

**PRE-CAFE REPORT  
FOR  
2020 MODEL YEAR  
OF  
HYUNDAI MOTOR COMPANY**

**- Passenger cars -**



NOTE : THIS REPORT CONTAINS [REDACTED] INFORMATION.

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

## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
I	Introduction	1
II	Projected Average and Required Fuel Economy	2 ~ 4
III*	Vehicle Configuration Information	5
IV*	A/C Efficiency Credits	6
V*	Off-cycle Credits	7
VI	Projected Average Fuel Economy Adjustment	8

Note \* : These sections contain [REDACTED] information

## **I. Introduction**

As required by 49 CFR Part 537.9, estimated fuel economy values for Accent, Veloster, Veloster N, Elantra, Elantra SE, Elantra GT, Venue, Kona FWD, Kona AWD, Kona Electric, Ioniq, Ioniq Blue, Ioniq Electric, Ioniq Plug-in Hybrid, Tucson AWD, Tucson FWD, Sonata, Sonata Hybrid, Sonata Hybrid Blue, Nexo, Nexo Blue, Santa Fe FWD, Santa FE AWD, G70 RWD, G70 AWD, G80 RWD, G80 AWD, G90 RWD, G90 AWD 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 2020 exhaust emission standards as defined 40 CFR §86.

## II. Projected Average and Required Fuel Economy

### 1. Projected Average Fuel Economy

- IP : **39.5** MPG (without A/C efficiency & off-cycle credits)

- IP : **40.5** MPG (with A/C efficiency & off-cycle credits)

- DP : N/A

### 2. Projected Required Fuel Economy

- IP : **43.2** MPG

- DP : N/A

At this point in time and based on available best present information, the above projections represent the Hyundai Motor Company (HMC) average and required fuel economy for the 2020 model year for the purpose of the Act.

