

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type
(billion miles, unless otherwise noted)

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Conventional Vehicles 1/														
Gasoline ICE Vehicles	2491.0	2511.7	2483.4	2493.1	2522.1	2557.7	2600.7	2647.5	2680.0	2710.4	2740.9	2775.1	2807.7	2839.2
TDI Diesel ICE	42.1	44.5	45.5	47.2	50.2	53.7	57.6	61.6	65.6	69.7	73.9	78.3	83.0	88.1
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	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	0.0
Ethanol-Flex Fuel ICE	45.0	55.1	64.0	72.2	83.9	95.8	107.8	120.1	131.5	142.5	153.0	163.2	172.8	181.9
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	0.2
Natural Gas Technology														
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	3.6	4.3	5.0	5.4	5.8	6.2	6.7	7.1	7.5	7.9	8.3	8.6	8.9	9.2
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3
Liquefied Petroleum Gas Bi-fuel	10.5	13.3	15.9	17.4	18.9	20.4	21.8	23.3	24.8	26.2	27.5	28.7	29.9	31.0
Electric Technology														
Electric Vehicle	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5
Electric-Gasoline Hybrid	1.3	2.4	4.5	8.1	11.4	16.8	22.5	28.8	35.6	42.6	50.0	57.7	66.6	76.0
Fuel Cell Technology														
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.1
VMT Equation Components														
Total VMT (billion miles)	2594.2	2632.1	2619.2	2644.4	2693.3	2751.7	2818.2	2889.6	2946.4	3000.8	3055.2	3113.6	3171.2	3227.7
VMT/Driving Population (thousand miles)	13.2	13.2	13.0	13.0	13.1	13.2	13.4	13.6	13.8	13.9	14.1	14.2	14.4	14.5
Driving Population (million)	226.5	229.1	231.7	234.4	237.0	239.5	241.8	244.1	246.3	248.5	250.5	252.5	254.5	256.6
Price Effects														
Motor Gasoline Price (1987 dollars / million Btu)	8.93	10.29	12.48	12.65	12.19	11.96	11.56	11.08	11.11	11.05	11.00	10.92	10.96	11.04
Fleet Miles per Gallon	20.27	20.27	20.28	20.31	20.20	20.24	20.29	20.35	20.42	20.50	20.60	20.71	20.83	20.94
Real Cost of Driving per Mile (1987 cents)	7.525	8.673	10.518	10.642	10.308	10.099	9.731	9.305	9.293	9.205	9.119	9.005	8.993	9.009
Point Price Elasticity	-0.065	-0.075	-0.092	-0.094	-0.090	-0.087	-0.083	-0.078	-0.077	-0.076	-0.074	-0.073	-0.072	-0.071
Income Effects														
Disposable Income (billion 1987 dollars)	6731.8	6959.9	7106.0	7385.3	7613.9	7880.5	8131.0	8366.8	8568.3	8793.3	9038.8	9319.0	9615.1	9913.8
Point Income Elasticity	605.881	618.393	634.488	653.128	661.112	669.748	674.730	677.153	680.087	685.300	691.868	699.948	709.080	718.307
Demographic Driving Population Effect														
Percentage Female Driving Population	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Point Demographic Elasticity	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type
(billion miles, unless otherwise noted)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2004-2030
Conventional Vehicles 1/															
Gasoline ICE Vehicles	2874.3	2910.9	2946.2	2979.2	3012.5	3045.5	3079.1	3113.5	3148.1	3183.2	3218.6	3253.0	3286.7	3319.0	1.1%
TDI Diesel ICE	93.6	99.6	106.2	113.4	121.3	130.1	139.4	149.4	160.3	171.7	183.8	196.5	210.3	224.7	6.4%
Alternative-Fuel Vehicles															
Alcohol Fuel Technology															
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.8%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	190.7	199.2	207.2	214.6	221.6	228.3	234.6	240.7	246.5	252.2	257.6	262.7	267.6	272.1	6.3%
Ethanol ICE	0.2	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	6.9%
Natural Gas Technology															
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.8%
Compressed Natural Gas Bi-fuel	9.5	9.9	10.1	10.4	10.7	11.0	11.2	11.5	11.8	12.0	12.3	12.5	12.8	13.1	4.3%
Liquefied Petroleum Gas ICE	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	11.8%
Liquefied Petroleum Gas Bi-fuel	32.1	33.2	34.2	35.2	36.1	37.1	38.0	38.9	39.8	40.7	41.7	42.6	43.4	44.3	4.7%
Electric Technology															
Electric Vehicle	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	4.3%
Electric-Diesel Hybrid	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.3	1.4	1.4	1.4	N/A
Electric-Gasoline Hybrid	85.9	96.3	107.1	118.2	129.7	141.6	154.0	166.8	180.1	193.8	208.1	222.8	238.0	253.7	19.7%
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	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	N/A
VMT Equation Components															
Total VMT (billion miles)	3288.7	3351.9	3414.2	3474.3	3535.6	3597.5	3660.5	3725.2	3791.2	3858.4	3927.1	3995.3	4064.2	4132.4	1.8%
VMT/Driving Population (thousand miles)	14.7	14.8	15.0	15.1	15.2	15.4	15.5	15.7	15.8	15.9	16.1	16.2	16.4	16.5	0.9%
Driving Population (million)	258.8	260.9	263.1	265.3	267.5	269.7	271.9	274.2	276.6	278.9	281.3	283.7	286.1	288.5	0.9%
Price Effects															
Motor Gasoline Price (1987 dollars / million Btu)	11.10	11.18	11.28	11.42	11.49	11.57	11.63	11.68	11.73	11.79	11.83	11.90	11.95	12.02	0.6%
Fleet Miles per Gallon	21.07	21.18	21.30	21.41	21.54	21.67	21.79	21.91	22.04	22.15	22.27	22.38	22.49	22.59	0.4%
Real Cost of Driving per Mile (1987 cents)	9.006	9.023	9.045	9.110	9.117	9.124	9.119	9.104	9.097	9.096	9.079	9.086	9.082	9.090	0.2%
Point Price Elasticity	-0.070	-0.070	-0.069	-0.069	-0.069	-0.068	-0.067	-0.067	-0.066	-0.065	-0.065	-0.064	-0.064	-0.063	-0.7%
Income Effects															
Disposable Income (billion 1987 dollars)	10262.9	10637.1	10993.2	11353.8	11710.9	12069.5	12434.0	12810.9	13201.3	13605.7	14017.0	14431.1	14851.1	15270.5	3.1%
Point Income Elasticity	729.797	742.161	753.014	764.243	774.622	784.615	794.394	804.251	814.320	824.662	834.733	844.710	854.569	864.197	1.3%
Demographic Driving Population Effect															
Percentage Female Driving Population	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	N/A
Point Demographic Elasticity	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	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 and 2004 derived using: Federal Highway Administration, Highway Statistics 2003 (Washington, DC, December 2004); Oak Ridge National Laboratory, Transportation Energy Data Book: 24 and Annual (Oak Ridge, TN, December 2004); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2006 National Energy Modeling System run aeo2006.d111905a.
Projections: EIA, AEO2006 National Energy Modeling System run aeo2006.d111905a.