

# Mazda Motor Corporation

## 2017 Mid-Model Year Automotive Fuel Economy Report

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Mid-Model Year Report for Model Year 2017

1. Information for the Passenger Automobiles

1-1. Projected Average Fuel Economy:

	Before Adjust	After Adjust (c=0.0014)	Rounded to 1 decimal place	MFR Projected Reformed CAFE Standard
Import CAFE	38.6740	38.9850	39.0	39.1
Domestic CAFE	42.1665	42.7379	42.7	39.8

1-2. Model type and configuration fuel economy and technical information

1-2-1. By Model Type

1-2-1-1. Combined fuel economy and projected production volume for Import Carlines

Model Type	Combined Fuel Economy	Projected Production Volume	Total Production Volume
MX-5 (2.0L) M6 SIL	40.2	[6992]	[125,655]
MX-5 (2.0L) S6	39.6	[5230]	
CX-3 2WD (2.0L) S6	42.5	[7732]	
CX-3 4WD (2.0L) S6	38.8	[7732]	
Mazda6 (2.5L) M6 SIL	37.8	[4045]	
Mazda6 (2.5L) S6	39.4	[54221]	
Mazda6 (2.5L) S6 i-Eloop	40.4	[3012]	
CX-5 2WD (2.5L) S6	36.5	[36396]	
CX-5 2WD (2.2L) S6	42.2	[295]	

1-2-1-2. Application of air conditioning, off-cycle efficiency improvement technology for Import Carlines

Not applicable.

1-2-1-3. Combined fuel economy and projected production volume for Domestic Carlines

Model Type	Combined Fuel Economy	Projected Production Volume	Total Production Volume
Mazda2 (1.5L) M6	47.1	[50]	[72303]
Mazda2 (1.5L) S6	48.8	[160]	
Mazda3 4-Door (2.0L) M6 SIL	42.6	[3556]	
Mazda3 4-Door (2.0L) S6	43.2	[33647]	
Mazda3 5-Door (2.0L) M6 SIL	42.2	[1379]	
Mazda3 5-Door (2.0L) S6	42.8	[11767]	
Mazda3 4-Door (2.5L) M6 SIL	38.5	[2142]	
Mazda3 4-Door (2.5L) S6	41.0	[5015]	
Mazda3 4-Door (2.5L) S6 i-Eloop	42.5	[1231]	
Mazda3 5-Door (2.5L) M6 SIL	37.4	[3233]	
Mazda3 5-Door (2.5L) S6	40.9	[8215]	
Mazda3 5-Door (2.5L) S6 i-Eloop	41.3	[1908]	

1-2-1-4. Application of air conditioning, off-cycle efficiency improvement technology for Import Carlines

Not applicable.

