

# **Mazda Motor Corporation**

## 2020 Pre-Model Year Automotive Fuel Economy Report

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ATTACHMENT I NHTSA CAFE Projections Reporting Template

File Name: NHTSA CAFE Projections Reporting Template  
v1.0\_██████████2020Pre\_Mazda.xlsm

**Note:**

For the official CAFE fleet average values, please refer to the ATTACHMENT IV CAFE Credits Balance Chart.

There were discrepancies between the values automatically calculated by the template and those calculated by Mazda. Mazda is checking them with NHTSA, but they are not resolved yet. Therefore, for the report this time, we would like you to regard the values calculated by Mazda as the official ones.

ATTACHMENT II Fuel Economy Methodology Used in Projecting CAFE

ATTACHMENT III Addendum to the Report

ATTACHMENT IV CAFE Credits Balance Chart

## Fuel Economy Methodology Used in Projecting CAFE Values

### Derived Fuel Economy Values

As provided for by 49 CFR §537.9 (a) (2) and (3), Mazda has used data substitutions where no EPA-approved or Mazda test results exist at the appropriate sub-configuration level for minimum test requirements. These values were derived from a base configuration (ETW), axle ratio, road load horsepower, etc., and engineering judgment.

## Addendum to the Report

The information contained in this report is, to the best of Mazda's knowledge, accurate and complete. In accordance with 49 CFR §537.7 (b) (2), (4) and (5), this report is filed subject to the following provisions:

Based on currently available information, we believe that the projected average fuel economy set forth in this report sufficiently represents Mazda Motor Corporation's average fuel economy for the 2020 model year. If changes in consumer demand or other unforeseen events cause a significant shift in Mazda's production/sales mix, Mazda reserves the right to adjust its projections accordingly.

### CAFE Credits Balance Chart

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Date of Transaction	Model Year	Transaction	Category	Fleet Average Compliance Level			Fuel Consumption Improvement							Total Fleet Average CAFE Credits / Deficits [(B)-(A)]+(C)+(I)+(J)
				Applicable Standards (A)	Domestic PC Min. Standard	AFE <sub>pc</sub> for PC category (B)	Production Volume (C)	A/C Efficiency Credits	FCV <sub>LC</sub> g/mile <sub>2009</sub>	Off-Cycle Technology Credits	FCV <sub>OC</sub>	Full-Size Pickup Truck Credits	FCV <sub>FD</sub>	
3/28/2010 (LCE-10031) 4/13/2010 (LCE-10036)	2009	Earned	Car_Import	27.5	---	32.8	54,862	---	---	---	---	---	---	2,797,962
		Earned	Car_Domestic	27.5	---	30.4	39,504	---	---	---	---	---	---	1,145,616
		Earned	Truck	23.1	---	26.6	54,506	---	---	---	---	---	---	1,907,780
3/30/2011 (LCE-11043)	2010	Earned	Car_Import	27.5	---	33.8	212,495	---	---	---	---	---	---	13,387,165
		Earned	Car_Domestic	---	---	---	---	---	---	---	---	---	---	0
		Earned	Truck	23.5	---	28.7	96,444	---	---	---	---	---	---	3,150,208
3/28/2012 (LCE-12042)	2011	Earned	Car_Import	30.7	---	33.8	181,202	---	---	---	---	---	---	5,617,262
		Earned	Car_Domestic	31.1	27.8	31.8	2,218	---	---	---	---	---	---	15,528
		Earned	Truck	25.6	---	24.7	33,692	---	---	---	---	---	---	-303,228
3/15/2013 (LCE-13037)	2012	Earned	Car_Import	33.9	---	37.9	213,306	---	---	---	---	---	---	8,532,320
		Earned	Car_Domestic	---	30.7	---	---	---	---	---	---	---	---	0
		Earned	Truck	27.2	---	27.8	65,696	---	---	---	---	---	---	394,176
3/28/2014 (LCE-14035) 3/31/2014 (LCE-14041)	2013	Earned	Car_Import	34.8	---	39.4	184,862	---	---	---	---	---	---	7,583,852
		Earned	Car_Domestic	---	31.4	---	---	---	---	---	---	---	---	0
		Earned	Truck	28.1	---	30.4	61,093	---	---	---	---	---	---	1,405,138
3/26/2015 (LCE-15042)	2014	Earned	Car_Import	34.4	---	41.5	217,333	---	---	---	---	---	---	15,430,643
		Earned	Car_Domestic	---	32.1	---	---	---	---	---	---	---	---	0
		Earned	Truck	28.9	---	31.4	78,828	---	---	---	---	---	---	1,970,850
3/30/2016 (LCE-16045)	2015	Earned	Car_Import	35.5	---	41.9	207,100	---	---	---	---	---	---	13,254,400
		Earned	Car_Domestic	---	33.3	---	---	---	---	---	---	---	---	0
		Earned	Truck	30.0	---	31.6	78,793	---	---	---	---	---	---	1,260,888

