ARTBA American Road & Transportation Builders Association

TRANSPORTATION makes AMERICA WORK!

April 15, 2015

The Honorable Orrin Hatch
Chairman
Senate Finance Committee
104 Hart Senate Office Building
Washington, DC 20510

The Honorable Ron Wyden
Ranking Member
Senate Finance Committee
221 Dirksen Senate Office Building
Washington, DC 20510

The Honorable Dean Heller
Co-Chair
Community Development &
Infrastructure Working Group
324 Hart Senate Office Building
Washington, DC 20510

The Honorable Michael Bennet
Co-Chair
Community Development &
Infrastructure Working Group
458 Russell Senate Office Building
Washington, DC 20510

Dear Chairman Hatch and Senators Wyden, Heller and Bennet:

On behalf of the more than 5,000 members of the American Road & Transportation Builders Association, I commend the Finance Committee for formally accepting public and stakeholder input on the committee's tax reform deliberations as well as ongoing efforts to develop a long-term plan to stabilize and grow Highway Trust Fund (HTF) revenues that will enable passage of a multi-year reauthorization of the federal highway and transit programs.

It's been eight months since Congress passed the last short-term extension of the surface transportation program, and the authorization for that funding ends May 31. According to the U.S. Department of Transportation, the HTF will face its next cash crisis at some point in the summer.

To help get things moving on Capitol Hill, the American Road & Transportation Builders Association March 12 announced a comprehensive proposal it believes could end the political impasse over how to fund future federal investments in state highway, bridge and transit capital projects.

In sum, the "Getting Beyond Gridlock" (GBG) plan would marry a 15 cents-per-gallon increase in the federal gas and diesel motor fuels tax with a 100 percent offsetting federal tax rebate for middle and lower income Americans for six years. It would fund a $401 billion, six-year highway and mass transit capital investment program and provide sustainable, user-based funds to support it for at least the next 10 years.

Enclosed you will find some information that provides a thorough overview of GBG.

We hope you and your staff will review this plan seriously and consider it in the constructive manner it is intended as you continue to work on both a tax code overhaul and a permanent transportation funding solution.

Sincerely,

T. Peter Ruane
President and CEO

The "Getting Beyond Gridlock" Plan

A Highway Trust Fund Stabilization & Investment Growth Proposal

Goals:

- Restore the "User Pays" funding concept for future federal Highway & Transit Program investments; end General Fund bailouts and budget gimmicks for Highway Trust Fund (HTF) investments.

- Fund a 6-year, $401B Surface Transportation Program reauthorization.
  - Baseline Core Highway Program increased annually for inflation ($259B/6 years)
  - Baseline Core Transit Program increased annually for inflation ($65B/6 years)
  - Fund new National Freight Network Improvement Program Projects of National & Regional Significance ($62B/6 years)
  - Fund new Transit Capital Projects Highway Congestion Relief Program ($15B/6 years)

How to Fund:

- 15 cents per gallon federal gasoline and diesel user fee increase
  - Generates $159B in new revenue for the HTF over 6 years
  - New total revenue stream to the HTF—$401B over 6 years
  - Average annual cost to driver $88; to trucker $682

If Politically Necessary... A Federal Gas Tax Rebate

- Send annual Federal Tax Rebate covering 100% of cost of 15 cents user fee increase to all federal income tax filers with an Adjusted Gross Income of $100K or less (single) or $200K or less (double)
  - Covers 94% of all federal income tax filers
  - $90 annual rebate for single filers; $180 annual rebate for joint filers
  - Total revenue needed $103.3B/6 years

One Way to Pay for the Annual Gas Tax Rebate:

- Use $103.3B generated by a one-time Federal Repatriation Transition Tax

Major Benefits:

- Surface Transportation Program will see significant growth in Year 1—34%—from $50B to $67B, allowing state DOTs to do robust, long-term planning; helps mitigate program loss since 1993 due to inflationary impact on federal highway user fee
- At end of 6-year authorization, no new "cliff"—HTF still supporting $67B/year Surface Transportation investment

American Road & Transportation Builders Association

March 2015

Funding a Six-year $400B Federal Highway & Transit Program Authorization With No Net Tax Increase for Middle & Lower Income Americans

ARTBA Proposal Assumptions

(1) Federal Highway and Transit Program is 100% user supported through the Highway Trust Fund
(2) Federal gas tax raised 15 cents per gallon
(3) Federal diesel fuel tax raised 15 cents per gallon
(4) All new tax revenue generated by fuel tax increase used exclusively to:
  (a) fill existing HTF funding gap
  (b) fund new National Freight Network Improvement Program with Multi-modal Projects of National and Regional Significance
  (c) fund new Transit Capital Projects Highway Congestion Relief Program
  (d) Maintains traditional 80/20 percent split between highway and transit for new HTF revenues
(5) One time federal Repatriation Transition Tax funds 6-year, annual rebate to middle & lower income tax filers for increased gas tax paid; benefits 94% of tax filers
  (a) $90 for Single Filers w/Adjusted Gross Income (AGI) < $100K
  (b) $180 for Joint Filers w/Adjusted Gross Income (AGI) < $200K
(6) New fuels tax revenue covers existing $2B/year General Fund support for Mass Transit Program
(7) Existing core highway and transit programs increase by inflation annually
(8) Future HTF revenues change in line with forecasted changes in fuel consumption and freight truck registrations

ARTBA Proposal Revenue Calculations

	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total Years 1-6	Average
Annual Highway Trust Fund revenue generated by existing tax & fee rates									
Gas tax revenue (18.3 cents/gallon; $1.37 billion raised per 1 cent)	$25.0	$24.7	$24.5	$24.3	$23.9	$23.5	$23.1	$144.0	$24.0
Diesel fuel tax revenue (24.3 cents/gallon; $419 million raised per 1 cent)	$10.2	$10.5	$10.9	$11.0	$11.1	$11.2	$11.4	$66.2	$11.0
Other taxes and fees (i.e., tires, truck/trailer sales; heavy vehicle use)	$5.0	$5.1	$5.2	$5.2	$5.3	$5.4	$5.4	$31.5	$5.3
Total annual revenue generated by existing tax & fee rates for the HTF	**$40.2**	**$40.3**	**$40.5**	**$40.5**	**$40.3**	**$40.1**	**$39.8**	**$241.6**	**$40.3**
Additional annual HTF revenue generated by new fuel tax rates									
New gas tax revenue		$20.6	$20.4	$20.2	$19.9	$19.5	$19.2	$119.7	$20.0
New diesel fuel tax revenue		$6.3	$6.5	$6.6	$6.6	$6.7	$6.8	$39.5	$6.6
Total additional annual revenue generated by new fuel tax rates for the HTF		**$26.8**	**$26.9**	**$26.8**	**$26.5**	**$26.2**	**$26.0**	**$159.2**	**$26.5**

Funding/Tax Rebate Results w/ARTBA Proposal

Projected Revenue	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total Years 1-6	Average
Total annual gas tax revenue available to HTF	$25.0	$45.3	$44.9	$44.4	$43.8	$43.0	$42.3	$263.7	$43.9
Total annual diesel fuel tax revenue available to HTF	$10.2	$16.8	$17.4	$17.6	$17.8	$17.9	$18.1	$105.7	$17.6
Revenue from other taxes and fees available to HTF	$5.0	$5.1	$5.2	$5.2	$5.3	$5.4	$5.4	$31.5	$5.3
Total annual revenue available for HTF highway and transit program	**$40.2**	**$67.2**	**$67.4**	**$67.3**	**$66.9**	**$66.3**	**$65.8**	**$400.9**	**$66.8**
Annual cost of gas tax increase per average driver		$92.65	$90.75	$88.68	$86.68	$84.42	$82.21	$525.4	$87.56
Annual cost of diesel fuel tax increase per registered truck/bus		$674.29	$685.57	$686.78	$683.51	$681.74	$680.87	$4,092.7	$682.1

Tax Rebate	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total Years 1-6	Average
Total annual rebates to Single Filers w/AGI < $100K per individual, in billions		$7.9	$8.0	$8.1	$8.1	$8.2	$8.3	$48.7	$8.1
Total annual rebates to Joint Filers w/AGI < $200K per individual, in billions		$8.9	$9.0	$9.1	$9.2	$9.2	$9.3	$54.7	$9.1
Total Repatriation Transition Tax revenue needed to rebate 100% of new gas tax paid by Middle Class and Low Income filers		**$16.9**	**$17.0**	**$17.2**	**$17.3**	**$17.4**	**$17.6**	**$103.3**	**$17.2**

