49.14	49.12	49.10	49.11	49.12	49.11	49.10	49.09	N/A
Midsize Cars	44.17	44.07	44.00	43.95	43.92	43.89	43.89	43.89	43.90	43.90	43.89	N/A
Large Cars	41.70	41.61	41.54	41.49	41.45	41.41	41.43	41.45	41.48	41.51	41.55	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	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	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	N/A
Small Van	40.40	40.26	40.15	40.06	39.98	39.93	39.93	39.95	39.98	40.01	40.06	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	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	39.67	39.57	39.50	39.46	39.44	39.45	N/A
Large Utility	0.00	0.00	31.44	31.35	31.28	31.22	31.22	31.24	31.27	31.31	31.38	N/A
<b>Gasoline-Electric Hybrid</b>												
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	N/A

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Subcompact Cars	45.91	45.84	45.80	45.78	45.78	45.79	45.82	45.85	45.89	45.90	45.93	N/A
Compact Cars	43.46	43.44	43.43	43.42	43.41	43.41	43.44	43.45	43.47	43.46	43.47	-0.2%
Midsize Cars	38.55	38.55	38.57	38.57	38.59	38.60	38.63	38.65	38.67	38.66	38.66	N/A
Large Cars	36.55	36.53	36.53	36.55	36.58	36.62	36.68	36.72	36.76	36.79	36.81	N/A
Two Seater Cars	35.97	35.98	36.00	36.02	36.03	36.05	36.10	36.15	36.20	36.23	36.26	-0.1%
Small Pickup	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	29.07	29.04	29.03	29.06	29.09	29.13	29.22	29.30	29.38	29.44	29.49	N/A
Small Van	33.67	33.66	33.66	33.67	33.68	33.69	33.75	33.81	33.88	33.93	33.99	N/A
Large Van	29.02	28.93	28.86	28.81	28.78	28.78	28.82	28.88	28.95	29.04	29.13	N/A
Small Utility	32.16	32.16	32.17	32.20	32.23	32.27	32.35	32.44	32.52	32.59	32.66	N/A
Large Utility	26.94	26.97	27.01	27.05	27.11	27.17	27.26	27.36	27.45	27.53	27.61	N/A
<b>Fuel Cell Methanol</b>												
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	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	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	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	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	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	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	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	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	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	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	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	N/A
<b>Fuel Cell Hydrogen</b>												
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	N/A
Subcompact Cars	60.39	60.34	60.28	60.23	60.18	60.13	60.16	60.19	60.22	60.25	60.28	N/A
Compact Cars	0.00	0.00	0.00	59.27	59.23	59.20	59.24	59.28	59.33	59.36	59.39	N/A
Midsize Cars	50.60	50.56	50.53	50.50	50.47	50.44	50.47	50.51	50.54	50.57	50.60	N/A
Large Cars	0.00	45.37	45.34	45.31	45.29	45.26	45.29	45.32	45.35	45.37	45.40	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	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	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	N/A
Small Van	41.69	41.62	41.56	41.50	41.44	41.38	41.40	41.43	41.47	41.49	41.52	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	N/A
Small Utility	45.02	44.95	44.87	44.80	44.73	44.67	44.69	44.72	44.74	44.76	44.78	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Fuel Cell Gasoline</b>												
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	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	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	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	N/A
Large Cars	38.80	38.77	38.74	38.72	38.71	38.68	38.71	38.73	38.75	38.78	38.80	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	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	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	N/A
Small Van	35.63	35.57	35.51	35.46	35.41	35.36	35.38	35.41	35.44	35.46	35.48	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	N/A
Small Utility	38.47	38.41	38.35	38.28	38.23	38.17	38.19	38.22	38.24	38.25	38.27	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	N/A

