MID-CAFE REPORT FOR 2019 MODEL YEAR OF KIA MOTORS CORPORATION

- Passenger Cars -



NOTE : THIS REPORT CONTAINS

INFORMATION.

THE PRODUCTION VOLUME IS INFORMATION AND THIS INFORMATION IS DEEMED BY KMC TO BE EXEMPT FROM DISCLOSURE UNDER 5 U.S.C. 552(B)(4) AND 49 U.S.C 32910(c).

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I. Introduction

As required by 49 CFR Part 537.9, estimated fuel economy values for Soul, Sportage FWD, Sportage FE FWD, Cadenza, Optima, Optima FE, Stinger AWD, Stinger RWD, Forte, Forte FE, Niro Plug-in Hybrid, Optima Plug-in Hybrid, Optima Hybrid, Niro, Niro Touring, Niro FE, Soul Electric, Rio, K900, Niro Electric are included in this report.

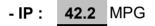
The certification emission-data and fuel economy data of the above-mentioned vehicles used to get the following fuel economy values were tested in accordance with applicable exhaust emission test procedures and complied with applicable 2019 exhaust emission standards as defined 40 CFR §86.

II. Projected Average and Required Fuel Economy

1. Projected Average Fuel Economy

- IP: 40.5 MPG (without A/C efficiency & off-cycle credits)
- IP: 41.5 MPG (with A/C efficiency & off-cycle credits)
- DP: N/A

2. Projected Required Fuel Economy



- DP: N/A

At this point in time and based on available best present information, the above projections represent the Kia Motors Coporation (KMC) average and required fuel economy for the 2019 model year for the purpose of the Act.