Core Highway and Transit Program Annual Authorization	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total Years 1-6	Average
Baseline Core Highway Program increased annually for anticipated inflation	$40.0	$40.9	$41.7	$42.6	$43.5	$44.5	$45.6	$258.7	$43.1
Baseline Core Transit Program increased annually for anticipated inflation	$10.0	$10.2	$10.4	$10.6	$10.9	$11.1	$11.4	$64.7	$10.8
Annual Core Highway and Transit Program investment	**$50.0**	**$51.1**	**$52.1**	**$53.2**	**$54.4**	**$55.6**	**$57.0**	**$323.4**	**$53.9**

New National Freight Network Improvement Program Projects of National & Regional Significance Annual Authorization	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total Years 1-6	Average
		$12.9	**$12.3**	**$11.3**	**$10.0**	**$8.6**	**$7.1**	**$62.0**	**$10.3**

New Transit Capital Projects Highway Congestion Relief Program Annual Authorization	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total Years 1-6	Average
		$3.2	**$3.1**	**$2.8**	**$2.5**	**$2.1**	**$1.8**	**$15.5**	**$2.6**

TOTAL SURFACE TRANSPORTATION PROGRAM ANNUAL AUTHORIZATION	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total Years 1-6	Average
Total investment	**$50.0**	**$67.2**	**$67.4**	**$67.3**	**$66.9**	**$66.3**	**$65.8**	**$400.9**	**$66.8**
Annual percent change		**34%**	**0%**	**0%**	**-1%**	**-1%**	**-1%**		

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Supporting Background Information & Data Used in ARTBA Proposal Model

Demographics	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Source Data
U.S. Population (in millions)	318.9	321.4	324.0	326.6	329.3	331.9	334.5	Census
Number of licensed drivers (in millions)	219.0	221.8	224.7	227.5	229.5	231.5	233.5	EIA
Stock of light duty cars & trucks (in millions, does not include motorcycles/buses)	227.0	228.9	231.4	233.8	235.9	237.9	239.7	EIA
Stock of freight trucks (in millions)	9.18	9.32	9.46	9.59	9.72	9.83	9.95	EIA
Federal Income Tax Filers (in millions)								
a) Total tax filers (including two filers for joint filing)	198.6	200.2	201.8	203.4	205.1	206.7	208.3	IRS
b) Total Single Filers w/Adjusted Gross Income (AGI) < $100K	87.6	88.3	89.0	89.7	90.5	91.2	91.9	
c) Total Joint Filers w/Adjusted Gross Income (AGI) < $200K	98.5	99.3	100.1	100.9	101.7	102.5	103.3	
d) Rebate given to each individual filer		$90.00	$90.00	$90.00	$90.00	$90.00	$90.00	

Inflation Adjustment	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Source Data
CPI Forecast by Congressional Budget Office		2.2%	2.0%	2.1%	2.2%	2.3%	2.4%	CBO

Vehicles, Mileage, VMT & Fuel Consumption	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Source Data
Gasoline fuel taxed (billions of gallons, FHWA value for 2012)	132.7	131.1	130.1	128.7	126.9	124.7	122.5	FHWA
Average fuel efficiency of passenger and fleet vehicle stock, miles per gallon	22.3	22.7	23.1	23.5	23.9	24.5	25.1	EIA
Average gasoline consumed per driver (gallons)	606	591	579	566	553	539	525	
Total VMT for light duty vehicles & trucks (billions of miles)	2,704.3	2,717.0	2,747.2	2,777.7	2,801.2	2,826.0	2,850.9	EIA
Annual VMT per licensed driver	12,351	12,250	12,225	12,212	12,208	12,209	12,209	EIA
Average fuel efficiency of freight trucks , miles per gallon	6.8	6.9	6.9	7.0	7.1	7.2	7.3	EIA
Diesel fuel taxed (billions of gallons)	36.5	37.7	38.9	39.5	39.8	40.2	40.6	FHWA
Total VMT for freight trucks (in billions)	263.2	274.5	285.9	293.7	299.0	304.2	309.6	EIA
Annual % change, gasoline consumption (calculated from EIA 2014 AEO)		-1.2%	-0.8%	-1.1%	-1.4%	-1.7%	-1.8%	
Annual % change, diesel fuel consumption (calculated from EIA 2014 AEO)		3.3%	3.2%	1.6%	0.8%	0.9%	1.0%	
Annual % change in freight registrations (calculated from EIA 2014 AEO)		1.5%	1.5%	1.4%	1.3%	1.2%	1.1%	

Links to Source Data

FHWA Highway Statistics (for baseline volume of fuel taxed)

U.S. Energy Information Agency (EIA), Annual Energy Outlook (AEO) 2014, reference case

IRS Table 1.2 All Returns: Adjusted Gross Income, Exemptions, Deductions, and Tax Items, by Size of Adjusted Gross Income and by Marital Status, Tax Year 2012

Congressional Budget Office August 2014, An Update to the Budget and Economic Outlook: Fiscal Years 2014 to 2024.

Additional Assumptions for demographic information:

Ratio between tax filers and U.S. population and split of single/joint filers in baseline year holds steady for future values.

Future values of volume of gasoline taxed (from FHWA) changes in line with overall % change in fuel consumption forecasted by EIA.

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U.S. Energy Information Agency, Annual Energy Outlook, 2014
Light-Duty Vehicle Stock by Technology Type, Reference case
(millions)

Technology Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Car Stock 1/										
Conventional Cars										
Gasoline ICE Vehicles	124.27	123.12	122.20	121.53	121.07	120.91	120.82	120.62	120.47	120.40
TDI Diesel ICE	0.76	0.91	1.09	1.29	1.50	1.72	1.96	2.21	2.47	2.74
Total Conventional Cars	125.02	124.04	123.29	122.82	122.57	122.62	122.78	122.83	122.94	123.14
Alternative-Fuel Cars										
Ethanol-Flex Fuel ICE	2.262	2.583	2.907	3.226	3.539	3.852	4.147	4.421	4.685	4.923
100 Mile Electric Vehicle	0.019	0.036	0.057	0.080	0.109	0.127	0.142	0.161	0.173	0.184
200 Mile Electric Vehicle	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Plug-in 10 Gasoline Hybrid	0.000	0.017	0.037	0.067	0.097	0.130	0.158	0.187	0.209	0.230
Plug-in 40 Gasoline Hybrid	0.008	0.035	0.067	0.107	0.155	0.202	0.252	0.300	0.348	0.394
Electric-Diesel Hybrid	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002
Electric-Gasoline Hybrid	1.732	2.090	2.450	2.805	3.151	3.494	3.821	4.125	4.420	4.701
Natural Gas ICE	0.032	0.034	0.037	0.039	0.041	0.044	0.046	0.048	0.050	0.051
Natural Gas Bi-fuel	0.053	0.056	0.060	0.063	0.067	0.070	0.073	0.075	0.077	0.079
Propane ICE	0.025	0.025	0.028	0.031	0.035	0.038	0.041	0.044	0.047	0.050
Propane Bi-fuel	0.034	0.034	0.035	0.035	0.036	0.036	0.037	0.037	0.038	0.038
Fuel Cell Gasoline	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fuel Cell Methanol	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fuel Cell Hydrogen	0.000	0.000	0.000	0.000	0.001	0.001	0.003	0.008	0.012	0.015
Total Alternative Cars	4.164	4.912	5.677	6.454	7.229	7.993	8.721	9.406	10.061	10.668
Total Car Stock	**129.19**	**128.95**	**128.97**	**129.28**	**129.80**	**130.62**	**131.50**	**132.24**	**133.01**	**133.81**
Light Truck Stock 1/										
Conventional Light Trucks										
Gasoline ICE Vehicles	86.26	85.73	85.42	85.36	85.63	86.13	86.58	86.91	87.09	87.20
TDI Diesel ICE	0.12	0.14	0.17	0.21	0.26	0.33	0.42	0.52	0.62	0.73
Total Conventional Light Trucks	86.38	85.87	85.60	85.57	85.89	86.46	86.99	87.43	87.71	87.93
Alternative-Fuel Light Trucks										
Ethanol-Flex Fuel ICE	7.677	8.799	9.909	11.009	12.057	13.090	14.062	14.979	15.844	16.592
100 Mile Electric Vehicle	0.012	0.013	0.013	0.014	0.015	0.016	0.016	0.017	0.018	0.018
200 Mile Electric Vehicle	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Plug-in 10 Gasoline Hybrid	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002
Plug-in 40 Gasoline Hybrid	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electric-Diesel Hybrid	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electric-Gasoline Hybrid	0.379	0.395	0.408	0.421	0.432	0.443	0.453	0.467	0.480	0.492
Natural Gas ICE	0.059	0.062	0.066	0.070	0.073	0.077	0.080	0.084	0.087	0.089
Natural Gas Bi-fuel	0.117	0.121	0.126	0.132	0.137	0.142	0.148	0.152	0.156	0.160
Propane ICE	0.098	0.097	0.099	0.103	0.108	0.112	0.117	0.121	0.126	0.130
Propane Bi-fuel	0.378	0.378	0.382	0.389	0.393	0.400	0.406	0.413	0.419	0.424
Fuel Cell Gasoline	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fuel Cell Methanol	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fuel Cell Hydrogen	0.000	0.000	0.000	0.000	0.002	0.004	0.005	0.007	0.008	0.010
Total Alternative Light Trucks	8.720	9.865	11.004	12.138	13.217	14.285	15.289	16.241	17.139	17.917
Total Light Truck Stock	**95.10**	**95.73**	**96.60**	**97.71**	**99.11**	**100.74**	**102.28**	**103.68**	**104.85**	**105.85**
Total Stock	**224.29**	**224.68**	**225.57**	**226.99**	**228.90**	**231.36**	**233.78**	**235.91**	**237.86**	**239.66**

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

- - = Not applicable.