1-2-2-1. By Vehicle Configuration for Import Carlines

NO CFG	VEHICLE CONFIGURATION	SALES AREA	WC	LWW	ETW	SP (L)	CYL	SAE NET KW	SAE NET HP	ENGINE CODE	FUEL SYS	EMS CTL SYS	T R N	G R S	O D	NV	AXLE	COMB FE	PRJL PROJ VOL	INT VOL (ft³)	BODY STYLE (#1)	ROAD LOAD HP	TIRE SIZE	BASE TIRE	TRACK WIDTH Front (in)	TRACK WIDTH Rear (in)	TRACK WIDTH (in)	WHEEL BASE (in)	FOOT PRINT (ft²)	FRNT AREA (ft²)	OPTION#(2)		
																															A	B	P
1	MX-5 W/SL	50S	2500	2638	2625	2.0	4	116	155	7PE3FAA	DFI	(*)	M	6	N	41.9	2.866	40.0	2712	na	ST	11.7	195/60 R16	x	58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y
																40.9	2.866	40.0	na	ST	11.7	205/46 R17		58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y	
2	MX-5 W/SL	50S	2750	2745	2750	2.0	4	116	155	7PE3FA1	DFI	(*)	M	6	N	40.9	2.866	40.3	4280	na	RHT	11.7	205/46 R17		58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y
																na	ST	11.8	195/60 R16	x	58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y				
3	MX-5	50S	2750	2687	2750	2.0	4	116	155	7PE3FAA	DFI	(*)	S	6	Y	29.4	3.454	39.8	1734	na	ST	11.8	205/46 R17		58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y
																28.7	3.454	39.8	na	ST	11.8	205/46 R17		58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y	
4	MX-5	50S	2750	2785	2750	2.0	4	116	155	7PE3FA1	DFI	(*)	S	6	Y	28.7	3.454	39.5	3496	na	RHT	11.8	205/46 R17		58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y
																na	ST	11.7	195/60 R16	x	58.9	59.2	59.0	90.9	37.2	19.0	Y	Y	Y				
5	CX-3 2WD	50S	3000	3109	3125	2.0	4	109	146	6PE3AAA	DFI	(*)	S	6	Y	33.8	4.325	42.5	5799	103.6	SWGN	11.7	P215/60 R18	x	60.0	59.9	60.0	101.2	42.2	25.0	Y	Y	Y
																34.3	4.325	42.5	1933	103.6	SWGN	11.7	P215/60 R16		60.0	59.9	60.0	101.2	42.2	25.0	Y	Y	Y
6	CX-3 4WD	50S	3000	3252	3250	2.0	4	109	146	6PEGAAA	DFI	(*)	S	6	Y	33.8	4.325	38.8	5799	103.6	SWGN	13.0	P215/60 R18	x	60.0	59.9	60.0	101.2	42.2	25.0	Y	Y	Y
																34.3	4.325	38.8	1933	103.6	SWGN	13.0	P215/60 R16		60.0	59.9	60.0	101.2	42.2	25.0	Y	Y	Y
7	Mazda6 W/SL W/O-ELOOP	50S	3500	3540	3500	2.5	4	137	184	7PY3AAA	DFI	(*)	M	6	Y	38.1	4.105	37.9	1618	114.5	SDN	11.3	P225/55 R17	x	62.4	62.0	62.2	111.4	48.1	24.6	Y	Y	Y
																35.8	4.105	37.7	2427	114.5	SDN	11.5	P225/45 R19		62.8	62.4	62.6	111.4	48.4	24.6	Y	Y	Y
8	Mazda6 W/O-ELOOP	50S	3500	3605	3625	2.5	4	137	184	7PYSABA	DFI	(*)	S	6	Y	29.5	3.812	39.8	16869	114.5	SDN	11.3	P225/55 R17	x	62.4	62.0	62.2	111.4	48.1	24.6	Y	Y	Y
																29.3	3.812	39.2	37352	114.5	SDN	11.4	P225/45 R19		62.8	62.4	62.6	111.4	48.4	24.6	Y	Y	Y
9	Mazda6 W/ELCOP	50S	3500	3605	3625	2.5	4	137	184	7PYSABB	DFI	(*)	S	6	Y	27.6	3.591	40.4	3012	114.5	SDN	11.2	P225/45 R19	x	62.8	62.4	62.6	111.4	48.4	24.6	Y	Y	Y
																31.2	4.325	36.6	12821	134.5	SWGN	13.3	P225/55 R19		62.8	62.8	62.8	106.2	46.3	28.0	Y	Y	Y
10	CX-5 2WD	Caf	4000	3827	3875	2.5	4	139	187	7PYSFAM	DFI	(*)	S	6	Y	31.5	4.325	36.7	4359	134.5	SWGN	13.4	P225/65 R17	x	62.8	62.8	62.8	106.2	46.3	28.0	Y	Y	Y
																31.2	4.325	36.3	14340	134.5	SWGN	13.3	P225/55 R19		62.8	62.8	62.8	106.2	46.3	28.0	Y	Y	Y
11	CX-5 2WD	Caf	4000	3827	3875	2.5	4	139	187	7PYSFA1	DFI	(*)	S	6	Y	31.5	4.325	36.5	4878	134.5	SWGN	13.4	P225/65 R17	x	62.8	62.8	62.8	106.2	46.3	28.0	Y	Y	Y
																31.2	4.325	36.3	14340	134.5	SWGN	13.3	P225/55 R19		62.8	62.8	62.8	106.2	46.3	28.0	Y	Y	Y
12	CX-5 2WD	50S	4000	4063	4000	2.2	4	130	174	7SHSAAA	DFI	(*)	S	6	Y	31.8	4.411	42.2	295	103.6	30.9	13.8	P225/55 R19	x	62.8	62.8	62.8	106.2	46.3	28.0	Y	Y	Y
																na	ST	11.7	195/60 R16	x	62.8	62.8	62.8	106.2	46.3	28.0	Y	Y	Y				

(#1) ST: Soft top, RHT: Retractable Hard Top  
(#2) AC: Air Conditioning, ABS: Anti-lock Brake System, PS: Power Steering

(\*)1: TWO-Wheel-Drive, WR: Hybrid, DR: Diesel  
(\*)2: W/O-LOCK: NO LOCK SOURCE, DR: Diesel, TO: Diesel, EDC: Wheel-Drive, NGS: NO LOCK SOURCE