II. Projected Average and Required Fuel Economy

ted Required Fuel Econom	у		5 0	a 8		-	Business Information		a 19	94			Business Information		
Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class	Base Tire	Doors	Projected sales	Track width FR (inch)	Track width RR (inch)	Average Track width (inch)	Wheelbase (inch)	footprint (sqr feet)	Target standard	ETW	n
RIO MT	Rio	1.6L GDI	FWD	M6	185/65R15	4DR	0	60.0	60.2	60.1	101.6	42.4	45.44	2,750	
	Rio	1.6L GDI	FWD	M6	185/65R15	5DR	0	60.0	60.2	60.1	101.6	42.4	45.44	2 750	
Rio AT	Rio	1.6L GDI	FWD	SA6	185/65R15	4DR	18 256	60.0	60.2	60.1	101.6	42.4	45.44	2 875	
	Rio	1.6L GDI	FWD	SA6	185/65R15	5DR	1,902	60.0	60.2	60.1	101.6	42.4	45.44	2,875	
Forte MT	Forte	2.0L MPI	FWD	M6	205/55R15	4DR	2,150	61.5	61.9	61.7	106.3	45.5	42.57	3,000	
Forte FE 2.0 CVT	Forte FE	2.0L MPI	FWD	CVT	195/65R15	4DR	6 339	61.5	61.9	61.7	106.3	45.5	42.57	3 125	
	Forte	2.0L MPI	FWD	CVT	205/55R16	4DR	37 445	61.2	61.6	61.4	106.3	45.3	42.74	3 125	
Forte 2.0 CVT	Forte	2.0L MPI	FWD	CVT	225/45R17	4DR	15,435	61.0	61.3	61.2	106.3	45.2	42.83	3,125	
	Forte	2.0L MPI	FWD	CVT	205/55R16	4DR	21 892	61.2	61.6	61.4	106.3	45.3	42.74	3 125	
	Forte	2.0L MPI	FWD	CVT	225/45R17	4DR	6 059	61.0	61.3	61.2	106.3	45.2	42.83	3 125	
Soul 1.6 AT	Soul	1.6L GDI	FWD	SA6	205/60R16	4DR	40,166	62.0	62.5	62.2	101.2	43.7	44.19	3,125	
Soul 1.6 MT	Soul	1.6L GDI	FWD	M6	205/60R16	4DR	1,987	62.0	62.5	62.2	101.2	43.7	44.19	3,125	
NIro FE	Niro FE	1.6L GDI	FWD	AM6	205/60R16	5DR	821	61.6	62.2	61.9	106.3	45.7	42.40	3 250	
	Soul	2.0L GDI	FWD	SA6	215/55R17	4DR	16 699	61.7	62.2	62.0	101.2	43.6	44.28	3 250	
Soul 2.0 AT	Soul	2.0L GDI	FWD	SA6	235/45R18	4DR	3,976	61.4	61.9	61.6	101.2	43.3	44.56	3,375	┝
	Soul	2.0L GDI	FWD	SA6	215/55R17	4DR	6 878	61.7	62.2	62.0	101.2	43.6	44.28	3 250	+
	Soul	2.0L GDI	FWD	SA6	235/45R18	4DR	1 623	61.4	61.9	61.6	101.2	43.3	44.56	3 375	+
Soul 1.6T DCT	Soul	1.6L T-GDI	FWD	AM7	235/45R18	4DR	2,974	61.4	61.9	61.6	101.2	43.3	44.56	3,375	t
Optima FE 2.4	Optima FE	2.4L GDI	FWD	SA6	205/65R16	4DR	35,875	63.5	63.8	63.6	110.4	48.8	39.89	3,500	
	Optima FE	2.4L GDI	FWD	SA6	205/65R16	4DR	18 314	63.5	63.8	63.6	110.4	48.8	39.89	3 500	
Niro	Niro	1.6L GDI	FWD	AM6	205/60R16	5DR	12 821	61.6	62.2	61.9	106.3	45.7	42.40	3 500	
Niro Touring	Niro Touring	1.6L GDI	FWD	AM6	225/45R18	5DR	2,463	61.2	61.8	61.5	106.3	45.4	42.66	3,625	
Soul Electric	Soul Electric	EV	FWD	OT	205/60R16	4DR	150	62.0	62.4	62.2	101.2	43.7	44.19	3 625	