**II. Projected Average and Required Fuel Economy**

- Projected Required Fuel Economy

**Projected Required** 43.2

Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class	Base Tire	Projected sales	Track width FR (inch)	Track width RR (inch)	Average Track width (inch)	Wheelbase (inch)	Footprint (sqr feet)	Target standard	ETW	IWC
Accent 1.6 CVT	Accent	1.6	FWD	CVT	205/45R17	1,314	59.5	59.7	59.6	101.6	42.1	47.57	3,000	3,000
Accent 1.6 DCT	Accent	1.6	FWD	CVT	185/65R15	16,516	60.0	60.2	60.1	101.6	42.4	47.26	2,875	2,750
Accent 1.6 MT	Accent	1.6	FWD	M6	185/65R15	939	60.0	60.2	60.1	101.6	42.4	47.26	2,875	2,750
G90 3.3T AWD	G90 AWD	3.3	AWD	SAB	245/45R19(F) 275/40R19(R)	924	64.6	64.5	64.6	124.4	55.8	36.59	5,000	5,000
G90 3.3T RWD	G90 RWD	3.3	RWD	SAB	245/45R19(F) 275/40R19(R)	585	64.6	64.5	64.6	124.4	55.8	36.59	5,000	5,000
G90 5.0 AWD	G90 AWD	5.0	AWD	SAB	245/45R19(F) 275/40R19(R)	739	64.6	64.5	64.6	124.4	55.8	36.59	5,250	5,000
G90 5.0 RWD	G90 RWD	5.0	RWD	SAB	245/45R19(F) 275/40R19(R)	832	64.6	64.5	64.6	124.4	55.8	36.59	5,000	5,000
Elantra 1.4 DCT	Elantra	1.4	FWD	AM7	195/65R15	1,843	61.3	61.9	61.6	106.3	45.5	44.27	3,125	3,000
Elantra 1.6 DCT	Elantra	1.6	FWD	AM7	225/40R18	11,059	60.8	61.4	61.2	106.3	45.2	44.55	3,375	3,500
Elantra 1.6T MT	Elantra	1.6	FWD	M6	225/40R18	0	60.8	61.4	61.2	106.3	45.2	44.55	3,375	3,500
Elantra 2.0 CVT	Elantra	2.0	FWD	CVT	220/45R17	5,550	61.0	61.3	61.2	106.3	45.2	44.55	3,250	3,000
	Elantra	2.0	FWD	CVT	220/45R17	7,353	61.0	61.3	61.2	106.3	45.2	44.55	3,250	3,000
	Elantra	2.0	FWD	CVT	205/55R16	48,359	61.2	61.6	61.4	106.3	45.3	44.46	3,125	3,000
	Elantra	2.0	FWD	CVT	205/55R16	64,078	61.2	61.6	61.4	106.3	45.3	44.46	3,125	3,000
	Elantra SE 2.0 CVT	Elantra SE	2.0	FWD	CVT	195/65R15	19,820	61.5	61.9	61.7	106.3	45.5	44.27	3,125
Elantra SE 2.0 CVT	Elantra SE	2.0	FWD	CVT	195/65R15	26,261	61.5	61.9	61.7	106.3	45.5	44.27	3,125	3,000
Elantra 2.0 MT	Elantra	2.0	FWD	M6	195/65R15	0	61.5	61.9	61.7	106.3	45.5	44.27	3,125	3,000
Venuc CVT	Venuc	1.6	FWD	CVT	205/55R17	6,685	60.4	60.9	60.6	99.2	41.8	47.88	3,000	3,000
Venuc MT	Venuc	1.6	FWD	CVT	185/65R15	6,684	61.2	61.3	61.2	99.2	42.2	47.47	3,000	3,000
Sonata 1.6T	Sonata	1.6	FWD	SAB	185/65R15	6,684	61.2	61.3	61.2	99.2	42.2	47.47	2,875	2,750
Sonata 1.6T	Sonata	1.6	FWD	SAB	235/45R18	28,224	63.7	64.0	63.8	112	49.6	40.86	3,625	3,500
Sonata 1.6T	Sonata	2.5	FWD	SAB	215/55R17	31,411	63.9	64.2	64.0	112	49.8	40.71	3,500	3,500
Sonata 2.5 GDI	Sonata	2.5	FWD	SAB	205/65R16	31,410	64.3	64.6	64.4	112	50.1	40.48	3,375	3,500
Santa Fe 2.0 AWD AT	Santa Fe AWD	2.0	AWD	SAB	235/55R19	15,868	64.5	64.8	64.6	108.9	48.9	41.41	4,500	4,500
Santa Fe 2.0 FWD AT	Santa Fe FWD	2.0	FWD	SAB	235/55R19	17,191	64.5	64.8	64.6	108.9	48.9	41.41	4,250	4,000
Santa Fe 2.4 AWD AT	Santa Fe AWD	2.4	AWD	SAB	235/60R18	9,529	64.5	64.8	64.6	108.9	48.9	41.41	4,250	4,000
Santa Fe 2.4 AWD AT	Santa Fe AWD	2.4	AWD	SAB	235/65R17	24,130	64.7	65.0	64.8	108.9	49	41.33	4,000	4,000
Santa Fe 2.4 AWD AT	Santa Fe FWD	2.4	FWD	SAB	235/60R18	8,933	64.5	64.8	64.6	108.9	48.9	41.41	4,000	4,000
Santa Fe 2.4 FWD AT	Santa Fe FWD	2.4	FWD	SAB	235/65R17	23,531	64.7	65.0	64.8	108.9	49	41.33	3,875	4,000
Santa Fe 2.4 FWD AT	Santa Fe FWD	2.4	FWD	SAB	235/60R18	9,098	64.5	64.8	64.6	108.9	48.9	41.41	4,000	4,000
Santa Fe 2.4 FWD AT	Santa Fe FWD	2.4	FWD	SAB	235/65R17	23,965	64.7	65.0	64.8	108.9	49	41.33	3,875	4,000
Elantra GT 2.0 AT	Elantra GT	2.0	FWD	SA6	225/45R17	9,733	61.1	61.7	61.4	104.3	44.5	45.19	3,250	3,000
Elantra GT 1.6T DCT	Elantra GT	1.6	FWD	AM7	225/40R18	2,080	61.0	61.5	61.2	104.3	44.3	45.38	3,375	3,500
Elantra GT 1.6T MT	Elantra GT	1.6	FWD	M6	225/40R18	666	61.0	61.5	61.2	104.3	44.3	45.38	3,375	3,500
Veloster 2.0 AT	Veloster	2.0	FWD	SA6	215/45R17(Nex)	1,042	61.5	62.0	61.8	104.3	44.8	44.91	3,000	3,000
Veloster 2.0 AT	Veloster	2.0	FWD	SA6	225/40R18(Nex)	999	61.0	61.5	61.2	104.3	44.3	45.38	3,125	3,000
Veloster 2.0 MT	Veloster	2.0	FWD	M6	215/45R17(Nex)	208	61.5	62.0	61.8	104.3	44.8	44.91	3,000	3,000
Veloster 1.6 DCT	Veloster	1.6	FWD	AM7	225/40R18(Nex)	1,415	61.0	61.5	61.2	104.3	44.3	45.38	3,250	3,000
Veloster 1.6 MT	Veloster	1.6	FWD	M6	225/40R18(M)	0	61.0	61.5	61.2	104.3	44.3	45.38	3,250	3,000
Veloster 1.6 MT	Veloster	1.6	FWD	M6	225/40R18(Nex)	499	61.0	61.5	61.2	104.3	44.3	45.38	3,250	3,000
Veloster N 2.0 MT	Veloster N	2.0	FWD	M6	225/40R18	301	61.3	61.7	61.5	104.3	44.5	45.19	3,375	3,500
Veloster N 2.0 MT	Veloster N	2.0	FWD	M6	235/35R19	2,701	61.2	61.6	61.4	105.3	44.9	44.82	3,375	3,500
Kona 1.6 AWD AT	Kona AWD	2.0	AWD	AM7	235/45R18	9,987	61.4	61.7	61.6	102.4	43.8	45.86	3,500	3,500
Kona 1.6 FWD AT	Kona FWD	2.0	FWD	AM7	235/45R18	5,826	61.4	61.7	61.6	102.4	43.8	45.86	3,375	3,500
Kona 2.0 AWD AT	Kona AWD	2.0	AWD	SA6	205/60R16	6,765	62.0	62.4	62.2	102.4	44.2	45.48	3,375	3,500
Kona 2.0 AWD AT	Kona AWD	2.0	AWD	SA6	215/55R17	8,120	61.5	61.9	61.7	102.4	43.9	45.77	3,375	3,500
Kona 2.0 FWD AT	Kona FWD	2.0	FWD	SA6	205/60R16	7,822	62.0	62.4	62.2	102.4	44.2	45.48	3,250	3,000
Kona 2.0 FWD AT	Kona FWD	2.0	FWD	SA6	215/55R17	9,403	61.5	61.9	61.7	102.4	43.9	45.77	3,250	3,000
Tucson 2.0 AWD AT	Tucson AWD	2.0	AWD	SA6	225/60R17	4,228	63.3	63.8	63.6	105.1	46.4	43.48	3,750	3,500
Tucson 2.0 FWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	2,977	63.3	63.8	63.6	105.1	46.4	43.48	3,625	3,500
Tucson 2.0 FWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	41,176	63.3	63.8	63.6	105.1	46.4	43.48	3,625	3,500
Tucson 2.4 AWD AT	Tucson AWD	2.4	AWD	SA6	245/45R19	4,305	63.1	63.6	63.4	105.1	46.3	43.56	3,875	4,000
Tucson 2.4 AWD AT	Tucson AWD	2.4	AWD	SA6	225/55R18	19,370	63.3	63.8	63.6	105.1	46.4	43.48	3,875	4,000
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	245/45R19	0	63.1	63.6	63.4	105.1	46.3	43.56	3,750	3,500
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	225/55R18	0	63.3	63.8	63.6	105.1	46.4	43.48	3,750	3,500
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	245/45R19	6,863	63.1	63.6	63.4	105.1	46.3	43.56	3,750	3,500
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	225/55R18	24,020	63.3	63.8	63.6	105.1	46.4	43.48	3,750	3,500
G70 2.0 AWD AT	G70 AWD	2.0	AWD	SAB	225/45R18(F) 255/45R18(R)	2,898	62.8	64.3	63.6	111.6	49.3	41.09	4,000	4,000
G70 2.0 AWD AT	G70 AWD	2.0	AWD	SAB	225/40R19(F) 255/35R19(R)	1,875	62.8	63.1	63.0	111.6	48.8	41.48	4,250	4,000
G70 2.0 RWD AT	G70 RWD	2.0	RWD	SAB	225/45R18(F) 255/45R18(R)	4,433	62.8	64.3	63.6	111.6	49.3	41.09	3,875	4,000
G70 2.0 RWD AT	G70 RWD	2.0	RWD	SAB	225/40R19(F) 255/35R19(R)	3,068	62.8	63.1	63.0	111.6	48.8	41.48	4,000	4,000
G70 2.0 RWD MT	G70 RWD	2.0	RWD	M6	225/40R19(F) 255/35R19(R)	511	62.8	63.1	63.0	111.6	48.8	41.48	4,000	4,000
G70 3.3 AWD AT (PS4, P84S)	G70 AWD	3.3	AWD	SAB	225/40R19(F) 255/35R19(R)	1,364	62.8	63.1	63.0	111.6	48.8	41.48	4,250	4,000
G70 3.3 AWD AT (PS4, P84S)	G70 AWD	3.3	AWD	SAB	225/40R19(F) 255/35R19(R)	0	62.8	63.1	63.0	111.6	48.8	41.48	4,250	4,000
G70 3.3 RWD AT (PS4, P84S)	G70 RWD	3.3	RWD	SAB	225/40R19(F) 255/35R19(R)	2,900	62.8	63.1	63.0	111.6	48.8	41.48	4,250	4,000
G70 3.3 RWD AT (PS4, P84S)	G70 RWD	3.3	RWD	SAB	225/40R19(F) 255/35R19(R)	0	62.8	63.1	63.0	111.6	48.8	41.48	4,250	4,000
G80 3.3 AWD AT	G80 AWD	3.3	AWD	SAB	245/40R19(F) 275/35R19(R)	638	63.8	64.3	64.0	118.5	52.7	38.61	5,000	5,000
G80 3.3 RWD AT	G80 RWD	3.3	RWD	SAB	245/40R19(F) 275/35R19(R)	952	63.8	64.3	64.0	118.5	52.7	38.61	4,750	4,500
G80 3.3 RWD AT	G80 AWD	3.8	AWD	SAB	245/45R18	826	64.1	65.3	64.7	118.5	53.2	38.27	4,750	4,500
G80 3.8 AWD AT	G80 AWD	3.8	AWD	SAB	245/45R18	763	63.8	64.3	64.0	118.5	52.7	38.61	4,750	4,500
G80 3.8 AWD AT	G80 RWD	3.8	RWD	SAB	245/45R18	1,715	64.1	65.3	64.7	118.5	53.2	38.27	4,500	4,500
G80 3.8 RWD AT	G80 RWD	3.8	RWD	SAB	245/40R19(F) 275/35R19(R)	1,144	63.8	64.3	64.0	118.5	52.7	38.61	4,750	4,500
G80 5.0 AWD AT	G80 AWD	5.0	AWD	SAB	245/40R19(F) 275/35R19(R)	127	63.8	64.3	64.0	118.5	52.7	38.61	5,000	5,000
G80 5.0 RWD AT	G80 RWD	5.0	RWD	SAB	245/40R19(F) 275/35R19(R)	191	63.8	64.3	64.0	118.5	52.7	38.61	4,750	4,500
ioniq 1.6 AT	ioniq	1.6	FWD	AM6	195/65R15	5,753	61.5	62.1	61.8	106.3	45.6	44.18	3,375	3,500
ioniq 1.6 AT	ioniq	1.6	FWD	AM6	225/45R17	4,131	61.0	61.5	61.2	106.3	45.2	44.55	3,375	3,500
ioniq BLUE 1.6 AT	ioniq Blue	1.6	FWD	AM6	195/65R15	4,866	61.5	62.1	61.8	106.3	45.6	44.18	3,250	3,000
Sonata Hybrid Blue	Sonata HEV Blue	2.0	FWD	SA6	205/65R16	4,500	64.3	64.6	64.4	112	50.1	40.48	3,625	3,500
Sonata Hybrid	Sonata HEV	2.0	FWD	SA6	215/55R17	4,501	63.9	64.2	64.0	112	49.8	40.71	3,750	3,500
ioniq PHEV	ioniq Plug-in Hybrid	1.6	FWD	AM6	205/55R16	5,690	61.2	61.8	61.5	106.3	45.4	44.36	3,625	3,500
ioniq EV	ioniq Electric	Electric	FWD	A1	205/55R16	1,743	61.2	61.6	61.4	106.3	45.3	44.46	3,	

Nexo	NEXO	Fuelcell	FWD	A1	245/45R19	205	63.5	64.0	63.8	109.8	48.6	41.64	4,500	4,500
Nexo Blue	NEXO Blue	Fuelcell	FWD	A1	225/60R17	115	63.7	64.1	63.9	109.8	48.7	41.56	4,250	4,000

