MID-CAFE REPORT
FOR
2019 MODEL YEAR
OF
HYUNDAI MOTOR COMPANY

- Light Trucks -

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 Santa Fe XL FWD, Santa Fe XL Ultimate FWD, Santa Fe XL AWD, Santa Fe Ultimate XL 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 2019 exhaust emission standards as defined 40 CFR §86.

II. Projected Average and Required Fuel Economy

1. Projected Average Fuel Economy

- **LT : 26.0** MPG (without A/C efficiency & off-cycle credits)

- **LT : 26.8** MPG (with A/C efficiency & off-cycle credits)

2. Projected Required Fuel Economy

- **LT : 32.8** MPG

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 2018 model year for the purpose of the Act.

II. Projected Average and Required Fuel Economy

- Projected Required Fuel Economy

Projected Required	32.8

Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class	Base Tire	[redacted] Business Information	Track width FR (inch)	Track width RR (inch)	Average Track width (inch)	Wheelbase (inch)	footprint (sqr feet)	[redacted] Business Information	ETW	IWC
Santa Fe XL FWD 3.3 AT	Santa Fe XL FWD	3.3	FWD	SA6	235/60R18	2,558	64.1	64.5	64.3	110.2	49.2	32.76	4,250	4,000
Santa Fe XL Ultimate FWD 3.3 AT	Santa Fe XL U timate FWD	3.3	FWD	SA6	235/55R19 P235/55R19	3,723	64.1	64.5	64.3	110.2	49.2	32.76	4,500	4,500
Santa Fe XL AWD 3.3 AT	Santa Fe XL AWD	3.3	AWD	SA6	235/60R18	2,210	64.1	64.5	64.3	110.2	49.2	32.76	4,500	4,500
Santa Fe XL Ultimate AWD 3.3 AT	Santa Fe XL U timate AWD	3.3	AWD	SA6	235/55R19 P235/55R19	2,721	64.1	64.5	64.3	110.2	49.2	32.76	4,750	4,500

Projected Required	32.8
Total Sales Volume	11,212
[redacted]	Business Information

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

II. Projected Average and Required Fuel Economy

- Projected average Fuel Economy

Projected Average	26.0

Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class	Base Tire	[redacted] Business Information	City FE	Hwy FE	[redacted] Business Information	IWC	Model Type Comb.FE	Model Type Vol
Santa Fe XL FWD 3.3 AT	Santa Fe XL FWD	3.3	FWD	SA6	235/60R18	2,558	22.3	35.8	26.8575	4,000	26.9	2,558
Santa Fe XL Ultimate FWD 3.3 AT	Santa Fe XL Ultimate FWD	3.3	FWD	SA6	235/55R19 P235/55R19	3,723	22.0	34.0	26.1538	4,500	26.2	3,723
Santa Fe XL AWD 3.3 AT	Santa Fe XL AWD	3.3	AWD	SA6	235/60R18	2,210	22.0	35.1	26.4407	4,500	26.4	2,210
Santa Fe XL Ultimate AWD 3.3 AT	Santa Fe XL Ultimate AWD	3.3	AWD	SA6	235/55R19 P235/55R19	2,721	20.8	32.0	24.6884	4,500	24.7	2,721

Average	26.0
Total Sales Volume	11,212
	[redacted] Business Information

III Vehicle Configuration Information

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	VW	TW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	V	[illegible]	[redacted] Business Information [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	W
[illegible] AT	Santa [illegible] WD	3.3	WD	[illegible]	[illegible]	[illegible] AC	4 [illegible]	4 [illegible]	3.3	2 [illegible]	280	D I	WC	[illegible]	[illegible]	[illegible]	28.2	3.04	28.[illegible]	2.[illegible]	[illegible]	40.00([illegible]) 3.4(T)	Small SUV 2WD	4.[illegible]	[illegible] equipment [illegible]	No	No (7)	[illegible]	[illegible]	No	[illegible]	[illegible]	4.000
[illegible] AT	Santa [illegible] WD	3.3	WD	[illegible]	[illegible]	[illegible] AC	4 [illegible]	4 [illegible]	3.3	2 [illegible]	280	D I	WC	[illegible]	[illegible]	[illegible]	28.0	3.04	28 [illegible]	3.72[illegible]			Small SUV 2WD	[illegible]		No							4.000
[illegible] AT	Santa [illegible] AWD	3.3	AWD	[illegible]	[illegible]	[illegible] AC	4 [illegible]	4 [illegible]	3.3	2 [illegible]	280	D I	WC	[illegible]	[illegible]	[illegible]	28.2	3.04	28.[illegible]	[illegible]			Small SUV 4WD	[illegible]		AWD							4.000
[illegible] AT	Santa [illegible] AWD	3.3	AWD	[illegible]	[illegible]	[illegible] AC	4 [illegible]	4 [illegible]	3.3	2 [illegible]	280	D I	WC	[illegible]	[illegible]	[illegible]	28.0	3.04	2[illegible]	2.7[illegible]			Small SUV 4WD	7		AWD							4.000

IV. Projected Average Fuel Economy Adjustment

1. $FCIV_{AC}$

[redacted] Business Information	
AC Efficiency Credit	13,675
CAFE Truck Volume	11,212
$FCIV_{AC}$ (Gal/mi)[2]	0.000607631

$$FCIV_{AC}\ (\text{gal/mi}) = \frac{(ACCredit \times 1{,}000{,}000)}{(VLM \times Production \times 8887)}$$

2. $FCIV_{OC}$

[redacted] Business Information	
OC Credit[1]	12,635
CAFE Truck Volume	11,212
$FCIV_{OC}$ (Gal/mi)[2]	0.000561420

$$FCIV_{OC}\ (\text{gal/mi}) = \frac{(OCCredit \times 1{,}000{,}000)}{(VLM \times Production \times 8887)}$$

3. $FCIV_{PU}$

[redacted] Business Information	
PU Credit	0
CAFE Truck Volume	11,212
$FCIV_{PU}$ (Gal/mi)[2]	0.000000000

$$FCIV_{PU}\ (\text{gal/mi}) = \frac{(PUCredit \times 1{,}000{,}000)}{(225{,}865 \times Production \times 8887)}$$

4. Average MPG

Average MPG	26.8

P4	MPG	26.0	
P6	$FCIV_{AC}$ (Gal/mi)	0.000607631	[redacted] Business Information
P6	$FCIV_{OC}$ (Gal/mi)	0.000561420	
P6	$FCIV_{PU}$ (Gal/mi)	0.000000000	

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

[redacted] Business Information	
VLM	225,865

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.