10.00 m	Optima	2.4L GDI	FWD	SA6	215/55R17	4DR	4 081	63.1	63.4	63.2	110.4	48.5	40.12	3 625	
Optima 2.4	Optima	2.4L GDI	FWD	SA6	235/45R18	4DR	12,153	62.9	63.2	63.0	110.4	48.3	40.27	3,625	
and the second second second	Optima	2.4L GDI	FWD	SA6	235/45R18	4DR	9,069	62.9	63.2	63.0	110.4	48.3	40.27	3,625	
Optima 1.6T	Optima	1.6L T-GDI	FWD	AM7	215/55R17	4DR	8 044	63.1	63.4	63.2	110.4	48.5	40.12	3 625	
Sportage FE 2.4 FWD	Sportage FE FWD	2.4L GDI	FWD	SA6	225/60R17	SUV	23 996	63.5	64.0	63.8	105.1	46.6	41.64	3 625	
	Sportage FE FWD	2.4L GDI	FWD	SA6	225/60R17	SUV	38	63.5	64.0	63.8	105.1	46.6	41.64	3,625	
Sportage 2.4 FWD	Sportage FWD	2.4L GDI	FWD	SA6	225/55R18	SUV	6,170	63.5	64.0	63.8	105.1	46.6	41.64	3,750	
	Sportage FWD	2.4L GDI	FWD	SA6	225/55R18	SUV	1 594	63.5	64.0	63.8	105.1	46.6	41.64	3 750	
Niro Piug in Hybrid	Niro Plug-In Hybrid	1.6L GDI	FWD	AM6	205/60R16	5DR	3 163	61.6	62.2	61.9	106.3	45.7	42.40	3 750	
Optima Hybrid	Optima Hybrid	2.0L GDI	FWD	AM6	205/65R16	4DR	184	63.5	63.8	63.6	110.4	48.8	39.89	3,750	
	Optima Hybrid	2.0L GDI	FWD	AM6	215/55R17	4DR	116	63.0	63.4	63.2	110.4	48.5	40.12	3 875	
Optima 2.0T	Optima	2.0L T-GDI		SA6	235/45R18	4DR	4 116	62.9	63.2	63.0	110.4	48.3	40.27	3 875	
Optima Plug in Hybrid	Optima plug-in hybrid	2.0L GDI	FWD	AM6	215/55R17	4DR	93	63.1	63.4	63.2	110.4	48.5	40.12	4,000	
Sportage 2.0T FWD	Sportage FWD	2.0L T-GDI	FWD	SA6	245/45R19	SUV	1,471	63.3	63.8	63.6	105.1	46.4	41.80	4,000	
Cadenza 3.3	Cadenza	3.3L GDI	FWD	SA8	245/45R18	4DR	221	63.3	63.6	63.4	112.4	49.5	39.36	4 000	
ouddined or o	Cadenza	3.3L GDI	FWD	SA8	245/40R19	4DR	462	63.1	63.4	63.2	112.4	49.3	39.51	4 000	
Stinger 2.0T RWD	Stinger RWD	2.0L T-GDI	RWD	SA8	225/45R18	4DR	2,171	62.8	64.8	63.8	114.4	50.7	38.49	4,000	
Stinger 2.0T AWD	Stinger AWD	2.0L T-GDI	AWD	SA8	225/45R18	4DR	1 254	62.8	64.8	63.8	114.4	50.7	38.49	4 250	
Niro Electric	Niro Electric	EV	FWD	A1	215/55R17	5DR	692	62.0	62.4	62.2	106.3	45.9	42.22	4 250	
Stinger 3.3T RWD	Stinger RWD	3.3L T-GDI	RWD	SA8	225/40R19 255/35R19	4DR	2,887	62.8	63.7	63.2	114.4	50.2	38.85	4,250	ſ
	Stinger AWD	3.3L T-GDI	AWD	SA8	225/45R18	4DR	1 374	62.8	64.8	63.8	114.4	50.7	38.49	4 500	
Stinger 3.3T AWD	Stinger AWD	3.3L T-GDI	AWD	SA8	225/40R19 255/35R19	4DR	1,906	62.8	63.7	63.2	10000123	50.2	38.85	4,500	
K900 3.3T AWD	K900	3.3L T-GDI	AWD	SA8	245/45R19(FR)	4DR	461	64.5	64.5	64.5	122.2	54.7	35.85	5,000	1