1-2-2-2. By Vehicle Configuration for Domestic Carlines

NO CFG	VEHICLE CONFIGURATION	SALES AREA	WC	LVW	ETW	SP (L)	CYL	SAE NET KW	SAE NET HP	ENGINE CODE	FUEL SYS	EMS CTL SYS	T R N	G R S	O D	NV	AXLE	COMB FE	PRQJ PROG VOL	INT VOL (ft <sup>3</sup> )	BODY STYLE (#1)	ROAD LOAD HP	TIRE SIZE	BASE TIRE	TRACK WIDTH Front (in)	TRACK WIDTH Rear (in)	TRACK WIDTH (in)	WHEEL BASE (in)	FOOT PRINT (ft <sup>2</sup> )	FRNT AREA (ft <sup>2</sup> )	OPTION#(s)		
																															A	B	P
1	Mazda2	508	2500	2630	2625	1.5	4	79	106	6P5V3AAB	DFI	(*)	M	6	Y	37.6	4.105	47.1	50	102.6	5HB	10.2	P18565 R15	x	58.8 ±1.0	58.4 ±1.0	58.6 ±1.0	101.2 ±1.0	41.2 ±1.2	23.2	Y	Y	Y
2	Mazda2	508	2500	2677	2625	1.5	4	79	106	7P5V3AAA	DFI	(*)	S	6	Y	32.2	3.824	48.8	160	102.6	5HB	9.7	P18565 R15	x	58.8 ±1.0	58.4 ±1.0	58.6 ±1.0	101.2 ±1.0	41.2 ±1.2	23.2	Y	Y	Y
3	Mazda3 4-Door W/O-ELOOP W/SL	508	3000	3199	3250	2.0	4	116	155	7PE3AAB	DFI	(*)	M	6	Y	35.4	3.850	42.9	507	108.7	SDN	10.8	P20560 R16	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
4	Mazda3 4-Door W/O-ELOOP W/SL	508	3000	3191	3250	2.0	4	116	155	7PE3ABB	DFI	(*)	M	6	Y	35.4	3.850	42.9	1955	108.7	SDN	10.8	P20560 R16	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
5	Mazda3 4-Door W/O-ELOOP	508	3000	3267	3250	2.0	4	116	155	7PE3AAA	DFI	(*)	S	6	Y	29.1	3.591	42.9	4330	108.7	SDN	10.6	P20560 R16	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
6	Mazda3 4-Door W/O-ELOOP	508	3000	3259	3250	2.0	4	116	155	7PE3ABA	DFI	(*)	S	6	Y	29.1	3.591	42.9	16688	108.7	SDN	10.6	P20560 R16	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
7	Mazda3 5-Door W/O-ELOOP W/SL	508	3000	3175	3250	2.0	4	116	155	7PE3AAB	DFI	(*)	M	6	Y	35.4	3.850	41.7	869	108.7	SDN	11.1	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
8	Mazda3 5-Door 2WD W/O-ELOOP W/SL	508	3000	3173	3250	2.0	4	116	155	7PE3ABB	DFI	(*)	M	6	Y	35.4	3.850	42.2	841	118.0	5HB	11.0	P20560 R16	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
9	Mazda3 5-Door W/O-ELOOP	508	3000	3240	3250	2.0	4	116	155	7PE3AAA	DFI	(*)	S	6	Y	29.1	3.591	43.1	2140	118.0	5HB	10.9	P20560 R16	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
10	Mazda3 5-Door W/O-ELOOP	508	3000	3237	3250	2.0	4	116	155	7PE3ABA	DFI	(*)	S	6	Y	29.1	3.591	42.5	2450	118.0	5HB	11.3	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
11	Mazda3 4-Door W/O-ELOOP W/SL	508	3500	3313	3375	2.5	4	137	184	7PY3FAA	DFI	(*)	M	6	Y	35.4	3.850	38.5	441	108.7	SDN	11.2	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
12	Mazda3 4-Door W/O-ELOOP W/SL	508	3500	3313	3375	2.5	4	137	184	7PY3FBA	DFI	(*)	M	6	Y	35.4	3.850	38.5	1701	108.7	SDN	11.2	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
13	Mazda3 4-Door W/O-ELOOP	508	3500	3400	3375	2.5	4	137	184	7PY3AAA	DFI	(*)	S	6	Y	27.4	3.389	41.0	1033	108.7	SDN	11.1	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
14	Mazda3 4-Door W/O-ELOOP	508	3500	3400	3375	2.5	4	137	184	7PY3ACA	DFI	(*)	S	6	Y	27.4	3.389	41.0	3982	108.7	SDN	11.1	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
15	Mazda3 4-Door W/O-ELOOP	508	3500	3400	3375	2.5	4	137	184	7PY3AAB	DFI	(*)	S	6	Y	27.4	3.389	42.5	1231	108.7	SDN	10.9	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
16	Mazda3 5-Door W/O-ELOOP W/SL	508	3500	3346	3375	2.5	4	137	184	7PY3FAA	DFI	(*)	M	6	Y	35.4	3.850	37.4	1261	118.0	5HB	11.5	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
17	Mazda3 5-Door W/O-ELOOP W/SL	508	3500	3346	3375	2.5	4	137	184	7PY3FBA	DFI	(*)	M	6	Y	35.4	3.850	37.4	1972	118.0	5HB	11.5	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
18	Mazda3 5-Door W/O-ELOOP	508	3500	3398	3375	2.5	4	137	184	7PY3AAA	DFI	(*)	S	6	Y	27.4	3.389	40.9	3204	118.0	5HB	11.3	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
19	Mazda3 5-Door W/O-ELOOP	508	3500	3398	3375	2.5	4	137	184	7PY3ACA	DFI	(*)	S	6	Y	27.4	3.389	40.9	5011	118.0	5HB	11.3	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y
20	Mazda3 5-Door W/O-ELOOP	508	3500	3398	3375	2.5	4	137	184	7PY3AAB	DFI	(*)	S	6	Y	27.4	3.389	41.3	1908	118.0	5HB	11.2	21545 R18	x	61.3 ±1.0	61.3 ±1.0	61.3 ±1.0	106.3 ±1.0	45.3 ±1.2	24.3	Y	Y	Y

