

**MID-CAFE REPORT  
FOR  
2017 MODEL YEAR  
OF  
KIA MOTORS CORPORATION**

**- 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 Sportage AWD, Sportage FE AWD, Sorento AWD, Sorento FWD, Sorento AWD FE, Sedona, Sedona SX, Sedona SXL 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

- LT : 27.8 MPG (without A/C efficiency & off-cycle credits)

- LT : 28.5 MPG (with A/C efficiency & off-cycle credits)

### 2. Projected Required Fuel Economy

- LT : 31.0 MPG

At this point in time and based on available best present information, the above projections represent the Kia Motors Corporation (KMC) 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	31.0
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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
Sportage 2.4 AWD	Sportage AWD	2.4	AWD	SA6	225/55R18	7,225	63.5	64.0	63.8	105.1	46.6	32.62	3,875	4,000
	Sportage AWD	2.4	AWD	SA6	225/55R18	8,922	63.5	64.0	63.8	105.1	46.6	32.62	3,875	4,000
Sportage FE 2.4 AWD	Sportage FE AWD	2.4	AWD	SA6	225/60R17	15,459	63.5	64.0	63.8	105.1	46.6	32.62	3,875	4,000
	Sportage FE AWD	2.4	AWD	SA6	225/60R17	14,597	63.5	64.0	63.8	105.1	46.6	32.62	3,875	4,000
Sportage 2.0T AWD	Sportage AWD	2.0	AWD	SA6	245/45R19	5,992	63.3	63.8	63.6	105.1	46.4	32.74	4,000	4,000
Sorento 2.4 AWD	Sorento AWD	2.4	AWD	SA6	235/65R17	5,379	64.3	64.7	64.5	109.5	49.0	31.28	4,250	4,000
Sorento 2.4 FWD	Sorento FWD	2.4	FWD	SA6	235/65R17	11,117	64.3	64.7	64.5	109.5	49.0	31.28	4,000	4,000
Sorento 3.3 AWD	Sorento AWD	3.3	AWD	SA6	235/55R19	8,954	64.1	64.5	64.3	109.5	48.9	31.33	4,750	4,500
Sorento 3.3 FE AWD	Sorento AWD FE	3.3	AWD	SA6	235/65R17, 235/60R18	27,608	64.1	64.5	64.3	109.5	48.9	31.33	4,500	4,500
	Sorento FWD	3.3	FWD	SA6	235/65R17, 235/60R18	17,548	64.1	64.5	64.3	109.5	48.9	31.33	4,500	4,500
	Sorento FWD	3.3	FWD	SA6	235/55R19	5,804	64.1	64.5	64.3	109.5	48.9	31.33	4,500	4,500
Sedona	Sedona	3.3	FWD	SA6	235/65R17	27,104	68.7	69.0	68.8	120.5	57.6	27.75	4,750	4,500
	Sedona	3.3	FWD	SA6	235/60R18	2,434	68.5	68.8	68.6	120.5	57.4	27.82	4,750	4,500
Sedona SX	Sedona SX	3.3	FWD	SA6	235/60R18	710	68.5	68.8	68.6	120.5	57.4	27.82	4,750	4,500
Sedona SXL	Sedona SXL	3.3	FWD	SA6	235/55R19	719	68.3	68.6	68.4	120.5	57.2	27.89	5,000	5,000

Projected Required	31.0
Total Sales Volume	159,612

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

III. Projected Average and Required Fuel Economy

- Projected Average Fuel Economy (without A/C efficiency & off-cycle credits)

