

**MID-CAFE REPORT
FOR
2017 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).

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Note * : These sections contain [REDACTED] information

I. Introduction

As required by 49 CFR Part 537.9, estimated fuel economy values for Accent, Elantra SE, Elantra, Elantra GT, Veloster, Ioniq Blue, Tucson AWD, Tucson FWD, Tucson Eco AWD, Tucson Eco FWD, Sonata, Sonata SPORT/LIMITED, Sonata HYBRID SE, Ioniq Electric, Ioniq, Santa Fe Sport FWD, Santa Fe Sport AWD, Santa Fe Sport ULTIMATE FWD, Tucson FWD, Sonata Limited, Sonata HYBRID, Sonata plug-in hybrid, Azera Limited, Azera, Santa Fe Sport ULTIMATE AWD, G80 RWD, G80 AWD, Tucson Fuel Cell, G90 AWD, G90 RWD 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 2017 exhaust emission standards as defined 40 CFR §86.

II. Projected Average and Required Fuel Economy

1. Projected Average Fuel Economy

- IP : 38.0 MPG (without A/C efficiency & off-cycle credits)

- IP : **38.8** MPG (with A/C efficiency & off-cycle credits)

- DP : N/A

2. Projected Required Fuel Economy

- IP : **38.9** 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 2017 model year for the purpose of the Act.

II. Projected Average and Required Fuel Economy

- Projected Required Fuel Economy

Projected Required	38.9
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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 AT	Accent	1.6	FWD	SA6	P175/70R14(5DR)	20,758	59.3	59.5	59.4	101.2	41.7	42.93	2,875	2,750
	Accent	1.6	FWD	SA6	P195/50R16(5DR)	1,169	59.3	59.5	59.4	101.2	41.7	42.93	2,875	2,750
	Accent	1.6	FWD	SA6	P175/70R14(4DR)	44,172	59.3	59.5	59.4	101.2	41.7	42.93	2,875	2,750
	Accent	1.6	FWD	SA6	P195/50R16(4DR)	11,615	59.3	59.5	59.4	101.2	41.7	42.93	2,875	2,750
Accent 1.6 MT	Accent	1.6	FWD	M6	P175/70R14(5DR)	812	59.3	59.5	59.4	101.2	41.7	42.93	2,875	2,750
	Accent	1.6	FWD	M6	P175/70R14(4DR)	703	59.3	59.5	59.4	101.2	41.7	42.93	2,750	2,750
Elantra SE 2.0 AT	Elantra SE	2.0	FWD	SA6	195/65R15	80,318	61.5	61.9	61.7	106.3	45.5	39.62	3,125	3,000
	Elantra SE	2.0	FWD	SA6	195/65R15	6,541	61.5	61.9	61.7	106.3	45.5	39.62	3,125	3,000
Elantra 2.0 AT	Elantra	2.0	FWD	SA6	205/55R16	126,462	61.2	61.6	61.4	106.3	45.3	39.78	3,125	3,000
	Elantra	2.0	FWD	SA6	225/45R17	35,709	61.0	61.3	61.2	106.3	45.2	39.86	3,250	3,000
	Elantra	2.0	FWD	SA6	205/55R16	16,842	61.2	61.6	61.4	106.3	45.3	39.78	3,125	3,000
	Elantra	2.0	FWD	SA6	225/45R17	6,985	61.0	61.3	61.2	106.3	45.2	39.86	3,250	3,000
Elantra 2.0 MT	Elantra	2.0	FWD	M6	195/65R15	2,476	61.5	61.9	61.7	106.3	45.5	39.62	3,125	3,000
	Elantra GT	2.0	FWD	SA6	P215/45R17	11,093	61.0	61.5	61.2	104.3	44.3	40.61	3,250	3,000
Elantra GT 2.0 AT	Elantra GT	2.0	FWD	SA6	P205/55R16	891	61.2	61.7	61.4	104.3	44.5	40.44	3,250	3,000
Elantra GT 2.0 MT	Elantra GT	2.0	FWD	M6	P205/55R16	78	61.2	61.7	61.4	104.3	44.5	40.44	3,125	3,000
Elantra 1.4T DCT	Elantra	1.4	FWD	AM7	195/65R15	1,452	61.5	61.9	61.7	106.3	45.5	39.62	3,125	3,000
Veloster 1.6 DCT	Veloster	1.6	FWD	AM6	215/45R17	6,818	61.5	62.0	61.8	104.3	44.8	40.19	3,000	3,000
	Veloster	1.6	FWD	AM6	225/40R18	7,181	60.9	61.4	61.2	104.3	44.3	40.61	3,125	3,000
Veloster 1.6 MT	Veloster	1.6	FWD	M6	215/45R17	70	61.5	62.0	61.8	104.3	44.8	40.19	3,000	3,000
Veloster 1.6T DCT	Veloster	1.6	FWD	AM7	225/40R18	1,726	61.5	62.0	61.8	104.3	44.8	40.19	3,250	3,000
Veloster 1.6T MT	Veloster	1.6	FWD	M6	225/40R18	322	61.5	62.0	61.8	104.3	44.8	40.19	3,125	3,000
Ioniq BLUE 1.6 DCT	Ioniq Blue	1.6	FWD	AM6	195/65R15	4,087	61.5	62.1	61.8	106.3	45.6	39.54	3,250	3,000
Tucson 2.0 AWD AT	Tucson AWD	2.0	AWD	SA6	225/60R17	33,172	63.3	63.8	63.6	105.1	46.4	38.9	3,750	3,500
Tucson 2.0 FWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	46,636	63.3	63.8	63.6	105.1	46.4	38.9	3,625	3,500
Tucson 1.6T ECO AWD DCT	Tucson Eco AWD	1.6	AWD	AM7	225/60R17	4,664	63.3	63.8	63.6	105.1	46.4	38.9	3,750	3,500
