

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

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	474.5	486.5	507.4	536.9	526.6	512.5	505.4	495.9	499.0	499.9	497.6	495.1	492.6	495.9
TDI Diesel ICE	2.4	1.4	1.6	1.7	3.0	3.0	2.8	2.7	2.8	2.9	3.0	3.1	3.3	3.6
Total Conventional	476.9	487.9	509.1	538.6	529.6	515.5	508.2	498.6	501.8	502.7	500.6	498.3	495.9	499.4
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	25.0	25.7	27.2	28.4	32.0	32.2	31.7	31.5	31.9	31.8	31.6	31.2	30.9	31.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.5	0.6	0.6	0.6
Electric-Gasoline Hybrid	3.0	5.8	7.7	13.1	12.1	16.9	17.2	20.3	22.9	24.2	25.4	26.5	28.9	30.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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	0.0
Liquefied Petroleum Gas Bi-fuel	2.9	2.9	3.1	3.3	3.3	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0
Total Alternatives	31.8	35.4	39.1	45.9	48.5	53.5	53.2	56.1	59.1	60.7	61.8	62.7	64.7	66.6
Percent Alternative Car Sales	6.25	6.76	7.13	7.85	8.39	9.40	9.47	10.12	10.54	10.77	10.98	11.17	11.53	11.76
Total New Car Sales	508.7	523.3	548.1	584.5	578.1	569.0	561.4	554.7	560.9	563.5	562.4	560.9	560.6	566.0
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	439.4	453.6	437.0	393.9	387.4	390.3	407.1	428.8	435.1	445.3	451.3	460.0	459.9	465.0
TDI Diesel ICE	20.1	18.9	16.5	16.6	29.3	31.7	33.7	34.3	37.0	37.9	40.1	41.9	44.3	47.7
Total Conventional	459.6	472.5	453.5	410.5	416.7	422.0	440.8	463.0	472.1	483.2	491.5	502.0	504.1	512.7

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	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	24.6	25.6	27.8	25.2	40.8	41.3	43.5	46.1	46.6	47.7	48.3	49.2	49.0	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	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	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	0.0
Electric-Gasoline Hybrid	0.0	0.0	4.4	7.0	7.8	15.0	15.5	16.0	17.8	19.1	20.5	22.0	28.0	30.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.9	2.0	1.9	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.4
Liquefied Petroleum Gas 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
Liquefied Petroleum Gas Bi-fuel	6.4	6.5	6.4	5.8	6.1	6.3	6.6	6.9	7.0	7.2	7.4	7.5	7.6	7.8
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	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	0.0	0.0	0.0
Total Alternatives	33.2	34.4	40.8	40.0	56.9	64.8	67.9	71.3	73.9	76.5	78.6	81.3	87.2	90.6
Percent Alternative Light Truck Sales	6.74	6.78	8.26	8.88	12.01	13.31	13.34	13.35	13.53	13.66	13.79	13.94	14.75	15.02
Total New Truck Sales	492.7	506.9	494.3	450.5	473.5	486.8	508.7	534.3	545.9	559.6	570.1	583.3	591.3	603.3
Percent Total Alternative Sales	6.49	6.77	7.66	8.30	10.02	11.20	11.31	11.70	12.02	12.21	12.40	12.58	13.19	13.44
EPACT Legislative Alternative Sales	16.46	16.94	16.85	16.11	16.61	16.85	17.31	17.88	18.22	18.57	18.81	19.12	19.31	19.65
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1001.4	1030.3	1042.5	1035.0	1051.6	1055.8	1070.0	1089.1	1106.9	1123.1	1132.5	1144.2	1151.9	1169.3