Projected Required Fuel Economy	42.2
Total Projected Sales Volume	339,941
	Business
	Information

 $CAFE_{required} = \frac{\sum_{i} PRODUCTION_{i}}{\sum_{i} \frac{PRODUCTION_{i}}{TARGET_{i}}}$

III. Projected Average and Required Fuel Economy

ted Average Fuel Economy (without A/C efficiency &	off-cycle cre	dits)				Business Information			Business Information			
Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class	Base Tire	Doors	Projected sales	City FE	Hwy FE	Combined FE	IWC	Model Type Comb.FE	Mor Typ
Rio MT	Rio	1.6L GDI	FWD	M6	185/65R15	4DR	0	37.5	55.1	43.7950	2,750	43.7	0
	Rio	1.6L GDI	FWD	M6	185/65R15	5DR	0	37.6	53.7	43.4640	2 750	40.1	2
RIO AT	Rio	1.6L GDI	FWD	SA6	185/65R15	4DR	18 256	37.0	55.0	43.3902	2 750	43.3	20,1
and a second second	Rio	1.6L GDI	FWD	SA6	185/65R15	5DR	1,902	36.5	54.3	42.8159	2,750		
Forte MT	Forte	2.0L MPI	FWD	M6	205/55R15	4DR	2 150	35.8	54.2	42.2552	3 000	42.3	21
Forte FE 2.0 CVT	Forte FE	2.0L MPI	FWD	CVT	195/65R15	4DR	6,339	40.8	61.4	48.0552	3,000	48.1	6,3
	Forte	2.0L MPI	FWD	CVT	205/55R16	4DR	37 445	40.5	59.2	47.2108	3 000		
Forte 2.0 CVT	Forte	2.0L MPI	FWD	CVT	225/45R17	4DR	15 435	39.8	57.7	46.2576	3 000	000 46.5	
10102.0011	Forte	2.0L MPI	FWD	CVT	205/55R16	4DR	21,892	38.7	60.8	46.2680	3,000	40.0	80,
	Forte	2.0L MPI	FWD	CVT	225/45R17	4DR	6 059	37.5	55.5	43.9082	3 000		
Soul 1.6 AT	Soul	1.6L GDI	FWD	SA6	205/60R16	4DR	40,166	33.3	42.4	36.8599	3,000	36.9	40,
Soul 1.6 MT	Soul	1.6L GDI	FWD	M6	205/60R16	4DR	1 987	31.4	43.0	35.7385	3 000	35.7	19
Niro FE	NIro FE	1.6L GDI	FWD	AM6	205/60R16	5DR	821	68.2	66.2	67.2852	3 000	67.3	8
	Soul	2.0L GDI	FWD	SA6	215/55R17	4DR	16.699	32.2	43.5	36.4623	3,000	1	
	Soul	2.0L GDI	FWD	SA6	235/45R18	4DR	3 976	31.5	42.8	35,7471	3 500	36.0	
Soul 2.0 AT	Soul	2.0L GDI	FWD	SA6	215/55R17	4DR	6.878	31.0	42.8	35,3908	3,000	36.0	29,
	Soul	2.0L GDI	FWD	SA6	235/45R18	4DR	1 623	30,4	42.6	34,8973	3 500		
Soul 1.6T DCT	Soul	1.6L T-GDI	FWD	AM7	235/45R18	4DR	2 974	33.4	43.9	37.4285	3 500	37.4	2
COMPANY AND A REPORT OF A	Optima FE	2.4L GDI	FWD	SA6	205/65R16	4DR	35,875	32.7	49.2	38.5120	3,500		
Optima FE 2.4	Optima FE	2.4L GDI	FWD	SA6	205/65R16	4DR	18 314	32.7	50.0	38,7303	3 500	38.6	54,
Niro	Niro	1.6L GDI	FWD	AM6	205/60R16	5DR	12,821	65.7	62.5	64.2204	3,500	64.2	12
Niro Touring	Niro Touring	1.6L GDI	FWD	AM6	225/45R18	5DR	2 463	60.0	58.4	59,2693	3 500	59.3	24
Soul Electric	Soul Electric	EV	FWD	OT	205/60R16	4DR	150	429.6	325.6	375.6116	3 500	375.6	1
oou cloud	Optima	2.4L GDI	FWD	SA6	215/55R17	4DR	4.081	32.0	48.1	37.6747	3,500	010.0	-
Optima 2.4	Optima	2.4L GDI	FWD	SA6	235/45R18	4DR	12 153	30.8	46.6	36,3454	3 500	36.9	25
	Optima	2.4L GDI	FWD	SA6	235/45R18	4DR	9.069	31.9	46.8	37.2346	3,500	00.5	
Optima 1.6T	Optima	1.6L T-GDI	FWD	AM7	215/55R17	4DR	8 044	35.2	53.2	41.5220	3 500	41.5	8 (
	Sportage FE FWD	2.4L GDI	FWD	SA6	215/55R17 225/60R17	SUV	23 996	29.2	43.0	34,1288	3 500		_
Sportage FE 2.4 FWD	Sportage FE FWD	2.4L GDI	FWD	SA6	225/60R17	SUV	23 990	29.2	40.8	33.1201	3,500	34.1	24,
		2.4L GDI		SA6	225/55R18	SUV	6 170	28.4	40.0	32,9869			
Sportage 2.4 FWD	Sportage FWD	2.4L GDI	FWD	SA6	225/55R18	SUV	1,594	20.4	41.1	33.7087	3 500	33.1	7,
Alles Dive in United	Sportage FWD	1.6L GDI	FWD	AM6		5DR	3 163	174.6	89.5	122.2794	3,500	122.3	3 1
Niro Piug in Hybrid	Niro Plug-in Hybrid Optima Hybrid	2.0L GDI	FWD	AM6	205/60R16 205/65R16	4DR	184	56.5	63.0	59.2509	3 500		
Optima Hybrid				AM6			104				4.000	59.2	3
Optima 2.0T	Optima Hybrid	2.0L GDI	FWD	SA6	215/55R17	4DR	4 116	56.5	62.5	59.0510 32.0385		20.0	
	Optima Optima plug in hubdid	2.0L T-GDI 2.0L GDI	FWD	AM6	235/45R18	4DR 4DR	4 116	26.7	42.4	121.4267	4 000 4,000	32.0 121.4	41
Optima Plug in Hybrid	Optima plug-in hybrid	2.0L GDI	FWD	SA6	215/55R17	4DR SUV	1471	26.2	39.0	30,7401	4,000		
Sportage 2.0T FWD	Sportage FWD				245/45R19							30.7	14
Cadenza 3.3	Cadenza	3.3L GDI	FWD	SA8	245/45R18	4DR	221	25.9	39.4	30.6215	4 000	30.2	6
	Cadenza	3.3L GDI	FWD	SA8	245/40R19	4DR	462	25.4	38.7	30.0468	4,000		_
Stinger 2.0T RWD	Stinger RWD	2.0L T-GDI	RWD	SA8	225/45R18	4DR	2 171	27.6	41.5	32,4982	4 000	32.5	21
Stinger 2.0T AWD	Stinger AWD	2.0L T-GDI	AWD	SA8	225/45R18	4DR	1,254	27.0	41.3	31.9834	4,000	32.0	1,2
Niro Electric	Niro Electric	EV	FWD	A1	215/55R17	5DR	692	427.9	352.9	390.5494	4 000	390.5	69
Stinger 3.3T RWD	Stinger RWD	3.3L T-GDI	RWD	SA8	225/40R19 255/35R19	4DR	2,887	21.7	32.3	25.4599	4,000	25.5	2,8
	Stinger AWD	3.3L T-GDI	AWD	SA8	225/45R18	4DR	1 374	21.8	33.7	25.9185	4 500		
Stinger 3.3T AWD	Stinger AWD	3.3L T-GDI	AWD	SA8	225/40R19 255/35R19	4DR	1,906	21.1	31.5	24.7819	4,500	25.3	3,2
K900 3.3T AWD	K900	3.3L T-GDI	AWD	SA8	245/45R19(FR) 275/40R19 (RR)	4DR	461	23.0	35.3	27.2770	5,000	27.3	4