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

Sources: 2003 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, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Gasoline</b>													
Mini-compact Cars	55.4	55.6	55.6	55.7	56.0	56.2	56.4	56.4	56.5	56.5	56.6	56.6	56.6
Subcompact Cars	19.1	19.2	19.2	19.4	19.6	19.8	19.9	20.0	20.1	20.1	20.1	20.2	20.2
Compact Cars	19.4	19.5	19.5	19.7	19.9	20.1	20.3	20.3	20.4	20.5	20.5	20.6	20.6
Midsize Cars	26.0	26.1	26.1	26.3	26.5	26.7	26.9	27.0	27.0	27.1	27.1	27.2	27.2
Large Cars	30.7	30.7	30.7	30.9	31.1	31.3	31.4	31.5	31.5	31.6	31.6	31.7	31.7
Two Seater Cars	44.1	44.2	44.2	44.3	44.6	44.8	44.9	44.9	45.0	45.0	45.1	45.1	45.1
Small Pickup	18.2	18.3	18.3	18.3	18.8	19.3	19.4	19.5	19.5	19.6	19.6	19.6	19.7
Large Pickup	25.3	25.4	25.4	25.4	25.9	26.3	26.5	26.5	26.5	26.6	26.6	26.6	26.7
Small Van	26.7	26.8	26.8	26.8	27.3	27.8	27.9	27.9	28.0	28.0	28.0	28.1	28.1
Large Van	22.9	23.0	23.0	23.0	23.5	23.9	24.1	24.1	24.2	24.2	24.2	24.3	24.3
Small Utility	27.7	27.8	27.8	27.9	28.4	28.8	28.9	29.0	29.0	29.0	29.1	29.1	29.1
Large Utility	35.5	35.5	35.5	35.6	36.1	36.5	36.7	36.7	36.7	36.8	36.8	36.8	36.9
<b>Turbo Direct Injection Diesel</b>													
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	21.1	21.1	21.1	21.2	21.2
Compact Cars	20.9	21.0	20.9	21.1	21.4	21.5	21.7	21.7	21.8	21.8	21.9	21.9	21.9
Midsize Cars	0.0	0.0	27.6	27.8	28.0	28.2	28.3	28.4	28.4	28.5	28.5	28.6	28.6
Large Cars	0.0	0.0	0.0	0.0	0.0	32.8	32.9	32.9	33.0	33.0	33.0	33.1	33.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	21.2	21.3	21.4	21.4	21.4	21.5	21.5	21.6
Large Pickup	26.9	26.9	26.9	27.0	27.4	27.8	27.9	28.0	28.0	28.0	28.0	28.1	28.1
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	30.1	30.1	30.1	30.2
Large Van	24.9	24.9	24.8	24.9	25.4	25.8	25.9	26.0	26.0	26.0	26.1	26.1	26.1
Small Utility	0.0	0.0	29.9	29.9	30.4	30.8	30.9	30.9	31.0	31.0	31.0	31.1	31.1
Large Utility	37.0	37.1	37.1	37.1	37.6	38.0	38.1	38.1	38.2	38.2	38.2	38.3	38.3
<b>Methanol</b>													
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
<b>Methanol Flex</b>													
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	28.3	28.5	28.5	28.6	28.9	29.1	29.2	29.3	29.4	29.4	29.5	29.5	29.6
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
<b>Ethanol</b>													
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

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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	28.2	28.3	28.3	28.5	28.7	28.9	29.0	29.1	29.2	29.2	29.3	29.3	29.4
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	20.4	20.4	20.4	20.5	20.5
Compact Cars	20.2	20.2	20.2	20.5	20.7	20.9	21.0	21.1	21.2	21.2	21.3	21.3	21.4
Midsize Cars	26.3	26.4	26.5	26.6	26.9	27.1	27.2	27.3	27.4	27.4	27.5	27.5	27.6
Large Cars	0.0	0.0	0.0	0.0	0.0	31.6	31.7	31.8	31.8	31.9	31.9	32.0	32.0
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	20.0	20.3	20.3	20.2	20.7	21.2	21.3	21.3	21.3	21.3	21.3	21.4	21.4
Large Pickup	26.4	26.5	26.5	26.5	27.0	27.4	27.5	27.5	27.5	27.5	27.5	27.5	27.6
Small Van	27.8	27.8	27.8	27.9	28.4	28.8	28.9	28.9	28.9	28.9	29.0	29.0	29.0
Large Van	0.0	0.0	0.0	23.3	23.8	24.1	24.3	24.3	24.4	24.4	24.5	24.5	24.6
Small Utility	0.0	0.0	0.0	0.0	0.0	29.0	29.1	29.2	29.2	29.2	29.3	29.3	29.4
Large Utility	36.1	36.2	36.2	36.2	36.7	37.1	37.2	37.2	37.3	37.3	37.3	37.3	37.3
Compressed Natural Gas													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	25.7	25.8	25.8	26.0	26.2	26.4	26.6	26.6	26.7	26.8	26.8	26.9	26.9
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	37.3	37.3	37.3	37.5	37.7	37.9	38.0	38.1	38.1	38.2	38.2	38.3	38.3
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	31.9	32.0	32.0	32.1	32.6	33.0	33.1	33.1	33.2	33.2	33.3	33.3	33.4
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	29.5	29.6	29.6	29.6	30.1	30.6	30.7	30.7	30.8	30.8	30.9	30.9	30.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	24.5	24.6	24.6	24.8	25.1	25.3	25.4	25.5	25.6	25.6	25.7	25.8	25.8
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	33.5	33.7	33.8	34.0	34.0	34.1	34.2	34.2	34.3	34.3
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	31.0	31.0	31.0	31.1	31.6	32.0	32.2	32.2	32.3	32.3	32.4	32.4	32.5
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	28.6	28.6	28.6	28.7	29.2	29.6	29.8	29.8	29.9	29.9	29.9	30.0	30.0
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
Liquefied Petroleum Gas													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	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