Tucson 1.6T ECO FWD DCT	Tucson Eco FWD	1.6	FWD	AM7	225/60R17	3,752	63.3	63.8	63.6	105.1	46.4	38.9	3,625	3,500
Sonata 1.6T DCT	Sonata	1.6	FWD	AM7	205/65R16	1,401	63.5	63.8	63.6	110.4	48.8	37.13	3,500	3,500
	Sonata	2.0	FWD	SA6	235/45R18	4,796	62.9	63.2	63.0	110.4	48.3	37.48	3,750	3,500
Sonata 2.0T AT	Sonata	2.4	FWD	SA6	205/65R16	32,999	63.5	63.8	63.6	110.4	48.8	37.13	3,500	3,500
Sonata 2.4 AT	Sonata	2.4	FWD	SA6	205/65R16	54,758	63.5	63.8	63.6	110.4	48.8	37.13	3,500	3,500
Sonata Sport Limited 2.4 AT	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	23,454	63.1	63.4	63.2	110.4	48.5	37.34	3,625	3,500
Sonata Hybrid SE 2.0 AT	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	31,045	63.1	63.4	63.2	110.4	48.5	37.34	3,625	3,500
Sonata Hybrid SE 2.0 AT	Sonata HYBRID SE	2.0	FWD	AM6	205/65R16	7,917	63.5	63.8	63.6	110.4	48.8	37.13	3,750	3,500
Ioniq Electric	Ioniq Electric	0.0	FWD	A1	205/55R16	548	61.2	61.6	61.4	106.3	45.3	39.78	3,500	3,500
Elantra 1.6T DCT	Elantra	1.6	FWD	AM7	225/40R18	2,052	60.8	61.4	61.1	106.3	45.1	39.94	3,375	3,500
Elantra 1.6T MT	Elantra	1.6	FWD	M6	225/40R18	1,839	60.8	61.4	61.1	106.3	45.1	39.94	3,375	3,500
Ioniq 1.6 DCT	Ioniq	1.6	FWD	AM6	195/65R15	5,138	61.5	62.1	61.8	106.3	45.6	39.54	3,375	3,500
Ioniq 1.6 DCT	Ioniq	1.6	FWD	AM6	225/45R17	2,832	61.0	61.5	61.2	106.3	45.2	39.86	3,375	3,500
Santa Fe Sport FWD 2.4 AT	Santa Fe Sport FWD	2.4	FWD	SA6	235/65R17 P235/65R17	65,427	64.3	64.7	64.5	106.3	47.6	37.99	4,000	4,000
Santa Fe Sport AWD 2.4 AT	Santa Fe Sport AWD	2.4	AWD	SA6	235/65R17 P235/65R17	51,964	64.3	64.7	64.5	106.3	47.6	37.99	4,250	4,000
Sanata Fe Sport FWD 2.0T AT	Santa Fe Sport FWD	2.0	FWD	SA6	235/60R18	2,046	64.1	64.5	64.3	106.3	47.5	38.07	4,250	4,000
Sanata Fe Sport AWD 2.0T AT	Santa Fe Sport AWD	2.0	AWD	SA6	235/60R18	1,592	64.1	64.5	64.3	106.3	47.5	38.07	4,250	4,000
Santa Fe Sport ULTIMATE FWD 2.0T AT	Santa Fe Sport ULTIMATE FWD	2.0	FWD	SA6	235/55R19 P235/55R19	11,005	64.1	64.5	64.3	106.3	47.5	38.07	4,250	4,000
Tucson AWD 1.6T DCT	Tucson AWD	1.6	AWD	AM7	245/45R19	26,001	63.1	63.6	63.4	105.1	46.3	38.98	4,000	4,000
Tucson FWD 1.6T DCT	Tucson FWD	1.6	FWD	AM7	245/45R19	23,471	63.1	63.6	63.4	105.1	46.3	38.98	3,875	4,000
Sonata Limited 2.0T AT	Sonata Limited	2.0	FWD	SA6	235/45R18	2,385	62.9	63.2	63.0	110.4	48.3	37.48	3,875	4,000
Sonata HYBRID 2.0 AT	Sonata HYBRID	2.0	FWD	AM6	215/55R17	2,161	63.1	63.3	63.2	110.4	48.5	37.34	3,875	4,000
Sonata HYBRID 2.0 AT	Sonata HYBRID	2.0	FWD	AM6	215/55R17	3,904	63.1	63.3	63.2	110.4	48.5	37.34	4,000	4,000
Sonata plug-in hybrid 2.0 AT	Sonata plug-in hybrid	2.0	FWD	AM6	215/55R17	1,491	63.1	63.3	63.2	110.4	48.5	37.34	4,000	4,000
Azera Limited 3.3 AT	Azera Limited	3.3	FWD	SA6	P245/40R19	1,566	63.3	63.3	63.3	112	49.2	36.85	4,250	4,000
Azera 3.3 AT	Azera	3.3	FWD	SA6	P245/45R18	1,314	63.3	63.3	63.3	112	49.2	36.85	4,000	4,000
Santa Fe Sport ULTIMATE AWD 2.0 AT	Santa Fe Sport ULTIMATE AWD	2.0	AWD	SA6	235/55R19 P235/55R19	9,493	64.1	64.5	64.3	106.3	47.5	38.07	4,500	4,500
G80 RWD 3.8 AT	G80 RWD	3.8	RWD	SA8	245/45R18	7,458	64.1	65.3	64.7	118.5	53.2	34.25	4,500	4,500
G80 AWD 3.8 AT	G80 AWD	3.8	AWD	SA8	245/45R18	5,884	64.1	65.3	64.7	118.5	53.2	34.25	4,750	4,500
Tucson Fuel Cell	Tucson Fuel Cell	0.0	FWD	A1	P215/45R17	58	62.4	62.8	62.6	103.9	45.2	39.86	4,500	4,500
G80 RWD 5.0 AT	G80 RWD	5.0	RWD	SA8	245/40R19(F) 275/35R19(R)	1,494	63.8	64.3	64.0	118.5	52.7	34.56	5,000	5,000
G90 AWD 3.3 AT	G90 AWD	3.3	AWD	SA8	245/45R19(F) 275/40R19(R)	894	64.6	64.5	64.6	124.4	55.8	32.76	5,000	5,000
G90 RWD 3.3 AT	G90 RWD	3.3	RWD	SA8	245/45R19(F) 275/40R19(R)	1,589	64.6	64.5	64.6	124.4	55.8	32.76	5,000	5,000
G90 AWD 5.0 AT	G90 AWD	5.0	AWD	SA8	245/45R19(F) 275/40R19(R)	702	64.6	64.5	64.6	124.4	55.8	32.76	5,250	5,000
G90 RWD 5.0 AT	G90 RWD	5.0	RWD	SA8	245/45R19(F) 275/40R19(R)	1,073	64.6	64.5	64.6	124.4	55.8	32.76	5,000	5,000