Projected Required	43.2
Total Sales Volume	682,049

$$CAFE_{required} = \frac{\sum_i PRODUCTION_i}{\sum_i PRODUCTION_i - TARGET_i}$$

**II. Projected Average and Required Fuel Economy**

- Projected average Fuel Economy

Projected Average		39.5										
Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class (Drive, type, gear)	Base Tire	Projected sales	City FE	Hwy FE	Combined FE	IWC	Model Type Comb.FE	Model Type Vol
Accent 1.6 CVT	Accent	1.6	FWD	CVT	205/45R17	1,314	42.1	56.4	47.5221	3,000	50.6	17,832
Accent 1.6 MT	Accent	1.6	FWD	CVT	185/65R15	16,518	44.6	61.4	50.8626	2,750	44.7	839
G90 3.3T AWD	G90 AWD	3.3	AWD	SA8	245/45R19(F) 275/40R19(R)	924	21.8	34.7	26.0205	5,000	26.0	924
G90 3.3T RWD	G90 RWD	3.3	RWD	SA8	245/45R19(F) 275/40R19(R)	585	21.7	35.7	26.3500	5,000	26.4	585
G90 5.0 AWD	G90 AWD	5.0	AWD	SA8	245/45R19(F) 275/40R19(R)	739	18.9	32.2	23.2150	5,000	23.2	739
G90 5.0 RWD	G90 RWD	5.0	RWD	SA8	245/45R19(F) 275/40R19(R)	832	19.6	33.2	24.0295	5,000	24.0	832
Elantra 1.4 DCT	Elantra	1.4	FWD	AM7	195/65R15	1,843	44.0	59.7	49.9080	3,000	49.9	1,843
Elantra 1.6 DCT	Elantra	1.6	FWD	AM7	225/40R18	11,058	34.2	48.5	39.4318	3,500	39.4	11,058
Elantra 1.6T MT	Elantra	1.6	FWD	M6	225/40R18	0	29.7	44.4	34.8996	3,500	34.9	0
Elantra 2.0 CVT	Elantra	2.0	FWD	CVT	220/45R17	5,560	38.3	57.9	45.1828	3,000		
	Elantra	2.0	FWD	CVT	220/45R17	7,353	37.1	57.1	44.0418	3,000		
	Elantra	2.0	FWD	CVT	205/55R16	48,359	39.3	60.6	46.8839	3,000	46.3	125,340
	Elantra	2.0	FWD	CVT	205/55R16	64,078	38.9	60.5	46.3460	3,000		
Elantra SE 2.0 CVT	Elantra SE	2.0	FWD	CVT	195/65R15	19,820	41.3	64.0	49.1438	3,000	47.6	46,081
	Elantra SE	2.0	FWD	CVT	195/65R15	26,261	39.0	60.6	46.4505	3,000		
Elantra 2.0 MT	Elantra	2.0	FWD	M6	195/65R15	0	33.4	54.7	40.4961	3,000	40.5	0
Venue CVT	Venue	1.6	FWD	CVT	205/55R17	6,885	37.8	49.0	41.9988	3,000	42.6	13,369
Venue MT	Venue	1.6	FWD	CVT	185/65R15	6,694	38.2	51.3	43.1596	3,000		
Sonata 1.6T	Venue	1.6	FWD	8MT	185/65R15	6,694	35.6	50.7	41.1097	2,750	41.1	6,684
Sonata 2.5 GDI	Sonata	1.6	FWD	SA8	235/45R18	28,224	35.9	55.0	37.9868	3,500	42.5	28,224
Santa Fe 2.0 AWD AT	Sonata	2.5	FWD	SA8	215/55R17	31,411	35.0	54.0	39.3276	3,500	42.5	62,821
Santa Fe 2.0 FWD AT	Santa Fe AWD	2.0	FWD	SA8	205/65R16	31,410	38.7	56.1	43.4636	3,500		
Santa Fe 2.4 AWD AT	Santa Fe FWD	2.4	FWD	SA8	235/55R19	15,868	24.8	38.0	28.8372	4,500	28.8	15,868
Santa Fe 2.4 FWD AT	Santa Fe AWD	2.4	AWD	SA8	235/60R18	17,191	25.5	38.6	30.0963	4,000	30.1	17,191
Santa Fe 2.4 FWD AT	Santa Fe AWD	2.4	AWD	SA8	235/60R18	9,529	26.2	37.8	30.3978	4,000	31.1	33,659
	Santa Fe FWD	2.4	AWD	SA8	235/65R17	24,130	27.2	38.8	31.4282	4,000		
	Santa Fe FWD	2.4	AWD	SA8	235/60R18	8,933	27.6	41.8	32.5806	4,000		
	Santa Fe FWD	2.4	AWD	SA8	235/65R17	23,531	28.0	40.9	32.6314	4,000	32.7	65,527
	Santa Fe FWD	2.4	AWD	SA8	235/60R18	9,098	28.2	40.9	32.7804	4,000		
	Santa Fe FWD	2.4	AWD	SA8	235/65R17	23,965	27.8	41.8	32.7335	4,000		
Elantra GT 2.0 AT	Elantra GT	2.0	FWD	SA6	225/45R17	9,733	31.6	46.6	36.9526	3,000	37.0	9,733
Elantra GT 1.6T DCT	Elantra GT	1.6	FWD	AM7	225/40R18	2,080	32.0	46.4	37.1944	3,500	37.2	2,080
Elantra GT 1.6T MT	Elantra GT	1.6	FWD	M6	225/40R18	666	29.3	42.6	34.0893	3,500	34.1	666
Veloster 2.0 AT	Veloster	2.0	FWD	SA6	215/45R17(Nex)	1,042	36.9	50.9	42.1123	3,000	40.4	2,041
Veloster 2.0 MT	Veloster	2.0	FWD	SA6	225/40R18(Nex)	999	33.7	47.6	38.7994	3,000		
Veloster 1.6 DCT	Veloster	2.0	FWD	M6	215/45R17(Nex)	206	32.4	48.4	38.0621	3,000	38.1	206
Veloster 1.6 MT	Veloster	1.6	FWD	AM7	225/40R18(Nex)	1,415	38.3	49.5	41.2500	3,000	41.2	1,415
Veloster N 2.0 MT	Veloster	1.6	FWD	M6	225/40R18(M)	0	32.1	47.2	37.4983	3,000	38.2	499
Veloster N 2.0 MT	Veloster N	1.6	FWD	M6	225/40R18(Nex)	499	32.5	48.7	38.2214	3,000		
Kona 1.6 AWD AT	Veloster N	2.0	FWD	M6	225/40R18	301	28.1	39.6	32.3242	3,500	31.5	3,002
Kona 1.6 FWD AT	Veloster N	2.0	FWD	M6	235/35R19	2,701	27.3	38.4	31.3821	3,500		
Kona 2.0 AWD AT	Kona AWD	2.0	AWD	AM7	235/45R18	9,987	33.4	42.8	37.0630	3,500	37.1	9,987
Kona 2.0 FWD AT	Kona FWD	2.0	FWD	AM7	235/45R18	5,826	34.9	48.0	39.7862	3,500	39.8	5,826
Kona 2.0 AWD AT	Kona AWD	2.0	AWD	SA6	205/60R16	6,765	33.8	43.8	37.5333	3,500	37.1	14,885
Kona 2.0 FWD AT	Kona AWD	2.0	AWD	SA6	215/55R17	8,120	32.8	43.2	36.7850	3,500		
Kona 2.0 AWD AT	Kona FWD	2.0	FWD	SA6	205/60R16	7,822	35.3	48.4	40.1957	3,000	40.4	17,225
Tucson 2.0 AWD AT	Kona FWD	2.0	FWD	SA6	215/55R17	9,403	35.9	48.5	40.8526	3,000		
Tucson 2.0 FWD AT	Tucson AWD	2.0	AWD	SA6	225/60R17	4,228	27.8	35.9	30.9416	3,500	30.9	4,228
Tucson 2.4 AWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	2,977	30.1	42.4	34.6193	3,500	34.1	44,153
Tucson 2.4 FWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	41,176	29.1	42.9	34.0253	3,500		
Tucson 2.4 AWD AT	Tucson AWD	2.4	AWD	SA6	245/45R19	4,305	28.3	35.3	29.7095	4,000		
Tucson 2.4 FWD AT	Tucson AWD	2.4	AWD	SA6	225/55R18	19,370	27.5	36.9	31.0808	4,000	30.8	23,675
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	245/45R19	0	27.9	40.9	32.5566	3,500		
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	225/55R18	0	27.9	40.6	32.4707	3,500		
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	245/45R19	6,863	27.8	41.1	32.5382	3,500	33.4	30,883
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	225/55R18	24,020	28.8	42.4	33.0582	3,500		
G70 2.0 AWD AT	G70 AWD	2.0	AWD	SA8	225/45R18(F) 255/45R18(R)	2,898	26.4	39.6	31.0588	4,000	30.4	4,773
G70 2.0 RWD AT	G70 AWD	2.0	AWD	SA8	225/40R19(F) 255/35R19(R)	1,875	25.3	37.1	29.5280	4,000		
G70 2.0 RWD AT	G70 RWD	2.0	RWD	SA8	225/45R18(F) 255/45R18(R)	4,433	28.7	43.5	33.8884	4,000	33.1	7,501
G70 2.0 RWD AT	G70 RWD	2.0	RWD	SA8	225/40R19(F) 255/35R19(R)	3,068	27.2	40.5	31.9106	4,000		
G70 2.0 RWD MT	G70 RWD	2.0	RWD	M6	225/40R19(F) 255/35R19(R)	511	23.1	39.3	28.3608	4,000	28.4	511
G70 3.3 AWD AT(PS4, PS4S)	G70 AWD	3.3	AWD	SA8	225/40R19(F) 255/35R19(R)	1,364	22.1	34.8	26.4425	4,000	26.4	1,364
G70 3.3 AWD AT(PS4, PS4S)	G70 AWD	3.3	AWD	SA8	225/40R19(F) 255/35R19(R)	0	22.1	34	26.2315	4,000		
G70 3.3 RWD AT(PS4, PS4S)	G70 RWD	3.3	RWD	SA8	225/40R19(F) 255/35R19(R)	2,900	22.7	36.2	27.2777	4,000	27.3	2,900
G70 3.3 RWD AT(PS4, PS4S)	G70 RWD	3.3	RWD	SA8	225/40R19(F) 255/35R19(R)	0	22.7	35.3	27.0439	4,000		
G80 3.3 AWD AT	G80 AWD	3.3	AWD	SA8	245/40R19(F) 275/35R19(R)	635	21.3	34	25.6037	5,000	25.6	635
G80 3.3 RWD AT	G80 RWD	3.3	RWD	SA8	245/40R19(F) 275/35R19(R)	952	21.7	35.5	26.3008	4,500	26.3	952
G80 3.8 AWD AT	G80 AWD	3.8	AWD	SA8	245/45R18	826	21.9	34.5	26.2071	4,500		
G80 3.8 RWD AT	G80 AWD	3.8	AWD	SA8	245/40R19(F) 275/35R19(R)	763	22.2	33.7	26.2275	4,500	26.2	1,589
G80 3.8 RWD AT	G80 RWD	3.8	RWD	SA8	245/45R18	1,715	23.5	37.6	28.2707	4,500		
G80 3.8 RWD AT	G80 RWD	3.8	RWD	SA8	245/40R19(F) 275/35R19(R)	1,144	22.5	35.1	26.8349	4,500	27.7	2,859
G80 5.0 AWD AT	G80 AWD	5.0	AWD	SA8	245/40R19(F) 275/35R19(R)	127	18.7	31.7	22.9319	5,000	22.9	127
G80 5.0 RWD AT	G80 RWD	5.0	RWD	SA8	245/40R19(F) 275/35R19(R)	191	19.7	34.1	24.3219	4,500	24.3	191
Ioniq 1.6 AT	Ioniq	1.6	FWD	AM6	195/65R15	5,753	75.7	78.5	76.9349	3,500	73.5	9,884
Ioniq BLUE 1.6 AT	Ioniq	1.6	FWD	AM6	225/45R17	4,131	68.3	70.4	69.2293	3,500		
Sonata Hybrid Blue	Ioniq Blue	1.6	FWD	AM6	195/65R15	4,868	75.7	79.1	77.1931	3,000	77.2	4,868
Sonata Hybrid	Sonata HEV Blue	2.0	FWD	SA6	205/65R16	4,500	56	64	59.3377	3,500	59.3	4,500
Sonata Hybrid	Sonata HEV	2.0	FWD	SA6	215/65R17	4,501	55.9	64	59.276	3,500	59.3	4,501