Sources: 2011 and 2012 values derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 2009 (Part II - User and Fuel Data), April 2011; Federal Highway Administration, Highway Statistics 2011 (Washington, DC, February 2013); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 32 (Oak Ridge, TN, July 2013); and EIA, AEO2014 National Energy Modeling System.

Projections: EIA, AEO2014 National Energy Modeling System.

U.S. Energy Information Agency, Annual Energy Outlook, 2014
Light-Duty Vehicle Miles per Gallon by Technology Type, Reference case
(miles per gallon gasoline equivalent)

Technology Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
New Car Miles per Gallon 1/										
Conventional Cars										
Gasoline ICE Vehicles	34.9	35.1	35.2	35.6	36.0	36.2	38.0	38.9	40.8	42.8
TDI Diesel ICE	44.1	44.2	44.3	44.5	44.8	44.9	46.0	46.4	47.3	48.6
Alternative-Fuel Cars										
Ethanol-Flex Fuel ICE	35.2	35.3	35.4	35.8	36.2	36.4	38.2	39.2	41.1	43.2
100 Mile Electric Vehicle	127.9	131.3	131.7	131.8	132.1	131.8	132.3	132.9	133.6	134.6
200 Mile Electric Vehicle	150.9	151.2	125.2	125.3	125.6	125.8	127.1	130.9	132.6	134.5
Plug-in 10 Gasoline Hybrid	0.0	59.4	59.5	60.3	60.8	61.3	63.4	64.5	66.3	68.4
Plug-in 40 Gasoline Hybrid	74.7	74.8	75.0	72.7	73.1	73.4	75.0	76.4	77.9	79.9
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	59.5	60.0	60.6	61.7
Electric-Gasoline Hybrid	50.7	50.8	50.9	51.2	51.4	51.6	54.2	55.4	56.6	59.7
Natural Gas ICE	36.0	36.2	36.4	36.9	37.3	37.6	39.7	40.6	43.1	45.7
Natural Gas Bi-fuel	33.3	33.5	33.6	34.1	34.5	34.8	36.8	37.6	39.9	42.3
Propane ICE	34.2	34.1	33.3	33.7	34.1	34.4	36.7	37.4	40.2	43.0
Propane Bi-fuel	33.6	33.8	34.0	34.4	34.8	35.1	37.0	37.8	40.1	42.3
Fuel Cell Gasoline	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
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	47.2	47.3	52.8	53.0	53.2	53.5
Average New Cars Miles per Gallon	**36.7**	**37.1**	**37.2**	**37.7**	**38.1**	**38.3**	**40.0**	**40.7**	**42.4**	**44.2**
New Light Truck Miles per Gallon 1/										
Conventional Light Trucks										
Gasoline ICE Vehicles	26.9	27.1	27.2	27.7	28.1	28.6	29.1	29.9	32.6	33.2
TDI Diesel ICE	34.3	34.4	34.6	34.9	35.2	35.6	35.9	36.3	37.7	38.2
Alternative-Fuel Light Trucks										
Ethanol-Flex Fuel ICE	27.3	27.5	27.6	28.1	28.5	29.0	29.5	30.3	33.0	33.7
100 Mile Electric Vehicle	131.7	123.8	123.6	123.5	123.9	128.4	130.6	130.6	140.1	142.9
200 Mile Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.0	125.2	126.5
Plug-in 10 Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	51.9	52.7	53.7	58.3	59.4
Plug-in 40 Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.9	67.9	69.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	42.9	43.1	43.4	50.2
Electric-Gasoline Hybrid	39.8	40.0	40.1	40.4	40.8	41.4	41.7	42.1	44.7	45.1
Natural Gas ICE	28.5	28.6	28.7	29.1	29.5	29.9	30.5	31.2	33.7	34.5
Natural Gas Bi-fuel	26.4	26.6	26.6	27.0	27.3	27.7	28.2	28.8	31.1	31.8
Propane ICE	27.4	27.6	27.8	28.2	28.5	28.9	29.4	30.1	32.6	33.3
Propane Bi-fuel	26.3	26.5	26.6	27.0	27.3	27.7	28.2	28.9	31.2	31.9
Fuel Cell Gasoline	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
Fuel Cell Hydrogen	0.0	0.0	0.0	39.7	44.5	44.9	45.0	45.4	47.0	47.5
Average Light Truck Miles per Gallon	**28.5**	**28.7**	**28.8**	**29.3**	**29.5**	**29.8**	**30.2**	**30.8**	**33.3**	**33.7**
Average New Vehicle Miles per Gallon	**32.4**	**32.7**	**32.8**	**33.3**	**33.5**	**33.8**	**34.7**	**35.3**	**37.6**	**38.6**

Light-Duty Vehicle Miles per Gallon by Technology Type, Reference case (miles per gallon gasoline equivalent)

Technology Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Average Car Stock Miles per Gallon 2/	24.4	24.8	25.3	25.7	26.1	26.5	27.0	27.6	28.2	28.8
Average Light Truck Stock Miles per Gallon 2/	18.1	18.5	18.8	19.1	19.5	19.9	20.3	20.7	21.3	21.8
Average Vehicle Stock Miles per Gallon 2/	21.2	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.5	25.1

1/ Fuel efficiencies are EPA rated. Includes personal and fleet vehicles.

2/ Stock values are on-road efficiencies. Includes personal vehicles and fleet vehicles.

MPG = Miles per Gallon.

ICE = Internal combustion engine.

Sources: 2011 and 2012 derived using: National Highway Traffic and Safety Administration, Summary of Fuel Economy Performance (Washington, DC, October 2012); Federal Highway Administration, Highway Statistics 2011 (Washington, DC, February 2013); and EIA, AEO2014 National Energy Modeling System. Projections: EIA, AEO2014 National Energy Modeling System.

U.S. Energy Information Agency, Annual Energy Outlook, 2014
Light-Duty Vehicle Miles Traveled by Technology Type, Reference case
(billion miles, unless otherwise noted)

Technology Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Conventional Vehicles 1/										
Gasoline ICE Vehicles	2,438.95	2,449.38	2,455.87	2,435.70	2,423.83	2,429.07	2,435.93	2,437.09	2,440.41	2,445.88
TDI Diesel ICE	10.37	12.17	14.92	17.70	20.56	23.87	27.61	31.78	35.85	40.11
Alternative-Fuel Vehicles 1/										
Ethanol-Flex Fuel ICE	134.61	155.51	175.89	193.29	209.25	225.16	239.78	253.06	265.78	276.58
100 Mile Electric Vehicle	0.40	0.65	0.94	1.26	1.66	1.87	2.06	2.28	2.40	2.51
200 Mile Electric Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plug-in 10 Gasoline Hybrid	0.00	0.26	0.54	0.96	1.36	1.79	2.14	2.50	2.77	3.00
Plug-in 40 Gasoline Hybrid	0.12	0.51	0.96	1.51	2.15	2.76	3.40	3.98	4.56	5.10
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
Electric-Gasoline Hybrid	28.10	33.15	38.06	42.27	46.20	50.16	53.86	57.21	60.54	63.72
Natural Gas ICE	1.30	1.35	1.44	1.53	1.60	1.67	1.73	1.79	1.84	1.89
Natural Gas Bi-fuel	2.15	2.24	2.36	2.46	2.55	2.64	2.72	2.80	2.86	2.91
Propane ICE	1.56	1.55	1.65	1.78	1.90	2.03	2.14	2.24	2.33	2.41
Propane Bi-fuel	5.56	5.50	5.66	5.84	5.95	6.08	6.17	6.29	6.37	6.43
Fuel Cell Gasoline	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
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.04	0.08	0.12	0.21	0.28	0.36
VMT Equation Components										
Total VMT (billion miles)	2,623.13	2,662.29	2,698.28	2,704.30	2,717.04	2,747.20	2,777.68	2,801.23	2,826.02	2,850.93
VMT/Licensed Driver (thousand miles)	12.46	12.49	12.49	12.35	12.25	12.23	12.21	12.21	12.21	12.21
Licensed Drivers (million)	210.47	213.09	216.00	218.96	221.80	224.72	227.46	229.45	231.48	233.51
Price Effects										
Motor Gasoline Price (1987 $/million Btu)	17.02	17.22	16.68	15.79	14.82	14.33	14.12	14.09	14.16	14.36
Fleet Miles per Gallon	21.03	21.36	21.71	22.09	22.49	22.89	23.33	23.78	24.31	24.87
Real Cost of Driving per Mile (1987 cents)	13.25	13.18	12.55	11.68	10.79	10.25	9.91	9.70	9.52	9.43
Licensing Rate	0.85	0.86	0.86	0.86	0.87	0.87	0.87	0.87	0.87	0.88