<b>Projected Average</b>	<b>27.8</b>
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Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class	Base Tire	Projected sales	City_FE	Hwy_FE	Combined FE	IWC	Model Type Comb.FE	Model Type Vol
Sportage 2.4 AWD	Sportage AWD	2.4	AWD	SA6	225/55R18	7,225	26.5	34.9	29.7188	4,000	29.8	16,147
	Sportage AWD	2.4	AWD	SA6	225/55R18	8,922	26.5	35.6	29.9445	4,000		
Sportage FE 2.4 AWD	Sportage FE AWD	2.4	AWD	SA6	225/60R17	15,499	26.2	35.1	29.5745	4,000	29.4	30,096
	Sportage FE AWD	2.4	AWD	SA6	225/60R17	14,597	25.8	35.0	29.2612	4,000		
Sportage 2.0T AWD	Sportage AWD	2.0	AWD	SA6	245/45R19	5,992	24.9	35.1	28.6460	4,000	28.6	5,992
Sorento 2.4 AWD	Sorento AWD	2.4	AWD	SA6	235/65R17	5,379	26.0	35.6	29.5908	4,000	29.6	5,379
Sorento 2.4 FWD	Sorento FWD	2.4	FWD	SA6	235/65R17	11,117	26.8	40.4	31.5846	4,000	31.6	11,117
Sorento 3.3 AWD	Sorento AWD	3.3	AWD	SA6	235/55R19	8,954	21.0	32.4	24.9505	4,500	25.0	8,954
Sorento 3.3 FE AWD	Sorento AWD FE	3.3	AWD	SA6	235/65R17, 235/60R18	27,608	22.3	35.8	26.8575	4,500	26.9	27,608
Sorento 3.3 FWD	Sorento FWD	3.3	FWD	SA6	235/65R17, 235/60R18	17,548	22.2	36.1	26.8527	4,500	26.8	23,352
	Sorento FWD	3.3	FWD	SA6	235/55R19	5,804	22.1	35.1	26.5200	4,500		
Sedona	Sedona	3.3	FWD	SA6	235/65R17	27,104	22.3	33.9	26.3588	4,500	26.4	29,538
	Sedona	3.3	FWD	SA6	235/60R18	2,434	22.3	33.9	26.3588	4,500		
Sedona SX	Sedona SX	3.3	FWD	SA6	235/60R18	710	22.8	34.7	26.9606	4,500	27.0	710
Sedona SXL	Sedona SXL	3.3	FWD	SA6	235/55R19	719	20.7	31.2	24.3943	5,000	24.4	719

<b>Average</b>	<b>27.8</b>
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III. Vehicle Configuration Information