(#1) ST: Soft top; RHT: Retractable Hard Top  
(#2) AC: Air Conditioning; ABS: Anti-lock Brake System; PS: Power Steering

(+1) TWC/HD-TWC/HDS/W/HDS/DT

2. Information for the Non-passenger Automobiles

2-1. Projected Average Fuel Economy

	Rounded to 4 decimal place	Rounded to 1 decimal place	MFR Projected Reformed CAFE Standard
Truck CAFE	33.8548	33.9	32.3

2-2. Model type and configuration fuel economy and technical information:

2-2-1. By Model Type

2-2-1-1. Combined fuel economy and projected production volume

Model Type	Combined Fuel Economy	Projected Production Volume	Total Production Volume
CX-5 4WD (2.5L) S6	34.5	[61384]	[73,357]
CX-5 4WD (2.2L) S6	40.3	[295]	
CX-9 2WD (2.5L_T/C) S6	32.4	[4321]	
CX-9 4WD (2.5L_T/C) S6	29.8	[7357]	

2-2-1-2. Application of air conditioning, off-cycle efficiency improvement technology, full-size pick-up trucks

Not applicable.

2-2-2. By Vehicle Configuration

NO. CFG	VEHICLE CONFIGURATION	SALES AREA	WC	LVW	ETW	SP (L)	CYL	SAE NET KW	SAE NET HP	ENGINE CODE	FUEL SYS	EMS CTL SYS	T R N	G R S	O D	NV	AXLE	COMB FE	PROJ PROD VOL	PMS CARRYING VOL (RD)	CARNO CARRYING VOL (RD)	ROAD LOAD HP	TIRE SIZE	BASE TIRE	TRACK WIDTH (in)		TRACK WIDTH (in)	WHEEL BASE (in)	FOOT PRINT (ft <sup>2</sup> )	FRNT AREA (ft <sup>2</sup> )	OPTION#(1)		
																									Front	Rear					A	B	P
1	CX-5 4WD	Fed	4000	3955	4000	2.5	4	139	187	7PYGFAM	DFI	(*1)	S	6	Y	33.7	4.624	34.2	4616	103.6	30.9	14.2	P225/65 R17	x	62.8 ±1.0	62.8 ±1.0	62.8 ±1.0	106.2 ±1.0	46.3 ±1.2	28.0	Y	Y	Y
																33.3	4.624	34.2	24360	103.6	30.9	14.1	P225/55 R19		62.8 ±1.0	62.8 ±1.0	62.8 ±1.0	106.2 ±1.0	46.3 ±1.2	28.0	Y	Y	Y
2	CX-5 4WD	Calif	4000	3955	4000	2.5	4	139	187	7PYGFA1	DFI	(*1)	S	6	Y	33.7	4.624	34.2	5162	103.6	30.9	14.2	P225/65 R17	x	62.8 ±1.0	62.8 ±1.0	62.8 ±1.0	106.2 ±1.0	46.3 ±1.2	28.0	Y	Y	Y
																33.3	4.624	34.8	27246	103.6	30.9	14.1	P225/55 R19		62.8 ±1.0	62.8 ±1.0	62.8 ±1.0	106.2 ±1.0	46.3 ±1.2	28.0	Y	Y	Y
3	CX-5 4WD	50S	4000	4213	4250	2.2	4	130	174	7SHGAAA	DFI	(*2)	S	6	Y	31.8	4.411	40.3	295	103.6	30.9	14.7	P225/55 R19	x	62.8 ±1.0	62.8 ±1.0	62.8 ±1.0	106.2 ±1.0	46.3 ±1.2	28.0	Y	Y	Y
4	CX-9 2WD	50S	4500	4444	4500	2.5 TIC	4	169	227	7PYTSAAA	DFI	(*3)	S	6	Y	30.5	4.411	32.7	2569	135.0	14.4	14.8	P255/60 R18	x	65.3 ±1.0	65.2 ±1.0	65.2 ±1.0	115.3 ±1.0	52.2 ±1.2	30.4	Y	Y	Y
																30.5	4.411	32.1	1752	135.0	14.4	15.5	P255/50 R20		65.3 ±1.0	65.2 ±1.0	65.2 ±1.0	115.3 ±1.0	52.2 ±1.2	30.4	Y	Y	Y
5	CX-9 4WD	50S	4500	4627	4750	2.5 TIC	4	169	227	7PYTGAAA	DFI	(*3)	S	6	Y	30.5	4.411	30.2	2686	135.0	14.4	15.7	P255/60 R18	x	65.3 ±1.0	65.2 ±1.0	65.2 ±1.0	115.3 ±1.0	52.2 ±1.2	30.4	Y	Y	Y
																30.5	4.411	29.6	4671	135.0	14.4	16.2	P255/50 R20		65.3 ±1.0	65.2 ±1.0	65.2 ±1.0	115.3 ±1.0	52.2 ±1.2	30.4	Y	Y	Y