<b>Ioniq PHEV</b>	Ioniq Plug-in Hybrid	1.6	FWD	AM6	205/55R16	5 690	208.9	109.2	148.0666	3500	148.1	5 690
<b>Ioniq EV</b>	Ioniq Electric	Electric	FWD	A1	205/55R16	1 743	502.9	419.6	461.6578	3500	461.7	1 743
<b>Kona EV</b>	Kona Electric	Electric	FWD	A1	215/55R17	7,119	475.9	378.6	426.5676	4000	426.6	7,119
<b>Nexo</b>	NEXO	Fuelcell	FWD	A1	245/45R19	205	576	522.9	550.8287	4500	550.8	205
<b>Nexo Blue</b>	NEXO Blue	Fuelcell	FWD	A1	225/60R17	115	635.8	561.7	600.1712	4000	600.2	115

<b>Average</b>	<b>39.5</b>
<b>ROUNDED Avg. comb.</b>	39.1325
<b>Multiplied Factor</b>	1.00688412
<b>'a'</b>	1.4583
<b>C' FACTOR</b>	0.0014
<b>IW (Added Factor)</b>	0.11129607
<b>SF3WC</b>	0.3283
<b>FE3WC</b>	45.5952
<b>SF4ETW</b>	0.2409
<b>FE4WC</b>	32.8449

§600.510 12 :  $AFE_{eq} = AFE \left[ \frac{(0.55 \times a \times c) + (0.45 \times c) + (0.5556 \times a) + 0.4487}{(0.55 \times a) + 0.45} \right] + IW$



