

**PRE-CAFE REPORT
FOR
2020 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 KMC TO BE EXEMPT
FROM DISCLOSURE UNDER 5 U.S.C. 552(B)(4) AND
49 U.S.C 32910(c).

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Note * : These sections contain information

I. Introduction

As required by 49 CFR Part 537.9, estimated fuel economy values for Sportage AWD, Sorento AWD, Sorento FWD, Telluride AWD, Telluride FWD, Sedona 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

- LT : 29.3 MPG (without A/C efficiency & off-cycle credits)

- LT : 30.3 MPG (with A/C efficiency & off-cycle credits)

2. Projected Required Fuel Economy

- LT : 32.9 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 2020 model year for the purpose of the Act.

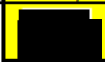
II. Projected Average and Required Fuel Economy

- Projected Required Fuel Economy



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	2.4L GDI	AWD	SA6	225/60R17	15,861	63.5	64.0	63.8	105.1	46.8	35.15	3,875	4,000
	Sportage AWD	2.4L GDI	AWD	SA6	225/55R18	21,128	63.5	64.0	63.8	105.1	46.8	35.15	3,875	4,000
	Sportage AWD	2.4L GDI	AWD	SA6	225/60R17	8,630	63.5	64.0	63.8	105.1	46.8	35.15	3,875	4,000
Sportage AWD	2.4L GDI	AWD	SA6	225/55R18	12,057	63.5	64.0	63.8	105.1	46.8	35.15	3,875	4,000	
Sportage 2.0T AWD	Sportage AWD	2.0L T-GDI	AWD	SA6	245/45R19	7,258	63.3	63.8	63.6	105.1	46.4	35.28	4,000	4,000
Sorento 2.4 FWD	Sorento FWD	2.4L GDI	FWD	SA6	235/65R17	30,571	64.3	64.7	64.5	109.4	49.0	33.69	4,250	4,000
Sorento 2.4 AWD	Sorento AWD	2.4L GDI	AWD	SA6	235/65R17	15,057	64.3	64.7	64.5	109.4	49.0	33.69	4,250	4,000
	Sorento FWD	3.3L GDI	FWD	SA8	235/65R17	8,263	64.3	64.7	64.5	109.4	49.0	33.69	4,250	4,000
Sorento 3.3 FWD	Sorento FWD	3.3L GDI	FWD	SA8	235/60R18	727	64.1	64.5	64.3	109.4	48.9	33.75	4,500	4,500
	Sorento FWD	3.3L GDI	FWD	SA8	235/55R19	13,094	64.1	64.5	64.3	109.4	48.9	33.75	4,500	4,500
Sorento 3.3 AWD	Sorento AWD	3.3L GDI	AWD	SA8	235/65R17	8,263	64.3	64.7	64.5	109.4	49.0	33.69	4,500	4,500
	Sorento AWD	3.3L GDI	AWD	SA8	235/60R18	727	64.1	64.5	64.3	109.4	48.9	33.75	4,500	4,500
	Sorento AWD	3.3L GDI	AWD	SA8	235/55R19	14,550	64.1	64.5	64.3	109.4	48.9	33.75	4,750	4,500
Telluride 3.8 FWD	Telluride FWD	3.8L GDI	FWD	SA8	245/60R18	14,649	67.2	67.6	67.4	114.2	53.5	31.28	4,500	4,500
	Telluride FWD	3.8L GDI	FWD	SA8	245/50R20	15,400	67.2	67.6	67.4	114.2	53.5	31.28	4,500	4,500
Telluride 3.8 AWD	Telluride AWD	3.8L GDI	AWD	SA8	245/60R18	20,033	67.2	67.6	67.4	114.2	53.5	31.28	4,750	4,500
	Telluride AWD	3.8L GDI	AWD	SA8	245/50R20	26,918	67.2	67.6	67.4	114.2	53.5	31.28	4,750	4,500
Sedona 3.3	Sedona	3.3L GDI	FWD	SA8	235/65R17	6,592	68.7	69.0	68.8	120.5	57.8	29.33	4,750	4,500
	Sedona	3.3L GDI	FWD	SA8	235/60R18	12,242	68.5	68.8	68.6	120.5	57.4	29.41	5,000	5,000