Model Type Description	Carline	Basic Package Code	Drive	TM class	Base Tm	Engine code	LTV	ETW	Emp. Cmp.	Net rated power(kW)	Net horsepower	Fuel system	Emission control system	TM class	Number of forward speed	GVD	WV	Axis ratio	Combustion FE	Proposed axle	Passenger-carrying volume	Crane-carrying volume	Real load power at 90 mph	Safety at rated speed in 2014-2017	Safety 2018-2019	Approach angle(°)	Breakover angle(°)	Departure angle(°)	Running clearance (mm)	FRFR clearance (mm)	IWC
Sprague 2.4 AWD	Sprague AWD	2.4 AWD	LAW	25555914	G6WAC	3.0T	2.4	135	161	135	181	CFI	TWC	LAW	6	Yes	31.1	3.20	20.7105	7.225	101.4	30.7	11.8	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
						3.0T	2.4	135	161	135	181	CFI	TWC	LAW	6	Yes	31.1	3.20	20.7405	8.022	101.4	30.7	11.8	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
Sprague FE 2.4 AWD	Sprague AWD	2.4 AWD	LAW	25555914	G6WAC	3.0T	2.4	135	161	135	181	CFI	TWC	LAW	6	Yes	31.1	3.20	20.7405	8.022	101.4	30.7	11.8	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
						3.0T	2.4	135	161	135	181	CFI	TWC	LAW	6	Yes	31.1	3.20	20.7405	8.022	101.4	30.7	11.8	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
Sprague 2.0T AWD	Sprague AWD	2.0 AWD	LAW	26440819	G6WAC	4.00L	2.0	137	161	137	181	CFI	TWC	LAW	6	Yes	32.2	3.32	20.6405	8.022	101.4	30.7	10.3	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
						4.00L	2.4	138	160	138	180	CFI	TWC	LAW	6	Yes	33.9	3.00	20.5000	8.272	102.0	11.0	10.0	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
Sprague 2.0T AWD	Sprague AWD	2.0 AWD	LAW	25555917	G6WAC	4.00L	2.4	138	160	138	180	CFI	TWC	LAW	6	Yes	32.0	3.31	20.5000	8.272	102.0	11.0	10.0	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
						4.00L	2.4	138	160	138	180	CFI	TWC	LAW	6	Yes	32.0	3.31	20.5000	8.272	102.0	11.0	10.0	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
Sprague 3.3 AWD	Sprague AWD	3.3 AWD	LAW	25555918	G6WAC	4.81L	3.3	218	260	218	260	CFI	TWC	LAW	6	Yes	30.0	3.04	24.9005	8.014	140.0	11.0	10.7	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
						4.81L	3.3	218	260	218	260	CFI	TWC	LAW	6	Yes	30.0	3.04	24.9005	8.014	140.0	11.0	10.7	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
Sprague 3.3 FE AWD	Sprague AWD	3.3 AWD	LAW	25555917	G6WAC	4.81L	3.3	218	260	218	260	CFI	TWC	LAW	6	Yes	30.0	3.04	24.9005	8.014	140.0	11.0	10.7	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
						4.81L	3.3	218	260	218	260	CFI	TWC	LAW	6	Yes	30.0	3.04	24.9005	8.014	140.0	11.0	10.7	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
Sprague 3.3 FE AWD	Sprague AWD	3.3 AWD	LAW	25555917	G6WAC	4.81L	3.3	218	260	218	260	CFI	TWC	LAW	6	Yes	30.0	3.04	24.9005	8.014	140.0	11.0	10.7	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
						4.81L	3.3	218	260	218	260	CFI	TWC	LAW	6	Yes	30.0	3.04	24.9005	8.014	140.0	11.0	10.7	No	Yes (2015)	Yes (18.0)	Yes (24.0)	Yes (17.2)	Yes (24.124.4)	4.000	
Sedona	Sedona	3.3 FE	LAW	25555917	G6WAC	4.81L	3.3	205	230	205	230	CFI	TWC	LAW	6	Yes	30.2	3.04	20.3000	8.104	100.0	33.0	11.0	No	Yes (15)	Yes (15.0)	Yes (15.0)	Yes (15.0)	Yes (15.0)	4.000	
						4.81L	3.3	205	230	205	230	CFI	TWC	LAW	6	Yes	30.2	3.04	20.3000	8.104	100.0	33.0	11.0	No	Yes (15)	Yes (15.0)	Yes (15.0)	Yes (15.0)	Yes (15.0)	4.000	
Sedona SX	Sedona SX	3.3 FE	LAW	25555918	G6WAC	4.81L	3.3	205	230	205	230	CFI	TWC	LAW	6	Yes	30.2	3.04	20.3000	8.104	100.0	33.0	11.0	No	Yes (15)	Yes (15.0)	Yes (15.0)	Yes (15.0)	Yes (15.0)	4.000	
						4.81L	3.3	205	230	205	230	CFI	TWC	LAW	6	Yes	30.2	3.04	20.3000	8.104	100.0	33.0	11.0	No	Yes (15)	Yes (15.0)	Yes (15.0)	Yes (15.0)	Yes (15.0)	4.000	
Sedona SX	Sedona SX	3.3 FE	LAW	25555919	G6WAC	4.81L	3.3	205	230	205	230	CFI	TWC	LAW	6	Yes	30.2	3.04	20.3000	8.104	100.0	33.0	11.0	No	Yes (15)	Yes (15.0)	Yes (15.0)	Yes (15.0)	Yes (15.0)	4.000	
						4.81L	3.3	205	230	205	230	CFI	TWC	LAW	6	Yes	30.2	3.04	20.3000	8.104	100.0	33.0	11.0	No	Yes (15)	Yes (15.0)	Yes (15.0)	Yes (15.0)	Yes (15.0)	4.000	