1/ Includes personal and fleet vehicles. Includes both cars and light trucks.
VMT = Vehicle miles traveled.
ICE = Internal combustion engine.
Btu = British thermal units.
- - = Not applicable.
Sources: 2011 and 2012 values derived using: Federal Highway Administration, Highway Statistics 2011 (Washington, DC, February 2013); and U.S. Energy Information Administration (EIA), AEO2014 National Energy Modeling System.
Projections: EIA, AEO2014 National Energy Modeling System.

U.S. Energy Information Agency, Annual Energy Outlook, 2014

Freight Transportation Energy Use, Reference case

Technology and Fuel Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Existing Trucks by Size Class										
Vehicle Miles Traveled (billion miles)										
Light Medium										
Diesel	20.65	20.67	22.22	23.34	24.61	25.86	26.77	27.30	27.73	28.14
Motor Gasoline	13.49	13.48	13.59	13.51	13.47	13.35	13.08	12.68	12.30	11.98
Propane	0.20	0.21	0.22	0.24	0.26	0.29	0.31	0.32	0.34	0.36
Compressed/Liquefied Natural Gas	0.21	0.19	0.18	0.18	0.17	0.16	0.15	0.13	0.12	0.12
Light Medium Subtotal	34.56	34.55	36.21	37.27	38.51	39.66	40.31	40.44	40.50	40.59
Medium										
Diesel	25.58	25.08	26.48	27.63	29.16	30.65	31.68	32.49	33.32	34.21
Motor Gasoline	5.63	6.01	6.47	6.95	7.53	8.08	8.50	8.85	9.17	9.52
Propane	0.24	0.25	0.26	0.28	0.31	0.34	0.37	0.40	0.43	0.47
Compressed/Liquefied Natural Gas	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27
Medium Subtotal	31.73	31.59	33.47	35.13	37.27	39.33	40.82	42.00	43.19	44.47
Heavy										
Diesel	180.54	173.63	180.31	185.35	193.31	201.53	207.28	211.40	215.42	219.53
Motor Gasoline	4.83	4.62	4.46	4.29	4.17	4.07	3.96	3.86	3.81	3.80
Propane	0.63	0.57	0.53	0.50	0.47	0.45	0.43	0.40	0.38	0.37
Compressed/Liquefied Natural Gas	0.12	0.13	0.56	0.70	0.80	0.87	0.87	0.86	0.85	0.84
Heavy Subtotal	186.12	178.96	185.86	190.83	198.75	206.92	212.54	216.52	220.47	224.54
Total Vehicle Miles Traveled	252.40	245.10	255.54	263.22	274.53	285.90	293.66	298.96	304.16	309.60
Consumption (trillion Btu)										
Light Medium										
Diesel	207.30	207.86	223.39	234.06	245.40	255.70	261.70	263.51	265.40	266.75
Motor Gasoline	180.89	179.08	178.92	176.28	174.09	170.89	165.75	158.93	152.75	147.22
Propane	2.89	2.88	3.00	3.19	3.42	3.64	3.82	3.95	4.11	4.29
Compressed/Liquefied Natural Gas	2.99	2.69	2.55	2.46	2.39	2.20	1.99	1.78	1.63	1.51
Light Medium Subtotal	394.07	392.51	407.87	415.99	425.30	432.43	433.26	428.17	423.89	419.77
Medium										
Diesel	414.36	407.06	430.06	448.02	470.94	491.67	503.93	511.90	521.67	531.79
Motor Gasoline	110.93	118.74	128.16	137.95	149.30	159.62	167.31	173.15	179.01	184.92
Propane	4.62	4.68	4.93	5.33	5.87	6.38	6.84	7.29	7.81	8.40
Compressed/Liquefied Natural Gas	5.42	5.23	5.13	5.09	5.11	5.10	5.06	5.02	5.04	5.09
Medium Subtotal	535.33	535.71	568.28	596.40	631.22	662.78	683.14	697.36	713.53	730.20
Heavy										
Diesel	4127.92	3972.76	4125.60	4196.04	4324.54	4455.73	4511.90	4535.65	4565.58	4601.02
Motor Gasoline	112.68	107.87	104.23	100.16	97.53	95.14	92.67	90.43	89.33	89.04
Propane	14.56	13.18	12.20	11.42	10.89	10.36	9.80	9.24	8.80	8.50
Compressed/Liquefied Natural Gas	2.63	2.95	12.35	15.25	17.32	18.85	18.87	18.55	18.24	18.02
Heavy Subtotal	4257.79	4096.76	4254.37	4322.88	4450.28	4580.08	4633.25	4653.88	4681.94	4716.57
Light Medium, Medium, and Heavy Total										
Diesel	4749.59	4587.68	4779.05	4878.13	5040.88	5203.11	5277.53	5311.06	5352.65	5399.56
Motor Gasoline	404.49	405.68	411.31	414.39	420.92	425.66	425.73	422.52	421.09	421.18
Propane	22.07	20.74	20.13	19.94	20.18	20.38	20.46	20.48	20.72	21.18
Compressed/Liquefied Natural Gas	11.04	10.87	20.03	22.81	24.82	26.16	25.92	25.35	24.90	24.62
Total	**5187.19**	**5024.98**	**5230.52**	**5335.27**	**5506.80**	**5675.30**	**5749.64**	**5779.42**	**5819.37**	**5866.54**
Fuel Efficiency (miles per gallon)										
Light Medium										
Diesel	13.82	13.79	13.79	13.83	13.91	14.03	14.19	14.37	14.49	14.63
Motor Gasoline	9.33	9.42	9.50	9.59	9.68	9.77	9.87	9.98	10.07	10.18
Propane	8.87	9.06	9.27	9.48	9.69	9.88	10.07	10.24	10.36	10.50
Compressed/Liquefied Natural Gas	8.72	8.75	8.81	8.91	9.02	9.10	9.19	9.30	9.43	9.57
Light Medium Average	11.56	11.61	11.74	11.86	12.01	12.18	12.37	12.57	12.73	12.90
Medium										
Diesel	8.56	8.54	8.54	8.55	8.59	8.65	8.72	8.80	8.86	8.92
Motor Gasoline	6.35	6.33	6.31	6.30	6.31	6.33	6.36	6.39	6.41	6.44
Propane	6.61	6.61	6.63	6.65	6.69	6.74	6.79	6.85	6.89	6.93
Compressed/Liquefied Natural Gas	6.28	6.29	6.31	6.34	6.38	6.43	6.50	6.57	6.62	6.68
Medium Average	8.02	7.97	7.96	7.95	7.97	8.01	8.06	8.12	8.16	8.20
Heavy										
Diesel	6.07	6.06	6.06	6.13	6.20	6.27	6.37	6.46	6.54	6.62
Motor Gasoline	5.36	5.36	5.36	5.35	5.35	5.35	5.34	5.34	5.34	5.34
Propane	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.42	5.42
Compressed/Liquefied Natural Gas	5.55	5.60	5.69	5.73	5.75	5.77	5.79	5.81	5.83	5.85
Heavy Average	6.04	6.04	6.04	6.10	6.18	6.25	6.34	6.44	6.51	6.59
Average	6.69	6.70	6.71	6.78	6.85	6.92	7.02	7.11	7.19	7.26
Stock (millions)										
Light Medium										
Diesel	1.06	1.11	1.16	1.20	1.25	1.30	1.34	1.38	1.41	1.44
Motor Gasoline	0.96	0.94	0.92	0.90	0.89	0.87	0.86	0.84	0.82	0.80
Propane	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Compressed/Liquefied Natural Gas	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Light Medium Subtotal	2.06	2.08	2.10	2.14	2.17	2.20	2.23	2.25	2.26	2.27
Medium										