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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	31.2	31.3	31.3	31.3	31.8	32.2	32.4	32.4	32.4	32.5	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	29.4	29.9	30.0	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
<b>Liquefied Petroleum Gas Bi-Fuel</b>													
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	21.1	21.3	21.5	21.6	21.7	21.8	21.9	21.9	22.0	22.0
Midsize Cars	0.0	0.0	0.0	27.7	28.0	28.1	28.3	28.4	28.5	28.5	28.6	28.7	28.7
Large Cars	0.0	0.0	0.0	32.3	32.5	32.7	32.8	32.9	33.0	33.0	33.1	33.1	33.2
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	30.1	30.2	30.2	30.3	30.8	31.2	31.3	31.4	31.4	31.4	31.5	31.5	31.6
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	27.7	27.8	27.8	27.8	28.3	28.8	28.9	28.9	29.0	29.0	29.1	29.1	29.2
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
<b>Electric</b>													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	69.7	69.4	69.0	68.7	68.3	68.0	67.6	67.3
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	30.5	30.2	29.9	29.6	29.4
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	67.9	67.5	67.4	68.0	68.6	69.2	69.0	68.7	68.3	68.0	67.7	67.4	67.1
Small Pickup	43.9	43.4	43.3	43.9	44.8	45.3	45.0	44.7	44.3	43.9	43.6	43.3	42.9
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	39.4	40.4	41.1	40.8	40.3	39.9	39.4	39.0	38.6	38.1
Small Utility	54.0	53.4	53.3	53.9	54.8	55.1	54.8	54.5	54.1	53.7	53.4	53.0	52.7
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Diesel-Electric Hybrid</b>													
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	22.8	22.7	22.7	22.7	22.7
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	29.8	29.7
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	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
<b>Gasoline-Electric Hybrid</b>													
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	22.0	22.0	21.9	21.9
Compact Cars	25.0	23.9	22.6	22.8	22.9	23.0	23.0	22.9	22.9	22.9	22.8	22.7	22.7
Midsize Cars	0.0	0.0	0.0	0.0	0.0	29.2	29.3	29.2	29.2	29.2	29.1	29.1	29.1
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1	34.0	34.0	33.9	33.9	33.8
Two Seater Cars	51.0	50.4	49.6	49.7	49.8	49.9	50.0	49.9	49.9	49.9	49.8	49.8	49.7
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	29.7	29.7	29.6
Small Van	0.0	0.0	0.0	0.0	0.0	30.7	30.7	30.7	30.6	30.6	30.5	30.5	30.4
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	31.0	31.3	31.6	31.6	31.5	31.5	31.4	31.4	31.3	31.3
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	40.3	40.2	40.1	40.1	40.0
<b>Fuel Cell Methanol</b>													
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
<b>Fuel Cell Hydrogen</b>													
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	68.5	67.2	66.0	64.8	63.2	61.6	60.1	58.8	57.4	56.2
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	70.8	69.3
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	77.0
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	91.4	90.2	86.6	85.0	83.0	81.0	79.1	77.3	75.6	73.9
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fuel Cell Gasoline</b>													
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	112.7	109.1	105.8	102.5	99.4	96.6	93.8
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.7	98.7	95.7
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.5	94.8	92.0
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
<b>Average Price</b>													
Cars	24.0	23.7	23.7	24.2	24.5	24.8	24.8	25.0	25.0	25.0	25.1	25.1	25.2
Trucks	27.0	27.2	27.3	27.3	27.8	28.3	28.4	28.4	28.5	28.5	28.5	28.6	28.6
Light Duty Vehicles	25.5	25.4	25.5	25.7	26.2	26.6	26.7	26.8	26.8	26.9	26.9	27.0	27.1