(#1) AC: Air Conditioning, ABS: Anti-lock Brake System, PS: Power Steering

(\*1) TIC/WL-TIC/H2S-WR-H2S-DFI

(\*2) WL-CD-NAC-NH6O2-SORC-DFI-OC-TC-DFI-EPIC-WR-H2S-NDG-FM6-EGP-RDS

(\*3) TIC/WL-TIC/H2S-WR-H2S-DFI-OC-TC-EGP-EPIC

3. Light Truck Vehicle Information by Vehicle Configuration

NO CFG	VEHICLE CONFIGURATION	TRANSPORT MORE THAN 10 PERSONS	PROVIDE TEMPORARY LIVING QUARTERS	TRANSPORT PROPERTY ON AN OPEN BED	GRATER CARGO- CARRYING THAN PASSENGER- CARRYING VOLUME	PERMIT EXPANDED USE OF THE AUTOMOBILE FOR CARGO-CARRYING PURPOSES OR OTHER NON-PASSENGER- CARRYING PURPOSES	EXISTENCE OF 4-WHEEL DRIVE (YES/NO)	6000 < GVWR (lb)	APPROACH ANGLE (deg)	BREAKOVER ANGLE (deg)	DEPARTURE ANGLE (deg)	MIN. RUNNING CLEARANCE (cm)	AXLE CLEARANCE (cm)	
													Front	Rear
1	CX-5 2.5L S6 4x4	NO	NO	NO	NO	NO	YES	NO	17.0	15.4	22.5	20.9	23.4	24.8
2	CX-5 2.2L S6 4x4	NO	NO	NO	NO	NO	YES	NO	17.0	15.4	22.5	20.9	23.2	24.8
3	CX-9 2.5L S6 4x2	NO	NO	NO	NO	YES	NO	NO	17.5	18.0	20.5	20.4	25.0	—
4	CX-9 2.5L S6 4x4	NO	NO	NO	NO	YES	YES	NO	17.5	18.0	20.5	20.4	25.0	25.3