Freight Transportation Energy Use, Reference case

Technology and Fuel Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Diesel	1.43	1.44	1.46	1.48	1.52	1.56	1.59	1.63	1.67	1.70
Motor Gasoline	0.43	0.43	0.44	0.46	0.47	0.49	0.51	0.53	0.54	0.56
Propane	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Compressed/Liquefied Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Medium Subtotal	1.89	1.91	1.93	1.97	2.03	2.09	2.14	2.19	2.25	2.31
Heavy										
Diesel	4.59	4.62	4.64	4.68	4.74	4.80	4.86	4.92	4.98	5.03
Motor Gasoline	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.32	0.31	0.30
Propane	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Compressed/Liquefied Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Heavy Subtotal	5.01	5.03	5.04	5.07	5.12	5.18	5.23	5.28	5.33	5.37
Total Stock	8.96	9.02	9.08	9.18	9.32	9.46	9.59	9.72	9.83	9.95
New Trucks by Size Class										
Fuel Efficiency (miles per gallon)										
Light Medium										
Diesel	13.60	13.74	13.92	14.18	14.52	14.94	15.42	15.77	15.31	15.61
Motor Gasoline	10.10	10.16	10.25	10.36	10.50	10.68	10.88	11.03	10.88	11.06
Propane	10.12	10.19	10.27	10.39	10.54	10.73	10.94	11.10	10.90	11.14
Compressed/Liquefied Natural Gas	9.40	9.49	9.61	9.78	10.00	10.28	10.60	10.82	10.53	10.71
Light Medium Average	12.69	12.77	12.92	13.13	13.42	13.78	14.19	14.48	14.12	14.39
Medium										
Diesel	8.34	8.43	8.53	8.67	8.84	9.05	9.29	9.39	9.23	9.36
Motor Gasoline	6.17	6.20	6.24	6.30	6.38	6.47	6.57	6.65	6.55	6.66
Propane	6.65	6.68	6.72	6.78	6.86	6.96	7.08	7.17	7.05	7.16
Compressed/Liquefied Natural Gas	6.35	6.41	6.48	6.58	6.71	6.86	7.03	7.09	6.97	7.05
Medium Average	7.75	7.80	7.89	8.01	8.15	8.33	8.53	8.63	8.49	8.62
Heavy										
Diesel	6.04	6.06	6.08	6.68	6.70	6.74	7.09	7.08	7.04	7.07
Motor Gasoline	5.30	5.30	5.30	5.31	5.31	5.32	5.33	5.34	5.32	5.33
Propane	5.39	5.39	5.39	5.39	5.40	5.41	5.43	5.44	5.42	5.43
Compressed/Liquefied Natural Gas	5.76	5.77	5.78	5.84	5.86	5.89	5.96	5.97	5.94	5.96
Heavy Average	6.03	6.05	6.06	6.65	6.68	6.72	7.06	7.05	7.01	7.03
Average	6.82	6.70	6.74	7.27	7.30	7.38	7.72	7.72	7.64	7.68
Sales (millions)										
Light Medium										
Diesel	0.11	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10
Motor Gasoline	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Propane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed/Liquefied Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Medium Subtotal	0.15	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.13	0.13
Medium										
Diesel	0.08	0.09	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.12
Motor Gasoline	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Propane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed/Liquefied Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Medium Subtotal	0.11	0.12	0.13	0.14	0.15	0.15	0.15	0.16	0.16	0.16
Heavy										
Diesel	0.19	0.21	0.21	0.23	0.25	0.26	0.25	0.26	0.26	0.27
Motor Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Propane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed/Liquefied Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heavy Subtotal	0.20	0.22	0.23	0.25	0.27	0.27	0.26	0.27	0.28	0.28
Total Sales	0.45	0.47	0.48	0.52	0.56	0.56	0.55	0.57	0.57	0.58
Railroads										
Ton Miles by Rail (billion)	1745.53	1729.26	1521.08	1553.85	1558.54	1503.18	1556.29	1593.90	1612.07	1623.83
Fuel Efficiency (ton miles per thousand Btu)	3.39	3.43	3.46	3.48	3.51	3.53	3.56	3.58	3.61	3.64
Fuel Consumption (trillion Btu)										
Distillate Fuel Oil (diesel)	513.91	483.74	440.14	446.35	444.45	425.55	436.91	443.27	443.64	441.72
Residual Fuel Oil	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
Liquefied Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.49	1.49	2.98	4.96
Domestic Shipping										
Ton Miles Shipping (billion)	446.86	378.17	377.02	385.87	394.12	399.01	398.24	395.95	393.19	390.13
Fuel Efficiency (ton miles per thousand Btu)	4.64	4.68	4.72	4.75	4.79	4.83	4.87	4.91	4.94	4.98
Fuel Consumption (trillion Btu)										
Distillate Fuel Oil (diesel)	84.56	77.55	79.40	79.40	79.12	79.47	78.60	77.46	76.26	75.04
Residual Fuel Oil	26.01	18.63	17.47	18.11	18.76	18.79	18.56	18.27	17.95	17.63
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Natural Gas	0.00	0.00	0.07	0.15	0.22	0.30	0.37	0.44	0.51	0.57
International Shipping										
Gross Trade (billion 2005 dollars)	3146.67	3245.61	3307.12	3463.28	3642.27	3841.32	4034.75	4226.93	4421.33	4615.96
Exports (billion 2005 dollars)	1247.65	1300.38	1324.30	1395.01	1480.29	1587.36	1698.90	1817.67	1944.06	2073.54
Imports (billion 2005 dollars)	1899.02	1945.24	1982.82	2068.27	2161.98	2253.96	2335.85	2409.26	2477.28	2542.42
Fuel Consumption (trillion Btu)										
Distillate Fuel Oil (diesel)	45.06	43.23	44.01	43.69	43.38	43.45	43.51	43.58	43.63	43.68

Freight Transportation Energy Use, Reference case

Technology and Fuel Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Residual Fuel Oil	720.01	536.04	502.08	520.21	538.43	539.54	540.85	542.19	543.57	544.88
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MPG = Miles per gallon.
Btu = British thermal unit.
- - = Not applicable.
Note: Includes estimated consumption for petroleum and other liquids. Totals may not equal sum of components due to independent rounding.
Sources: 2011 and 2012 values derived using: Oak Ridge National Laboratory,
Transportation Energy Data Book: Edition 32 (Oak Ridge, TN, July 2013);
U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC02TV (Washington, DC, December 2004);
Federal Highway Administration, Highway Statistics 2011 (Washington, DC, February 2013); U.S. Department of
Transportation, Surface Transportation Board, Annual Reports R-1 Selected Schedules and Complete Annual Reports;
U.S. Department of Defense, U.S Army Corps of Engineers, 2011 Waterborne Commerce in the United States, Part 5;
and Energy Information Administration (EIA), AEO2014 National Energy Modeling System.
Projections: EIA, AEO2014 National Energy Modeling System.

U.S. Energy Information Agency, Annual Energy Outlook, 2014
Transportation Sector Energy Use by Fuel Type Within a Mode, Reference case
(trillion Btu)

