

Light Duty CAFE Credit Status for Model Years 2008 - 2012

December 17, 2014

NHTSA requires manufacturers of passenger cars and light trucks produced for sale in the U.S. to meet Corporate Average Fuel Economy (“CAFE”) standards, expressed in miles per gallon (mpg). NHTSA sets separate standards each model year for passenger cars and for light trucks, and manufacturers’ compliance obligations are based on the vehicles that they produce for sale in that year. Once a manufacturer’s CAFE standard is calculated for each of its fleets, based on the vehicles it produced, NHTSA compares the manufacturer’s actual mpg against the applicable standard. If a manufacturer’s actual average mpg level for a given fleet exceeds the applicable standard, then the manufacturer earns “credits.” A credit is earned for each 1/10 of an mpg between the fleet’s standard mpg and the actual average mpg, and total credits are calculated as the number of tenths of an mpg times the number of vehicles in the fleet. On the other hand, if a manufacturer’s actual average mpg level for a given fleet does not meet the applicable standard, then the manufacturer has a “shortfall” for that fleet. Shortfalls can be satisfied in several ways: manufacturers can "carry forward" credits earned in a prior model year; “transfer” credits from one of their fleets to the fleet with the shortfall; “trade” for credits (purchase credits) from another manufacturer; provide NHTSA with a plan to make up the difference in the next three years; or pay a civil penalty. Because fuel economy performance is calculated annually, CAFE credits and shortfalls are also calculated annually.

The following list identifies the credit holdings, by year, for manufacturers of vehicles subject to the CAFE program. We note that when a manufacturer shows a zero credit balance, then the manufacturer exactly complied with the standard; had a shortfall and used a compliance flexibility; or earned credits and used those credits as part of a compliance flexibility. Manufacturers showing a blank rather than a zero either did not build vehicles subject to the listed standard in the given model year, or an explanation is provided in a footnote. Each manufacturer showing a negative credit balance has submitted a plan to NHTSA indicating how it plans to comply by exercising one of the available credit flexibilities.

Credits = (CAFE – Standard) * Production * 10

Manufacturer	Fleet	2008	2009	2010	2011	2012
Aston Martin¹	IP					
BMW	IP	0	836,250	1,867,281	0	0
	LT	0	0	0	0	(583,428)
BYD	IP					21,813
CODA	IP					251,275
Daimler	IP	0	0	0	0	0

¹ Petition for alternative standard is pending

Manufacturer	Fleet	2008	2009	2010	2011	2012
Daimler	LT	0	0	0	0	0
Fiat Chrysler²	DP	5,653,155	1,319,280	2,876,264	3,356,024	0
	DP Bank				23,702,314	26,571,662
	IP	0	0	0	0	0
	IP Bank					2,551,653
	LT	0	2,781,271	6,401,912	0	0
	LT Bank				3,636,132	3,759,896
Ford³	DP	18,198,882	16,847,920	36,375,648	24,123,853	26,139,750
	IP	7,274,956	31,618	0	0	0
	IP Bank					1,210,000
	LT	13,928,915	8,767,635	7,587,839	5,829,495	701,227
General Motors	DP	26,548,074	32,872,432	24,936,978	17,466,624	7,246,220
	IP	4,308,680	2,699,424	2,694,672	2,505,762	
	LT	15,447,237	10,136,104	23,344,950	5,449,455	0
Honda	DP	36,453,015	41,356,920	41,660,735	499	16,648,837
	IP	28,306,860	16,471,335	22,991,854	3,442,108	2,258,737
	LT	18,368,430	11,928,630	16,271,310	500	3,147,900
Hyundai⁴	IP	18,109,631	21,165,342	27,630,592		
	LT	3,488,027	2,550,156	5,636,605		
Jaguar Land Rover	IP	0	0	0	0	0
	LT	0	0	0	0	0
Kia⁵	IP	10,327,544	11,969,342	19,990,880		
	LT	2,046,205	1,552,775	620,356		
Lotus	IP	0	0	0	0	0
Mazda	DP		1,145,616		15,526	

² Fiat includes Alfa Romeo, Chrysler, Ferrari and Maserati

³ Ford included Volvo for MY 2008 and 2009

⁴ Hyundai credits cannot be calculated for MY 2011 or MY 2012 because EPA Final Reports have not been received

⁵ Kia credits cannot be calculated for MY 2011 or MY 2012 because EPA Final Reports have not been received

Manufacturer	Fleet	2008	2009	2010	2011	2012
Mazda	IP		2,797,962	13,387,185	5,617,262	7,322,320
	LT		1,604,552	3,150,208	0	0
McLaren⁶	IP					
Mitsubishi	IP	1,917,500	2,352,799	1,925,910	1,813,838	259,635
	LT	528,616	514,022	783,180	0	0
Nissan⁷	DP				2,304,651	12,056,393
	IP				0	2,592,874
	LT	0	2,937,311	4,247,124	0	0
Subaru	DP	394,320		1,666,848		
	IP	855,672	1,170,093	532,000	0	1,804,584
	LT	3,962,208	7,127,298	11,317,086	7,853,840	3,441,060
Suzuki	IP	2,249,241	1,292,668	1,435,052	581,700	0
	LT	312,960	253,650	244,384	0	0
Tesla⁸	DP					7,164,504
Toyota	DP	31,305,105	21,098,200	75,723,455	31,937,216	29,691,134
	IP	71,504,532	94,862,873	93,303,414	39,697,080	69,435,487
	LT	8,926,512	16,642,133	22,424,142	7,022,673	0
Volkswagen⁹	DP					1,529,328
	IP	0	9,311,857	15,911,604	8,593,792	0
	LT	0	0	719,074	712,580	77,809
Volvo¹⁰	IP			0	0	(523,750)
	LT			0	0	(194,320)

⁶ Petition for alternative standard is pending

⁷ Nissan IP and DP fleets were exempt from two-fleet rule for model years 2006 - 2010

⁸ Per 40 CFR 600.001(b)(1) Manufacturers that produce only electric vehicles were exempt from submitting CAFE information for MYs 2008 - 2011 and Tesla confirmed it did not intend to sell credits from these years. As such an EPA Final Report was not produced.