III. Vehicle Configuration Information

Model / ype Description	Car line	Static Eng (hp)	Drive	IM class	Base line	Engine code	LWV	E W	Eng Disp	Net rated power (kW)	Net horsepower	Fuel system	Emission control system	IM class	Number of forward speed	OD	NV	Asse ratio	Combined FE	Projected as es	Passenger Volume	Loggage Volume	Interior Volume	Body style	Road load power at 80 km/h	FWC	
Accent 1.6 CV	Accent	1.6	FWD	CVT	209 SR17	G FM-CV	3.001	3.000	1.8	90	120	DPi	TWC	CVT	1	Yes	29.9	5.3	7,522.1	1.31	90.50	18.00	108.50	(Compact Cars)	10.3	3,500	
Accent 1.6 CV	Accent	1.6	FWD	CVT	155SR15	G FM-CV	2.926	2.915	1.8	80	120	DPi	TWC	CVT	1	Yes	28.9	5.3	9,022.0	19.118	90.50	18.00	108.50	(Compact Cars)	10.3	3,500	
Accent 1.6 CV	Accent	1.6	FWD	MP	209 SR15	G FMAC	2.926	2.915	1.8	80	120	DPi	TWC	MP	6	Yes	29.3	2.6	7,215.2	9.7	90.50	18.00	108.50	(Compact Cars)	9.2	3,500	
Q80 3.3 AWD	Q80 AWD	3.3	AWD	SA8	2 5 SR18F3	G80P-AC	5.117	5.000	3.3	272	365	DPi	TWC	SA8	8	Yes	2.9	3.5	28,020.9	92	113.20	1.80	128.00	(6-Large cars)	15.8	5,000	
Q80 3.3 RWD	Q80 AWD	3.3	RWD	SA8	2 5 SR18F3	G80P-AC	363	5.000	3.3	272	365	DPi	TWC	SA8	8	Yes	2.9	3.5	28,350.0	98	113.20	1.80	128.00	(6-Large cars)	15.8	5,000	
Q80 3.0 AWD	Q80 AWD	3.0	AWD	SA8	2 5 SR18F3	G80B-AC	5.290	5.290	3.0	313	20	DPi	TWC	SA8	8	Yes	2.9	3.5	23,210.0	738	113.20	1.80	128.00	(6-Large cars)	15.5	5,000	
Q80 3.0 RWD	Q80 AWD	3.0	RWD	SA8	2 5 SR18F3	G80B-AC	5.106	5.000	3.0	313	20	DPi	TWC	SA8	8	Yes	2.9	3.5	23,026.6	832	113.20	1.80	128.00	(6-Large cars)	15.5	5,000	
Elantra 1.6 DC	Elantra	1.6	FWD	AM7	155SR15	G UD-AMC	3.157	3.125	1.8	96	128	DPi	TWC	AM7	7	Yes	31.6	3.1	9,800.0	1.8	90.00	1.0	110.20	(5-Midsize cars)	8	3,000	
Elantra 1.6 DC	Elantra	1.6	FWD	AM7	209 SR18	G UD-AMC	3.20	3.275	1.8	100	201	DPi	TWC	AM7	7	Yes	28.9	3.61	30,213	111.000	90.00	1.0	110.20	(5-Midsize cars)	11.8	3,500	
Elantra 1.6 M	Elantra	1.6	FWD	MP	209 SR18	G UD-AMC	3.20	3.275	1.8	100	201	DPi	TWC	MP	6	Yes	28.2	3.3	3,806.6	0	90.00	1.0	110.20	(5-Midsize cars)	12.1	3,500	
Elantra 1.6 M	Elantra	2.0	FWD	CVT	209 SR17	G NH-CV5	3.232	3.250	2.0	110	1.7	DPi	TWC	CVT	1	Yes	26.3	8.6	5,162.8	3,550	90.00	1.0	110.20	(5-Midsize cars)	10.3	3,000	
Elantra 1.6 M	Elantra	2.0	FWD	CVT	209 SR17	G NH-CV1	3.232	3.250	2.0	110	1.7	DPi	TWC	CVT	1	Yes	26.3	8.6	0.18	7,933	90.00	1.0	110.20	(5-Midsize cars)	10.3	3,000	
Elantra 1.6 M	Elantra	2.0	FWD	CVT	209 SR18	G NH-CV1	3.179	3.125	2.0	110	1.7	DPi	TWC	CVT	1	Yes	26	3.68	4,603.9	0.359	90.00	1.0	110.20	(5-Midsize cars)	9.2	3,500	
Elantra 2.0 CV	Elantra	2.0	FWD	CVT	209SR18E	G NH-CV1	3.179	3.125	2.0	110	1.7	DPi	TWC	CVT	1	Yes	26	8.6	4.3	80.0	90.00	1.0	110.20	(5-Midsize cars)	9.3	3,500	
Elantra SE 2.4 CV	Elantra SE	2.0	FWD	CVT	155SR15	G NH-CV5	3.1	3.125	2.0	110	1.7	DPi	TWC	CVT	1	Yes	26.3	8.6	3.1	38	18.000	90.00	1.0	110.20	(5-Midsize cars)	9.2	3,000
Elantra SE	Elantra SE	2.0	FWD	CVT	155SR15	G NH-CV1	3.1	3.125	2.0	110	1.7	DPi	TWC	CVT	1	Yes	26.3	8.6	14,100	20.281	90.00	1.0	110.20	(5-Midsize cars)	9.2	3,000	
Elantra 2.0 M	Elantra	2.0	FWD	MP	155SR15	G NH-AC	3.122	3.125	2.0	110	1.7	DPi	TWC	MP	6	Yes	38.3	3.3	5,361.1	0	90.00	1.0	110.20	(5-Midsize cars)	9	3,000	
Elantra 2.0 M	Elantra	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.603	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue CV	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue	Venue	1.8	FWD	AM7	155SR15	G FM-AC	2.929	2.875	1.8	80	121	DPi	TWC	MP	6	Yes	37	2.7	1,007	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.2	3,500	
Venue CV	Venue	1.8	FWD	CVT	209SR17	G FM-CV1	3.037	3.000	1.8	90	121	DPi	TWC	CVT	1	Yes	33.6	6.8	1,866.8	6.683	91.90	18.70	110.60	(5-Midsize cars)	11.9	3,000	
Venue	Venue	1.6	FWD	CVT	155SR15	G FM-CV1	2.989	3.000	1.8	80	121	DPi	TWC	CVT	1	Yes	33.1	6.68	3,159.6	6.68	91.90	18.70	110.60	(5-Midsize cars)	11.3	3,000	
Venue																											