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40.5	Projected Average Fuel Economy (without A/C efficiency & off-cycle credits)
40.0139	ROUNDED Avg. comb.
1.006811197	Multiplied Factor
1.4235	'a'
0.0014	C' FACTOR
0.176653035	IW (Added Factor)
0.4585	SF _{3WC}
41.8072	FE _{SWC}
0.013	SF4E W
31.8848	FEawc
339.941	Total Projected Sales Volume

 ${}_{5}600.510\ 12: \mathsf{AFE}_{adj} \quad \mathsf{AFE}[((0.55 \times a \times c) + (0.45 \times c) + (0.5556 \times a) + 0.4487)/((0.55 \times a) + 0.45)] + \mathsf{IW}$

III. Vehicle Configuration Information

		Basic	0		1	63	100000000000000000000000000000000000000	0	1/		Netrated	13 - X / X - 1	Statistics.	Contractory.		Manufacture of		1 11		SPRING OF CONTRACTOR	No. of Concession, Name	Interles		17.000	2	Road load	B
Model yps Description	Carl ne	Eng ne (diap)	Drive	M	Base ire	Doom	Engine code	LWW	E W	Eng Disp	power RW0	Net horsepower	Fuel system	control	/M class	forward accept	OD	NV	Asle ratio	Combined FE	Projected sales	volume	Passenger Volume	Luggage Volume	Body style	power at 50	n
REM	Ro	1.6L GDI	PWD	ŝ	105/65R15	DR	G FOHIC		2750	1.6	97		DR	TWC	MG	6	Yes	06	8	5 7980	0	103.6	89.9		(Compact Cam)		2
2.712	Ro	1.6L GDI	PWD	MO	105/65R15	SOR	G FG-MC		2750	1.6	97		DR	TWC	MS	6	Yes	06	.05	3.60	0	107.9	90.5		(Compact Cars)	10.3	
Rib A	Ro	1.6L GDI	FWD	5.46	105/65R15	DR	G FG-AC	2,00		1.6	97		DFI	TWO	SAG		Yes	33.0	3.07	3 3902	18,256	103.6	89.9		(Compact Cam)	99	2
	Ro	1.6L GDI	FWD	SAS	185/65R15	SOR	G FG-AC		2 875	1.6			DR	TWC	SAG	6	Yes	33.0	3.07	2 8159	1,902	107.9	90.5		(Compact Care)	10.	
Forte M	Forts	2.0L MPI	FWD	MG	205/55R15	DR	G NH-MC	3,021		2.0	110		MFI	TWC	MG	6	Yes	38.		2 2552	2,150	1113	96.0			10.1	-
Forte FE 20 CV	Forte FE Forte	2.0L MPI 2.0L MPI	PWD	CVT CVT	19565R15 20565R16	DR	G NH-CV	3,077	3,125	2.0	110		MFI	TWC	CVT CVT		Yes	28.	00 00	8 0552	6,339	1113	98.0		5(M data cara) 5(M data cara)	96	
	Forte	20, 90	EWD	CVT	225/ 5817	DR	G NH-CV	3,153		20	110		MFI	TWC	OVT		Yes	263		6 2526	15.35	111.3	95.0			100	
Forte 20CV	Forte	2.0L MPI	FWD	CVT	205/55216	DR	G NH-CVS		3,125	2.0	110		MFI	TWC	OVT		Yes	20.3	40. 20	6 2000	21,862	111 3	95.0		5(M data cam)	100	
	Forts	20, MP	PWD	OVT	225/ 5817	DR	G NH-CVS		3,125	20	110		MEL	TWC	OVT		Yes	263		3 9082	6.059	111.3	90.0		5(M data cara)	105	
Soul 16A	Soul	15.00	FWD	SAG	205/00/16	DR	G FD-AC		3,120	1.6	97		DR	TWC	GAG		Yes	12	195	36.0500	0,105	125.2	101.0		7(Small Stalion Wagona)	100	-
SoulisM	Sed	1.6LGD	FWD	5.40	205/60/016	DR	G FD-MC		3,120	1.0	97		DR	TWC	M		Yes	12	330	30 0009	1,907	125.2	101.0		7(Smail Stalion Wagona) 7(Smail Stalion Wagona)	13.1	