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Gasoline</b>												
Mini-compact Cars	56.7	56.7	56.8	56.8	56.8	56.8	56.9	56.9	56.9	56.9	56.9	0.1%
Subcompact Cars	20.3	20.3	20.3	20.4	20.4	20.4	20.5	20.5	20.5	20.5	20.5	0.3%
Compact Cars	20.6	20.7	20.7	20.8	20.8	20.8	20.9	20.9	20.9	20.9	21.0	0.3%
Midsize Cars	27.3	27.3	27.4	27.4	27.4	27.5	27.5	27.5	27.6	27.6	27.6	0.3%
Large Cars	31.7	31.8	31.8	31.9	31.9	31.9	32.0	32.0	32.0	32.0	32.1	0.2%
Two Seater Cars	45.1	45.2	45.2	45.2	45.2	45.3	45.3	45.3	45.3	45.3	45.3	0.1%
Small Pickup	19.7	19.7	19.8	19.8	19.8	19.8	19.9	19.9	19.9	19.9	19.9	0.4%
Large Pickup	26.7	26.8	26.8	26.8	26.9	26.9	26.9	26.9	27.0	27.0	27.0	0.3%
Small Van	28.1	28.2	28.2	28.2	28.3	28.3	28.4	28.4	28.4	28.5	28.5	0.3%
Large Van	24.3	24.4	24.4	24.5	24.5	24.6	24.6	24.6	24.7	24.7	24.7	0.3%
Small Utility	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.4	29.5	29.5	29.5	0.3%
Large Utility	36.9	37.0	37.0	37.0	37.1	37.1	37.2	37.2	37.2	37.3	37.3	0.2%
<b>Turbo Direct Injection Diesel</b>												
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	N/A
Subcompact Cars	21.2	21.2	21.3	21.3	21.3	21.4	21.4	21.4	21.4	21.5	21.5	N/A
Compact Cars	22.0	22.0	22.0	22.0	22.1	22.1	22.1	22.1	22.2	22.2	22.2	0.3%
Midsize Cars	28.6	28.7	28.7	28.7	28.8	28.8	28.8	28.8	28.9	28.9	28.9	N/A
Large Cars	33.1	33.2	33.2	33.2	33.3	33.3	33.3	33.3	33.4	33.4	33.4	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	N/A
Small Pickup	21.6	21.6	21.7	21.7	21.7	21.7	21.7	21.7	21.8	21.8	21.8	N/A
Large Pickup	28.1	28.2	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.4	28.4	0.2%
Small Van	30.2	30.2	30.3	30.3	30.3	30.4	30.4	30.4	30.5	30.5	30.5	N/A
Large Van	26.2	26.2	26.2	26.2	26.2	26.3	26.3	26.3	26.3	26.3	26.4	0.3%
Small Utility	31.1	31.2	31.2	31.2	31.2	31.3	31.3	31.3	31.4	31.4	31.4	N/A
Large Utility	38.3	38.4	38.4	38.4	38.5	38.5	38.5	38.6	38.6	38.6	38.6	0.2%
<b>Methanol</b>												
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	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	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	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	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	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	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	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	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	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	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	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	N/A
<b>Methanol Flex</b>												
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	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	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	N/A
Midsize Cars	29.6	29.7	29.7	29.7	29.8	29.8	29.8	29.9	29.9	29.9	29.9	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	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	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	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	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	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	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	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	N/A
<b>Ethanol</b>												
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	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	N/A



**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.7	29.7	29.7	29.7	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	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	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	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	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	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	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	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	N/A
<b>Ethanol Flex</b>												
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	N/A
Subcompact Cars	20.5	20.6	20.6	20.6	20.7	20.7	20.7	20.8	20.8	20.8	20.8	N/A
Compact Cars	21.4	21.5	21.5	21.5	21.6	21.6	21.6	21.6	21.7	21.7	21.7	0.3%
Midsize Cars	27.6	27.7	27.7	27.7	27.8	27.8	27.8	27.9	27.9	27.9	27.9	0.2%
Large Cars	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.4	32.4	32.4	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	N/A
Small Pickup	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	0.3%
Large Pickup	27.6	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.7	27.7	27.7	0.2%
Small Van	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	0.2%
Large Van	24.6	24.7	24.7	24.7	24.8	24.8	24.8	24.9	24.9	24.9	25.0	N/A
Small Utility	29.4	29.5	29.5	29.5	29.6	29.6	29.7	29.7	29.7	29.7	29.8	N/A
Large Utility	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.6	0.2%
<b>Compressed Natural Gas</b>												
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	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	N/A
Compact Cars	27.0	27.0	27.1	27.1	27.1	27.2	27.2	27.2	27.3	27.3	27.3	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	N/A
Large Cars	38.4	38.4	38.4	38.5	38.5	38.6	38.6	38.6	38.7	38.7	38.7	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	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	N/A
Large Pickup	33.4	33.5	33.5	33.5	33.6	33.6	33.7	33.7	33.7	33.8	33.8	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	N/A
Large Van	31.0	31.1	31.1	31.2	31.2	31.2	31.3	31.4	31.4	31.4	31.5	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
<b>Compressed Natural Gas Bi-Fuel</b>												
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	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	N/A
Compact Cars	25.9	25.9	26.0	26.0	26.0	26.1	26.1	26.2	26.2	26.2	26.3	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	N/A
Large Cars	34.4	34.4	34.5	34.5	34.6	34.6	34.7	34.7	34.7	34.8	34.8	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	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	N/A
Large Pickup	32.5	32.6	32.6	32.7	32.7	32.8	32.8	32.9	32.9	32.9	33.0	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	N/A
Large Van	30.1	30.2	30.2	30.3	30.3	30.4	30.4	30.5	30.5	30.6	30.6	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
<b>Liquefied Petroleum Gas</b>												
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	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	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	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	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	N/A

