

**MID-CAFE REPORT
FOR
2018 MODEL YEAR
OF
KIA MOTORS CORPORATION**

- Passenger Cars -



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 [REDACTED] information

I. Introduction

As required by 49 CFR Part 537.9, estimated fuel economy values for Sorento AWD, Sorento FWD, Optima, Optima FE, Optima S, Sportage FWD, Sportage FE FWD, K900, Soul, Soul Electric, Rio, Forte, Forte5, Stinger AWD, Stinger RWD, Niro, Niro FE, Niro Touring, Niro Plug-in Hybrid, Optima Plug-in Hybrid, Optima Hybrid, Cadenza 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 2018 exhaust emission standards as defined 40 CFR §86.

II. Projected Average and Required Fuel Economy

1. Projected Average Fuel Economy

- IP : 38.9 MPG (without A/C efficiency & off-cycle credits)

- IP : 39.8 MPG (with A/C efficiency & off-cycle credits)

- DP : N/A

2. Projected Required Fuel Economy

- IP : 40.5 MPG

- DP : N/A

At this point in time and based on available best present information, the above projections represent the Kia Motors Coporation (KMC) 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 | 40.5 |
|--------------------|------|

| Model Type Description | Carline | Basic Engine (disp) | Drive | T/M class | Base Tire | Doors | Projected sales | Track width FR (inch) | Track width RR (inch) | Average Track width (inch) | Wheelbase (inch) | footprint (sqr feet) | Target standard | ETW | IWC |
|------------------------|-----------------------|---------------------|-------|-----------|-------------------------|-------|-----------------|-----------------------|-----------------------|----------------------------|------------------|----------------------|-----------------|-------|-------|
| Rio 1.6 AT | Rio | 1.6 | FWD | SA6 | P185/65R15 | 4 | 16,110 | 60.0 | 60.2 | 60.1 | 101.6 | 42.4 | 43.83 | 2.875 | 2.750 |
| Rio 1.6 MT | Rio | 1.6 | FWD | M6 | P185/65R15 | 4 | 861 | 60.0 | 60.2 | 60.1 | 101.6 | 42.4 | 43.83 | 2.750 | 2.750 |
| Forte 2.0 AT SFI | Forte | 2.0 | FWD | SA6 | 195/65R15 | 4 | 48,286 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.125 | 3.000 |
| | Forte | 2.0 | FWD | SA6 | 205/55R16 | 4 | 7,406 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.125 | 3.000 |
| | Forte | 2.0 | FWD | SA6 | 195/65R15 | 4 | 28,845 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.125 | 3.000 |
| Forte 2.0 MT SFI | Forte | 2.0 | FWD | SA6 | 205/55R16 | 4 | 3,661 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.125 | 3.000 |
| | Forte | 2.0 | FWD | M6 | 195/65R15 | 4 | 2,058 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.125 | 3.000 |
| Forte 2.0 AT | Forte | 2.0 | FWD | SA6 | P215/45R17 | 4 | 2,741 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.250 | 3.000 |
| ForteS 2.0 AT | ForteS | 2.0 | FWD | SA6 | P215/45R17 | 4 | 571 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.250 | 3.000 |