IV. A/C Efficiency Credits

Model Year Description	Carline	Basic Engine (gpm)	Drive	IM class (Drive type gear)	Refrig. eqpt	A/C Drive System	Projected sales	Reduced	Reduced	Default to	Default to	Efficient	Infrared	Improved	OR Separator	Cal	A/C	VLM	
								Reheat with variable displ. compress. coil	Reheat with fixed displ. or pneumatic compress. coil	Reheat with feedback sensor	Reheat without feedback sensor	Blower Motor Controls	Heat Exchanger	Condensator and/or Evaporator (requires EPA approval)	Measu based gpm	Ethanology Credit			
								1.6 gpm	1.0 gpm	1.6 gpm	1.0 gpm	0.8 gpm	1.0 gpm	1.0 gpm	0.6 gpm	gpm	megagrams		
Accord 1.6 CV	Accord	1.6	PWD	CVT	R123 JF	Belt-driven	1.31	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	975	195-26
Accord 1.8 M	Accord	1.6	PWD	CVT	R123 JF	Belt-driven	16,519	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	12,288	195-26
Accord 1.8 RWD	Accord	1.6	PWD	MR	R123 JF	Belt-driven	299	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	697	195-26
G80 3.3 AWD	G80 AWD	3.3	AWD	SAB	R123 JF	Belt-driven	62	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	5.1	195-26
G80 3.3 RWD	G80 AWD	3.3	AWD	SAB	R123 JF	Belt-driven	985	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3.3	195-26
G80 3.6 AWD	G80 AWD	3.6	AWD	SAB	R123 JF	Belt-driven	729	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3.3	195-26
G80 3.6 RWD	G80 AWD	3.6	AWD	SAB	R123 JF	Belt-driven	852	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3.3	195-26
Elantra 1.4 DC	Elantra	1.8	PWD	AMF	R13 a	Belt-driven	1.8 3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	1,080	195-26
Elantra 1.6 DC	Elantra	1.8	PWD	AMF	R13 a	Belt-driven	11,066	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	6,78	195-26
Elantra 1.6 M	Elantra	1.8	PWD	MR	R13 a	Belt-driven	710	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	0	195-26
Elantra 2.0 CV	Elantra	2.0	PWD	CVT	R13 a	Belt-driven	5,950	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3,251	195-26
Elantra 2.0 RWD	Elantra	2.0	PWD	CVT	R13 a	Belt-driven	7,393	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	307	195-26
Elantra 2.0 M	Elantra	2.0	PWD	CVT	R13 a	Belt-driven	6,550	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	28,088	195-26
Elantra 2.0 V	Elantra	2.0	PWD	CVT	R13 a	Belt-driven	8,074	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	37,536	195-26
Elantra SE 2.0 CV	Elantra SE	2.0	PWD	CVT	R13 a	Belt-driven	10,820	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	11,610	195-26
Elantra SE 2.0 RWD	Elantra SE	2.0	PWD	CVT	R13 a	Belt-driven	26,261	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	15,363	195-26
Elantra 2.0 M	Elantra	2.0	PWD	MR	R13 a	Belt-driven	8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	0	195-26
Elantra 2.0 V	Elantra	1.8	PWD	CVT	R13 a	Belt-driven	6,895	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3,916	195-26
Venus CV	Venus	1.6	PWD	CVT	R13 a	Belt-driven	6,669	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3,915	195-26
Venus M	Venus	1.6	PWD	AMF	R13 a	Belt-driven	6,889	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3,915	195-26
Sonata 1.8	Sonata	1.8	PWD	SAB	R123 JF	Belt-driven	26,022	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	20,1	195-26
Sonata 2.4 0DI	Sonata	2.5	PWD	SAB	R123 JF	Belt-driven	31,11	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	23,307	195-26
Santa Fe 2.0 AWD A	Santa Fe AWD	2.5	PWD	SAB	R123 JF	Belt-driven	31,50	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	23,306	195-26
Santa Fe 2.0 PWD A	Santa Fe AWD	2.5	PWD	SAB	R123 JF	Belt-driven	16,869	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	12,995	195-26
Santa Fe 2.4 AWD A	Santa Fe AWD	2.0	PWD	SAB	R123 JF	Belt-driven	17,191	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	10,070	195-26
Santa Fe 2.4 PWD A	Santa Fe AWD	2.0	PWD	SAB	R123 JF	Belt-driven	9,529	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	5,582	195-26
Santa Fe 2.4 RWD A	Santa Fe AWD	2.0	PWD	SAB	R123 JF	Belt-driven	2,130	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	1,135	195-26
Santa Fe 2.4 M	Santa Fe AWD	2.0	PWD	SAB	R123 JF	Belt-driven	8,883	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	4,523	195-26
Santa Fe 2.4 V	Santa Fe AWD	2.0	PWD	SAB	R123 JF	Belt-driven	23,531	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	13,78	195-26
Santa Fe 2.4 PWD A	Santa Fe AWD	2.0	PWD	SAB	R123 JF	Belt-driven	6,096	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	5,330	195-26
Elantra G 2.0 A	Santa Fe AWD	2.0	PWD	SAB	R123 JF	Belt-driven	23,989	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	1,259	195-26
Elantra G 1.6 DC	Elantra GT	1.8	PWD	AMF	R123 JF	Belt-driven	9,753	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	7,921	195-26
Elantra G 1.8 M	Elantra GT	1.8	PWD	MR	R123 JF	Belt-driven	2,080	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	1,5 3	195-26
Elantra G 1.8 RWD	Elantra GT	1.8	PWD	MR	R123 JF	Belt-driven	698	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	8	195-26
Veloster 2.0 A	Veloster	2.0	PWD	SAB	R123 JF	Belt-driven	1,2 3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	7,1	195-26
Veloster 2.0 M	Veloster	2.0	PWD	MR	R123 JF	Belt-driven	258	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	18	195-26
Veloster 1.6 DC	Veloster	1.6	PWD	AMF	R123 JF	Belt-driven	1,15	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	1,08	195-26
Veloster 1.6 M	Veloster	1.6	PWD	MR	R123 JF	Belt-driven	2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	0	195-26
Veloster 1.6 RWD	Veloster	1.6	PWD	MR	R123 JF	Belt-driven	89	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	370	195-26
Voltair N 2.0 M	Volvo N	2.0	PWD	MR	R123 JF	Belt-driven	361	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	223	195-26
Voltair N 2.0 RWD	Volvo N	2.0	PWD	MR	R123 JF	Belt-driven	2,701	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	2,08	195-26
Kona 1.8 AWD A	Kona AWD	2.0	AWD	AMF	R123 JF	Belt-driven	9,907	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	7, 10	195-26
Kona 1.8 PWD A	Kona AWD	2.0	AWD	AMF	R123 JF	Belt-driven	5,628	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	3,33	195-26
Kona 2.0 AWD A	Kona AWD	2.0	AWD	SAB	R123 JF	Belt-driven	8,785	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3,363	195-26
Kona 2.0 PWD A	Kona AWD	2.0	AWD	SAB	R123 JF	Belt-driven	6,150	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3,97	195-26
Kona 2.0 RWD A	Kona AWD	2.0	AWD	SAB	R123 JF	Belt-driven	7,622	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	582	195-26
ucson 2.0 AWD A	Kona PWD	2.0	PWD	SAB	R123 JF	Belt-driven	8, 93	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	5,598	195-26
ucson 2.0 PWD A	Tucson AWD	2.0	AWD	SAB	R123 JF	Belt-driven	258	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	3,131	195-26
ucson 2.0 RWD A	Tucson PWD	2.0	PWD	SAB	R123 JF	Belt-driven	2,977	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	2,329	195-26
ucson 2.4 AWD A	Tucson PWD	2.0	PWD	SAB	R123 JF	Belt-driven	1,176	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	30,553	195-26
ucson 2.4 PWD A	Tucson AWD	2.0	AWD	SAB	R123 JF	Belt-driven	309	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	3,18	195-26
ucson 2.4 RWD A	Tucson PWD	2.0	PWD	SAB	R123 JF	Belt-driven	19,370	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	1,373	195-26
ucson 2.4 M	Tucson PWD	2.0	PWD	SAB	R123 JF	Belt-driven	0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	0	195-26
ucson 2.4 RWD A	Tucson PWD	2.0	PWD	SAB	R123 JF	Belt-driven	0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	0	195-26
ucson 2.4 PWD A	Tucson PWD	2.0	PWD	SAB	R123 JF	Belt-driven	8,963	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	6,862	195-26
ucson 2.4 RWD A	Tucson PWD	2.0	PWD	SAB	R123 JF	Belt-driven	2,000	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	1,923	195-26
Q70 2.0 AWD A	Q70 AWD	2.0	AWD	SAB	R123 JF	Belt-driven	2,888	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	1,688	195-26
Q70 2.0 RWD A	Q70 AWD	2.0	AWD	SAB	R123 JF	Belt-driven	1,875	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	1,098	195-26
Q70 2.0 RWD M	Q70 AWD	2.0	AWD	SAB	R123 JF	Belt-driven	33	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	2,591	195-26
Q70 3.3 AWD A (P34 P34S)	Q70 AWD	3.3	AWD	SAB	R123 JF	Belt-driven	1,38	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	799	195-26
Q70 3.3 RWD A (P34 P34S)	Q70 AWD	3.3	AWD	SAB	R123 JF	Belt-driven	0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	0	195-26
Q70 3.3 AWD A	Q70 AWD	3.3	AWD	SAB	R123 JF	Belt-driven	2,600	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	1,699	195-26
Q70 3.3 RWD A	Q70 AWD	3.3	AWD	SAB	R123 JF	Belt-driven	0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	0	195-26
Q70 3.6 AWD A	G80 AWD	3.6	AWD	SAB	R123 JF	Belt-driven	859	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	372	195-26
Q70 3.6 RWD A	G80 AWD	3.6	AWD	SAB	R123 JF	Belt-driven	992	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	558	195-26
Q70 3.8 AWD A	G80 AWD	3.8	AWD	SAB	R123 JF	Belt-driven	628	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	8	195-26
Q70 3.8 RWD A	G80 AWD	3.8	AWD	SAB	R123 JF	Belt-driven	783	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	7	195-26
Q70 3.8 AWD A	G80 AWD	3.8	AWD	SAB	R123 JF	Belt-driven	1,175	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	1,185	195-26
Q70 3.8 RWD A	G80 AWD	3.8	AWD	SAB	R123 JF	Belt-driven	1,11												