Projected Required	38.9
Total Sales Volume	868,055

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

II. Projected Average and Required Fuel Economy

- Projected average Fuel Economy

Projected Average	38.0
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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 AT	Accent	1.6	FWD	SA6	P175/70R14(5DR)	20,758	34.5	53.5	41.0623	2,750	40.7	57,600
	Accent	1.6	FWD	SA6	P195/50R16(5DR)	1,169	34.1	51.0	40.0760	2,750		
	Accent	1.6	FWD	SA6	P175/70R14(4DR)	44,172	34.0	53.2	40.5925	2,750		
	Accent	1.6	FWD	SA6	P195/50R16(4DR)	11,615	34.7	53.6	41.2445	2,750		
Accent 1.6 MT	Accent	1.6	FWD	M6	P175/70R14(5DR)	812	34.8	52.7	41.0787	2,750	42.4	2,400
	Accent	1.6	FWD	M6	P175/70R14(4DR)	703	36.3	55.0	42.8571	2,750		
Elantra SE 2.0 AT	Elantra SE	2.0	FWD	SA6	195/65R15	80,318	38.5	56.5	44.9432	3,000	44.8	75,052
	Elantra SE	2.0	FWD	SA6	195/65R15	6,541	35.9	56.9	43.0497	3,000		
Elantra 2.0 AT	Elantra	2.0	FWD	SA6	205/55R16	126,462	37.5	54.7	43.6808	3,000	43.1	214,137
	Elantra	2.0	FWD	SA6	225/45R17	35,709	36.4	52.4	42.1982	3,000		
	Elantra	2.0	FWD	SA6	205/55R16	16,842	34.9	56.5	42.1516	3,000		
	Elantra	2.0	FWD	SA6	225/45R17	6,985	34.8	53.1	41.1876	3,000		
Elantra 2.0 MT	Elantra	2.0	FWD	M6	195/65R15	2,476	33.4	52.1	39.8338	3,000	39.8	5,710
	Elantra GT	2.0	FWD	SA6	P215/45R17	11,093	30.7	46.2	36.1591	3,000		
Elantra GT 2.0 AT	Elantra GT	2.0	FWD	SA6	P205/55R16	891	30.9	46.2	36.3113	3,000	36.3	18,150
	Elantra GT	2.0	FWD	M6	P205/55R16	78	30.6	46.7	36.2190	3,000		
Elantra 1.4T DCT	Elantra	1.4	FWD	AM7	195/65R15	1,452	41.4	58.8	47.7599	3,000	47.8	5,500
	Elantra	1.6	FWD	AM6	215/45R17	6,818	37.4	52.1	42.8392	3,000		
Veloster 1.6 DCT	Veloster	1.6	FWD	AM6	225/40R18	7,181	36.6	50.5	41.7742	3,000	42.5	10,260
	Veloster	1.6	FWD	M6	215/45R17	70	34.5	49.9	40.0640	3,000		
Veloster 1.6 MT	Veloster	1.6	FWD	AM7	225/40R18	1,726	34.3	46.3	38.8286	3,000	40.1	760
	Veloster	1.6	FWD	M6	225/40R18	322	32.3	47.1	37.6194	3,000		
Veloster 1.6T DCT	Veloster	1.6	FWD	M6	225/40R18	322	32.3	47.1	37.6194	3,000	37.6	2,850
	Veloster	1.6	FWD	M6	225/40R18	322	32.3	47.1	37.6194	3,000		
Ioniq BLUE 1.6 DCT	Ioniq Blue	1.6	FWD	AM6	195/65R15	4,087	75.7	79.1	77.1931	3,000	77.2	10,850
	Ioniq Blue	1.6	FWD	AM6	195/65R15	4,087	75.7	79.1	77.1931	3,000		
Tucson 2.0 AWD AT	Tucson AWD	2.0	AWD	SA6	225/60R17	33,172	27.2	36.3	30.6586	3,500	30.7	9,000
	Tucson FWD	2.0	FWD	SA6	225/60R17	46,636	29.9	43.5	34.7953	3,500		
Tucson 2.0 FWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	46,636	29.9	43.5	34.7953	3,500	34.8	25,200
	Tucson FWD	2.0	FWD	SA6	225/60R17	46,636	29.9	43.5	34.7953	3,500		
Tucson 1.6T ECO AWD DCT	Tucson Eco AWD	1.6	AWD	AM7	225/60R17	4,664	32.1	43.1	36.2650	3,500	36.3	5,400
	Tucson Eco AWD	1.6	AWD	AM7	225/60R17	4,664	32.1	43.1	36.2650	3,500		
Tucson 1.6T ECO FWD DCT	Tucson Eco FWD	1.6	FWD	AM7	225/60R17	3,752	33.8	45.9	38.3493	3,500	38.3	5,400
	Tucson Eco FWD	1.6	FWD	AM7	225/60R17	3,752	33.8	45.9	38.3493	3,500		
Sonata 1.6T DCT	Sonata	1.6	FWD	AM7	205/65R16	1,401	36.3	53.4	42.4116	3,500	42.4	8,900
	Sonata	2.0	FWD	SA6	235/45R18	4,796	28.7	44.6	34.1840	3,500		
Sonata 2.0T AT	Sonata	2.0	FWD	SA6	235/45R18	4,796	28.7	44.6	34.1840	3,500	34.2	3,560
	Sonata	2.4	FWD	SA6	205/65R16	32,999	31.9	51.9	38.5923	3,500		
Sonata 2.4 AT	Sonata	2.4	FWD	SA6	205/65R16	32,999	31.9	51.9	38.5923	3,500	39.5	58,740
	Sonata	2.4	FWD	SA6	205/65R16	32,999	31.9	51.9	38.5923	3,500		
Sonata Sport Limited 2.4 AT	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	23,454	31.0	49.1	37.1652	3,500	38.2	99,680
	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	23,454	31.0	49.1	37.1652	3,500		
Sonata Hybrid SE 2.0 AT	Sonata HYBRID SE	2.0	FWD	AM6	205/65R16	7,917	54.5	62.3	57.7539	3,500	57.8	5,250
	Sonata HYBRID SE	2.0	FWD	AM6	205/65R16	7,917	54.5	62.3	57.7539	3,500		
Ioniq Electric	Ioniq Electric	0.0	FWD	A1	205/55R16	548	149.9	184.5	495.7934	3,500	495.8	800
	Ioniq Electric	0.0	FWD	A1	205/55R16	548	149.9	184.5	495.7934	3,500		
Elantra 1.6T DCT	Elantra	1.6	FWD	AM7	225/40R18	2,052	33.2	46.7	38.1647	3,500	38.2	7,200
	Elantra	1.6	FWD	M6	225/40R18	1,839	28.0	43.1	33.2406	3,500		
Elantra 1.6T MT	Elantra	1.6	FWD	M6	225/40R18	1,839	28.0	43.1	33.2406	3,500	33.2	4,800
	Elantra	1.6	FWD	AM6	195/65R15	5,138	75.7	78.5	76.9349	3,500		
Ioniq 1.6 DCT	Ioniq	1.6	FWD	AM6	195/65R15	5,138	75.7	78.5	76.9349	3,500	73.2	20,150
	Ioniq	1.6	FWD	AM6	225/45R17	2,832	68.3	70.4	69.2293	3,500		
Santa Fe Sport FWD 2.4 AT	Santa Fe Sport FWD	2.4	FWD	SA6	235/65R17 P235/65R17	65,427	26.9	38.8	31.2071	4,000	31.2	57,970
Santa Fe Sport AWD 2.4 AT	Santa Fe Sport AWD	2.4	AWD	SA6	235/65R17 P235/65R17	51,964	24.7	36.6	28.9333	4,000	28.9	46,113
Sanata Fe Sport FWD 2.0T AT	Santa Fe Sport FWD	2.0	FWD	SA6	235/60R18	2,046	25.6	39.7	30.4698	4,000	30.5	2,635
Sanata Fe Sport AWD 2.0T AT	Santa Fe Sport AWD	2.0	AWD	SA6	235/60R18	1,592	24.5	36.5	28.7540	4,000	28.8	3,953
Santa Fe Sport ULTIMATE FWD 2.0T AT	Santa Fe Sport ULTIMATE	2.0	FWD	SA6	235/55R19 P235/55R19	11,005	25.4	37.9	29.8268	4,000	29.8	11,858
Tucson AWD 1.6T DCT	Tucson AWD	1.6	AWD	AM7	245/45R19	26,001	30.5	39.1	33.8504	4,000	33.9	20,700
Tucson FWD 1.6T DCT	Tucson FWD	1.6	FWD	AM7	245/45R19	23,471	32.1	42.6	36.1046	4,000	36.1	24,300
Sonata Limited 2.0T AT	Sonata Limited	2.0	FWD	SA6	235/45R18	2,385	26.9	43.2	32.4015	4,000	32.4	7,120
Sonata HYBRID 2.0 AT	Sonata HYBRID	2.0	FWD	AM6	215/55R17	2,161	54.3	61.0	57.1234	4,000	56.3	9,750
Sonata HYBRID 2.0 AT	Sonata HYBRID	2.0	FWD	AM6	215/55R17	3,904	51.3	61.2	55.3275	4,000	56.3	9,750
Sonata plug-in hybrid 2.0 AT	Sonata plug-in hybrid	2.0	FWD	AM6	215/55 R17	1,491	145.9	89.5	113.6669	4,000	113.7	2,500
Azera Limited 3.3 AT	Azera Limited	3.3	FWD	SA6	P245/40R19	1,566	23.8	39.6	29.0083	4,000	29	4,225
Azera 3.3 AT	Azera	3.3	FWD	SA6	P245/45R18	1,314	24.8	40.3	29.9907	4,000	30	2,775
Santa Fe Sport ULTIMATE AWD 2.0 AT	Santa Fe Sport ULTIMATE AWD	2.0	AWD	SA6	235/55R19 P235/55R19	9,493	23.7	34.4	27.5572	4,500	27.6	9,223
G80 RWD 3.8 AT	G80 RWD	3.8	RWD	SA8	245/45R18	7,458	22.7	40.0	28.1856	4,500	28.2	11,000
G80 AWD 3.8 AT	G80 AWD	3.8	AWD	SA8	245/45R18	5,684	20.4	34.9	25.0911	4,500	25.1	7,000
Tucson Fuel Cell	Tucson Fuel Cell	0.0	FWD	A1	P215/45R17	58	68.0	71.9	464.6753	4,500	464.7	210
G80 RWD 5.0 AT	G80 RWD	5.0	RWD	SA8	245/40R19(F) 275/35R19(R)	1,494	18.3	32.1	22.6895	5,000	22.7	2,000
G90 AWD 3.3 AT	G90 AWD	3.3	AWD	SA8	245/45R19(F) 275/40R19(R)	894	21.5	34.0	25.7621	5,000	25.8	800
G90 RWD 3.3 AT	G90 RWD	3.3	RWD	SA8	245/45R19(F) 275/40R19(R)	1,589	21.5	33.4	25.6053	5,000	25.6	1,200
G90 AWD 5.0 AT	G90 AWD	5.0	AWD	SA8	245/45R19(F) 275/40R19(R)	702	19.2	32.1	23.4387	5,000	23.4	200
G90 RWD 5.0 AT	G90 RWD	5.0	RWD	SA8	245/45R19(F) 275/40R19(R)	1,073	19.5	33.3	23.9701	5,000	24	300