| | ForteS | 2.0 | FWD | SA6 | 205/55R16, 195/65R15 | 5 | 229 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.250 | 3.000 |
| Niro FE | Niro FE | 1.6 | FWD | AM6 | 205/55R16 | 5 | 1,041 | 61.6 | 62.2 | 61.9 | 106.3 | 45.7 | 40.90 | 3.250 | 3.000 |
| Soul 1.6 AT | Soul | 1.6 | FWD | SA6 | 205/60R16 | 4 | 37,264 | 62.0 | 62.5 | 62.2 | 101.2 | 43.7 | 42.63 | 3.125 | 3.000 |
| Soul 1.6 MT | Soul | 1.6 | FWD | M6 | 205/60R16 | 4 | 2,543 | 62.0 | 62.5 | 62.2 | 101.2 | 43.7 | 42.63 | 3.125 | 3.000 |
| Soul 2.0 AT | Soul | 2.0 | FWD | SA6 | 215/55R17 | 4 | 27,713 | 61.7 | 62.2 | 62.0 | 101.2 | 43.6 | 42.72 | 3.250 | 3.000 |
| | Soul | 2.0 | FWD | SA6 | 235/45R18 | 4 | 14,445 | 61.7 | 62.2 | 62.0 | 101.2 | 43.6 | 42.72 | 3.250 | 3.000 |
| Soul 1.6T DCT | Soul | 2.0 | FWD | SA6 | 235/45R18 | 4 | 5,159 | 61.4 | 62.0 | 61.7 | 101.2 | 43.4 | 42.90 | 3.375 | 3.500 |
| | Soul | 2.0 | FWD | SA6 | 235/45R18 | 4 | 1,672 | 61.4 | 62.0 | 61.7 | 101.2 | 43.4 | 42.90 | 3.375 | 3.500 |
| Soul Electric | Soul Electric | EV | N/A | OT | 235/45R18 | 4 | 7,630 | 61.4 | 61.9 | 61.6 | 101.2 | 43.3 | 42.99 | 3.375 | 3.500 |
| Fortes 1.6T DCT | Fortes | 1.6 | FWD | AM7 | P225/40R18 | 5 | 600 | 62.0 | 62.5 | 62.2 | 101.2 | 43.7 | 42.63 | 3.625 | 3.500 |
| Fortes 1.6T MT | Fortes | 1.6 | FWD | M6 | P225/40R18 | 5 | 1,339 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.375 | 3.500 |
| Niro | Niro | 1.6 | FWD | AM6 | P225/40R18 | 5 | 224 | 61.5 | 62.0 | 61.8 | 106.3 | 45.6 | 40.98 | 3.375 | 3.500 |
| Niro Touring | Niro | 1.6 | FWD | AM6 | 205/55R16 | 5 | 15,652 | 61.6 | 62.2 | 61.9 | 106.3 | 45.7 | 40.90 | 3.500 | 3.500 |
| Niro Touring | Niro Touring | 1.6 | FWD | AM6 | 225/45R18 | 5 | 2,564 | 61.2 | 61.8 | 61.5 | 106.3 | 45.4 | 41.15 | 3.625 | 3.500 |
| Niro PHEV | Niro Plug-in Hybrid | 1.6 | FWD | AM6 | 205/60R16 | 5 | 2,000 | 61.6 | 62.2 | 61.9 | 106.3 | 45.7 | 40.90 | 3.750 | 3.500 |
| Optima 1.6T | Optima | 1.6 | FWD | AM7 | 205/65R16 | 4 | 1,213 | 63.5 | 63.8 | 63.6 | 110.4 | 48.8 | 38.48 | 3.500 | 3.500 |
| Optima 2.4 | Optima | 2.4 | FWD | SA6 | 215/55R17 | 4 | 27,786 | 63.1 | 63.3 | 63.2 | 110.4 | 48.5 | 38.70 | 3.625 | 3.500 |
| | Optima | 2.4 | FWD | SA6 | 215/55R17 | 4 | 17,588 | 63.1 | 63.3 | 63.2 | 110.4 | 48.5 | 38.70 | 3.625 | 3.500 |
| Optima S 2.4 | Optima S | 2.4 | FWD | SA6 | 235/45R18 | 4 | 1,417 | 62.9 | 63.1 | 63.0 | 110.4 | 48.3 | 38.85 | 3.625 | 3.500 |
| | Optima S | 2.4 | FWD | SA6 | 235/45R18 | 4 | 418 | 62.9 | 63.1 | 63.0 | 110.4 | 48.3 | 38.85 | 3.625 | 3.500 |
| Optima FE 2.4 | Optima FE | 2.4 | FWD | SA6 | P205/55R16 | 4 | 27,428 | 63.5 | 63.8 | 63.6 | 110.4 | 48.8 | 38.48 | 3.500 | 3.500 |
| | Optima FE | 2.4 | FWD | SA6 | P205/55R16 | 4 | 13,633 | 63.5 | 63.8 | 63.6 | 110.4 | 48.8 | 38.48 | 3.500 | 3.500 |
| Sportage 2.4 FWD | Sportage FWD | 2.4 | FWD | SA6 | 225/55R18 | SUV | 8,372 | 63.5 | 64.0 | 63.8 | 105.1 | 46.6 | 40.17 | 3.750 | 3.500 |