Projected Required Fuel Economy	32.9
Projected Total Sales Volume	252,110



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

III. Projected Average and Required Fuel Economy

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



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	2.4L GDI	AWD	SA8	225/60R17	15,861	27.4	35.8	30.6675	4,000	30.9	57,766
	Sportage AWD	2.4L GDI	AWD	SA6	225/55R18	21,125	28.1	37.2	31.5759	4,000		
	Sportage AWD	2.4L GDI	AWD	SA8	225/60R17	8,530	27.2	35.7	30.4640	4,000		
Sportage 2.0T AWD	Sportage AWD	2.4L GDI	AWD	SA8	225/60R18	12,057	27.1	35.5	30.3294	4,000	28.1	7,258
	Sportage AWD	2.0L T-GDI	AWD	SA8	245/45R19	7,258	24.4	34.4	28.0722	4,000		
	Sorento FWD	2.4L GDI	FWD	SA8	235/65R17	30,571	28.0	40.7	32.5740	4,000		
Sorento 2.4 AWD	Sorento AWD	2.4L GDI	AWD	SA8	235/65R17	15,057	26.8	37.1	30.4822	4,000	30.5	15,057
	Sorento FWD	3.3L GDI	FWD	SA8	235/65R17	8,283	24.6	39.5	29.6295	4,000		
	Sorento FWD	3.3L GDI	FWD	SA8	235/60R18	727	23.8	37.8	28.5600	4,500		
Sorento 3.3 FWD	Sorento FWD	3.3L GDI	FWD	SA8	235/65R19	13,094	23.7	37.2	28.3258	4,500	28.8	22,084
	Sorento FWD	3.3L GDI	FWD	SA8	235/65R17	8,283	24.2	36.5	28.5258	4,500		
	Sorento AWD	3.3L GDI	AWD	SA8	235/60R18	727	24.2	36.5	28.5258	4,500		
Sorento 3.3 AWD	Sorento AWD	3.3L GDI	AWD	SA8	235/55R19	14,550	22.6	34.4	26.7253	4,500	27.4	23,540
	Sorento FWD	3.8L GDI	FWD	SA8	245/60R18	14,849	25.4	37.4	29.6862	4,500		
	Telluride FWD	3.8L GDI	FWD	SA8	245/50R20	15,400	25.4	37.4	29.6862	4,500		
Telluride 3.8 FWD	Telluride FWD	3.8L GDI	FWD	SA8	245/60R18	20,033	23.9	34.4	27.7055	4,500	29.7	30,049
	Telluride FWD	3.8L GDI	FWD	SA8	245/50R20	26,918	23.2	34.1	27.0978	4,500		
	Telluride AWD	3.8L GDI	AWD	SA8	245/60R18	6,592	23.2	34.9	27.3217	4,500		
Sedona 3.3	Sedona	3.3L GDI	FWD	SA8	235/65R17	12,242	23.2	35.3	27.4313	5,000	27.4	18,834
	Sedona	3.3L GDI	FWD	SA8	235/60R18							