Credit Transactions								Model Year Credit Balance	
Transfer From				Transfer To				Model Year Total CREE CREDIT Status	Available Model Years
Company	Model Year	Fleet	No. of Credits	Company	Model Year	Fleet	No. of Credits		
								megagrams	megagrams
					Expired in 2014MY			-2,797,962	0 up to and incl. 2014MY
					Expired in 2014MY			-1,145,616	0 up to and incl. 2014MY
				Mazda	2011 Truck			-303,228	0 up to and incl. 2014MY
					Expired in 2014MY			-1,604,552	
					Expired in 2015MY			-13,387,165	0 up to and incl. 2015MY
					Expired in 2015MY			0	0 up to and incl. 2015MY
					Expired in 2015MY			-3,150,208	0 up to and incl. 2015MY
					Expired in 2016MY			-5,617,262	0 up to and incl. 2016MY
					Expired in 2016MY			-15,528	0 up to and incl. 2016MY
Mazda	2009 Truck		303,228						0 up to and incl. 2016MY
				Ford Motor Company PC	2012 PC			-1,210,000	Trade, 8/1/2013
					Expired in 2017MY			-7,322,320	0 up to and incl. 2017MY
					Expired in 2017MY			0	0 up to and incl. 2017MY
				Jaguar Land Rover LT	2012 Truck			-394,176	0 Trade, 4/17/2014
					2018 Car_Import			-2,432,804	
					Expired in 2018MY			-5,150,848	0 up to and incl. 2018MY
					Expired in 2018MY			0	0 up to and incl. 2018MY
					Expired in 2018MY			-1,405,138	0 up to and incl. 2018MY
					2019 Car_Import			-5,707,435	
					Expired in 2019MY			-8,723,208	0 up to and incl. 2019MY
					Expired in 2019MY			0	0 up to and incl. 2019MY
					Expired in 2019MY			-1,970,850	0 up to and incl. 2019MY
					2020 Car_Import			-6,917,850	
					2020 Car_Domestic			-331,028	6,005,524 up to and incl. 2020MY
									0 up to and incl. 2020MY
					2020 Truck			-644,960	615,828 up to and incl. 2020MY

### CAFE Credits Balance Chart

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Date of Transaction	Model Year Transaction	Category	Fleet Average Compliance Level			Fuel Consumption Improvement								Total Fleet Average CAFE Credits / Deficits (B)(1)-(C)(1)+16
			Applicable Standards (A)	Domestic PC Min. Standard	AFE for PC category (B)	Production Volume (C)	AG Efficiency Credits	FCV <sub>LC</sub> (grams/mile)	Off-Cycle Technology Credits	FCV <sub>OC</sub>	Full-Size Pickup Truck Credits	FCV <sub>PU</sub>		
			mi/gallon	mi/gallon	mi/gallon	units	megagrams	gallon/mile	megagrams	gallon/mile	megagram	gallon/mile		
3/22/2017 (LCE-17048)	Earned	Car_Import	37.3	--	42.1	305,635	--	--	--	--	--	--	14,670,480	
	2018 Earned	Car_Domestic	--	34.7	--	--	--	--	--	--	--	--	0	
	Earned	Truck	31.4	--	34.2	153,192	--	--	--	--	--	--	4,289,376	
3/15/2018 (LCE-18043) 2/26/2019 (LCE-18028)	Earned	Car_Import	39.4	--	40.4	182,534	--	--	6,337	0.00020006	--	--	1,825,340	
	2017 Earned	Car_Domestic	--	36.7	--	--	--	--	--	--	--	--	0	
	Earned	Truck	32.3	--	33.8	74,414	--	--	6,137	0.00054476	--	--	1,116,210	
3/15/2019 (LCE-19033) 4/22/2019 (LCE-19058)	Earned	Car_Import	40.6	--	38.4	110,582	0	0.000000000	50,303	0.000262139	--	--	-2,432,804	
	2018 Earned	Car_Domestic	41.2	38.0	41.8	93,239	0	0.000000000	24761.9	0.000153158	--	--	559,434	
	Earned	Truck	32.8	--	34.4	119,014	0	0.000000000	117,937	0.000510852	--	--	1,840,224	
7/17/2019 (M-19024) (2019MY Mid CAFE Report Projected Values)	Projection	Car_Import	42.8	--	39.1	154,255	0	0.000000000	62,540	0.000233637	--	--	-5,707,435	
	2019 Projection	Car_Domestic	--	39.4	--	--	--	--	--	--	--	--	0	
	Projection	Truck	33.6	--	33.9	131,671	0	0.000000000	122,455	0.000463321	--	--	395,013	
2020 (2020MY Pre CAFE Report Projected Values)	Projection	Car_Import	43.7	--	38.7	138,357	0	0.000000000	63,242	0.000263407	--	--	-6,917,850	
	2020 Projection	Car_Domestic	45.1	40.9	38.6	15,299	0	0.000000000	5189.0	0.000195453	--	--	-894,435	
	Projection	Truck	34.9	--	34.5	161,215	0	0.000000000	172,051	0.000531615	--	--	-644,660	

Credit Transactions								Model Year Credit Balance	
Transfer From				Transfer To				Model Year Total CREE Credit Status	Available Model Years
Company	Model Year	Fleet	No. of Credits	Company	Model Year	Fleet	No. of Credits		
								14,670,480 up to and incl. 2021MY	
								0 up to and incl. 2021MY	
								4,289,376 up to and incl. 2021MY	
								1,825,340 up to and incl. 2022MY	
								0 up to and incl. 2022MY	
								1,116,210 up to and incl. 2022MY	
Mazda	2013	Car_Import	2,432,804					0 up to and incl. 2023MY	
					2020	Car_Domestic	-559,434	0 up to and incl. 2023MY	
								1,840,224 up to and incl. 2023MY	
Mazda	2014	Car_Import	5,707,435					0 up to and incl. 2024MY	
								0 up to and incl. 2024MY	
								395,013 up to and incl. 2024MY	
Mazda	2015	Car_Import	6,917,850					0 up to and incl. 2025MY	
Mazda	2015	Car_Import	305,980						
Mazda	2018	Car_Domestic	559,434					-129,021 up to and incl. 2025MY	
Mazda	2015	Truck	644,860					0 up to and incl. 2025MY	

Total CAFE Credits Balance at the end of 2020MY (Passenger Car_Import)	32,801,341
Total CAFE Credits Balance at the end of 2020MY (Passenger Car_Domestic)	-129,021
Total CAFE Credits Balance at the end of 2020MY (Truck)	8,256,681