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 displ compres-sor	Reduced Reheat with fixed displ or pneumatic compres-sor	Default to Recirc with feedback sensor	Default to Recirc without feedback sensor	Efficient Blower Motor Controls	Internal Heat Exchanger	Improved Condenser and/or Evaporator (requires EPA approval)	Oil Separator (requires EPA approval)	Total Menu-based Credits	A/C Efficiency Credit	VLM
									2.2 gpm	1.4 gpm	2.2 gpm	1.4 gpm							
Sportage 2.4 AWD	Sportage AWD	2.4	AWD	SA6	225/55R18	R1234yf	V-Belt Drive	7,225	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	7,017	225,865
	Sportage AWD	2.4	AWD	SA6	225/55R18	R1234yf	V-Belt Drive	8,922	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	8,665	225,865
Sportage FE 2.4 AWD	Sportage FE AWD	2.4	AWD	SA6	225/60R17	R1234yf	V-Belt Drive	15,499	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	15,053	225,865
	Sportage FE AWD	2.4	AWD	SA6	225/60R17	R1234yf	V-Belt Drive	14,597	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	14,177	225,865
Sportage 2.0T AWD	Sportage AWD	2.0	AWD	SA6	245/45R19	R1234yf	V-Belt Drive	5,992	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	5,820	225,865
Sorento 2.4 AWD	Sorento AWD	2.4	AWD	SA6	235/65R17	R134a	V-Belt Drive	5,379	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	5,224	225,865
Sorento 2.4 FWD	Sorento FWD	2.4	FWD	SA6	235/65R17	R134a	V-Belt Drive	11,117	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	10,797	225,865
Sorento 3.3 AWD	Sorento AWD	3.3	AWD	SA6	235/65R19	R134a	V-Belt Drive	8,954	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	8,696	225,865
Sorento 3.3 FE AWD	Sorento AWD FE	3.3	AWD	SA6	235/65R17, 235/60R18	R134a	V-Belt Drive	27,808	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	26,813	225,865
Sorento 3.3 FWD	Sorento FWD	3.3	FWD	SA6	235/65R17, 235/60R18	R134a	V-Belt Drive	17,548	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	17,043	225,865
	Sorento FWD	3.3	FWD	SA6	235/55R19	R134a	V-Belt Drive	5,804	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	5,637	225,865
Sedona	Sedona	3.3	FWD	SA6	235/65R17	R134a	V-Belt Drive	27,104	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	26,324	225,865
	Sedona	3.3	FWD	SA6	235/60R18	R134a	V-Belt Drive	2,434	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	2,364	225,865
Sedona SX	Sedona SX	3.3	FWD	SA6	235/60R18	R134a	V-Belt Drive	710	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	690	225,865
Sedona SXL	Sedona SXL	3.3	FWD	SA6	235/55R19	R134a	V-Belt Drive	719	2.2	0.0	0.0	0.0	0.0	1.4	0.0	0.7	4.3	698	225,865

ACCredit	155,018
Car volume	159,612
FCIV <sub>acc</sub> (Gal/mi)	0.000483852

VLM	225,865
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$$FCIV_M (gal/mi) = \frac{(ACCredit \times 1,000,000)}{(VLM \times Production \times 8887)}$$