4. Footprint Data & Reformed CAFE Standard Calculation\_Import & Domestic Passenger Car & Light Truck

Category	Model Type Index	Carline MFR Code	Division Code	Carline Code	Carline Name	Basic Engine Index	Transmission Class Index	Transmission Class Name (e.g. MS, SL, L6, etc.)	Model Type Description, Mfr comments	Wheel base (inches rounded to 1 decimal place)	Front Track Width (inches rounded to 1 decimal place)	Rear Track Width (inches rounded to 1 decimal place)	Avg Track Width (inches rounded to 1 decimal place)	Footprint (square feet rounded to one decimal place)	Footprint Mode Year Production Units	Footprint-base CO2 (gpm) target (rounded to 1 decimal place)	Footprint-base CO2 (gpm) (unrounded)	Volume x Footprint-base CO2 target	Model Type CREE	Volume x Model Type CREE	NCO Compliance Std (gpm) per # 96.1818-127(1) or (1)(b)	CM Compliance Std (gpm) per # 96.1818-127(1) or (1)(b)	CO2 Equivalent Debits per # 96.1818-127(4) (rounded to whole megagram)	Footprint-base FE (mpg) target (rounded to 2 decimal places)	Footprint-base FE (mpg) (unrounded)	Volume x Footprint-base FE target	
PC_D	1	TRK	1	2	Marazzi	1.5	Gasoline	3	MR	P1850R R15	101.2	58.8	58.4	58.6	41.2	50	195.5	195.536	9775	TBD	9350	0.010	0.030	0	43.41	43.411	1.15192834
PC_D	2	TRK	1	2	Marazzi	1.5	Gasoline	4	SR	P1850R R15	101.2	58.8	58.4	58.6	41.2	160	195.5	195.536	31280	TBD	28950	0.010	0.030	0	43.41	43.411	3.68578695
PC_D	3	TRK	1	27	Marazzi 4-Door	2.0	Gasoline	8	MR SL	P2050R R18	106.3	61.3	61.3	61.3	45.3	3,556	214.1	214.100	781339.6	TBD	739648	0.010	0.030	0	39.78	39.778	89.3916541
PC_D	4	TRK	1	27	Marazzi 4-Door	2.0	Gasoline	9	SR	P2050R R18	106.3	61.3	61.3	61.3	45.3	33,647	214.1	214.100	7203822.7	TBD	6921792	0.010	0.030	0	39.78	39.778	846.827040
PC_D	5	TRK	1	28	Marazzi 5-Door	2.0	Gasoline	10	MR SL	P2050R R18	106.3	61.3	61.3	61.3	45.3	1,379	214.1	214.100	295243.9	TBD	289500	0.010	0.030	0	39.78	39.778	34.695611
PC_D	6	TRK	1	28	Marazzi 5-Door	2.0	Gasoline	11	SR	P2050R R18	106.3	61.3	61.3	61.3	45.3	11,767	214.1	214.100	2619314.7	TBD	2435769	0.010	0.030	0	39.78	39.778	295.801911
PC_D	7	TRK	1	27	Marazzi 4-Door	2.0	Gasoline	8	MR SL	P1850R R18	106.3	61.3	61.3	61.3	45.3	2,142	214.1	214.100	458602.2	TBD	489544	0.010	0.030	52	39.78	39.778	53.8461538
PC_D	8	TRK	1	27	Marazzi 4-Door	2.0	Gasoline	9	SR	P1850R R18	106.3	61.3	61.3	61.3	45.3	5,015	214.1	214.100	1073711.5	TBD	1078225	0.010	0.030	0	39.78	39.778	128.068316
PC_D	9	TRK	1	27	Marazzi 4-Door	2.0	Gasoline	9	SR -4wd	P1850R R18	106.3	61.3	61.3	61.3	45.3	1,291	214.1	214.100	263557.1	TBD	266048	0.010	0.030	0	39.78	39.778	30.9451995
PC_D	10	TRK	1	28	Marazzi 5-Door	2.0	Gasoline	10	MR SL	P1850R R18	106.3	61.3	61.3	61.3	45.3	3,233	214.1	214.100	692195.3	TBD	795221	0.010	0.030	79	39.78	39.778	81.271996
PC_D	11	TRK	1	28	Marazzi 5-Door	2.0	Gasoline	11	SR	P1850R R18	106.3	61.3	61.3	61.3	45.3	8,215	214.1	214.100	1758831.5	TBD	1774440	0.010	0.030	0	39.78	39.778	206.510600
PC_D	12	TRK	1	28	Marazzi 5-Door	2.0	Gasoline	11	SR -4wd	P1850R R18	106.3	61.3	61.3	61.3	45.3	1,908	214.1	214.100	408502.8	TBD	406312	0.010	0.030	0	39.78	39.778	47.9638000
PC_L	1	TRK	1	50	MX3 (S&T Top & Bottom)	2.0	Gasoline	16	MR SL	P1850R R16	90.9	58.9	59.2	59.0	37.2	6,802	195.0	195.000	1363440	TBD	1545232	0.010	0.030	171	43.61	43.610	160.330199
PC_L	2	TRK	1	50	MX3 (S&T Top & Bottom)	2.0	Gasoline	16	SR	P1850R R16	90.9	58.9	59.2	59.0	37.2	5,230	195.0	195.000	1019850	TBD	1178750	0.010	0.030	128	43.61	43.610	119.926622
PC_L	3	TRK	1	3	CS3 2WD	2.0	Gasoline	1	SR	P2150R R18	101.2	60.0	59.0	60.0	42.2	7,732	200.1	200.066	1547173.2	TBD	1623720	0.010	0.030	0	42.46	42.466	182.100801
PC_L	4	TRK	1	4	CS3 4WD	2.0	Gasoline	2	SR	P2150R R18	101.2	60.0	59.0	60.0	42.2	7,732	200.1	200.066	1547173.2	TBD	1755164	0.010	0.030	0	42.46	42.466	182.100801
PC_L	5	TRK	1	15	Marazzi	2.0	Gasoline	5	MR SL	P2050R R17	111.4	62.4	62.0	62.2	48.1	4,042	226.8	226.793	917406	TBD	946530	0.010	0.030	0	37.63	37.628	107.494021
PC_L	6	TRK	1	15	Marazzi	2.0	Gasoline	5	SR	P2050R R17	111.4	62.4	62.0	62.2	48.1	54,221	226.8	226.793	12297322.8	TBD	12146504	0.010	0.030	0	37.63	37.628	1440.89822
PC_L	7	TRK	1	15	Marazzi	2.0	Gasoline	7	SR -4wd	P2050R R17	111.4	62.8	62.4	62.6	48.4	3,012	228.2	228.152	687338.4	TBD	662540	0.010	0.030	0	37.41	37.411	80.5132318
PC_L	8	TRK	1	55	CS3 2WD (4wd)	2.0	Gasoline	1	SR	P2250R R17	106.2	62.8	62.8	62.8	46.3	17,186	216.6	216.639	3755548	TBD	4191920	0.014	0.030	4418	38.98	38.983	440.73884
PC_L	9	TRK	1	55	CS3 2WD (4wd)	2.0	Gasoline	2	SR	P2250R R17	106.2	62.8	62.8	62.8	46.3	19,218	216.6	216.639	4200617.6	TBD	4688704	0.010	0.030	0	38.98	38.983	462.970754
PC_L	10	TRK	1	55	CS3 2WD	2.0	Gasoline	1	SR	P2250R R17	106.2	62.8	62.8	62.8	46.3	295	216.6	216.639	64487	TBD	0	0.000	0.000	767	38.98	38.983	7.56798358