V. Off-cycle Credits



Model Type Description	Carline	Basic Engine (displ)	Drive	T/M class (Drive, type, gear)	Description	Projected sales	Off cycle benefit per vehicle gpm	Off cycle credits megagrams	VLM
Accent 1.5 CVT	Accent	1.6	FWD	CVT	(17") Lamp 0.16	160	0.2	6	195,264
	Accent	1.6	FWD	CVT	(17") Lamp 0.54	918	0.5	80	195,264
	Accent	1.6	FWD	CVT	(17") Lamp 0.54 Solar reflective surface coating 0.4	191	0.0	34	195,264
	Accent	1.6	FWD	CVT	(17") Lamp 0.43	145	0.4	11	195,264
	Accent	1.6	FWD	CVT	(15") Lamp 0.05	92	0.1	2	195,264
Accent 1.6 MT	Accent	1.6	FWD	CVT	(15") Lamp 0.43	12,763	0.4	997	195,264
	Accent	1.6	FWD	CVT	(15") Lamp 0.43, Solar reflective surface coating 0.4	3,663	0.8	572	195,264
	Accent	1.6	FWD	M6	(15") Lamp 0.43	749	0.4	59	195,264
G90 3.3T AWD	G90 AWD	3.3	AWD	SA8	(15") Lamp 0.43, Solar reflective surface coating 0.4	190	0.8	30	195,264
	G90 AWD	3.3	AWD	SA8	Glazing 0.5 Active seat ventilation 1.0 AAF 0.3	757	1.8	266	195,264
	G90 AWD	3.3	AWD	SA8	Glazing 0.5, Active seat ventilation 1.0, AAF 0.3, Solar reflective surface coating 0.4	167	2.2	72	195,264
G90 3.3T RWD	G90 RWD	3.3	RWD	SA8	Glazing 0.5, Active seat ventilation 1.0, AAF 0.3	441	1.8	155	195,264
	G90 RWD	3.3	RWD	SA8	Glazing 0.5 Active seat ventilation 1.0 AAF 0.3 Solar reflective surface coating 0.4	144	2.2	62	195,264
G90 5.0 AWD	G90 AWD	5.0	AWD	SA8	Glazing 0.5, Active seat ventilation 1.0, AAF 0.3, ATF Warmer 1.5	559	3.3	360	195,264
	G90 AWD	5.0	AWD	SA8	Glazing 0.5 Active seat ventilation 1.0 AAF 0.3 ATF Warmer 1.5 Solar reflective surface coating 0.4	180	3.7	130	195,264
G90 5.0 RWD	G90 RWD	5.0	RWD	SA8	Glazing 0.5, Active seat ventilation 1.0, AAF 0.3, ATF Warmer 1.5	604	3.3	389	195,264
	G90 RWD	5.0	RWD	SA8	Glazing 0.5, Active seat ventilation 1.0, AAF 0.3, ATF Warmer 1.5, Solar reflective surface coating 0.4	228	3.7	165	195,264
Elantra 1.4 DCT	Elantra	1.4	FWD	AM7	Lamp 0.10	1,486	0.1	29	195,264
	Elantra	1.4	FWD	AM7	Lamp 0.10, Solar reflective surface coating 0.4	357	0.5	35	195,264
Elantra 1.6 DCT	Elantra	1.6	FWD	AM7	Glazing 0.1 Lamp 0.48	8,802	0.6	1,031	195,264
	Elantra	1.6	FWD	AM7	Glazing 0.1, Lamp 0.48, Solar reflective surface coating 0.4	2,256	1.0	441	195,264
Elantra 1.5T MT	Elantra	1.6	FWD	M6	Glazing 0.1, Lamp 0.48	0	0.6	0	195,264
	Elantra	1.6	FWD	M6	Glazing 0.1 Lamp 0.48 Solar reflective surface coating 0.4	0	1.0	0	195,264
Elantra 2.0 CVT	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1	39,609	1.6	12,375	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1 Solar reflective surface coating 0.4	21,021	2.0	8,209	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1	11,517	1.6	3,598	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1, Lamp 0.10	973	1.7	323	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Lamp 0.10	48,458	1.6	15,139	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1, Lamp 0.10	52	1.7	17	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5 Glazing 0.1 Lamp 0.48	2,168	2.1	889	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1, Lamp 0.48, Solar reflective surface coating 0.4	357	2.5	174	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1, Lamp 0.48	1,155	2.1	486	195,264
	Elantra	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1	19,830	1.6	6,191	195,264
Elantra SE 2.0 CVT	Elantra SE	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1	26,261	2.0	10,256	195,264
	Elantra SE	2.0	FWD	CVT	ATF Warmer 1.5, Glazing 0.1, Solar reflective surface coating 0.4	0	0.1	0	195,264
Elantra 2.0 MT	Elantra	2.0	FWD	M6	Glazing 0.1	0	0.5	0	195,264
	Elantra	2.0	FWD	M6	Glazing 0.1, Solar reflective surface coating 0.4	0	0.5	0	195,264
Venue CVT	Venue	1.6	FWD	CVT	Lamp (0.06)	6,685	0.1	131	195,264
	Venue	1.6	FWD	CVT	Lamp (0.06)	6,684	0.1	131	195,264
Venue MT	Venue	1.6	FWD	6MT	Lamp (0.06)	6,684	0.1	131	195,264
	Venue	1.6	FWD	6MT	Lamp (0.06)	6,684	0.1	131	195,264
Sonata 1.5T	Sonata	1.6	FWD	SA8	Glazing 0.4 Lamp 0.06	23,476	0.5	2,292	195,264
	Sonata	1.6	FWD	SA8	Glazing 0.4, Lamp 0.06, Solar reflective surface coating 0.4	4,748	0.9	834	195,264
Sonata 2.5 GDI	Sonata	2.5	FWD	SA8	Glazing 0.4, Lamp 0.06, ATF Warmer 1.5	19,094	2.0	7,066	195,264
	Sonata	2.5	FWD	SA8	Glazing 0.4, Lamp 0.06, ATF Warmer 1.5, Solar reflective surface coating 0.4	14,316	2.4	6,737	195,264
	Sonata	2.5	FWD	SA8	Glazing 0.4, Lamp 0.06, ATF Warmer 1.5	15,869	2.0	6,197	195,264
	Sonata	2.5	FWD	SA8	Glazing 0.4, Lamp 0.06, ATF Warmer 1.5 Active seat ventilation 1.0	13,231	3.0	7,751	195,264
	Sonata	2.5	FWD	SA8	Glazing 0.4, Lamp 0.06, ATF Warmer 1.5, Active seat ventilation 1.0	1,251	3.0	733	195,264
	Sonata	2.5	FWD	SA8	Glazing 0.4, Lamp 0.06, ATF Warmer 1.5, Solar reflective surface coating 0.4	11,585	1.1	2,488	195,264
Santa Fe 2.0 AWD AT	Santa Fe AWD	2.0	AWD	SA8	Glazing 1.1	4,283	1.1	1,254	195,264
	Santa Fe AWD	2.0	AWD	SA8	Glazing 1.1 Solar reflective surface coating 0.4	10,763	1.1	2,312	195,264
Santa Fe 2.0 FWD AT	Santa Fe FWD	2.0	FWD	SA8	Glazing 1.1	6,428	1.5	1,883	195,264
	Santa Fe FWD	2.0	FWD	SA8	Glazing 1.1 Solar reflective surface coating 0.4	20,378	2.6	10,346	195,264
Santa Fe 2.4 AWD AT	Santa Fe AWD	2.4	AWD	SA8	ATF warmer 1.5 Glazing 1.1 Solar reflective surface coating 0.4	9,974	3.0	5,257	195,264
	Santa Fe AWD	2.4	AWD	SA8	ATF warmer 1.5, Glazing 1.1	4,337	3.5	2,944	195,264
Santa Fe 2.4 FWD AT	Santa Fe FWD	2.4	FWD	SA8	ATF warmer 1.5, Glazing 1.1	41,475	2.6	21,056	195,264
	Santa Fe FWD	2.4	FWD	SA8	ATF warmer 1.5, Glazing 1.1 Solar reflective surface coating 0.4	18,195	3.0	10,658	195,264
Elantra GT 2.0 AT	Santa Fe FWD	2.4	FWD	SA8	ATF warmer 1.5, Glazing 1.0, Active seat ventilation 1.0	5,857	3.5	4,003	195,264
	Elantra GT	2.0	FWD	SA6	Glazing 0.4, Lamp 0.06, ATF Warmer 1.5, Active seat ventilation 1.0	1,251	3.0	733	195,264
	Elantra GT	2.0	FWD	SA6	Lamp 0.22 glazing 0.3	7,130	0.5	696	195,264
	Elantra GT	2.0	FWD	SA6	Lamp 0.22 glazing 0.3 Solar reflective surface coating 0.4	1,782	0.9	313	195,264
	Elantra GT	2.0	FWD	SA6	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0	821	2.2	353	195,264
	Elantra GT	1.6	FWD	AM7	Lamp 0.66 glazing 0.3	833	1.0	163	195,264
	Elantra GT	1.6	FWD	AM7	Lamp 0.66, glazing 0.3, Solar reflective surface coating 0.4	284	1.4	78	195,264
Elantra GT 1.5T MT	Elantra GT	1.6	FWD	AM7	Lamp 0.66, glazing 0.5	45	1.2	11	195,264
	Elantra GT	1.6	FWD	AM7	Lamp 0.66, glazing 0.5 Active seat ventilation 1.0	918	2.0	394	195,264
	Elantra GT	1.6	FWD	M6	Lamp 0.66, glazing 0.3	493	1.6	96	195,264
Elantra GT 1.5T MT	Elantra GT	1.6	FWD	M6	Lamp 0.66 glazing 0.3 Solar reflective surface coating 0.4	90	1.4	25	195,264
	Elantra GT	1.6	FWD	M6	Lamp 0.66, glazing 0.5	83	1.2	19	195,264
Veloster 2.0 AT	Veloster	2.0	FWD	SA6	Lamp 0.16	1,042	0.2	41	195,264
	Veloster	2.0	FWD	SA6	Lamp 0.16	999	0.2	39	195,264
Veloster 2.0 MT	Veloster	2.0	FWD	M6	Lamp 0.16	208	0.2	8	195,264
	Veloster	2.0	FWD	M6	Lamp 0.16	1,415	0.2	55	195,264
Veloster 1.5 DCT	Veloster	1.6	FWD	AM7	Lamp 0.16	0	0.2	0	195,264
	Veloster	1.6	FWD	M6	Lamp 0.16	499	0.2	19	195,264
Veloster N 2.0 MT	Veloster N	2.0	FWD	M6	Lamp 0.16	391	0.6	12	195,264
	Veloster N	2.0	FWD	M6	Lamp 0.16	2,701	0.2	105	195,264
Kona 1.5 AWD AT	Kona AWD	2.0	AWD	AM7	glazing 1.0 Lamp 0.22 Active seat ventilation 1.0	69	2.2	30	195,264
	Kona AWD	2.0	AWD	AM7	glazing 1.0, Lamp 0.6	9,918	1.6	3,099	195,264
Kona 1.5 FWD AT	Kona FWD	2.0	FWD	AM7	glazing 1.1, Lamp 0.22	15	1.3	4	195,264
	Kona FWD	2.0	FWD	AM7	glazing 1.0 Lamp 0.22 Active seat ventilation 1.0	16	2.2	7	195,264
Kona 2.0 AWD AT	Kona FWD	2.0	FWD	AM7	glazing 1.1, Lamp 0.6	25	1.7	8	195,264
	Kona FWD	2.0	FWD	AM7	glazing 1.0 Lamp 0.6	5,770	1.6	1,803	195,264
	Kona AWD	2.0	AWD	SA6	No credits are generated from these vehicles	4,797	0.0	0	195,264
Kona 2.0 FWD AT	Kona AWD	2.0	AWD	SA6	glazing 1.1	7,204	1.1	1,547	195,264
	Kona FWD	2.0	FWD	SA6	glazing 1.0	2,884	1.0	863	195,264
Tucson 2.0 AWD AT	Kona FWD	2.0	FWD	SA6	No credits are generated from these vehicles	5,431	0.0	0	195,264
	Kona FWD	2.0	FWD	SA6	glazing 1.1	7,558	1.1	1,623	195,264
Tucson 2.0 FWD AT	Kona FWD	2.0	FWD	SA6	glazing 1.0	4,236	1.0	827	195,264
	Tucson AWD	2.0	AWD	SA6	Lamp 0.55, glazing 1.1, ATF Warmer 1.5	3,358	3.2	2,098	195,264
Tucson 2.4 AWD AT	Tucson AWD	2.0	AWD	SA6	Lamp 0.55 glazing 1.1 ATF Warmer 1.5 Solar reflective surface coating 0.4	870	3.6	612	195,264
	Tucson FWD	2.4	AWD	SA6	Lamp 0.55, glazing 1.1, ATF Warmer 1.5	2,977	3.2	1,860	195,264
Tucson 2.4 FWD AT	Tucson FWD	2.4	FWD	SA6	Lamp 0.55 glazing 1.1 ATF Warmer 1.5 Solar reflective surface coating 0.4	41,176	3.6	28,945	195,264
	Tucson FWD	2.4	FWD	SA6	Lamp 0.55, glazing 1.1, ATF Warmer 1.5	4,305	3.2	2,690	195,264
G70 2.0 AWD AT	Tucson AWD	2.4	AWD	SA6	Lamp 0.55 glazing 1.1 ATF Warmer 1.5 Solar reflective surface coating 0.4	19,370	3.6	13,616	195,264
	Tucson FWD	2.4	FWD	SA6	Lamp 0.55 glazing 1.1 ATF Warmer 1.5	0	3.2	0	195,264
G70 2.0 RWD AT	Tucson FWD	2.4	FWD	SA6	Lamp 0.55, glazing 1.1, ATF Warmer 1.5, Solar reflective surface coating 0.4	0	3.2	0	195,264
	Tucson FWD	2.4	FWD	SA6	Lamp 0.55 glazing 1.1 ATF Warmer 1.5	6,863	3.2	4,288	195,264
G70 2.0 RWD MT	Tucson FWD	2.4	FWD	SA6	Lamp 0.55, glazing 1.1, ATF Warmer 1.5, Solar reflective surface coating 0.4	24,020	3.6	16,885	195,264
	G70 AWD	2.0	AWD	SA8	ISG 1.5, Lamp 0.8, Glazing 0.4	2,898	2.7	1,528	195,264
G70 2.0 RWD AT	G70 AWD	2.0	AWD	SA8	ISG 1.5 Lamp 0.8 Glazing 0.4	1,875	2.7	989	195,264
	G70 RWD	2.0	RWD	SA8	ISG 1.5, Lamp 0.8, Glazing 0.4	4,433	2.7	2,337	195,264
G70 2.0 RWD MT	G70 RWD	2.0	RWD	SA8	ISG 1.5 Lamp 0.8 Glazing 0.4	3,068	2.7	1,617	195,264
	G70 RWD	2.0	RWD	M6	ISG 1.5, Lamp 0.8, Glazing 0.4	511	2.7	269	195,264
G70 3.3 AWD AT(PS4, PS4S)	G70 AWD	3.3	AWD	SA8	Lamp 0.8 Glazing 0.4, Active seat ventilation 1.0	1,364	2.2	586	195,264
	G70 AWD	3.3	AWD	SA8	Lamp 0.8 Glazing 0.4 Active seat ventilation 1.0	0	2.2	0	195,264
G70 3.3 RWD AT(PS4, PS4S)	G70 RWD	3.3	RWD	SA8	Lamp 0.8 Glazing 0.4, Active seat ventilation 1.0	2,900	2.2	1,245	195,264
	G70 RWD	3.3	RWD	SA8	Lamp 0.8 Glazing 0.4 Active seat ventilation 1.0	0	2.2	0	195,264
G80 3.3 AWD AT	G80 AWD	3.3	AWD	SA8	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0	470	2.2	202	195,264
	G80 AWD	3.3	AWD	SA8	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0, Solar reflective				