Mode and Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Light-Duty Vehicle										
Motor Gasoline excluding E85 1/	15423.5	15373.9	15307.0	15067.1	14871.7	14744.5	14576.9	14366.8	14108.5	13850.2
E85 1/	2.7	13.9	18.5	21.4	17.1	36.4	77.5	115.5	156.5	187.9
Compressed/Liquefied Natural Gas	18.9	19.4	20.0	20.2	20.1	20.2	20.4	20.6	20.6	20.7
Propane	28.5	29.4	29.2	28.3	27.2	26.5	25.8	25.6	25.4	25.5
Electricity	0.6	1.2	1.9	2.8	3.9	4.7	5.4	6.2	6.8	7.3
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.7	0.9	1.1
Distillate Fuel Oil (diesel)	41.4	47.3	57.1	66.8	76.9	88.8	102.0	116.7	130.6	144.7
Total	**15515.5**	**15485.2**	**15433.7**	**15206.7**	**15017.0**	**14921.4**	**14808.4**	**14652.0**	**14449.3**	**14237.4**
Commercial Light Trucks 2/										
Motor Gasoline	322.2	323.4	323.2	321.6	324.9	327.0	326.1	323.6	319.5	315.7
Distillate Fuel Oil (diesel)	199.5	196.1	202.7	205.0	209.6	214.1	215.7	215.6	214.6	213.9
Total	**521.7**	**519.4**	**525.9**	**526.7**	**534.4**	**541.1**	**541.8**	**539.3**	**534.1**	**529.6**
Freight Trucks 3/										
Motor Gasoline	404.5	405.7	411.3	414.4	420.9	425.7	425.7	422.5	421.1	421.2
Distillate Fuel Oil (diesel)	4749.6	4587.7	4779.1	4878.1	5040.9	5203.1	5277.5	5311.1	5352.6	5399.6
Compressed/Liquefied Natural Gas	11.0	10.9	20.0	22.8	24.8	26.2	25.9	25.4	24.9	24.6
Propane	22.1	20.7	20.1	19.9	20.2	20.4	20.5	20.5	20.7	21.2
Total	**5187.2**	**5025.0**	**5230.5**	**5335.3**	**5506.8**	**5675.3**	**5749.6**	**5779.4**	**5819.4**	**5866.5**
Bus Transportation										
Transit Bus										
Motor Gasoline	11.1	11.2	11.3	11.2	11.1	11.1	11.1	11.1	11.0	11.0
Distillate Fuel Oil (diesel)	81.8	76.3	75.4	72.8	70.4	68.8	67.1	65.6	63.9	62.1
Compressed/Liquefied Natural Gas	9.0	11.4	13.9	16.2	18.3	20.3	22.3	24.2	26.3	28.4
Propane	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Transit Bus	102.0	99.0	100.7	100.3	99.9	100.2	100.6	100.9	101.3	101.6
Intercity Bus										
Motor Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Distillate Fuel Oil (diesel)	28.9	27.9	28.6	28.6	28.6	28.8	29.0	29.2	29.4	29.7
Compressed/Liquefied Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Intercity Bus	28.9	27.9	28.6	28.6	28.6	28.8	29.0	29.2	29.4	29.7

Transportation Sector Energy Use by Fuel Type Within a Mode, Reference case
(trillion Btu)

Mode and Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
School Bus										
Motor Gasoline	13.2	13.5	13.7	13.8	13.9	14.0	14.2	14.3	14.5	14.7
Distillate Fuel Oil (diesel)	98.3	95.1	97.8	97.9	98.0	99.0	100.0	101.0	102.1	103.1
Compressed/Liquefied Natural Gas	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7
Propane	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total School Bus	112.6	109.9	112.8	113.1	113.4	114.6	115.8	117.1	118.3	119.6
Total Bus	**243.5**	**236.8**	**242.2**	**242.0**	**241.9**	**243.6**	**245.4**	**247.2**	**249.0**	**250.9**

1/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

2/ Commercial trucks from 8,501 to 10,000 pounds.

3/ Does not include military distillate. Does not include commercial buses.

4/ Does not include passenger rail.

Btu = British thermal unit.

- - = Not applicable.

Note: Includes estimated consumption for petroleum and other liquids. Totals may not equal sum of components due to independent rounding.

Sources: 2011 and 2012 compressed and liquefied natural gas volumes: U.S. Energy Information Administration (EIA), AEO2014 National Energy Modeling System. Other 2011 and 2012 values derived using: EIA, Monthly Energy Review, DOE/EIA-0035(2013/09) (Washington, DC, September 2013); EIA, Fuel Oil and Kerosene Sales 2011, DOE/EIA-0535(2011) (Washington, DC, June 2013); EIA, State Energy Data System 2011, DOE/EIA-0214(2011) (Washington, DC, June 2013); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 32 (Oak Ridge, TN, July 2013); Department of Defense, Defense Fuel Supply Center, Factbook (January 2010); and EIA, AEO2014 National Energy Modeling System. Projections: EIA, AEO2014 National Energy Modeling System.

ARTBA Calculations for the model:

Vehicle consumption of gasoline in gallons	140,160,349	139,754,674	139,224,861	137,159,600	135,550,459	134,508,911	133,050,731	131,181,443	128,896,338	126,626,894
Vehicle consumption of diesel in gallons	45,055,969	43,591,170	45,412,524	46,354,473	47,871,891	49,415,573	50,185,860	50,599,970	51,067,856	51,586,029
% Change, light duty		-0.3%	-0.4%	-1.5%	-1.2%	-0.8%	-1.1%	-1.4%	-1.7%	-1.8%
% change, diesel		-3.3%	4.2%	2.1%	3.3%	3.2%	1.6%	0.8%	0.9%	1.0%

ARTBA Note: Conversion is 1 gallon gasoline =115,400 Btu-LHV, http://www.extension.iastate.edu/agdm/wholefarm/html/c6-87.htm

IRS, Statistics of Income Division, Publication 1304, July 2014

Table 1.2 All Returns: Adjusted Gross Income, Exemptions, Deductions, and Tax Items, by Size of Adjusted Gross Income and by Marital Status, Tax Year 2012

(All figures are estimates based on samples—money amounts are in thousands of dollars)

Size of adjusted gross income	All returns	Returns of married persons filing jointly	Returns of married persons filing separately	Returns of heads of households	Returns of surviving spouses	Returns of single persons
	Number of returns	Number of returns	Number of returns	Number of returns	Number of returns	Number of returns
	(1)	(14)	(27)	(40)	(53)	(66)
All returns, total	**144,928,472**	**53,718,396**	**2,663,017**	**21,814,184**	**77,021**	**66,655,855**
No adjusted gross income	2,128,548	649,242	100,723	80,008	2,253	1,296,321
$1 under $5,000	10,378,183	742,270	153,539	633,558	* 3,985	8,844,831
$5,000 under $10,000	11,958,135	1,082,806	145,241	1,817,998	* 2,987	8,909,102
$10,000 under $15,000	12,632,192	1,633,275	156,758	3,028,122	8,116	7,805,921
$15,000 under $20,000	11,615,578	1,954,372	173,404	3,141,608	* 4,949	6,341,245
$20,000 under $25,000	10,168,630	2,234,946	202,105	2,569,899	* 2,988	5,158,692
$25,000 under $30,000	8,734,480	2,097,107	191,319	2,112,536	* 1,687	4,331,831
$30,000 under $40,000	14,451,152	4,144,944	415,384	2,999,359	* 6,991	6,884,473
$40,000 under $50,000	10,873,672	3,817,484	327,871	1,761,729	15,169	4,951,418
$50,000 under $75,000	18,985,371	9,589,642	** 598,347	2,217,512	** 18,865	6,730,748
$75,000 under $100,000	12,103,891	8,484,178		776,697	**	2,673,273
$100,000 under $200,000	15,646,648	12,807,960	140,404	544,952	6,291	2,147,042
$200,000 under $500,000	4,154,112	3,550,133	41,743	105,839	2,426	453,971
$500,000 under $1,000,000	705,029	603,943	** 16,178	15,059	** 313	78,147
$1,000,000 under $1,500,000	169,413	142,111	**	4,206	**	20,233
$1,500,000 under $2,000,000	71,874	60,363	**	1,502	**	8,577
$2,000,000 under $5,000,000	106,711	87,501	**	2,469	**	14,162
$5,000,000 under $10,000,000	27,167	21,981	**	679	**	3,585
$10,000,000 or more	17,685	14,139	**	450	**	2,283
Taxable returns, total	**93,109,721**	**40,153,146**	**2,077,811**	**6,795,664**	**39,993**	**44,043,106**
No adjusted gross income	6,708	4,407	446	59	0	1,796
$1 under $5,000	260,338	* 12	* 999	0	0	259,327
$5,000 under $10,000	2,033,853	* 1,190	11,976	0	0	2,020,686
$10,000 under $15,000	5,025,180	* 1,042	110,581	12,161	0	4,901,396
$15,000 under $20,000	5,299,487	37,995	134,734	128,319	0	4,998,438
$20,000 under $25,000	5,388,034	616,347	177,339	203,144	0	4,391,204
$25,000 under $30,000	5,179,401	841,276	164,846	241,490	0	3,931,788
$30,000 under $40,000	10,288,411	1,966,733	380,990	1,284,704	* 993	6,654,992
$40,000 under $50,000	9,160,454	2,559,882	318,133	1,398,344	12,170	4,871,925
$50,000 under $75,000	17,797,395	8,629,705	** 583,561	2,085,997	** 17,816	6,646,745
$75,000 under $100,000	11,885,774	8,291,965	**	770,146	**	2,657,235
$100,000 under $200,000	15,552,998	12,735,509	137,884	542,395	6,287	2,130,924
$200,000 under $500,000	4,138,375	3,539,909	40,525	104,920	2,417	450,605
$500,000 under $1,000,000	702,156	602,115	** 15,799	14,816	** 310	77,592
$1,000,000 or more	391,157	325,059	**	9,170	**	48,451
Nontaxable returns, total	**51,818,751**	**13,565,250**	**585,206**	**15,018,519**	**37,028**	**22,612,749**

* Estimate should be used with caution due to the small number of sample returns on which it is based.