CAFE Calculation

Category	Total Production Units	Footprint base Fleet Av. FE Standard (mpg)	Min. FE Std (mpg)
Domestic PC	72,303	38.8 (rounded)	39.7897 (unrounded)
Import PC	126,856	39.1 (rounded)	39.0883 (unrounded)

GHG Calculation

Category	Total Production	Footprint base Fleet Av. CO2 Standard (grams/mile)	Fleet Av. CREE (grams/mile)	CREE Debit per # 96.1818-127(4)	Total CREE credit/debit (megagram)	Vehicle Lifetime Miles (VLM)
PC	197,958	217 (rounded)	216.5940 (unrounded)	TBD (rounded)	222,0216 (unrounded)	5615

Category	Model Type Index	Carline MFR Code	Division Code	Carline Code	Carline Name	Basic Engine Index	Transmission Class Index	Transmission Class Name (e.g. MS, SL, L6, etc.)	Model Type Description, Mfr comments	Wheel base (inches rounded to 1 decimal place)	Front Track Width (inches rounded to 1 decimal place)	Rear Track Width (inches rounded to 1 decimal place)	Avg Track Width (inches rounded to 1 decimal place)	Footprint (square feet rounded to one decimal place)	Footprint Mode Year Production Units	Footprint-base CO2 (gpm) target (rounded to 1 decimal place)	Footprint-base CO2 (gpm) (unrounded)	Volume x Footprint-base CO2 target	Model Type CREE	Volume x Model Type CREE	NCO Compliance Std (gpm) per # 96.1818-127(1) or (1)(b)	CM Compliance Std (gpm) per # 96.1818-127(1) or (1)(b)	CO2 Equivalent Debits per # 96.1818-127(4) (rounded to whole megagram)	Footprint-base FE (mpg) target (rounded to 2 decimal places)	Footprint-base FE (mpg) (unrounded)	Volume x Footprint-base FE target	
LT	1	TRK	1	56	CS3 4WD (4wd)	2.0	Gasoline	TBD	SR	P2250R R17	106.2	62.8	62.8	62.8	46.3	28,976	263.8	263.781	7643668.6	TBD	7388880	0.014	0.030	8619	32.80	32.800	863.414634
LT	2	TRK	1	56	CS3 4WD (4wd)	2.0	Gasoline	TBD	SR	P2250R R17	106.2	62.8	62.8	62.8	46.3	32,408	263.8	263.781	8549230.4	TBD	8264040	0.010	0.030	0	32.80	32.800	968.04879
LT	3	TRK	1	56	CS3 4WD	2.0	Gasoline	TBD	SR	P2250R R17	106.2	62.8	62.8	62.8	46.3	295	263.8	263.781	77821	TBD	0	0.000	0.000	888	32.80	32.800	8.9898244
LT	4	TRK	1	50	CS3 4WD	2.0	Gasoline	21	SR	P2250R R18	115.3	65.3	65.2	65.2	52.2	4,321	291.4	291.388	1259738.4	TBD	1175312	0.014	0.030	1163	29.78	29.779	146.097381
LT	5	TRK	1	50	CS3 4WD	2.0	Gasoline	21	SR	P2250R R18	115.3	65.3	65.2	65.2	52.2	7,367	291.4	291.388	2143829.8	TBD	2170315	0.014	0.030	1981	29.78	29.779	247.04697