	G80 RWD	3.8	RWD	SA6	Lamp 0.26, glazing 0.5, Active seat ventilation 1.0, ATF warmer 1.5	1,126	3.3	726	195,264	
	G80 RWD	3.8	RWD	SA6	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0, ATF warmer 1.5	750	3.7	542	195,264	
	G80 AWD	5.0	AWD	SA6	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0	98	2.2	42	195,264	
	G80 AWD	5.0	AWD	SA6	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0, Solar reflective surface coating 0.4	29	2.6	15	195,264	
	G80 RWD	5.0	RWD	SA6	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0, ATF warmer 1.5	151	3.7	109	195,264	
	G80 RWD	5.0	RWD	SA6	Lamp 0.66, glazing 0.5, Active seat ventilation 1.0, ATF warmer 1.5, Solar reflective surface coating 0.4	40	4.1	32	195,264	
	IONIQ 1.6 AT	1.6	FWD	AM6	(15") ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.04, Lamp 0.62	4,687	4.8	4,393	195,264	
	IONIQ	1.6	FWD	AM6	(15") ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.04, Lamp 0.62, Solar reflective surface	1,457	5.2	1,479	195,264	
	IONIQ	1.6	FWD	AM6	(17") ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.04, Lamp 0.62	2,544	4.8	2,384	195,264	
	IONIQ	1.6	FWD	AM6	(17") ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.04, Lamp 0.62, Solar reflective surface	1,196	5.2	1,214	195,264	
	IONIQ BLUE 1.6 AT	1.6	FWD	AM6	ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.04	3,607	4.2	2,958	195,264	
	IONIQ Blue	1.6	FWD	AM6	ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.04, Solar reflective surface coating 0.4	1,261	4.6	1,133	195,264	
	Sonata Hybrid Blue	2.0	FWD	SA6	ISG 1.5, AAF 0.65, Glazing 0.4, Lamp 0.06, ATF Warmer 1.5, Active seat ventilation 1.0	4,500	5.2	4,569	195,264	
	Sonata Hybrid	2.0	FWD	SA6	ISG 1.5, AAF 0.65, Glazing 0.4, Lamp 0.06, ATF Warmer 1.5, Active seat ventilation 1.0, Solar reflective surface coating 0.4	4,501	5.6	4,922	195,264	
	IONIQ PHEV	1.6	FWD	AM6	ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.01, Lamp 0.62	862	4.8	808	195,264	
	IONIQ PHEV	1.6	FWD	AM6	ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.01, Lamp 0.62, Solar reflective surface coating 0.4	1,655	5.2	1,680	195,264	
	IONIQ PHEV	1.6	FWD	AM6	ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.01, Lamp 0.72	2,037	4.9	1,949	195,264	
	IONIQ PHEV	1.6	FWD	AM6	ISG 1.5, EHR/Engine Warm-up) 1.5, glazing 0.2, AAF 1.01, Lamp 0.62	1,136	4.8	1,065	195,264	
	IONIQ EV	Electric	FWD	A1	glazing 0.2, AAF 0.3, Lamp 0.56	700	1.1	150	195,264	
	IONIQ EV	IONIQ Electric	Electric	FWD	A1	glazing 0.2, AAF 0.3, Lamp 0.56, Solar reflective surface coating 0.4	607	1.5	178	195,264
	IONIQ EV	IONIQ Electric	Electric	FWD	A1	glazing 0.2, AAF 0.3, Lamp 0.56	436	1.1	94	195,264
	Kona EV	Kona Electric	Electric	FWD	A1	Lamp 0.16, Glazing 0.2	7,119	0.4	556	195,264
	NEXO	NEXO	Fuelcell	FWD	A1	Lamp 0.8, Glazing 0.9	205	1.7	68	195,264
	NEXO Blue	NEXO Blue	Fuelcell	FWD	A1	Lamp 0.8, Glazing 0.9	115	1.7	38	195,264

\* Credits are estimated based on 2018MY data. Exact credits will be calculated when submitting 2020MY Final Report.

\* Off-cycle technologies under EPA review have not been reflected yet.

OCcredit	281,603
Car volume	682,043
FCV <sub>oc</sub> (Gal/mi)	0.000237927
	[REDACTED]

VLM	195,264
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$$FCV_{oc} \text{ (gal/mi)} = \frac{OCcredit \times 1,000,000}{(VLM \times Production \times 8987)}$$