Average	38.0
ROUNDED Avg. comb.	37.6421
Multiplied Factor	1.00691865
'a'	1.4752
C' FACTOR	0.0014
IW (Added Factor)	0.13106964
SF3IWC	0.356
FE3IWC	43.4478
SF4ETW	0.1131
FE4IWC	31.8824

$$\text{\$600.510-12 : AFE}_{\text{eq}} = \text{AFE}[(0.55 \times a \times c) + (0.45 \times c) + (0.5556 \times a) + 0.4487] / [(0.55 \times a) + 0.45] + \text{IW}$$

III. Vehicle Configuration Information

Model Type Description	Carline	Basic Engine (displ)	Drive	T/M class	Base Trn	Engine code	L/W	ETW	Eng. Disp.	Net rated power (kW)	Net horsepower	Fuel system	Emission control system	T/M class	Number of forward speeds	OID	NV	Axle ratio	Combined FE	Projected sales	Interior volume index	Passenger Volume	Luggage Volume	Body style	Road load power @ 80 mph	IWC
Accent 1.6 AT	Accent	1.6 FWD	SA6	P175/70R14(4SDR)	G4FD-AC	2855	2875	1.6	103	138	DFI	TWIC	SA6	6	Yes	33.5	2.94	41.0623	20,758	106.1	89.9	16.2	Compact Cars	10.7	2750	
	Accent	1.6 FWD	SA6	P195/55R16(4SDR)	G4FD-AC	2912	2875	1.6	103	138	DFI	TWIC	SA6	6	Yes	33.5	2.94	40.0760	11,169	106.1	89.9	16.2	Compact Cars	11.3	2750	
	Accent	1.6 FWD	SA6	P195/55R16(4SDR)	G4FD-AC	2946	2875	1.6	103	138	DFI	TWIC	SA6	6	Yes	33.5	2.94	40.9625	44,172	106.1	89.9	16.2	Compact Cars	9.8	2750	
Accent 1.6 MT	Accent	1.6 FWD	MB	P175/70R14(4SDR)	G4FD-AC	2789	2875	1.6	103	138	DFI	TWIC	MB	6	Yes	39.7	3.83	41.0787	812	106.1	89.9	16.2	Compact Cars	10.3	2750	
	Accent	1.6 FWD	MB	P175/70R14(4SDR)	G4FD-AC	2780	2750	1.6	103	138	DFI	TWIC	MB	6	Yes	39.7	3.83	42.8571	703	106.1	89.9	16.2	Compact Cars	9.4	2750	
	Accent	1.6 FWD	SA6	P195/55R16	G4NN-ACS	3111	3125	2.0	110	147	SFI	TWIC	SA6	6	Yes	33.1	3.06	44.9432	80,318	110.2	95.8	14.4	Midsize Cars	9.8	3000	
Elantra SE 2.0 AT	Elantra SE	2.0 FWD	SA6	P195/55R16	G4NN-ACS	3111	3125	2.0	110	147	SFI	TWIC	SA6	6	Yes	33.1	3.06	43.0497	6,541	110.2	95.8	14.4	Midsize Cars	9.8	3000	
	Elantra	2.0 FWD	SA6	P205/55R16	G4NN-ACS	3153	3125	2.0	110	147	SFI	TWIC	SA6	6	Yes	33.2	3.06	43.0800	126,462	110.2	95.8	14.4	Midsize Cars	10.1	3000	
	Elantra	2.0 FWD	SA6	P255/45R17	G4NN-ACS	3212	3250	2.0	110	147	SFI	TWIC	SA6	6	Yes	33.1	3.06	42.1982	35,709	110.2	95.8	14.4	Midsize Cars	10.8	3000	
Elantra 2.0 AT	Elantra	2.0 FWD	SA6	P195/55R16	G4NN-ACS	3153	3125	2.0	110	147	SFI	TWIC	SA6	6	Yes	33.1	3.06	42.1516	16,842	110.2	95.8	14.4	Midsize Cars	10.1	3000	
	Elantra	2.0 FWD	SA6	P205/55R16	G4NN-ACS	3212	3250	2.0	110	147	SFI	TWIC	SA6	6	Yes	33.2	3.06	41.1876	6,985	110.2	95.8	14.4	Midsize Cars	10.8	3000	
	Elantra	2.0 FWD	MB	P195/55R16	G4NN-ACS	3087	3125	2.0	110	147	SFI	TWIC	MB	6	Yes	38.3	4.33	39.8338	2,476	110.2	95.8	14.4	Midsize Cars	10.2	3000	
Elantra 2.0 MT	Elantra	2.0 FWD	SA6	P215/45R17	G4NC-AC	3276	3250	2.0	129	173	DFI	TWIC	SA6	6	Yes	35.4	3.27	36.1591	11,093	119.7	96.2	23.5	Midsize Cars	12.1	3000	
	Elantra GT	2.0 FWD	SA6	P205/55R16	G4NC-AC	3203	3250	2.0	129	173	DFI	TWIC	SA6	6	Yes	35.4	3.27	36.3113	891	119.7	96.2	23.5	Midsize Cars	12.1	3000	
	Elantra GT	2.0 FWD	MB	P215/45R17	G4NC-AC	3150	3125	2.0	129	173	DFI	TWIC	MB	6	Yes	38.4	4.33	36.2190	78	119.7	96.2	23.5	Midsize Cars	11.6	3000	
Elantra 1.4T DCT	Elantra	1.4 FWD	AM7	P195/55R16	G4LD-AMC	3157	3125	1.4	96	129	DFI	TWIC	AM7	7	Yes	31.6	3.14	47.7599	1,452	110.2	95.8	14.4	Midsize Cars	10.0	3000	
	Veloster	1.6 FWD	AM8	P215/45R17	G4FD-AMC	3054	3000	1.6	99	132	DFI	TWIC	AM8	6	Yes	36.8	3.76	42.8392	6,818	105.3	89.8	15.5	Compact Cars	11.3	3000	
	Veloster	1.6 FWD	AM8	P255/45R18	G4FD-AMC	3133	3125	1.6	99	132	DFI	TWIC	AM8	6	Yes	36.2	3.76	41.7742	7,181	105.3	89.8	15.5	Compact Cars	11.4	3000	
Veloster 1.6 MT	Veloster	1.6 FWD	MB	P215/45R17	G4FD-AMC	2976	3000	1.6	99	132	DFI	TWIC	MB	6	Yes	41.1	4.27	40.0640	70	106.3	89.8	15.5	Compact Cars	11.1	3000	
	Veloster	1.6 FWD	AM7	P255/45R18	G4FJ-AMC	3243	3250	1.6	150	201	DFI	TWIC	AM7	7	Yes	35.9	3.61	38.8288	1,726	106.3	89.8	15.5	Compact Cars	12.1	3000	
	Veloster	1.6 FWD	MB	P255/45R18	G4FJ-AMC	3179	3125	1.6	150	201	DFI	TWIC	MB	6	Yes	39.2	4.47	37.6194	322	106.3	89.8	15.5	Compact Cars	11.9	3000	
Ioniq BLUE 1.6 DCT	Ioniq Blue	1.6 FWD	AM8	P195/55R16	G4LE-AC	3236	3250	1.6	78	104	DFI	TWIC	AM8	6	Yes	32.6	3.05	77.1931	4,087	122.7	96.2	26.5	Large Cars	9.1	3000	