⁹ Volkswagen includes Audi and Porsche

¹⁰ Included with Ford for MY 2008 and 2009

Light Duty CAFE Credit Status (In Gallon Equivalents) for Model Years 2008 – 2012

December 17, 2014

Reporting CAFE energy savings by credits calculated in tenths of an mpg may not give the public a clear sense of how much energy consumption is affected by the CAFE standards. Therefore, NHTSA has translated manufacturers' credit holdings to actual gallons of fuel saved. For purposes of determining the gallon-equivalent value of credits, NHTSA established in 49 CFR Part 536 that the vehicle miles traveled (VMT) for MY 2012 was 177,238 for passenger cars and 208,471 for light trucks, and for MY 2013 was 150,922 for passenger cars and 172,552 for light trucks (see equation below). Because the VMT for cars and trucks for model years prior to 2011 vehicles are not defined, we used the same values for MY 2008-2010 for purposes of this report. On-road fuel economy tends to be about 20% lower than calculated for CAFE compliance due to differences between real-world driving and test procedure driving. To account for this difference, NHTSA multiplies the standard and CAFE value by 0.8.

When a manufacturer shows a zero, blank or negative gallon equivalent then the same explanation provided in the Credit Status Report above applies. Similarly, the footnotes provided in the Credit Status Report are still applicable to the manufacturers listed in the table below.

Gallons Saved = (VMT/(CAFE x ORA)) – (VMT/(Standard x ORA)) x Production

Disclaimer: This report may not represent consumer fuel savings

Manufacturer	Fleet	2008	2009	2010	2011	2012
Aston Martin	IP					
BMW	IP	0	19,781,900	44,478,185	0	0
	LT	0	0	0	0	(23,300,348)
BYD	IP					66,045
CODA	IP					615,406
Daimler	IP	0	0	0	0	0
	LT	0	0	0	0	0
Fiat Chrysler	DP	132,358,898	32,207,761	69,722,376	74,808,857	0
	DP Bank				421,227,042	508,331,487
	IP	0	0	0	0	0
	IP Bank					46,018,608
	LT	0	108,658,433	241,805,166	0	0

Fiat Chrysler	LT Bank				116,499,898	133,500,463
Ford	DP	414,770,714	366,915,120	765,460,896	467,030,476	488,609,587
	IP	160,472,217	785,878	0	0	0
	IP Bank					20,864,756
	LT	565,786,756	332,786,259	290,211,901	221,094,387	31,073,677
General Motors	DP	615,277,706	720,472,434	555,421,870	354,405,684	151,531,179
	IP	93,834,719	61,116,482	53,272,896	45,814,912	
	LT	652,784,982	411,724,345	858,528,946	223,187,177	0
Honda	DP	694,641,658	827,149,361	821,254,108	8,869	289,963,383
	IP	579,664,576	289,730,399	385,638,652	50,233,022	40,803,778
	LT	690,524,909	426,744,656	557,249,739	16,020	111,770,673
Hyundai	IP	363,256,477	425,795,221	522,171,826		
	LT	130,613,289	91,935,875	172,448,132		
Jaguar Land Rover	IP	0	0	0	0	0
	LT	0	0	0	0	0
Kia	IP	210,856,818	233,269,245	374,697,416		
	LT	81,055,272	57,994,466	22,154,911		
Lotus	IP	0	0	0	0	0
Mazda	DP		25,852,072		296,166	
	IP		58,878,140	271,708,006	102,125,024	126,263,159
	LT		56,323,572	108,290,440	0	0
McLaren	IP					
Mitsubishi	IP	43,847,414	53,093,470	41,287,243	33,056,569	5,020,378
	LT	20,515,913	17,516,574	26,330,620	0	0
Nissan	DP				40,946,504	230,645,873
	IP				0	47,857,634
	LT		106,717,302	156,551,683	0	0
Subaru	DP	9,327,831		35,401,637		
	IP	20,311,376	27,489,535	12,628,264	0	33,319,533
	LT	139,130,426	233,506,023	350,917,521	209,486,885	103,521,303

Suzuki	IP	48,829,107	27,118,716	28,452,564	10,347,772	0
	LT	12,658,667	9,251,517	8,528,628	0	0
Tesla	DP					18,911,070
Toyota	DP	631,634,901	445,340,215	1,403,972,393	577,608,632	543,492,342
	IP	1,280,750,888	1,651,695,261	1,435,134,310	571,287,704	986,485,735
	LT	358,039,865	593,097,001	788,564,961	243,406,772	0
Volkswagen	DP					31,320,779
	IP	0	204,744,184	327,792,943	155,779,150	0
	LT	0	0	26,189,982	21,813,281	2,812,538
Volvo	IP			0	0	(12,095,725)
	LT			0	0	(7,354,772)