| | Sportage FWD | 2.4 | FWD | SA6 | 225/55R18 | SUV | 1,762 | 63.5 | 64.0 | 63.8 | 105.1 | 46.6 | 40.17 | 3.750 | 3.500 |
| Sportage FE 2.4 FWD | Sportage FE FWD | 2.4 | FWD | SA6 | 225/60R17 | SUV | 24,590 | 63.5 | 64.0 | 63.8 | 105.1 | 46.6 | 40.17 | 3.625 | 3.500 |
| | Sportage FE FWD | 2.4 | FWD | SA6 | 225/60R17 | SUV | 368 | 63.5 | 64.0 | 63.8 | 105.1 | 46.6 | 40.17 | 3.625 | 3.500 |
| Optima HEV | Optima Hybrid | 2.0 | FWD | AM6 | P205/65R16 | 4 | 868 | 63.5 | 63.8 | 63.6 | 110.4 | 48.8 | 38.48 | 3.750 | 3.500 |
| | Optima Hybrid | 2.0 | FWD | AM6 | P215/55R17 | 4 | 632 | 63.1 | 63.3 | 63.2 | 110.4 | 48.5 | 38.70 | 3.875 | 4.000 |
| Optima 2.0T | Optima | 2.0 | FWD | SA6 | 235/45R18 | 4 | 5,727 | 62.9 | 63.1 | 63.0 | 110.4 | 48.3 | 38.85 | 3.875 | 4.000 |
| Optima PHEV | Optima Plug-in Hybrid | 2.0 | AM6 | AM6 | 215/55 R17 | 4 | 750 | 63.1 | 63.1 | 63.1 | 110.4 | 48.4 | 38.78 | 4.000 | 4.000 |
| Sportage 2.0T FWD | Sportage FWD | 2.0 | FWD | SA6 | 245/45R19 | SUV | 2,153 | 63.3 | 63.8 | 63.6 | 105.1 | 46.4 | 40.33 | 4.000 | 4.000 |
| Sorento 2.4 AWD | Sorento AWD | 2.4 | AWD | SA6 | 235/65R17 | SUV | 0 | 64.3 | 64.7 | 64.5 | 109.5 | 49.0 | 38.34 | 4.250 | 4.000 |
| Sorento 2.4 FWD | Sorento FWD | 2.4 | FWD | SA6 | 235/65R17 | SUV | 18,660 | 64.3 | 64.7 | 64.5 | 109.5 | 49.0 | 38.34 | 4.000 | 4.000 |
| Sorento 2.0T AWD | Sorento AWD | 2.0 | AWD | SA6 | 235/60R18 | SUV | 1,191 | 64.1 | 64.5 | 64.3 | 109.5 | 48.9 | 38.41 | 4.250 | 4.000 |
| Sorento 2.0T FWD | Sorento FWD | 2.0 | FWD | SA6 | 235/60R18 | SUV | 1,165 | 64.1 | 64.5 | 64.3 | 109.5 | 48.9 | 38.41 | 4.250 | 4.000 |
| Cadenza 3.3 AT | Cadenza | 3.3 | FWD | SA8 | 245/45R18 | 4 | 931 | 63.3 | 63.6 | 63.4 | 110.4 | 48.6 | 38.63 | 4.000 | 4.000 |
| Cadenza | Cadenza | 3.3 | FWD | SA8 | 245/40R19 | 4 | 869 | 63.1 | 63.4 | 63.2 | 110.4 | 48.5 | 38.70 | 4.000 | 4.000 |
| Stinger 2.0T AWD | Stinger AWD | 2.0 | AWD | SA8 | 225/45R18 | 4 | 2,431 | 62.8 | 64.8 | 63.8 | 114.4 | 50.7 | 37.14 | 4.250 | 4.000 |
| Stinger 2.0T RWD | Stinger RWD | 2.0 | RWD | SA8 | 225/45R18 | 4 | 4,029 | 62.8 | 64.8 | 63.8 | 114.4 | 50.7 | 37.14 | 4.000 | 4.000 |
| Stinger 3.3T RWD | Stinger RWD | 3.3 | RWD | SA8 | 225/40R19 | 4 | 3,891 | 62.8 | 63.7 | 63.2 | 114.4 | 50.2 | 37.48 | 4.250 | 4.000 |
| | Stinger RWD | 3.3 | RWD | SA8 | 255/35R19 | 4 | 2,651 | 62.8 | 64.8 | 63.8 | 114.4 | 50.7 | 37.14 | 4.000 | 4.500 |
| Stinger 3.3T AWD | Stinger AWD | 3.3 | AWD | SA8 | 225/45R19 | 4 | 3,052 | 62.8 | 63.7 | 63.2 | 114.4 | 50.2 | 37.48 | 4.500 | 4.500 |
| | Stinger AWD | 3.3 | AWD | SA8 | 255/35R19 | 4 | 0 | 63.6 | 63.6 | 63.6 | 120.0 | 53.0 | 35.63 | 4.750 | 4.500 |
| K900 3.8 RWD | K900 | 5.0 | RWD | SA8 | P235/45R19(HANKOOK) | 4 | 2 | 63.6 | 63.6 | 63.6 | 120.0 | 53.0 | 35.63 | 5.000 | 5.000 |
| K900 5.0 RWD | K900 | 5.0 | RWD | SA8 | P235/45R19(CONTINENTAL) | 4 | 2 | 63.6 | 63.6 | 63.6 | 120.0 | 53.0 | 35.63 | 5.000 | 5.000 |