NOFE	Nin FE	1.6L GDI	FWD	AMS	205/60816	SDR	G LE-AC		3 250	1.6	78		DR	TWO	AMS		Yes	30.3	3.23	67 2002	821	123.3	100.9			106	
AIDIS	Sed	20,00	FWD	546	215/58817	DR	G NC-AC	3,300		2.0	120		DR	TWC	546		Yes	30.0	327	36.023	15.000	125.2	101.0	2 2	7(Small Station Wegona)	133	
	Soul	20.00	FWD	540	235/ 5818	DR	G NC-AC	1 10		2.0	120		DR	TWC	546		Yes	3 5	3.35	357.71	1,976	125.2	101.0		7(Smal Stallon Wagona)	136	-
Soul 20 A	God	20.00	FWD	SAG	215/589-17	DR	G NO-ACS		3 250	2.0	119		DR	TWO	GAG		Yes	33.6	3.27	35,3008	6.675	125.2	101.0		7(Small Stalion Whigona)	13.3	
	Sed	20,00	PWD	GAG	235/ 5810	DR	O NO-405	3, 17		2.0	119		DR	TWO	SAG		Yes	3 5	3.30	3 8973	1.62		101.0		7(Smail Stalion Wagona)	136	
Soul16 DC	Sed	1.6LT-001	FWD	AMT	235/ 5810	DR	G FU-AM		3 375	1.0	150		DR	TWO	ANT	7	Yes	325	3.2	37, 205	2.97	125.2	101.0		7(Small Station Wagona)	138	
	Optima FE	2. L GOI	FWD	540	205/057/16	DR	G KLAC		3 500	2	130		DR	TWC	546	6	Yes	295	2.00	36 5 (20	35,675	1207	10.8		6(Large cam)	108	
optime FE 2.4	Cotine FE	2.1.00	EWD	546	20545216	DR	G KHACS		3 500	2	130		DF1	TWC	SAG		Yes	295	2.09	35,7303	18.21	120.7	10.8		Gilarge cam)	10.8	
No	No	1.6. GDI	FWD	AME	205/60916	508	G LE-AC		3 500	1.6	70		DR	TWC	AMG		Yes	33.3	3.23	6 220	12.821	123.3	100.9		7(Small Stalion Wapping)	108	
Nito outing	Niro Touring	1.6L GDI	PWD	AME	225/ 5810	508	G LE-AC	3.57	3625	1.6	70		DR	TWO	AMG		Yes	30.3	323	59 2593	2.63	123.3	100.9		7(Smail Stalion Wagona)	12.1	
SoulEettrc	Soul E ect ic	EV	FWD	OT	205/60816	DR	EMOS		3 625	0.0	01		EV	NA	OT	-	No	127.0	328	375 0110	150	1157	20.9		7(Smail Stalion Wagona)	120	
and a way to	Optima	2.1.60	FWD	SAG	215/5917	DR	G KHAC	3.002		2	130		DR	TWC	SAG	6	Yes	296	2.00	37 67 7	.001	120.7	10.0		6(Large cam)	11	t
Optima 2.4	Cotina	2.1.00	FWD	SAG	235/ 5818	DR	G KIAC	3.590	3625	2	130	105	DR	TWC	GAG	6	Yes	295	2.09	363.5	12,153	120.7	10.8		G(Large cam)	11.9	đ
	Cotina	2.1.00	TWO	SAG	235/ 5918	DR	G KHACS	3,590		2	130		DR.	TWO	SAG		Yes	295	2.09	37 23 6	9.009	120.7	10.0		G(Large cars)	11.9	
Optime 16	Cotina	1.6LT-GOI	FWD	AM7	215/59917	DR	G FJ-AMO		3 625	1.6	100		DFI.	TWC	AM7	7	Yes	30.	3.17	1 5220	8.0	120.7	10.8	15.9		10.9	
	Sporage FE FWD	2.1.00	FWD	546	225/50817	SUV	G KLAC	3,627	3 625	2	135	101	DR	TWO	546		Yes	29.0	105	3 1288	21,995		SUV	22	30Smal SUV 2WDI	13.9	1
rtage FE 24 PWD	Sporage FE FWD	2. L GOI	FWD	SAG	225/60R17	SUV	G KUACS	3,627	3 625	2	135		DR	TWC	SAG	6	Yes	29.8	3.05	33.1201	38		SUV		30(Small SUV 2WD)	13.9	đ
12112220	Sporage FWD	2.1.00	FWD	SAG	225/55918	SUV	G KHAC	3,752	3750	2	135	101	DR	TWC	GAG	6	Yes	29.8	3.05	32 9059	6.170		SUV		30/Small SUV 2WD)	1 2	t