** Data combined to prevent disclosure of taxpayer information.

NOTE: Detail may not add to totals because of rounding.

Source: IRS, Statistics of Income Division, Publication 1304, July 2014

HTF Revenues by FY (in millions$)								
	2007	2008	2009	2010	2011	2012	2013	2014
Diesel and special motor fuels	$10,132	$10,532	$9,323	$9,136	$9,802	$9,797	$9,469	$10,184
Federal use tax	$1,032	$1,038	$963	$887	$364	$1,719	$1,091	$945
Gasoline	$25,418	$25,326	$24,627	$24,837	$24,986	$25,530	$23,463	$24,992
Tires	$461	$387	$314	$318	$441	$420	$359	$447
Trucks and trailers	$3,809	$1,446	$1,890	$1,562	$2,417	$3,855	$3,197	$3,645
Total excise taxes	$40,853	$38,728	$37,117	$36,740	$38,010	$41,321	$37,579	$40,213

Data for 2007 to 2013 from FHWA's Highway Statistics, Table FE-10

Data for 2013 and 2014 from U.S. Treasury report 69X8102

CBO's August 2014 report *An Update to the Budget and Economic Outlook: Fiscal Years 2014 to 2024.*
www.cbo.gov/publication/45653

August 2014 Baseline Forecast—Data Release (Calendar Year)

	Units	2012	2013	2014	2015	2016	2017	2018	2019	2020
Output										
Gross Domestic Product (GDP)	Billions of dollars	16245	16800	17336	18204	19169	20119	21009	21916	22855
	Percentage change	4.6	3.4	3.2	5.0	5.3	5.0	4.4	4.3	4.3
Gross National Product (GNP)	Billions of dollars	16498	17058	17595	18443	19384	20315	21206	22110	23053
	Percentage change	4.5	3.4	3.2	4.8	5.1	4.8	4.4	4.3	4.3
Potential GDP	Billions of dollars	16978	17497	18087	18739	19450	20249	21119	22031	22975
	Percentage change	3.3	3.1	3.4	3.6	3.8	4.1	4.3	4.3	4.3
Real GDP	Billions of 2009 dollars	15471	15761	16003	16514	17092	17607	18031	18445	18862
	Percentage change	2.8	1.9	1.5	3.2	3.5	3.0	2.4	2.3	2.3
Real GNP	Billions of 2009 dollars	15693	15985	16223	16708	17258	17749	18167	18572	18985
	Percentage change	2.7	1.9	1.5	3.0	3.3	2.9	2.4	2.2	2.2
Real Potential GDP	Billions of 2009 dollars	16168	16431	16701	17000	17343	17722	18125	18542	18961
	Percentage change	1.5	1.6	1.6	1.8	2.0	2.2	2.3	2.3	2.3
Prices										
Price Index, Personal Consumption Expenditures (PCE)	2009=100	106.0	107.2	108.9	110.8	112.8	114.8	117.0	119.3	121.7
	Percentage change	1.9	1.1	1.6	1.8	1.8	1.8	1.9	2.0	2.0
Price Index, PCE, Excluding food and energy	2009=100	104.6	105.9	107.4	109.3	111.4	113.5	115.7	118.0	120.3
	Percentage change	1.8	1.3	1.4	1.8	1.9	1.9	2.0	2.0	2.0
Consumer Price Index, All Urban Consumers (CPI-U)	1982-84=100	229.6	233.0	237.7	242.8	247.6	252.9	258.5	264.5	270.9
	Percentage change	2.1	1.5	2.0	2.2	2.0	2.1	2.2	2.3	2.4
CPI-U, Excluding Food and Energy	1982-84=100	229.8	233.8	238.0	243.1	248.4	254.0	259.9	265.8	271.9
	Percentage change	2.1	1.8	1.8	2.1	2.2	2.3	2.3	2.3	2.3
GDP Price Index	2009=100	105.0	106.5	108.3	110.2	112.1	114.3	116.5	118.8	121.2
	Percentage change	1.8	1.4	1.7	1.8	1.7	1.9	2.0	2.0	2.0
Employment Cost Index (ECI), Private Wages and Salaries	December 2005=100	116.1	118.2	120.3	123.6	127.8	132.5	137.3	142.2	147.2
	Percentage change	1.8	1.9	1.8	2.8	3.4	3.7	3.7	3.6	3.5
Refiners' Acquisition Cost of Crude Oil, Imported	Dollars per barrel	101.1	98.0	101.2	100.1	95.9	93.8	93.0	95.4	99.6
FHFA House Price Index, Purchase Only	1991Q1=100	185.8	200.1	210.5	217.3	221.5	226.7	232.6	238.9	246.5

Source: Congressional Budget Office.

Notes: Actual values reflect data released as of July 8, 2014. Forecast values are shaded.

FHFA = Federal Housing Finance Agency; IVA = inventory valuation adjustment; CCAdj = capital consumption adjustment.

U.S. Census Bureau, Population Division

Table 1. Projections of the Population and Components of Change for the United States: 2015 to 2060

(Resident population as of July 1. Numbers in thousands)

Year	Population	Numeric Change	Percent Change	Natural Increase	Vital Events		Net International Migration[1]
					Births	Deaths	
2015	321,369	2,621	0.82	1,380	3,999	2,619	1,241
2016	323,996	2,627	0.82	1,377	4,027	2,650	1,250
2017	326,626	2,630	0.81	1,374	4,055	2,681	1,256
2018	329,256	2,631	0.81	1,369	4,080	2,712	1,262
2019	331,884	2,628	0.80	1,361	4,104	2,743	1,267
2020	334,503	2,619	0.79	1,349	4,125	2,777	1,271

[1] Net international migration includes the international migration of both native and foreign-born populations. Specifically, it includes: (a) the net international migration of the foreign born, (b) the net international migration of the native born, and (c) the net migration between the United States and Puerto Rico.

Note: Data on population change and components of change refer to events occurring between July 1 of the preceding year and June 30 of the indicated year.

Suggested Citation:

Table 1. Projections of the Population and Components of Change for the United States: 2015 to 2060 (NP2014-T1)