	Tucson 2.0 AWD AT	2.0 AWD	SA6	P255/45R17	G4NC-AC	3789	3750	2.0	122	164	DFI	TWIC	SA6	6	Yes	35.7	3.05	30.6586	33,172				Small SUV 4WD	15.1	3000	
	Tucson 2.0 FWD AT	2.0 FWD	SA6	P255/45R17	G4NC-AC	3625	3625	2.0	122	164	DFI	TWIC	SA6	6	Yes	34.2	3.51	34.7953	46,636				Small SUV 2WD	13.2	3000	
Tucson 1.6T ECO AWD DCT	Tucson Eco AWD	1.6 AWD	AM7	P255/45R17	G4FJ-AC	3600	3750	1.6	131	175	DFI	TWIC	AM7	7	Yes	32.5	3.58	36.2650	4,664				Small SUV 4WD	14.4	3000	
	Tucson Eco FWD	1.6 FWD	AM7	P255/45R17	G4FJ-AC	3669	3625	1.6	131	175	DFI	TWIC	AM7	7	Yes	32.5	3.58	38.3493	3,752				Small SUV 2WD	13.5	3000	
	Tucson 1.6T DCT	1.6 FWD	AM7	P255/45R17	G4FJ-AMC	3550	3600	1.6	132	175	DFI	TWIC	AM7	7	Yes	30.4	3.17	42.4116	1,401	122.4	106.1	16.3	Large Cars	11.0	3000	
Sonata 1.8T DCT	Sonata	2.0 FWD	SA6	P255/45R18	G4KH-AC	3625	3750	2.0	115	154	DFI	TWIC	SA6	6	Yes	29.5	2.89	34.1840	4,796	122.4	106.1	16.3	Large Cars	12.6	3000	
	Sonata 2.0T AT	2.0 FWD	SA6	P255/45R18	G4KH-AC	3625	3750	2.0	115	154	DFI	TWIC	SA6	6	Yes	29.5	2.89	34.1840	4,796	122.4	106.1	16.3	Large Cars	12.6	3000	
	Sonata 2.4 AT	2.4 FWD	SA6	P205/55R16	G4KJ-AC	3550	3500	2.4	138	185	DFI	TWIC	SA6	6	Yes	29.6	2.89	38.9923	32,999	122.4	106.1	16.3	Large Cars	10.5	3000	
Sonata Sport Limited 2.4 AT	Sonata SPORT LIMITED	2.4 FWD	SA6	P215/45R17	G4KJ-ACS	3653	3625	2.4	138	185	DFI	TWIC	SA6	6	Yes	29.5	2.89	37.8552	23,454	122.4	106.1	16.3	Large Cars	11.6	3000	
	Sonata SPORT LIMITED	2.4 FWD	SA6	P215/45R17	G4KJ-ACS	3653	3625	2.4	138	185	DFI	TWIC	SA6	6	Yes	29.5	2.89	38.7572	31,045	122.4	106.1	16.3	Large Cars	11.5	3000	
	Sonata HYBRID SE	2.0 FWD	AM8	P205/55R16	G4NG-AC	3798	3750	2.0	115	154	DFI	TWIC	AM8	6	Yes	34.1	3.32	57.7539	7,917	119.5	106.1	13.4	Midsize Cars	10.1	3000	
Sonata Hybrid SE 2.0 AT	Ioniq Electric	0.0 FWD	AT	P205/55R16	EM09	3688	3500	0.0	87	117	Electric	N/A	AT	1	N/A	103.1	3.43	495.7934	5,918	119.2	96.2	23	Midsize Cars	9.3	3000	
	Elantra 1.6T DCT	Elantra	1.6 FWD	AM7	P255/45R18	G4FJ-AMC	3408	3375	1.6	150	201	DFI	TWIC	AM7	7	Yes	35.9	3.61	38.1647	2,052	110.2	95.8	14.4	Midsize Cars	11.8	3000
	Elantra 1.6T MT	Elantra	1.6 FWD	MB	P255/45R18	G4FJ-AMC	3342	3375	1.6	150	201	DFI	TWIC	MB	6	Yes	39.2	4.47	33.2408	1,839	110.2	95.8	14.4	Midsize Cars	12.1	3000
Ioniq 1.6 DCT	Ioniq	1.6 FWD	AM8	P195/55R16	G4LE-AC	3331	3375	1.6	78	104	DFI	TWIC	AM8	6	Yes	32.6	3.05	76.9349	5,136	122.7	96.2	26.5	Large Cars	9.1	3000	
	Ioniq	1.6 FWD	AM8	P255/45R17	G4LE-AC	3415	3375	1.6	78	104	DFI	TWIC	AM8	6	Yes	32.5	3.05	69.2253	2,832	122.7	96.2	26.5	Large Cars	10.2	3000	
	Ioniq 1.6 DCT	Ioniq	1.6 FWD	AM8	P255/45R17	G4KJ-AC	3688	4000	2.4	138	185	DFI	TWIC	SA6	6	Yes	32.6	3.51	31.2071	65,427				Small SUV 2WD	14.8	4000
Santa Fe Sport FWD 2.4 AT	Santa Fe Sport FWD	2.4 FWD	SA6	P235/65R17	G4KJ-AC	4158	4250	2.4	136	185	DFI	TWIC	SA6	6	Yes	33.9	3.65	28.9333	51,964				Small SUV 4WD	15.5	4000	
	Santa Fe Sport AWD	2.4 AWD	SA6	P235/65R17	G4KJ-AC	4158	4250	2.4	136	185	DFI	TWIC	SA6	6	Yes	33.9	3.65	28.9333	51,964				Small SUV 4WD	15.5	4000	
	Santa Fe Sport 2.0T AT	2.0 FWD	SA6	P235/65R17	G4KJ-AC	4158	4250	2.0	136	185	DFI	TWIC	SA6	6	Yes	33.9	3.65	28.9333	51,964				Small SUV 4WD	15.5	4000	
Santa Fe Sport AWD 2.0T AT	Santa Fe Sport AWD	2.0 FWD	SA6	P235/65R17	G4KJ-AC	4204	4250	2.0	179	240	DFI	TWIC	SA6	6	Yes	29.7	3.20	30.4998	2,046				Small SUV 2WD	14.4	4000	
	Santa Fe Sport AWD	2.0 FWD	SA6	P235/65R17	G4KJ-AC	4204	4250	2.0	179	240	DFI	TWIC	SA6	6	Yes	32.6	3.17	28.7540	1,592				Small SUV 4WD	15.2	4000	
	Santa Fe Sport ULTIMA	2.0 FWD	SA6	P235/65R17	G4KJ-AC	4233	4250	2.0	179	240	DFI	TWIC	SA6	6	Yes	29.4	3.20	29.8269	11,005				Small SUV 2WD	15.0	4000	
Tucson AWD 1.6T DCT	Tucson AWD	1.6 AWD	AM7	P255/45R18	G4FJ-AC	3698	4000	1.6	131	175	DFI	TWIC	AM7	7	Yes	32.5	3.58	33.8504	26,001				Small SUV 4WD	15.5	4000	
	Tucson FWD	1.6 FWD	AM7	P255/45R18	G4FJ-AC	3833	3875	1.6	131	175	DFI	TWIC	AM7	7	Yes	32.5	3.58	36.1048	23,471				Small SUV 2WD	14.8	4000	
	Tucson 1.6T DCT	1.6 FWD	AM7	P255/45R18	G4FJ-AC	3833	3875	1.6	131	175	DFI	TWIC	AM7	7	Yes	32.5	3.58	36.1								