Projected Average Fuel Economy	29.3
Projected Total Sales Volume	252,110

III. Vehicle Configuration Information

Model Year Description	Car line	Basic Engine (displ)	Drive	MS class	Base ms	Engine code	L/VW	E/W	Eng Displ	Net rated power (kW)	Net horsepower	Fuel system	Emission control system	MS class	Number of forward speed	O/D	N/V	As a ratio	Combined FE	Projected sales	Road load power at 50 mph	Safety at least one of items in S23 & 4)?	Safety S23 S24 S4)?	Approach angle<23°	Breakover angle<24°	Departure angle<23°	Running clearance 220cm	FRFR clearance 210cm	IWC
Sportage 2.4 AWD	Sport age AWD	2.4 GDI AWD	SAB	225 60R17	G-KJAC	3.788	3.875	2	135	181	DP1	TWC	SAB	8	Yes	303	3.20	30 8675	15,051	15.1	No	Yes (AWD)	Yes (23.0)	Yes (15.2)	Yes (2.4)	No (17.2)	Yes (23.1)	000	
	Sport age AWD	2.4 GDI AWD	SAB	225 60R18	G-KJAC	3.833	3.875	2	135	181	DP1	TWC	SAB	8	Yes	311	3.20	31 8768	21,126	15.8	No	Yes (AWD)	Yes (26.0)	Yes (18.2)	Yes (2.4)	No (17.2)	Yes (23.1)	000	
	Sport age AWD	2.4 GDI AWD	SAB	225 60R17	G-KJAC	3.788	3.875	2	135	181	DP1	TWC	SAB	8	Yes	303	3.20	30 8675	15,051	15.1	No	Yes (AWD)	Yes (26.0)	Yes (15.2)	Yes (2.4)	No (17.2)	Yes (23.1)	000	
Sportage 2.0 AWD	Sport age AWD	2.0 GDI AWD	SAB	225 58R18	G-KJAC	3.833	3.875	2	135	181	DP1	TWC	SAB	8	Yes	311	3.20	30 8675	15,051	15.1	No	Yes (AWD)	Yes (26.0)	Yes (15.2)	Yes (2.4)	No (17.2)	Yes (23.1)	000	
	Sport age AWD	2.0 GDI AWD	SAB	225 58R18	G-KJAC	3.833	3.875	2	135	181	DP1	TWC	SAB	8	Yes	311	3.20	30 8675	15,051	15.1	No	Yes (AWD)	Yes (26.0)	Yes (15.2)	Yes (2.4)	No (17.2)	Yes (23.1)	000	
	Sport age AWD	2.0 GDI AWD	SAB	225 58R18	G-KJAC	3.833	3.875	2	135	181	DP1	TWC	SAB	8	Yes	311	3.20	30 8675	15,051	15.1	No	Yes (AWD)	Yes (26.0)	Yes (15.2)	Yes (2.4)	No (17.2)	Yes (23.1)	000	
Sorento 2.4 FWD	Sorento FWD	2.4 GDI FWD	SAB	225 60R17	G-KJAC	3.788	3.875	2	135	181	DP1	TWC	SAB	8	Yes	333	3.08	33 8711	20,871	15.3	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento FWD	2.4 GDI FWD	SAB	225 60R17	G-KJAC	3.788	3.875	2	135	181	DP1	TWC	SAB	8	Yes	333	3.08	33 8711	20,871	15.3	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento FWD	2.4 GDI FWD	SAB	225 60R17	G-KJAC	3.788	3.875	2	135	181	DP1	TWC	SAB	8	Yes	333	3.08	33 8711	20,871	15.3	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
Sorento 2.0 FWD	Sorento FWD	2.0 GDI FWD	SAB	225 58R18	G-KJAC	3.833	3.875	2	135	181	DP1	TWC	SAB	8	Yes	333	3.08	33 8711	20,871	15.3	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento FWD	2.0 GDI FWD	SAB	225 58R18	G-KJAC	3.833	3.875	2	135	181	DP1	TWC	SAB	8	Yes	333	3.08	33 8711	20,871	15.3	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento FWD	2.0 GDI FWD	SAB	225 58R18	G-KJAC	3.833	3.875	2	135	181	DP1	TWC	SAB	8	Yes	333	3.08	33 8711	20,871	15.3	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
Sorento 2.4 AWD	Sorento AWD	2.4 GDI AWD	SAB	225 60R17	GEM-AC	3.788	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento AWD	2.4 GDI AWD	SAB	225 60R17	GEM-AC	3.788	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento AWD	2.4 GDI AWD	SAB	225 60R17	GEM-AC	3.788	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
Sorento 2.0 AWD	Sorento AWD	2.0 GDI AWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento AWD	2.0 GDI AWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	Sorento AWD	2.0 GDI AWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
N-tarido 2.0 FWD	N-tarido FWD	2.0 GDI FWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	N-tarido FWD	2.0 GDI FWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	N-tarido FWD	2.0 GDI FWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
El-tarido 2.0 AWD	El-tarido AWD	2.0 GDI AWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	El-tarido AWD	2.0 GDI AWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
	El-tarido AWD	2.0 GDI AWD	SAB	225 58R18	GEM-AC	3.833	3.875	3	211	287	DP1	TWC	SAB	8	Yes	259	3.52	25 8504	6,283	1	Yes	3rd	No	No (18.1)	Yes (16.6)	No (23.3)	Yes (26.2)	000	
Sedona 3.3	Sedona	3.3 GDI FWD	SAB	225 60R17	GEM-ACMDPS	3.32	3.75	3	208	278	DP1	TWC	SAB	8	Yes	278	3.51	27 8211	6,682	10.0	Yes	3rd	No	No (13.3)	Yes (15.5)	No (19.9)	No (17.1)	N/A	5.000
	Sedona	3.3 GDI FWD	SAB	225 60R18	GEM-ACMDPS	3.378	3.75	3	208	278	DP1	TWC	SAB	8	Yes	278	3.51	27 8211	6,682	10.0	Yes	3rd	No	No (13.3)	Yes (15.5)	No (19.9)	No (17.1)	N/A	5.000
	Sedona	3.3 GDI FWD	SAB	225 60R17	GEM-ACMDPS	3.32	3.75	3	208	278	DP1	TWC	SAB	8	Yes	278	3.51	27 8211	6,682	10.0	Yes	3rd	No	No (13.3)	Yes (15.5)	No (19.9)	No (17.1)	N/A	5.000