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2004-2030
New Car Sales 1/															
Conventional Vehicles															
Gasoline ICE Vehicles	497.8	502.1	506.4	512.4	517.7	524.4	531.2	538.4	545.6	552.5	558.6	563.8	569.0	574.8	0.6%
TDI Diesel ICE	3.8	4.1	4.4	4.8	5.3	5.8	6.2	6.7	7.3	7.9	8.4	9.0	9.8	10.4	7.9%
Total Conventional	501.6	506.2	510.8	517.2	523.0	530.2	537.4	545.2	552.8	560.4	567.1	572.8	578.8	585.2	0.7%
Alternative-Fuel Vehicles															
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	31.1	31.3	31.5	31.9	32.2	32.6	33.0	33.5	33.9	34.4	34.8	35.2	35.5	35.9	1.3%
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	0.1	5.4%
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.1%
Electric-Diesel Hybrid	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	N/A
Electric-Gasoline Hybrid	32.6	34.8	37.0	39.1	41.3	43.6	46.1	48.6	51.2	54.1	57.0	59.9	63.1	66.4	9.8%
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	0.0	3.6%
Compressed Natural Gas Bi-fuel	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	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	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	3.2	3.2	3.3	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.8	3.8	3.9	1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	68.7	71.1	73.5	76.0	78.6	81.4	84.4	87.4	90.5	94.0	97.3	100.6	104.2	108.0	4.4%
Percent Alternative Car Sales	12.04	12.31	12.57	12.81	13.07	13.31	13.57	13.81	14.07	14.36	14.64	14.94	15.26	15.58	3.3%
Total New Car Sales	570.3	577.3	584.3	593.2	601.6	611.6	621.8	632.5	643.3	654.3	664.3	673.4	683.0	693.1	1.1%
New Light Truck Sales 2/															
Conventional Vehicles															
Gasoline ICE Vehicles	471.9	480.6	488.9	493.8	500.8	509.1	519.4	530.0	540.3	549.5	559.8	566.6	572.7	580.4	1.0%
TDI Diesel ICE	51.6	56.3	59.5	65.1	71.0	77.0	81.8	87.7	93.8	100.8	107.0	113.8	123.0	129.7	7.7%
Total Conventional	523.6	536.9	548.4	558.9	571.8	586.1	601.2	617.7	634.0	650.3	666.8	680.4	695.7	710.1	1.6%

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

Mountain	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2004-2030
Alternative-Fuel Vehicles															
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	50.2	51.2	52.0	52.6	53.4	54.3	55.4	56.7	58.0	59.1	60.4	61.2	62.0	62.9	3.5%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	2.1%
Electric-Diesel Hybrid	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A
Electric-Gasoline Hybrid	32.8	35.0	37.3	39.8	42.5	45.2	48.3	51.5	54.8	58.6	62.4	66.3	70.4	74.7	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	0.0	0.1	0.1	10.8%
Compressed Natural Gas Bi-fuel	2.4	2.5	2.5	2.6	2.7	2.7	2.8	2.9	3.0	3.1	3.1	3.2	3.3	3.4	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	0.0	-5.1%
Liquefied Petroleum Gas Bi-fuel	8.0	8.2	8.4	8.6	8.8	9.0	9.3	9.5	9.8	10.1	10.4	10.6	10.9	11.1	2.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	93.8	97.3	100.7	104.1	107.8	111.8	116.4	121.2	126.2	131.4	136.9	141.9	147.1	152.7	5.9%
Percent Alternative Light Truck Sales	15.19	15.34	15.51	15.70	15.87	16.02	16.22	16.40	16.60	16.81	17.03	17.25	17.45	17.70	3.8%
Total New Truck Sales	617.4	634.2	649.0	663.0	679.6	697.9	717.6	738.9	760.2	781.8	803.7	822.3	842.8	862.7	2.1%
Percent Total Alternative Sales	13.68	13.90	14.12	14.33	14.55	14.75	14.99	15.21	15.44	15.69	15.95	16.21	16.47	16.75	3.5%
EPACT Legislative Alternative Sales	20.03	20.50	20.92	21.34	21.82	22.35	22.92	23.53	24.14	24.76	25.38	25.92	26.50	27.07	1.8%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1187.6	1211.5	1233.3	1256.1	1281.3	1309.6	1339.3	1371.4	1403.5	1436.1	1468.0	1495.8	1525.8	1555.9	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 and 2004 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 2004, <http://www.eia.doe.gov/fuelrenewable.html>; and EIA, AEO2006 National Energy Modeling System run aeo2006.d111905a. Projections: EIA, AEO2006 National Energy Modeling System run aeo2006.d111905a.