IV. A/C Efficiency Credits

Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class (Drive, type, gear)	Base Tire	Refrigerant	A/C Drive System	Projected sales	Reduc'd Reheat with variable compressor 1.5 gpm	Reduced Reheat with fixed displ or pneumatic compressor 1.0 gpm	Default to Recirc with feedback sensor 1.5 gpm	Default to Recirc without feedback sensor 1.0 gpm	Efficient Blower Motor Controls 0.8 gpm	Internal Heat Exchanger 1.0 gpm	Improved Condenser and/or Evaporator (requires EPA approval) 1.0 gpm	Oil Separator (requires EPA approval) 0.5 gpm	Total Menu-based Credits gpm	A/C Efficiency Credit megagrams	VLM
Accent	Accent	1.6	FWD	SA6	P175/70R14(SDR)	R134a	V-Belt Driven	20,758	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	0.614	195,264
Accent 1.6 AT	Accent	1.6	FWD	SA6	P195/50R16(SDR)	R134a	V-Belt Driven	1,169	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	162	195,264
Accent	Accent	1.6	FWD	SA6	P175/70R14(4DR)	R134a	V-Belt Driven	44,172	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	17,960	195,264
Accent 1.6 MT	Accent	1.6	FWD	SA6	P195/50R16(4DR)	R134a	V-Belt Driven	11,615	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	1,542	195,264
Accent	Accent	1.6	FWD	M6	P175/70R14(SDR)	R134a	V-Belt Driven	812	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	291	195,264
Accent 1.6 MT	Accent	1.6	FWD	M6	P175/70R14(4DR)	R134a	V-Belt Driven	703	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	109	195,264
Elantra SE 2.0 AT	Elantra SE	2.0	FWD	SA6	195/65R15	R134a	V-Belt Driven	80,318	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	44,467	195,264
Elantra SE	Elantra SE	2.0	FWD	SA6	195/65R15	R134a	V-Belt Driven	6,541	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	3,826	195,264
Elantra	Elantra	2.0	FWD	SA6	205/55R16	R134a	V-Belt Driven	126,462	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	70,811	195,264
Elantra 2.0 AT	Elantra	2.0	FWD	SA6	225/45R17	R134a	V-Belt Driven	35,709	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	15,710	195,264
Elantra	Elantra	2.0	FWD	SA6	205/55R16	R134a	V-Belt Driven	18,842	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	9,810	195,264
Elantra	Elantra	2.0	FWD	SA6	225/45R17	R134a	V-Belt Driven	6,985	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	3,920	195,264
Elantra 2.0 MT	Elantra	2.0	FWD	M6	195/65R15	R134a	V-Belt Driven	2,476	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	1,318	195,264
Elantra GT 2.0 AT	Elantra GT	2.0	FWD	SA6	P215/45R17	R134a	V-Belt Driven	11,093	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.5	2.5	5,131	195,264
Elantra GT	Elantra GT	2.0	FWD	SA6	P205/55R16	R134a	V-Belt Driven	891	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	447	195,264
Elantra GT 2.0 MT	Elantra GT	2.0	FWD	M6	P205/55R16	R134a	V-Belt Driven	78	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	40	195,264
Elantra 1.4T DCT	Elantra GT	1.4	FWD	AM7	195/65R15	R134a	V-Belt Driven	1,452	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	742	195,264
Veloster 1.6 DCT	Veloster	1.6	FWD	AM6	215/45R17	R134a	V-Belt Driven	6,818	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.5	2.5	2,714	195,264
Veloster	Veloster	1.6	FWD	AM6	225/40R18	R134a	V-Belt Driven	7,181	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.5	2.5	287	195,264
Veloster 1.6 MT	Veloster	1.6	FWD	M6	215/45R17	R134a	V-Belt Driven	70	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.5	2.5	34	195,264
Veloster 1.6T DCT	Veloster	1.6	FWD	AM7	225/40R18	R134a	V-Belt Driven	1,728	0.0	1.0	0.0	0.0	0.8	0.0	0.0	0.5	2.3	157	195,264
Veloster 1.6T MT	Veloster	1.6	FWD	M6	225/40R18	R134a	V-Belt Driven	322	0.0	1.0	0.0	0.0	0.8	0.0	0.0	0.5	2.3	61	195,264
Veloster	Veloster	1.6	FWD	M6	195/65R15	R134a	V-Belt Driven	4,087	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	1,290	195,264
Ioniq BLUE 1.6 DCT	Ioniq Blue	1.6	FWD	AM6	225/50R17	R134a	V-Belt Driven	33,172	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	12,509	195,264
Ioniq	Ioniq	1.6	FWD	AM6	225/50R17	R134a	V-Belt Driven	46,636	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	20,301	195,264
Tucson 2.0 FWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	R134a	V-Belt Driven	4,664	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	2,296	195,264
Tucson 1.6T ECO AWD DCT	Tucson Eco AWD	1.6	AWD	AM7	225/60R17	R134a	V-Belt Driven	3,752	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	1,662	195,264
Tucson 1.6T ECO FWD DCT	Tucson Eco FWD	1.6	FWD	AM7	225/60R17	R134a	V-Belt Driven	1,401	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	562	195,264
Sonata 1.6T DCT	Sonata	2.0	FWD	SA6	235/45R18	R134a	V-Belt Driven	4,796	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.0	2,511	195,264
Sonata 2.0 AT	Sonata	2.4	FWD	SA6	205/65R16	R134a	V-Belt Driven	32,999	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	17,403	195,264
Sonata 2.4 AT	Sonata	2.4	FWD	SA6	205/65R16	R134a	V-Belt Driven	54,758	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	28,854	195,264
Sonata Sport Limited 2.4 AT	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	R134a	V-Belt Driven	23,454	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	13,759	195,264
Sonata Sport Limited 2.4 AT	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	R134a	V-Belt Driven	31,045	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	20,281	195,264
Sonata Hybrid SE 2.0 AT	Sonata HYBRID SE	2.0	FWD	AM6	205/65R16	R134a	Electric	7,917	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	3,605	195,264
Ioniq Electric	Ioniq Electric	0.0	FWD	A1	205/55R16	R134a	Electric	548	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	152	195,264
Elantra 1.6T DCT	Elantra	1.6	FWD	AM7	225/40R18	R134a	V-Belt Driven	2,052	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	1,056	195,264
Elantra 1.6T MT	Elantra	1.6	FWD	M6	225/40R18	R134a	V-Belt Driven	1,839	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	815	195,264
Ioniq 1.6 DCT	Ioniq	1.6	FWD	AM6	195/65R15	R134a	V-Belt Driven	5,138	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	1,541	195,264
Ioniq	Ioniq	1.6	FWD	AM6	225/45R17	R134a	V-Belt Driven	2,832	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	1,134	195,264
Santa Fe Sport FWD 2.4 AT	Santa Fe Sport FWD	2.4	FWD	SA6	235/65R17	R134a	V-Belt Driven	65,427	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	44,237	195,264
Santa Fe Sport AWD 2.4 AT	Santa Fe Sport AWD	2.4	AWD	SA6	235/65R17	R134a	V-Belt Driven	51,964	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	33,976	195,264
Sanata Fe Sport FWD 2.0T AT	Santa Fe Sport FWD	2.0	FWD	SA6	235/60R18	R134a	V-Belt Driven	2,046	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	842	195,264
Sanata Fe Sport AWD 2.0T AT	Santa Fe Sport AWD	2.0	AWD	SA6	235/60R18	R134a	V-Belt Driven	1,592	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	1,077	195,264
Santa Fe Sport ULTIMATE FWD 2.0T AT	Santa Fe Sport ULTIMATE	2.0	FWD	SA6	235/55R19	R134a	V-Belt Driven	11,005	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	5,105	195,264
Tucson AWD 1.6T DCT	Tucson AWD	1.6	AWD	AM7	245/45R19	R134a	V-Belt Driven	26,001	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	11,997	195,264
Tucson FWD 1.6T DCT	Tucson FWD	1.6	FWD	AM7	245/45R19	R134a	V-Belt Driven	23,471	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	9,364	195,264
Sonata Limited 2.0T AT	Sonata Limited	2.0	FWD	SA6	235/45R18	R134a	V-Belt Driven	2,385	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	1,333	195,264
Sonata HYBRID 2.0 AT	Sonata HYBRID	2.0	FWD	AM6	215/55R17	R134a	Electric	2,161	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	621	195,264
Sonata HYBRID	Sonata HYBRID	2.0	FWD	AM6	215/55R17	R134a	Electric	3,904	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	1,301	195,264
Sonata plug-in hybrid 2.0 AT	Sonata plug-in hybrid	2.0	FWD	AM6	215/55 R17	R134a	Electric	1,491	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	559	195,264
Azera Limited 3.3 AT	Azera Limited	3.3	FWD	SA6	P245/40R19	R134a	V-Belt Driven	1,566	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	469	195,264
Azera 3.3 AT	Azera	3.3	FWD	SA6	P245/45R19	R134a	V-Belt Driven	1,314	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	444	195,264
Santa Fe Sport ULTIMATE AWD 2.0 AT	Santa Fe Sport ULTIMATE AWD	2.0	AWD	SA6	235/55R19	R134a	V-Belt Driven	9,493	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.5	3.0	4,651	195,264
G90 RWD 3.8 AT	G90 RWD	3.8	RWD	SA8	245/45R18	R134a	V-Belt Driven	7,458	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	5,200	195,264
G90 AWD 3.8 AT	G90 AWD	3.8	AWD	SA8	245/45R18	R134a	V-Belt Driven	5,684	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	3,423	195,264
Tucson Fuel Cell	Tucson Fuel Cell	0.0	FWD	A1	P215/45R17	R134a	Electric	58	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	7	195,264
G80 RWD 5.0 AT	G80 RWD	5.0	RWD	SA8	245/40R19(F)	R134a	V-Belt Driven	1,494	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	803	195,264
G90 AWD 3.3 AT	G90 AWD	3.3	AWD	SA8	245/45R19(R)	R134a	V-Belt Driven	894	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	444	195,264
G90 RWD 3.3 AT	G90 RWD	3.3	RWD	SA8	245/45R19(F)	R134a	V-Belt Driven	1,589	1.5	0.0	0.0	0.0	0.8	1.0	0.0	0.5	3.8	887	195,264