IV. Projected A/C Efficiency Credits



Model Type Description	Carline	Basic Engine (disp)	Drive	T/M class (Drive, type, gear)	Refrigerant	A/C Drive System	Projected sales	Reduc'd Reheat with variable displ compressor	Reduced Reheat with fixed displ or pneumatic compressor	Default to Recirc with feedback sensor	Default to Recirc without feedback sensor	Efficient Blower Motor Controls	Internal Heat Exchange r	Improved Condensor 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	1.1 gpm	1.4 gpm	1.4 gpm	0.7 gpm	gpm	megagrams	
Sportage 2.4 AWD	Sportage AWD	2.4L GDI	AWD	SA6	R-1234yf	Belt Driven	57,766	2.2	0.0	0.0	0.0	1.1	1.4	0.0	0.7	5.4	70,456	225,865
Sportage 2.0T AWD	Sportage AWD	2.0L T-GDI	AWD	SA6	R-1234yf	Belt Driven	7,258	2.2	0.0	0.0	0.0	1.1	1.4	0.0	0.7	5.4	8,852	225,865
Sorento 2.4 FWD	Sorento FWD	2.4L GDI	FWD	SA6	R-1234yf	Belt Driven	30,571	2.2	0.0	0.0	0.0	1.4	1.4	0.0	0.7	4.3	29,691	225,865
Sorento 2.4 AWD	Sorento AWD	2.4L GDI	AWD	SA6	R-1234yf	Belt Driven	15,057	2.2	0.0	0.0	0.0	1.4	1.4	0.0	0.7	4.3	14,624	225,865
Sorento 3.3 FWD	Sorento FWD	3.3L GDI	FWD	SA8	R-1234yf	Belt Driven	22,084	2.2	0.0	0.0	0.0	1.4	1.4	0.0	0.7	4.3	21,448	225,865
Sorento 3.3 AWD	Sorento AWD	3.3L GDI	AWD	SA8	R-1234yf	Belt Driven	23,540	2.2	0.0	0.0	0.0	1.4	1.4	0.0	0.7	4.3	22,963	225,865
Telluride 3.8 FWD	Telluride FWD	3.8L GDI	FWD	SA8	R-1234yf	Belt Driven	30,049	2.2	0.0	0.0	0.0	1.1	1.4	0.0	0.7	5.4	36,650	225,865
Telluride 3.8 AWD	Telluride AWD	3.8L GDI	AWD	SA8	R-1234yf	Belt Driven	46,951	2.2	0.0	0.0	0.0	1.1	1.4	0.0	0.7	5.4	57,265	225,865
Sedona	Sedona	3.3L GDI	FWD	SA8	R-1234yf	Belt Driven	18,834	2.2	0.0	0.0	0.0	1.4	1.4	0.0	0.7	4.3	18,292	225,865