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
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	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	N/A
Large Pickup	32.6	32.7	32.7	32.7	32.7	32.8	32.8	32.8	32.8	32.9	32.9	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	N/A
Large Van	30.2	30.3	30.3	30.4	30.4	30.4	30.5	30.5	30.5	30.6	30.6	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
<b>Liquefied Petroleum Gas Bi-Fuel</b>												
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	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	N/A
Compact Cars	22.1	22.1	22.2	22.2	22.3	22.3	22.3	22.4	22.4	22.4	22.5	N/A
Midsize Cars	28.8	28.8	28.9	28.9	29.0	29.0	29.1	29.1	29.1	29.2	29.2	N/A
Large Cars	33.2	33.3	33.3	33.4	33.4	33.5	33.5	33.5	33.6	33.6	33.6	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	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	N/A
Large Pickup	31.6	31.7	31.7	31.8	31.8	31.8	31.9	31.9	31.9	32.0	32.0	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	N/A
Large Van	29.2	29.3	29.3	29.4	29.4	29.5	29.5	29.6	29.6	29.6	29.7	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	N/A
<b>Electric</b>												
Mini-compact Cars	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	N/A
Subcompact Cars	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	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	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	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	N/A
Two Seater Cars	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	0.0%
Small Pickup	42.6	42.6	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	-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	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	N/A
Large Van	37.7	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	N/A
Small Utility	52.4	52.4	52.4	49.8	50.1	50.3	50.1	50.2	50.3	49.7	49.8	-0.3%
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Diesel-Electric Hybrid</b>												
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	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	N/A
Compact Cars	22.6	22.7	22.7	22.7	22.7	22.8	22.8	22.8	22.8	22.9	22.9	N/A
Midsize Cars	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.9	29.9	29.9	N/A
Large Cars	34.4	34.5	34.5	34.5	34.5	34.5	34.6	34.6	34.6	34.6	34.7	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	N/A
Small Van	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.3	31.3	31.3	31.3	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	32.2	32.3	32.3	32.3	32.3	32.3	N/A
Large Utility	0.0	0.0	41.0	41.0	41.0	41.0	41.0	41.0	41.1	41.1	41.1	N/A
<b>Gasoline-Electric Hybrid</b>												
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	N/A
Subcompact Cars	21.9	21.9	21.9	22.0	22.0	22.0	22.0	22.1	22.1	22.1	22.1	N/A
Compact Cars	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.8	22.8	-0.2%
Midsize Cars	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	N/A
Large Cars	33.8	33.8	33.9	33.9	33.9	33.9	34.0	34.0	34.0	34.0	34.0	N/A
Two Seater Cars	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.9	49.9	49.9	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	N/A

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Large Pickup	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.7	29.7	29.7	N/A
Small Van	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	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.4	27.4	27.4	27.4	N/A
Small Utility	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.4	31.4	31.4	31.4	N/A
Large Utility	39.9	39.9	40.0	40.0	40.0	40.0	40.1	40.1	40.1	40.1	40.1	N/A
<b>Fuel Cell Methanol</b>												
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	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	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	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	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	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	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	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	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	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	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	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	N/A
<b>Fuel Cell Hydrogen</b>												
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	N/A
Subcompact Cars	54.9	53.8	52.7	51.6	50.7	49.7	48.8	47.9	47.0	46.2	45.4	N/A
Compact Cars	0.0	0.0	0.0	53.5	52.5	51.5	50.6	49.7	48.8	48.0	47.2	N/A
Midsize Cars	67.8	66.4	65.2	63.9	62.7	61.6	60.5	59.4	58.4	57.4	56.4	N/A
Large Cars	0.0	74.4	73.0	71.5	70.2	68.9	67.7	66.5	65.4	64.3	63.2	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	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	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	N/A
Small Van	75.3	73.6	72.1	70.6	69.2	67.8	66.5	65.1	63.9	62.7	61.5	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	N/A
Small Utility	72.3	70.8	69.4	68.0	66.7	65.4	64.1	62.9	61.8	60.7	59.6	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	N/A
<b>Fuel Cell Gasoline</b>												
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	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	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	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	N/A
Large Cars	91.0	88.6	86.1	83.8	81.6	79.4	77.4	75.4	73.5	71.8	70.0	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	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	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	N/A
Small Van	92.8	90.1	87.5	85.1	82.6	80.4	78.1	76.0	73.8	72.0	70.0	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	N/A
Small Utility	89.3	86.8	84.4	82.1	79.9	77.8	75.7	73.7	71.8	70.0	68.2	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	N/A
<b>Average Price</b>												
Cars	25.2	25.3	25.3	25.3	25.4	25.4	25.4	25.5	25.5	25.5	25.5	0.3%
Trucks	28.7	28.7	28.8	28.8	28.8	28.9	28.9	28.9	29.0	29.0	29.0	0.3%
Light Duty Vehicles	27.1	27.2	27.2	27.3	27.3	27.4	27.4	27.5	27.5	27.5	27.6	0.4%

**Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)**

Sources: 2003 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, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Gasoline</b>													
Mini-compact Cars	411	435	436	433	437	442	440	445	451	452	453	454	455
Subcompact Cars	431	452	451	448	446	446	441	444	449	450	451	452	453
Compact Cars	434	456	457	454	453	453	449	452	457	459	461	462	462
Midsize Cars	454	475	476	473	472	473	469	473	477	478	479	480	481
Large Cars	458	470	470	467	466	467	463	467	471	472	474	476	477
Two Seater Cars	401	414	414	411	411	413	410	415	419	420	422	424	425
Small Pickup	416	434	434	435	433	459	454	455	458	459	460	462	465
Large Pickup	488	502	502	503	499	519	515	517	521	523	526	528	530
Small Van	526	545	545	544	540	567	561	562	564	565	566	567	569
Large Van	593	609	610	612	611	640	634	637	643	645	648	650	654
Small Utility	411	429	429	430	428	457	452	454	456	458	460	461	463
Large Utility	481	491	492	493	493	516	512	515	520	522	525	527	530
<b>Turbo Direct Injection Diesel</b>													
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	606	607	609	611	611
Compact Cars	586	616	617	613	612	611	606	611	617	619	622	623	624
Midsize Cars	0	0	642	639	637	638	633	638	644	645	647	648	649
Large Cars	0	0	0	0	0	630	625	630	636	638	640	642	643
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	620	613	615	618	619	621	624	628
Large Pickup	659	677	678	679	674	701	695	698	704	707	710	713	716
Small Van	0	0	0	0	0	0	0	0	761	762	764	766	768
Large Van	800	822	823	826	825	864	856	860	868	871	875	878	882
Small Utility	0	0	580	580	578	616	610	612	616	618	620	623	625
Large Utility	649	663	664	665	665	697	691	695	702	705	708	711	715
<b>Methanol</b>													
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
<b>Methanol Flex</b>													
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	271	271	270	269	270	267	270	272	272	273	274	274
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
<b>Ethanol</b>													
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

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	345	361	361	360	359	359	356	359	363	363	364	365	365
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
<b>Ethanol Flex</b>													
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	328	328	329	330	331
Compact Cars	317	333	333	332	331	330	328	330	334	335	336	337	337
Midsize Cars	332	347	347	345	345	345	342	345	348	349	350	351	351
Large Cars	0	0	0	0	0	341	338	341	344	345	346	347	348
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	304	317	317	318	316	335	332	332	334	335	336	338	340
Large Pickup	356	366	366	367	365	379	376	377	381	382	384	386	387
Small Van	384	398	398	397	394	414	409	410	411	412	413	414	415
Large Van	0	0	0	447	446	467	463	465	469	471	473	475	477
Small Utility	0	0	0	0	0	333	330	331	333	334	335	337	338
Large Utility	351	358	359	360	360	377	374	376	379	381	383	385	387
<b>Compressed Natural Gas</b>													
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	274	274	273	272	272	269	271	274	275	276	277	277
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	275	282	282	280	279	280	278	280	283	283	284	285	286
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	293	301	301	302	300	312	309	310	313	314	315	317	318
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	356	365	366	367	367	384	380	382	386	387	389	390	392
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
<b>Compressed Natural Gas Bi-Fuel</b>													
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	228	228	227	227	226	224	226	229	229	230	231	231
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	233	233	233	232	233	236	236	237	238	238
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	244	251	251	251	250	260	257	258	261	262	263	264	265
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	296	304	305	306	306	320	317	318	321	323	324	325	327
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
<b>Liquefied Petroleum Gas</b>													
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