V. Off-cycle Credits

Model Type Description	Carline	Basic Engine (disp)	Drive	TM class (Drive, type, gear)	Base Tire	Description	Projected sales	Off-cycle benefit per vehicle		VLM
								gpm	megagrams	
Accent 1.6 AT	Accent	1.6	FWD	SA6	P175/70R14(5DR)	Lamp 0.06, Side marker rear	20,758	0.1	405	195264
	Accent	1.6	FWD	SA6	P195/50R16(5DR)	Lamp 0.06, Side marker rear	1,169	0.1	23	195264
	Accent	1.6	FWD	SA6	P175/70R14(4DR)	Lamp 0.06, Side marker rear	44,172	0.1	863	195264
	Accent	1.6	FWD	SA6	P195/50R16(4DR)	Lamp 0.06, Side marker rear	11,615	0.1	227	195264
Accent 1.6 MT	Accent	1.6	FWD	M6	P175/70R14(5DR)	Lamp 0.06, Side marker rear	812	0.1	16	195264
	Accent	1.6	FWD	M6	P175/70R14(4DR)	Lamp 0.06, Side marker rear	703	0.1	14	195264
Elantra SE 2.0 AT	Elantra SE	2.0	FWD	SA6	195/65R15	Glazing 0.2	80,318	0.2	3,137	195264
	Elantra SE	2.0	FWD	SA6	195/65R15	Glazing 0.2	6,541	0.2	255	195264
Elantra 2.0 AT	Elantra	2.0	FWD	SA6	205/55R16	Glazing 0.2	126,462	0.2	4,939	195264
	Elantra	2.0	FWD	SA6	225/45R17	Glazing 0.2	35,709	0.2	1,395	195264
	Elantra	2.0	FWD	SA6	205/55R16	Glazing 0.2	16,842	0.2	658	195264
	Elantra	2.0	FWD	SA6	225/45R17	Glazing 0.2	6,955	0.2	273	195264
Elantra 2.0 MT	Elantra	2.0	FWD	M6	195/65R15	Glazing 0.2	2,476	0.2	97	195264
	Elantra GT	2.0	FWD	SA6	P215/45R17	Lamp 0.06, Active seat ventilation 1.0, Glazing 0.5	1,482	1.6	463	195264
Elantra GT 2.0 AT	Elantra GT	2.0	FWD	SA6	P205/55R17	Glazing 0.3	9,691	0.3	568	195264
	Elantra GT	2.0	FWD	SA6	P205/55R16	Glazing 0.3	811	0.3	48	195264
Elantra 1.4T DCT	Elantra	2.0	FWD	M6	P205/55R16	Glazing 0.3	79	0.3	5	195264
Voloster 1.6 DCT	Voloster	1.6	FWD	AM6	215/45R17	No credits are generated from these vehicles	1,452	0.2	57	195264
Voloster 1.6 MT	Voloster	1.6	FWD	AM6	225/40R18	No credits are generated from these vehicles	6,818	0.0	0	195264
Voloster 1.6T DCT	Voloster	1.6	FWD	M6	215/45R17	No credits are generated from these vehicles	7,181	0.0	0	195264
Voloster 1.6T MT	Voloster	1.6	FWD	M6	225/40R18	No credits are generated from these vehicles	70	0.0	0	195264
Voloster 1.6T DCT	Voloster	1.6	FWD	AM7	225/40R18	Lamp 0.16, Parking/position, Side marker rear	1,726	0.2	67	195264
Voloster 1.6T MT	Voloster	1.6	FWD	M6	225/40R18	Lamp 0.16, Parking/position, Side marker rear	322	0.2	13	195264
Voloster 1.6T DCT	Voloster	1.6	FWD	AM6	195/65R15	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Glazing 0.2	4,087	4.1	3,272	195264
Tucson 2.0 AWD AT	Tucson AWD	2.0	AWD	SA6	225/60R17	Glazing 1.0	33,172	1.0	6,477	195264
Tucson 2.0 FWD AT	Tucson FWD	2.0	FWD	SA6	225/60R17	Glazing 1.0	46,636	1.0	9,106	195264
Tucson 1.6T ECO AWD DCT	Tucson Eco AWD	1.6	AWD	AM7	225/60R17	Glazing 1.0	4,664	1.0	911	195264
Tucson 1.6T ECO FWD DCT	Tucson Eco FWD	1.6	FWD	AM7	225/60R17	Glazing 1.0	3,752	1.0	733	195264
Sonata 1.6T DCT	Sonata	1.6	FWD	AM7	205/65R16	Lamp 0.16, Glazing 0.3, Parking/position, Side marker rear	1,401	0.5	137	195264
Sonata 2.0T AT	Sonata	2.0	FWD	SA6	235/45R18	Lamp 0.26, Glazing 0.3, Side marker rear	4,796	0.6	562	195264
Sonata 2.4 AT	Sonata	2.4	FWD	SA6	205/65R16	Lamp 0.16, ATF warmer 1.5, Glazing 0.3, Parking/position, Side marker rear	32,999	2.0	12,887	195264
	Sonata	2.4	FWD	SA6	205/65R16	Lamp 0.16, ATF warmer 1.5, Glazing 0.3, Parking/position, Side marker rear	54,758	2.0	21,385	195264
Sonata Sport Limited 2.4 AT	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	Lamp 0.16, ATF warmer 1.5, Glazing 0.3	22,892	2.0	8,940	195264
	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	Lamp 0.16, ATF warmer 1.5, Glazing 0.3	14,395	2.0	5,622	195264
Sonata Hybrid SE 2.0 AT	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	Lamp 0.26, ATF warmer 1.5, Glazing 0.3	4,347	2.1	1,783	195264
	Sonata SPORT/LIMITED	2.4	FWD	SA6	215/55R17	Lamp 0.26, Active seat ventilation 1.0, ATF warmer 1.5, Glazing 0.3	12,866	3.1	7,788	195264
Sonata Hybrid SE 2.0 AT	Sonata HYBRID SE	2.0	FWD	AM6	205/65R16	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Active seat ventilation 1.0, Glazing 0.2, Parking/position, Side marker rear	7,817	5.1	7,884	195264
Ioniq Electric	Ioniq Electric	0.0	FWD	A1	205/55R16	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Active seat ventilation 1.0, Glazing 0.2, Parking/position, Side marker rear	548	5.1	546	195264
Elantra 1.6T DCT	Elantra	1.6	FWD	AM7	225/40R18	Glazing 0.2	2,052	0.2	80	195264
Elantra 1.6T MT	Elantra	1.6	FWD	M6	225/40R18	Glazing 0.2	1,839	0.2	72	195264