CAFE Calculation

Category	Total Production Units	Footprint base Fleet Av. FE Standard (mpg)	Min. FE Std (mpg)
Truck	73,367	32.3 (rounded)	32.2789 (unrounded)

GHG Calculation

Category	Total Production	Footprint base Fleet Av. CO2 Standard (grams/mile)	Fleet Av. CREE (grams/mile)	CREE Debit per # 96.1818-127(4)	Total CREE credit/debit (megagram)	Vehicle Lifetime Miles (VLM)
Truck	73,367	268 (rounded)	268.1938 (unrounded)	TBD (rounded)	258,9675 (unrounded)	12661

## Fuel Economy Methodology Used in Projecting CAFE Values

### Derived Fuel Economy Values

As provided for by 49 CFR §537.9 (a) (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. 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 2017 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.

## Passenger Car and Light Truck CAFE Credits/Debits Summary

### Mazda CAFE Credit/Debit Summary

#### Passenger Car (Import)

MY	CAFE Value	CAFE Std	Production Volume	MY Credit Credits Excess or (Shortfall)	Intended Action	MY Credit Balance Excess or (Shortfall)
2009	32.6	27.5	54,862	2,797,962	---	2,797,962
2010	33.8	27.5	212,495	13,387,185	---	13,387,185
2011	33.8	30.7	181,202	5,617,262	---	5,617,262
2012	37.9	33.9	213,308	8,532,320	1,210,000 credits were transferred to Ford. 125,655 credits are used to offset 2017MY debits	7,196,665
2013	39.4	34.8	164,862	7,583,652		7,583,652
2014	41.5	34.4	217,333	15,430,643	2,797,962 credits from 2009MY is expired by the end of 2014MY	15,430,643
2015	41.9	35.5	207,100	13,254,400	13,387,185 credits from 2010MY is expired by the end of 2015MY	13,254,400
2016	42.1	37.3	305,635	14,670,480	5,617,262 credits from 2011MY is expired by the end of 2016MY	14,670,480
2017 (2017MY Mid CAFE Report Projected Values)	39.0	39.1	125,655	-125,655	2017MY debits are offset by 2012MY credits and the remaining 2012MY credits (8,532,320-1,210,000-125,655) are expired by the end of 2017MY	0
Projected Total Credits at the end of 2017MY						<b>50,939,175</b>

#### Passenger Car (Domestic)

MY	CAFE Value	CAFE Std	Production Volume	MY Credit Credits Excess or (Shortfall)	Intended Action	MY Credit Balance Excess or (Shortfall)
2009	30.4	27.5	39,504	1,145,616	---	1,145,616
2010	n/a	n/a	0	0	---	0
2011	31.8	31.1	2,218	15,526	---	15,526
2012	n/a	n/a	0	0	---	0
2013	n/a	n/a	0	0	---	0
2014	n/a	n/a	0	0	1,145,616 credits from 2009MY is expired by the end of 2014MY	0
2015	n/a	n/a	0	0	---	0
2016	n/a	n/a	0	0	15,526 credits from 2011MY is expired by the end of 2016MY	0
2017 (2017MY Mid CAFE Report Projected Values)	42.7	39.8	72,303	2,096,787	---	2,096,787
Projected Total Credits at the end of 2017MY						<b>2,096,787</b>

#### Truck

MY	CAFE Value	CAFE Std	Production Volume	MY Credit Credits Excess or (Shortfall)	Intended Action	MY Credit Balance Excess or (Shortfall)
2009	26.6	23.1	54,508	1,907,780	---	1,604,552
2010	26.7	23.5	98,444	3,150,208	---	3,150,208
2011	24.7	25.6	33,692	-303,228	2011MY debits are offset by 2009MY credits.	0
2012	27.8	27.2	65,696	394,176	394,176 credits were transferred to Jaguar Land Rover.	0
2013	30.4	28.1	61,093	1,405,139		1,405,139
2014	31.4	28.9	78,826	1,970,650	1,604,552 credits from 2009MY is expired by the end of 2014MY	1,970,650
2015	31.6	30.0	78,793	1,260,688	3,150,208 credits from 2010MY is expired by the end of 2015MY	1,260,688
2016	34.2	31.4	153,192	4,289,376	---	4,289,376
2017 (2017MY Mid CAFE Report Projected Values)	33.9	32.3	73,357	1,173,712	---	1,173,712
Projected Total Credits at the end of 2017MY						<b>10,099,565</b>