contage 2.4 FWD	Sporage FWD	2.1.00	FWD	SAG	225/55918	SUV	G KHACS	3,752	3 750	2	105	101	DR.	TWC	SAG		Yes	29.6	3.05	33 7087	159		SUV		30(Small SUV 2WD)	1 2	1
ro Plug n Hybrid	Niro Plug in Hybrd	1.6L GDI	FWD	AMO	205/60816	SDR	G LE-AMC	3,719	3 750	1.6	70	10	DR	TWC	AMO	6	Yes	58	.19	122 279	3,163	120.3	100.9	19.	7(Smail Stalion Wagona)	112	t
	Optima Hybrd	201.001	FWD	AME	205405816	DR	G NG-AC	3,797	3750	2.0	115	15	DR	TWC	AMS	6	Yes	3.4	132	59 2509	15	118.2	10.8	13.	S(M data cam)	10.2	1
Opt ma Hybr d	Optima Hybrd	2.0L GDI	FWD	AMO	215/58117	DR	G NG-AC	3,830	3875	2.0	115		DR	TWC	AMS	6	Yes	3.1	3.32	59 0010	115	1182	10.8	13.	5(M data cara)	10.3	1
Optime 20	Optime	20LT-001	FWD	SAG	235/ 5818	DR	G KEHAC	3,605	3 875	2.0	103	25	DFI	TWC	GAG	6	Yes	295	2.09	32 0305	,116	1207	10 .8	15.9	G(Large cam)	12	t
ime Plug in Hybrid	Optime plug-in hybrid	2.0L GDI	FWD	AME	21565R17	DR	G NG-AC	,09	000	2.0	115	15	DR	TWC	AMO	6	Yes	360	3.51	121. 287	93	11 7	10.8	99	S(M data cam)	10-5	1
ontage 20 FWD	Sporage FWD	2.0L T-GDI	FWD	SAS	2 5/ 5819	SUV	G KOHAC	3,967	000	2.0	179	20	PR	TWC	SAG	6	Yes	322	1.12	307.01	1, 71		SUV		30(Small SUV 2WD)	1 3	1
-	Caderga	3.3L GDI	FWD	SAD	2 5/ 5818	DR	G60M-AC	,00	000	33	216	290	DR	TWO	SAD	8	Yes	250	3.32	30 62 15	221	123.0	107.8	160	G(Large care)	128	1
Caderos 3 3	Caderza	3.3L GOI	FWD	SAB	2 5/ OR19	DR	GOOM-AC	,067	000	33	216	290	DR	TWC	SAD	8	Yes	27.9	3.32	300 66	62	123 8	107.8	160	G(Large cam)	12.8	1
nger 20 RWD	S Inger RWD	2.0L.T-GDI	RWD	SAD	225/ 5R18	DR	G KL-AC	3,911	000	2.0	100	255	DFI	TWC	SAD		Yes	28.1	3.73	32. 982	2,171	1182		233	S(M data cars)	136	1
Inger20 AWD	S Inper AWD	2.0L T-GDI	AWD	SAB	225/ SR18	DR	G KLAC	,083	250	2.0	100	255	DR	TWC	SAB	8	Yes	28.1	3.73	31 983	1,25	118.2	9.9	23.3	5(Midata cara)	1.	1
N ro Electro	Nro Electric	EV	FWD	At	215/55817	SDR	EMIG	,237	250	0.0	150	201	EV	NA	A1	1	Yes	105.1	150	3905.9	692	1198	97.	22.	7(Smail Stalion Wagona)	10-8	1
nger33 RWD	S inger RWD	3.3L T-GDI	RWD	SAD	225/ OR 19	DR	GEOP-AC	,150	250	3.3	272	305	DR	TWC	SAD		Yes	262	3.5	25. 599	2,007	1182	9.9	20.3	S(M data cam)	153	1
	S Inger AWD	3.31, T-GDI	AWD	DAD	255/35R19 225/ 5R18	DR	GEOP-AC	277	500	33	272	305	DR	TWO	GAD		Yes	26.3	35	25 9185	1.37	118.2		23.3	5/M data cara)	15.1	ł
nger 33 AWD			_		225/ 0819			_		-	_	_				-	-		_			_		-			-
and the second	S Inger AWD	3.3L T-GDI	AWD	SAB	202/00919	DR	GROP-AC	,307	500	33	272	305	DR	TWO	SAD	a	Yes	26.2	35	2 7019	1,905	118.2	9.9	C		16.3	1
DWA EE000	N300	3.3L T-GDI	AWD	SAB	2 5/ 5R19(FR) 275/ 0R19(RR)	DR	GEOP-AC	5.033	5000	3.3	272	305	DR	TWC	SAD		Yes	2 6	35	27 2770	01	125.6	110.3		S(Large care)	155	ſ