Projected AC Efficiency Credit	280,141
Projected Total Sales Volume	252,110
FCV _{AC} (Gal/mi)	0.000553583

VLM	225,865
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$$FCV_{AC} (\text{gal/mi}) = \frac{(AC\text{Credit} \times 1,000,000)}{(VLM \times Production \times 8887)}$$

V. Projected Off-cycle Credits



Model Type Description	Carline	Basic Engine (displ)	Drive	TM class (Drive, type, gear)	Description	Projected sales	Off cycle benefit per vehicle		VLM
							gpm	megagrams	
Sportage 2.4 AWD	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 0.8, Lamp 0.06, Active transmission warm-up 3.2	11,434	4.1	10,588	225,865
	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 0.8, Lamp 0.06, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	2,002	4.6	2,080	225,865
	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 0.8, Lamp 0.12, Active transmission warm-up 3.2	9,062	4.1	8,392	225,865
	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 0.8, Lamp 0.12, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	4,431	4.6	4,604	225,865
	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 1.0, Lamp 0.06, Active transmission warm-up 3.2	15,099	4.3	14,664	225,865
	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 1.0, Lamp 0.06, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	2,321	4.8	2,516	225,865
	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 1.0, Lamp 0.06, Active transmission warm-up 3.2, Active seat ventilation 1.3	11,489	5.6	14,532	225,865
	Sportage AWD	2.4L GDI AWD	AWD	SA6	Glazing 1.0, Lamp 0.06, Active transmission warm-up 3.2, Active seat ventilation 1.3, Solar reflective surface coating 0.5	1,528	6.1	2,656	225,865
	Sportage AWD	2.0L T-GDI AWD	AWD	SA6	Glazing 1.0, Lamp 0.12, Active seat ventilation 1.3	6,118	2.4	3,316	225,865
	Sportage AWD	2.0L T-GDI AWD	AWD	SA6	Glazing 1.0, Lamp 0.12, Active seat ventilation 1.3, Solar reflective surface coating 0.5	1,140	2.9	747	225,865
Sorento 2.4 FWD	Sorento FWD	2.4L GDI FWD	FWD	SA6	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2	24,596	4.6	25,555	225,865
	Sorento FWD	2.4L GDI FWD	FWD	SA6	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	5,975	5.1	6,883	225,865
Sorento 2.4 AWD	Sorento AWD	2.4L GDI AWD	AWD	SA6	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2	12,327	4.6	12,807	225,865
	Sorento AWD	2.4L GDI AWD	AWD	SA6	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	2,730	5.1	3,145	225,865
Sorento 3.3 FWD	Sorento FWD	3.3L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2	12,871	4.6	13,373	225,865
	Sorento FWD	3.3L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	4,480	5.1	5,161	225,865
	Sorento FWD	3.3L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2	1,262	4.6	1,311	225,865
	Sorento FWD	3.3L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	614	5.1	707	225,865
	Sorento FWD	3.3L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2, Active seat ventilation 1.3	1,935	5.9	2,579	225,865
	Sorento FWD	3.3L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2, Solar reflective surface coating 0.5, Active seat ventilation 1.3	922	6.4	1,333	225,865
	Sorento FWD	3.3L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2	13,940	4.6	14,483	225,865
Sorento 3.3 AWD	Sorento AWD	3.3L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.06, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	3,976	5.1	4,680	225,865