Source: U.S. Census Bureau, Population Division

Release Date: December 2014

FHWA Highway Statistics, Table MF-2

MOTOR-FUEL VOLUME TAXED - 2012 1/

DECEMBER 2013 (THOUSANDS OF GALLONS) TABLE MF-2

STATE	GROSS VOLUME REPORTED 2/	VOLUME EXEMPT FROM PAYMENT OF TAX 3/	GROSS VOLUME ASSESSED FOR TAXATION	VOLUME SUBJECT TO REFUND OF ENTIRE TAX	NET VOLUME TAXED								
						AT PREVAILING RATES 4/							AT OTHER RATES 5/
						GASOLINE		SPECIAL FUELS		ALL MOTOR FUELS			
					NET TOTAL VOLUME 2012	VOLUME 2012	PERCENT CHANGE FROM PRIOR YEAR	VOLUME 2012	PERCENT CHANGE FROM PRIOR YEAR	VOLUME 2011	VOLUME 2010	PERCENT CHANGE FROM PRIOR YEAR	
Alabama	3,307,978	42,613	3,265,365	13,699	3,251,666	2,542,344	-0.5	706,646	-1.5	3,248,990	3,273,102	-0.7	2,676
Alaska	446,600	49,437	397,163	2,618	394,545	280,048	36.9	112,347	-34.1	392,395	375,057	4.6	2,150
Arizona	3,383,173	49,825	3,333,348	16,540	3,316,808	2,558,153	-0.3	750,939	-1.9	3,309,092	3,332,196	-0.7	7,716
Arkansas	2,041,618	27,469	2,014,149	2,036	2,012,113	1,405,723	10.1	606,390	0.6	2,012,113	1,880,036	7.0	-
California	17,274,042	1,864	17,272,178	25,601	17,246,577	14,504,794	-0.7	2,613,485	-0.4	17,118,279	17,233,778	-0.7	128,298
Colorado	2,695,416	72,292	2,623,124	13,121	2,610,003	2,060,934	0.9	544,457	2.6	2,605,391	2,573,404	1.2	4,612
Connecticut	1,718,822	17,185	1,701,637	7,991	1,693,646	1,424,208	-1.4	269,438	-2.3	1,693,646	1,720,126	-1.5	-
Delaware	497,607	13,574	484,033	387	483,646	426,487	-0.4	57,159	1.2	483,646	484,529	-0.2	-
Dist. of Col.	115,542	19,976	95,566	-	95,566	86,936	-11.5	8,630	-2.3	95,566	107,066	-10.7	-
Florida	9,510,138	13,285	9,496,853	4,185	9,492,668	7,948,998	0.4	1,353,561	0.6	9,302,559	9,262,678	0.4	190,109
Georgia	5,821,667	-	5,821,667	-	5,821,667	4,686,476	-0.6	1,130,190	-5.2	5,816,666	5,908,553	-1.6	5,001
Hawaii	500,593	4,868	495,725	-	495,725	445,424	-4.5	50,301	3.1	495,725	514,986	-3.7	-
Idaho	963,271	13,816	949,455	18,513	930,942	670,513	1.8	258,660	0.8	929,173	915,245	1.5	1,769
Illinois	6,077,115	43,229	6,033,886	39,478	5,994,408	4,602,978	-1.4	1,391,430	-4.5	5,994,408	6,125,442	-2.1	-
Indiana	4,280,549	43,137	4,237,412	27,122	4,210,290	2,949,086	-0.6	1,261,204	1.9	4,210,290	4,205,628	0.1	-
Iowa	2,295,130	-	2,295,130	130,229	2,164,901	1,509,163	-1.3	653,394	0.8	2,162,557	2,177,045	-0.7	2,344
Kansas	1,782,267	50,351	1,731,916	4,438	1,727,478	1,252,192	-0.3	475,286	1.5	1,727,478	1,723,984	0.2	-
Kentucky	2,915,365	1,138	2,914,227	4,135	2,910,092	2,142,464	-0.9	767,628	-0.7	2,910,092	2,934,470	-0.8	-
Louisiana	2,922,936	34,115	2,888,821	91	2,888,730	2,213,547	-2.5	673,382	-10.6	2,886,929	3,022,394	-4.5	1,801
Maine	863,367	29,321	834,046	6,649	827,397	650,906	-2.7	175,649	1.6	826,555	841,667	-1.8	842
Maryland	3,235,734	11,807	3,223,927	21,620	3,202,307	2,702,217	1.9	498,716	-2.1	3,200,933	3,162,343	1.2	1,374
Massachusetts	3,203,021	15,128	3,187,893	18,774	3,169,119	2,757,585	-0.6	411,534	2.1	3,169,119	3,176,367	-0.2	-
Michigan	5,300,799	6,559	5,294,240	64,724	5,229,516	4,387,426	-1.0	840,185	2.1	5,227,611	5,253,531	-0.5	1,905
Minnesota	3,269,828	85,783	3,184,045	26,635	3,157,410	2,464,680	3.7	690,567	5.0	3,155,247	3,035,547	3.9	2,163
Mississippi	2,235,823	33,462	2,202,361	-	2,202,361	1,623,635	3.6	578,539	4.6	2,202,174	2,119,725	3.9	187
Missouri	4,079,892	34,161	4,045,731	20,918	4,024,813	3,056,538	-0.4	968,275	-1.3	4,024,813	4,049,141	-0.6	-
Montana	768,461	-	768,461	6,461	762,000	497,746	2.5	262,303	3.2	760,049	739,865	2.7	1,951
Nebraska	1,263,505	2,156	1,261,349	1,004	1,260,345	830,706	1.0	417,752	-0.8	1,248,458	1,243,703	0.4	11,887
Nevada	1,383,568	7,494	1,376,074	1,507	1,374,567	1,080,391	0.0	292,460	0.5	1,372,851	1,371,529	0.1	1,716
New Hampshire	792,121	5,398	786,723	3,818	782,905	690,075	-0.8	92,157	-0.6	782,232	788,576	-0.8	673
New Jersey	4,848,202	-	4,848,202	7,737	4,840,465	4,061,216	-2.1	779,249	-2.6	4,840,465	4,947,745	-2.2	-
New Mexico	1,484,026	88,902	1,395,124	-	1,395,124	899,390	0.7	495,734	-0.1	1,395,124	1,389,238	0.4	-
New York	6,791,924	316,776	6,475,148	70,862	6,404,286	5,326,588	-1.9	1,077,698	2.5	6,404,286	6,480,214	-1.2	-
North Carolina	5,273,578	86,651	5,186,927	144,837	5,042,090	4,090,667	-2.0	929,757	-3.4	5,020,424	5,134,883	-2.2	21,666
North Dakota	817,023	2,720	814,303	3,711	810,592	431,587	6.9	377,098	18.2	808,685	722,717	11.9	1,907
Ohio	6,446,837	61,434	6,385,403	32,370	6,353,033	4,888,869	0.7	1,423,606	-3.2	6,312,475	6,326,333	-0.2	40,558
Oklahoma	2,741,267	61,434	2,679,833	5,123	2,674,710	1,911,562	5.5	816,508	3.4	2,728,070	2,601,608	4.9	-
Oregon 6/	1,982,194	-	1,982,194	959	1,981,235	1,464,646	-1.4	513,432	-1.1	1,978,078	2,004,520	-1.3	3,157
Pennsylvania	6,570,120	168,169	6,401,951	6,098	6,395,853	4,944,591	-2.9	1,447,904	7.3	6,392,495	6,441,583	-0.8	3,358
Rhode Island	422,883	3,124	419,759	3,905	415,854	362,515	-1.1	53,339	-3.9	415,854	422,103	-1.5	-
South Carolina	3,302,631	20,672	3,281,959	9	3,281,950	2,559,307	-1.0	722,643	1.0	3,281,950	3,301,154	-0.6	-
South Dakota	693,687	11,064	682,623	-	682,623	454,305	4.5	228,318	9.7	682,623	642,760	6.2	-
Tennessee	4,050,125	52,358	3,997,767	40,857	3,956,910	3,073,962	-0.7	882,948	-1.4	3,956,910	3,990,891	-0.9	-
Texas	16,887,010	106,394	16,780,616	5,594	16,775,022	12,387,543	1.7	4,387,479	6.6	16,775,022	16,300,130	2.9	-
Utah	1,514,422	40,962	1,473,460	811	1,472,649	1,049,165	-0.8	423,484	-11.7	1,472,649	1,537,595	-4.2	-
Vermont	376,715	1,182	375,533	-	375,533	315,543	-1.8	59,990	2.1	375,533	380,203	-1.2	-
Virginia	4,937,371	43,237	4,894,134	59,766	4,834,368	3,883,875	3.0	944,469	6.7	4,828,344	4,655,156	3.7	6,024
Washington	3,314,509	30,697	3,283,812	81,217	3,202,595	2,574,550	-0.5	624,539	0.9	3,199,089	3,206,925	-0.2	3,506
West Virginia	1,102,522	-	1,102,522	6,757	1,095,765	800,979	-2.0	294,786	3.9	1,095,765	1,100,920	-0.5	-
Wisconsin	3,260,621	33,841	3,226,780	32,862	3,193,918	2,441,393	-0.3	752,525	8.8	3,193,918	3,141,595	1.7	-
Wyoming	734,996	(564)	735,560	-	735,560	337,193	9.6	362,759	13.0	699,952	628,763	11.3	35,608
Total	172,498,611	1,858,496	170,640,115	985,769	169,654,346	132,711,819	0.0	36,510,929	0.9	169,222,748	168,908,751	0.2	484,958
Percentage	100.0	1.1	98.9	0.6	98.4	76.9	-	21.2	-	98.1	-	-	0.3

1/ This table includes data on all motor fuels subject to State motor-fuel taxes except special fuels (fuels other than gasoline and gasohol) used for nonhighway purposes. It is not intended to reflect the amount of fuel used on highways. For some States, data are not comparable to prior years due to changes in data analysis and/or improvements in reporting procedures. All data are subject to further review and revision.

2/ Export sales and other amounts not consumed as motor fuel in the State have been excluded wherever possible.

3/ Includes Federal use, other public use, certain transit use, nonhighway use where initial exemptions rather than refunds were made, and allowances for evaporation and other losses.

4/ Tax rates are as of December 31, 2012.

5/ In some States, fuel used for specific purposes is taxed or refunded at rates other than the prevailing rates shown in Table MF-121T. In the case of aviation fuel, only aviation gasoline is included.

6/ Vehicles consuming special fuels and paying mileage tax to the Public Utility Commissioner are not required to pay the motor-fuel tax. Fuel volume reported here includes only the volume on which the motor-fuel tax has been paid. For total highway use of special fuels, see table MF-21.