Ioniq 1.6 DCT	Ioniq	1.6	FWD	AM6	195/65R15	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Active seat ventilation 1.0, Glazing 0.2, Parking/position, Side marker rear	5,138	5.1	5,117	195264
	Ioniq	1.6	FWD	AM6	225/45R17	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Active seat ventilation 1.0, Glazing 0.2, Parking/position, Side marker rear	2,832	5.1	2,920	195264
Santa Fe Sport FWD 2.4 AT	Santa Fe Sport FWD	2.4	FWD	SA6	235/65R17	ATF warmer 1.5, Glazing 1.1	57,218	2.6	29,049	195264
	Santa Fe Sport FWD	2.4	FWD	SA6	235/65R17	ATF warmer 1.5, Active seat ventilation 1.0, Glazing 1.0	8,209	3.5	5,610	195264
Santa Fe Sport AWD 2.4 AT	Santa Fe Sport AWD	2.4	AWD	SA6	235/65R17	ATF warmer 1.5, Glazing 1.1	44,854	2.6	22,772	195264
	Santa Fe Sport AWD	2.4	AWD	SA6	235/65R17	ATF warmer 1.5, Active seat ventilation 1.0, Glazing 1.0	7,110	3.5	4,859	195264
Sonata Fe Sport FWD 2.0T AT	Santa Fe Sport FWD	2.0	FWD	SA6	235/60R18	Glazing 1.1	2,046	1.1	439	195264
Sonata Fe Sport AWD 2.0T AT	Santa Fe Sport AWD	2.0	AWD	SA6	235/60R18	Glazing 1.1	1,592	1.1	342	195264
Santa Fe Sport ULTIMATE FWD 2.0T AT	Santa Fe Sport ULTIMATE	2.0	FWD	SA6	235/55R19	Lamp 0.06, Active seat ventilation 1.0, Glazing 1.0	11,005	2.1	4,513	195264
Tucson AWD 1.6T DCT	Tucson AWD	1.6	AWD	AM7	245/45R19	Glazing 1.0	26,001	1.0	5,077	195264
Tucson FWD 1.6T DCT	Tucson FWD	1.6	FWD	AM7	245/45R19	Glazing 1.0	23,471	1.0	4,563	195264
Sonata Limited 2.0T AT	Sonata Limited	2.0	FWD	SA6	235/45R18	Lamp 0.26, Glazing 0.3, Side marker rear	2,386	0.6	279	195264
Sonata HYBRID 2.0 AT	Sonata HYBRID	2.0	FWD	AM6	215/55R17	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Active seat ventilation 1.0, Glazing 0.2	2,161	5.1	2,152	195264
	Sonata HYBRID	2.0	FWD	AM6	215/55R17	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Active seat ventilation 1.0, Glazing 0.2	3,904	5.1	3,888	195264
Sonata plug-in hybrid 2.0 AT	Sonata plug-in hybrid	2.0	FWD	AM6	215/55 R17	Lamp 0.16, ISG 1.5, AAF 0.7, ATF warmer 1.5, Active seat ventilation 1.0, Glazing 0.2	1,491	5.1	1,485	195264
Azera Limited 3.3 AT	Azera Limited	3.3	FWD	SA6	P245/40R18	Lamp 0.06, Active seat ventilation 1.0, Glazing 0.4	1,566	1.5	459	195264
Azera 3.3 AT	Azera	3.3	FWD	SA6	P245/45R18	Lamp 0.06, Active seat ventilation 1.0, Glazing 0.4	1,314	1.5	385	195264
Santa Fe Sport ULTIMATE AWD 2.0 AT	Santa Fe Sport ULTIMATE AWD	2.0	AWD	SA6	235/55R19	Lamp 0.06, Active seat ventilation 1.0, Glazing 1.0	9,493	2.1	3,893	195264
G80 RWD 3.8 AT	G80 RWD	3.8	RWD	SA8	245/45R18	Lamp 0.71, AAF 1.0, ATF warmer 1.5, Glazing 0.4	2,258	3.6	1,587	195264
	G80 RWD	3.8	RWD	SA8	245/45R18	Lamp 0.71, Active seat ventilation 1.0, ATF warmer 1.5, Glazing 0.5	3,094	3.7	2,235	195264
G80 AWD 3.8 AT	G80 AWD	3.8	AWD	SA8	245/45R18	Lamp 0.71, Active seat ventilation 1.0, ATF warmer 1.5, Glazing 0.5	2,105	4.7	1,932	195264
	G80 AWD	3.8	AWD	SA8	245/45R18	Lamp 0.71, AAF 1.0, ATF warmer 1.5, Glazing 0.4	896	3.6	630	195264
Tucson Fuel Cell	G80 AWD	3.8	AWD	SA8	245/45R18	Lamp 0.71, Active seat ventilation 1.0, ATF warmer 1.5, Glazing 0.5	3,356	3.7	2,425	195264
	G80 AWD	3.8	AWD	SA8	245/45R18	Lamp 0.71, Active seat ventilation 1.0, AAF 1.0, ATF warmer 1.5, Glazing 0.5	1,432	4.7	1,314	195264
G80 RWD 5.0 AT	Tucson Fuel Cell	0.0	FWD	A1	P215/45R17	Lamp 0.11, Glazing 0.9	58	1.0	11	195264
G90 AWD 3.3 AT	G80 RWD	5.0	RWD	SA8	245/40R19(F)	Lamp 0.71, Active seat ventilation 1.0, ATF warmer 1.5, Glazing 0.5	1,494	5.1	1,488	195264
	G90 AWD	3.3	AWD	SA8	245/45R19(F)	Lamp 0.77, Active seat ventilation 1.0, Glazing 0.5	894	2.3	402	195264
G90 RWD 3.3 AT	G90 AWD	3.3	AWD	SA8	245/45R19(F)	Lamp 0.77, Active seat ventilation 1.0, Glazing 0.5	1,589	2.3	714	195264
	G90 RWD	3.3	RWD	SA8	245/40R19(R)	Lamp 0.77, Active seat ventilation 1.0, Glazing 0.5	702	2.3	315	195264
G90 AWD 5.0 AT	G90 AWD	5.0	AWD	SA8	245/45R19(F)	Lamp 0.77, Active seat ventilation 1.0, Glazing 0.5	702	2.3	315	195264
	G90 AWD	5.0	AWD	SA8	245/45R19(F)	Lamp 0.77, Active seat ventilation 1.0, Glazing 0.5	1,073	2.3	482	195264

OCcredit	212,965
Car volume	868,055
FCV _{oc} (Gal/ml)	0.000141379

$$FCV_{oc} \text{ (gal/ml)} = \frac{(OCcredit \times 1,000,000)}{(VLM \times Production \times 8887)}$$

VI. Projected Average Fuel Economy Adjustment

Average MPG	38.8
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P4	MPG	38.0
P6	FCIV _{AC} (Gal/mi)	0.000373024
P7	FCIV _{OC} (Gal/mi)	0.000141379
N/A	FCIV _{PU} (Gal/mi)	0

$$\text{Average MPG} = \frac{1}{\left[\frac{1}{\text{MPG}} - (\text{FCIV}_{AC} + \text{FCIV}_{OC} + \text{FCIV}_{PU}) \right]}$$