	Sorento AWD	3.3L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2	1,308	4.6	1,359	225,865
	Sorento AWD	3.3L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2, Solar reflective surface coating 0.5	622	5.1	716	225,865
	Sorento AWD	3.3L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2, Active seat ventilation 1.3	2,695	5.9	3,458	225,865
	Sorento AWD	3.3L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.12, Active transmission warm-up 3.2, Solar reflective surface coating 0.5, Active seat ventilation 1.3	1,099	6.4	1,589	225,865
	Sorento AWD	3.3L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.2, Active seat ventilation 1.3, Engine idle start-stop 2.9	14,105	5.7	18,159	225,865
	Sorento AWD	3.3L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.2, Active seat ventilation 1.3, Solar reflective surface coating 0.5, Engine idle start-stop 2.9	15,944	6.2	22,327	225,865
Telluride 3.8 FWD	Telluride FWD	3.8L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.2, Active seat ventilation 1.3, Engine idle start-stop 2.9	20,706	5.7	26,658	225,865
	Telluride FWD	3.8L GDI FWD	FWD	SA8	Glazing 1.3, Lamp 0.2, Active seat ventilation 1.3, Solar reflective surface coating 0.5, Engine idle start-stop 2.9	26,245	6.2	36,753	225,865
Telluride 3.8 AWD	Telluride AWD	3.8L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.2, Active seat ventilation 1.3, Engine idle start-stop 2.9	20,706	5.7	26,658	225,865
	Telluride AWD	3.8L GDI AWD	AWD	SA8	Glazing 1.3, Lamp 0.2, Active seat ventilation 1.3, Solar reflective surface coating 0.5, Engine idle start-stop 2.9	26,245	6.2	36,753	225,865
Redona	Redona	3.3L GDI FWD	FWD	SA8	Glazing 1.7	9,427	1.7	3,620	225,865
	Redona	3.3L GDI FWD	FWD	SA8	Glazing 1.7, Solar reflective surface coating 0.5	1,659	2.2	824	225,865
	Redona	3.3L GDI FWD	FWD	SA8	Glazing 1.9	3,212	1.9	1,378	225,865
	Redona	3.3L GDI FWD	FWD	SA8	Glazing 1.9, Solar reflective surface coating 0.5	536	2.4	291	225,865
	Redona	3.3L GDI FWD	FWD	SA8	Glazing 1.9, Lamp 0.06, Active seat ventilation 1.3	3,398	3.3	2,533	225,865
	Redona	3.3L GDI FWD	FWD	SA8	Glazing 1.9, Lamp 0.06, Active seat ventilation 1.3, Solar reflective surface coating 0.5	602	3.8	517	225,865

* 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.

Projected OC Credit	276,194	VLM	225,865
Projected Total Sales Volume	252,110		
FCTV _{OC} (Gal/mi)	0.000545763		



IV. Projected Average Fuel Economy Adjustment

1. FCIV_{AC}

Projected AC Efficiency Credit	280,141
Projected Total Sales Volume	252,110
FCIV _{AC} (Gal/mi) ²⁾	0.000553583

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

2. FCIV_{OC}

Projected OC Credit ¹⁾	276,194
Projected Total Sales Volume	252,110
FCIV _{OC} (Gal/mi) ²⁾	0.000545783

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

3. FCIV_{PU}

Projected PU Credit	0
Projected Total Sales Volume	252,110
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	30.3
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P4	MPG	29.3	
P6	FCIV _{AC} (Gal/mi)	0.000553583	Business Information
P6	FCIV _{OC} (Gal/mi)	0.000545783	
P6	FCIV _{PU} (Gal/mi)	0.000000000	

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

VLM	225,865
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1) Credits are estimated based on 2018MY data. Exact credits will be calculated when submitting 2020MY Final Report.

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