IV. Projected Average Fuel Economy Adjustment

1. FCIV _{AC}	Business Information						
AC Efficiency Credit	224,706	· · · · · · · · · · · · · · · · · · ·	(ACCredity 1 000 000)				
CAFE IP Volume	339,941	FCIV _{AC} (gal/mi) =	(ACCredit × 1,000,000)				
FCIV _{AC} (Gal/mi) ²⁾	0.00038092		(VLM × Production × 8887)				
2. FCIV _{oc}	Business Information	2					
OC Credit ¹⁾	127,883	2	(OCCredit x 1,000,000)				
CAFE IP Volume	339,941	$FCIV_{oc} (gal/mi) = \frac{(OCCredit \times 1,000)}{(VLM \times Production \times 1,000)}$					
FCIV _{oc} (Gal/mi) ²⁾	0.000216786		(VLM × Production × 8887)				
P4	MPG	40.5	1				
P4	MPG	40.5	1				
P6	FCIV _{AC} (Gal/mi)	0.000380920	Business				
P6	FCIV _{oc} (Gal/mi)	0.000216786	Information				
August MDC	1						
Average MPG = $\frac{1}{\left[\frac{1}{MPG}\right]}$	$-(FCIV_{AC} + FCIV_{OC} + FCIV_{OC})$	CIV _{PU})					
	Business Information						
VLM	195,264						

1) Credits are estimated based on 2018MY data. Exact credits will be calculated when submitting 2019MY Final Report.

2) Not rounded, only shown in 9 decimal places.