V. Off-cycle Credits

Model Type Description	Carline	Basic Engine (disp)	Drive	TRM class (Drive, base)	Base Tire	Description	Projected sales	Off-cycle benefit per vehicle gpm	Off-cycle credits megagrams	VLM
Sportage 2.4 AWD	Sportage AWD	2.4	AWD	SA6	225/55R18	Lamp 0.1 (Parking/position), Glazing 1.1	5,311	1.2	1,439	225,865
Sportage AWD	2.4	AWD	SA6	225/55R18	Lamp 0.1 (Parking/position), Active seat ventilation 1.3, Glazing 1.1	10,836	2.5	6,119	225,865	
Sportage FE 2.4 AWD	Sportage FE AWD	2.4	AWD	SA6	225/60R17	Lamp 0.1 (Parking/position), Glazing 1.1	30,096	1.2	8,157	225,865
Sportage 2.0T AWD	Sportage AWD	2.0	AWD	SA6	245/45R19	Lamp 0.06, Active Seat Ventilation 1.3, Glazing 1.1	5,992	2.5	3,383	225,865
Sorento 2.4 AWD	Sorento AWD	2.4	AWD	SA6	235/65R17	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.2	11,117	4.5	11,299	225,865
Sorento 2.4 FWD	Sorento FWD	2.4	FWD	SA6	235/65R17	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.2	5,379	4.5	5,467	225,865
Sorento 3.3 AWD	Sorento AWD	3.3	AWD	SA6	235/55R19	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.1	5,405	4.4	5,372	225,865
Sorento AWD	3.3	AWD	SA6	235/55R19	Lamp 0.06 (Side marker front), ATF warmer 3.2, Active seat ventilation 1.3, Glazing 1.1	3,549	5.7	4,569	225,865	
Sorento 3.3 FE AWD	Sorento AWD FE	3.3	AWD	SA6	235/65R17	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.2	19,338	4.5	19,655	225,865
Sorento AWD FE	3.3	AWD	SA6	235/60R18	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.2	6,510	4.5	6,617	225,865	
Sorento AWD FE	3.3	AWD	SA6	235/60R18	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.1	1,760	4.4	1,749	225,865	
Sorento 3.3 FWD	Sorento FWD	3.3	FWD	SA6	235/65R17	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.2	9,976	4.5	10,140	225,865
Sorento FWD	3.3	FWD	SA6	235/60R18	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.2	5,680	4.5	5,773	225,865	
Sorento FWD	3.3	FWD	SA6	235/60R18	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.1	1,892	4.4	1,880	225,865	
Sorento FWD	3.3	FWD	SA6	235/55R19	Lamp 0.06 (Side marker front), ATF warmer 3.2, Glazing 1.1	3,907	4.4	3,883	225,865	
Sorento FWD	3.3	FWD	SA6	235/55R19	Lamp 0.06 (Side marker front), ATF warmer 3.2, Active seat ventilation 1.3, Glazing 1.1	1,897	5.7	2,442	225,865	
Sedona	Sedona	3.3	FWD	SA6	235/65R17	No credits are generated from these vehicles	2,885	0.0	0	225,865
Sedona	3.3	FWD	SA6	235/65R17	Glazing 1.8	24,219	1.8	9,846	225,865	
Sedona	3.3	FWD	SA6	235/60R18	Glazing 1.9	2,424	1.9	1,040	225,865	
Sedona	3.3	FWD	SA6	235/60R18	Lamp 0.06 (Side marker rear), Glazing 1.9	10	2.0	5	225,865	
Sedona SX	Sedona SX	3.3	FWD	SA6	235/60R18	Lamp 0.06 (Side marker rear), Active seat ventilation 1.3, Glazing 1.9	507	3.3	378	225,865
Sedona SX	3.3	FWD	SA6	235/60R18	Lamp 0.12 (Side marker front/rear), Active seat ventilation 1.3, Glazing 1.9	203	3.3	151	225,865	
Sedona SXL	Sedona SXL	3.3	FWD	SA6	235/55R19	Lamp 0.06 (Side marker rear), Active seat ventilation 1.3, Glazing 1.6	239	3.0	162	225,865
Sedona SXL	3.3	FWD	SA6	235/55R19	Lamp 0.12 (Side marker front/rear), Active seat ventilation 1.3, Glazing 1.6	274	3.0	186	225,865	
Sedona SXL	3.3	FWD	SA6	235/55R19	Lamp 0.12 (Side marker front/rear), Active seat ventilation 1.3, Glazing 1.9	206	3.3	154	225,865	

OCCredit	109,866
Car volume	159,612
FCIV <sub>OC</sub> (Gal/mi)	0.000342921

VLM 225,865

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

VI. Projected Average Fuel Economy Adjustment

Average MPG	28.5
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P4	MPG	27.8
P6	FCIV <sub>AC</sub> (Gal/mi)	0.000483852
P7	FCIV <sub>OC</sub> (Gal/mi)	0.000342921
N/A	FCIV <sub>PU</sub> (Gal/mi)	0

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