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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	415	426	427	427	425	442	437	439	443	445	447	449	451
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	504	517	518	520	520	544	539	541	546	549	551	553	556
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
<b>Liquefied Petroleum Gas Bi-Fuel</b>													
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	363	363	362	359	362	366	367	369	369	370
Midsize Cars	0	0	0	378	378	378	375	378	382	382	383	384	385
Large Cars	0	0	0	373	372	374	370	373	377	378	379	381	381
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	390	401	402	402	400	416	412	414	417	419	421	423	424
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	474	487	488	489	489	512	507	510	514	516	519	520	523
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
<b>Electric</b>													
Mini-compact Cars	0	0	0	0	0	80	80	80	80	80	80	80	80
Subcompact Cars	0	0	0	0	0	0	0	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	0	0	0	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
<b>Diesel-Electric Hybrid</b>													
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	594	596	599	600	601
Midsize Cars	0	0	0	0	0	0	0	0	0	0	623	624	625
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	620
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
<b>Gasoline-Electric Hybrid</b>													
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	562	564	565	566
Compact Cars	543	571	571	568	566	566	561	565	572	573	576	577	578
Midsize Cars	0	0	0	0	0	591	586	591	597	597	599	600	601
Large Cars	0	0	0	0	0	0	0	583	589	590	593	595	596
Two Seater Cars	502	517	517	514	514	517	513	518	524	526	528	530	531
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Large Pickup	0	0	0	0	0	0	0	0	0	654	657	660	663
Small Van	0	0	0	0	0	709	701	702	705	706	707	709	711
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	537	535	571	565	567	571	572	574	577	579
Large Utility	0	0	0	0	0	0	0	643	650	652	656	659	662
<b>Fuel Cell Methanol</b>													
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
<b>Fuel Cell Hydrogen</b>													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	448	446	446	441	444	449	450	451	452	453
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	480	481
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	569
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	430	428	457	452	454	456	458	460	461	463
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fuel Cell Gasoline</b>													
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	463	467	471	472	474	476	477
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	566	567	569
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	460	461	463
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0



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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Gasoline</b>												
Mini-compact Cars	457	458	459	460	461	462	463	465	466	467	468	0.3%
Subcompact Cars	454	455	456	457	457	459	460	461	462	463	464	0.1%
Compact Cars	463	464	465	466	466	467	469	470	471	472	472	0.2%
Midsize Cars	482	483	484	485	486	487	489	490	492	492	493	0.2%
Large Cars	478	479	481	482	484	485	487	489	490	492	493	0.2%
Two Seater Cars	427	428	430	431	432	433	435	436	437	439	439	0.3%
Small Pickup	468	471	473	475	477	480	482	484	486	488	490	0.6%
Large Pickup	533	536	539	543	545	548	551	554	557	560	562	0.5%
Small Van	570	572	575	576	578	581	583	585	588	590	593	0.4%
Large Van	657	662	666	669	672	677	682	686	692	695	699	0.6%
Small Utility	465	467	469	472	474	476	478	481	483	486	488	0.6%
Large Utility	533	536	539	542	545	548	552	555	558	560	563	0.6%
<b>Turbo Direct Injection Diesel</b>												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	613	614	615	616	618	619	621	623	624	625	627	N/A
Compact Cars	625	626	628	629	630	631	633	634	636	637	638	0.2%
Midsize Cars	651	652	654	655	657	658	660	662	664	665	666	N/A
Large Cars	645	647	649	651	653	655	657	660	662	664	665	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	632	635	639	641	644	648	651	653	656	659	661	N/A
Large Pickup	719	723	728	732	736	740	744	748	752	756	758	0.5%
Small Van	770	773	776	778	781	784	787	790	794	797	800	N/A
Large Van	887	893	899	904	908	914	920	927	934	938	944	0.6%
Small Utility	628	631	634	637	639	643	646	649	653	656	658	N/A
Large Utility	719	724	728	732	735	740	745	749	754	756	760	0.6%
<b>Methanol</b>												
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
<b>Methanol Flex</b>												
Mini-compact Cars	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	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	275	275	276	277	277	278	279	279	280	281	281	0.2%
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
<b>Ethanol</b>												
Mini-compact Cars	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	N/A

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	366	367	368	369	370	370	372	373	374	374	375	0.2%
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
<b>Ethanol Flex</b>												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	331	332	333	333	334	335	336	337	338	338	339	N/A
Compact Cars	338	339	339	340	340	341	342	343	344	344	345	0.2%
Midsize Cars	352	353	353	354	355	356	357	358	359	360	360	0.2%
Large Cars	349	350	351	352	353	354	356	357	358	359	360	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	342	344	345	347	348	350	352	353	355	356	357	0.6%
Large Pickup	389	391	394	396	398	400	402	404	407	409	410	0.5%
Small Van	416	418	420	421	422	424	426	427	429	431	433	0.4%
Large Van	480	483	486	489	491	494	498	501	505	507	510	N/A
Small Utility	340	341	343	344	346	348	349	351	353	354	356	N/A
Large Utility	389	391	394	396	398	400	403	405	407	409	411	0.6%
<b>Compressed Natural Gas</b>												
Mini-compact Cars	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	N/A
Compact Cars	278	278	279	279	280	280	281	282	283	283	283	0.2%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	287	288	288	289	290	291	292	293	294	295	296	0.2%
Two Seater Cars	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	N/A
Large Pickup	320	322	324	326	327	329	331	332	334	336	337	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	394	397	400	402	403	406	409	412	415	417	419	0.6%
Small Utility	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	N/A
<b>Compressed Natural Gas Bi-Fuel</b>												
Mini-compact Cars	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	N/A
Compact Cars	232	232	233	233	233	234	234	235	235	236	236	0.2%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	239	240	240	241	242	243	244	244	245	246	246	N/A
Two Seater Cars	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	N/A
Large Pickup	266	268	270	271	273	274	276	277	279	280	281	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	329	331	333	335	336	339	341	343	346	347	350	0.6%
Small Utility	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	N/A
<b>Liquefied Petroleum Gas</b>												
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	N/A

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Two Seater Cars	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	N/A
Large Pickup	453	455	459	461	464	466	469	471	474	476	477	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	559	562	566	569	571	575	580	583	588	591	594	0.6%
Small Utility	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	N/A
<b>Liquefied Petroleum Gas Bi-Fuel</b>												
Mini-compact Cars	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	N/A
Compact Cars	370	371	372	373	373	374	375	376	377	377	378	N/A
Midsize Cars	386	386	387	388	389	390	391	392	393	394	395	N/A
Large Cars	382	383	384	386	387	388	390	391	392	393	394	N/A
Two Seater Cars	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	N/A
Large Pickup	426	429	432	434	436	438	441	443	446	448	449	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	526	529	533	535	538	542	545	549	553	556	559	0.6%
Small Utility	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	N/A
<b>Electric</b>												
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
<b>Diesel-Electric Hybrid</b>												
Mini-compact Cars	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	N/A
Compact Cars	602	603	605	605	606	608	610	611	612	613	614	N/A
Midsize Cars	627	628	630	631	632	634	636	637	639	640	641	N/A
Large Cars	621	623	625	627	629	631	633	635	637	639	641	N/A
Two Seater Cars	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	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	741	744	747	749	752	755	758	761	765	767	770	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	619	622	625	628	631	634	N/A
Large Utility	0	0	701	705	708	712	717	721	726	728	732	N/A
<b>Gasoline-Electric Hybrid</b>												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	567	569	570	571	572	573	575	577	578	579	580	N/A
Compact Cars	579	580	581	582	583	584	586	587	589	590	590	0.2%
Midsize Cars	602	604	605	607	608	609	611	613	615	616	617	N/A
Large Cars	597	599	601	603	604	607	609	611	613	615	616	N/A
Two Seater Cars	534	536	537	538	540	541	543	545	547	548	549	0.3%
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A

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

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Large Pickup	666	670	674	678	682	685	689	693	696	700	702	N/A
Small Van	713	716	719	721	723	726	729	732	735	738	741	N/A
Large Van	822	827	833	837	840	846	852	858	864	868	874	N/A
Small Utility	582	584	587	589	592	595	598	601	604	607	610	N/A
Large Utility	666	670	674	678	681	685	689	693	698	700	704	N/A
<b>Fuel Cell Methanol</b>												
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	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	N/A
Small Pickup	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	N/A
Small Van	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	N/A
Small Utility	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	N/A
<b>Fuel Cell Hydrogen</b>												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	454	455	456	457	457	459	460	461	462	463	464	N/A
Compact Cars	0	0	0	466	466	467	469	470	471	472	472	N/A
Midsize Cars	482	483	484	485	486	487	489	490	492	492	493	N/A
Large Cars	0	479	481	482	484	485	487	489	490	492	493	N/A
Two Seater Cars	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	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	570	572	575	576	578	581	583	585	588	590	593	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	465	467	469	472	474	476	478	481	483	486	488	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
<b>Fuel Cell Gasoline</b>												
Mini-compact Cars	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	N/A
Compact Cars	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	N/A
Large Cars	478	479	481	482	484	485	487	489	490	492	493	N/A
Two Seater Cars	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	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	570	572	575	576	578	581	583	585	588	590	593	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	465	467	469	472	474	476	478	481	483	486	488	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A

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

Sources: 2003 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, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.