| | |
|--------------------|---------|
| Projected Required | 40.5 |
| Total Sales Volume | 410,960 |

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

III. Projected Average and Required Fuel Economy

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

| | |
|--------------------------|-------------|
| Projected Average | 38.9 |
|--------------------------|-------------|

| Model Type Description | Carline | Basic Engine (disp) | Drive | T/M class | Base Tire | Doors | Projected sales | City_FE | Hwy_FE | Combined FE | IWC | Model Type Comb.FE | Model Type Vol |
|------------------------|------------------|---------------------|-------|-----------|-------------------------|-------|-----------------|---------|--------|-------------|-------|--------------------|----------------|
| Rio 1.6 AT | Rio | 1.6 | FWD | SA6 | P185/65R15 | 4 | 16,110 | 37.0 | 55.0 | 43.3902 | 2,750 | 43.3 | 19,294 |
| | Rio | 1.6 | FWD | SA6 | P185/65R15 | 5 | 3,184 | 36.5 | 54.3 | 42.8159 | 2,750 | | |
| Rio 1.6 MT | Rio | 1.6 | FWD | M6 | P185/65R15 | 4 | 861 | 37.5 | 55.1 | 43.7950 | 2,750 | 43.7 | 1,116 |
| | Rio | 1.6 | FWD | M6 | P185/65R15 | 5 | 255 | 37.6 | 53.7 | 43.4640 | 2,750 | | |
| Forte 2.0 AT SFI | Forte | 2.0 | FWD | SA6 | 195/65R15 | 4 | 48,286 | 39.2 | 54.5 | 44.8682 | 3,000 | 43.7 | 88,198 |
| | Forte | 2.0 | FWD | SA6 | 205/55R16 | 4 | 7,406 | 39.0 | 56.6 | 45.3451 | 3,000 | | |
| | Forte | 2.0 | FWD | SA6 | 195/65R15 | 4 | 28,845 | 34.8 | 54.6 | 41.5863 | 3,000 | | |
| | Forte | 2.0 | FWD | SA6 | 205/55R16 | 4 | 3,661 | 35.4 | 54.4 | 42.0013 | 3,000 | | |
| Forte 2.0 MT SFI | Forte | 2.0 | FWD | M6 | 195/65R15 | 4 | 2,058 | 32.3 | 50.0 | 38.4204 | 3,000 | 38.4 | 2,058 |
| Forte 2.0 AT | Forte | 2.0 | FWD | SA6 | P215/45R17 | 4 | 2,741 | 32.3 | 48.5 | 38.0138 | 3,000 | 38.0 | 3,312 |
| | Forte | 2.0 | FWD | SA6 | P215/45R17 | 4 | 571 | 32.2 | 48.3 | 37.8824 | 3,000 | | |
| Forte5 2.0 AT | Forte5 | 2.0 | FWD | SA6 | P215/45R17 | 5 | 229 | 32.1 | 47.3 | 37.5267 | 3,000 | 38.1 | 3,557 |
| | Forte5 | 2.0 | FWD | SA6 | 205/55R16, 195/65R15 | 5 | 3,328 | 32.2 | 49.1 | 38.1015 | 3,000 | | |
| Niro FE | Niro FE | 1.6 | FWD | AM6 | 205/55R16 | 5 | 1,041 | 68.2 | 66.2 | 67.2852 | 3,000 | 67.3 | 1,041 |
| Soul 1.6 AT | Soul | 1.6 | FWD | SA6 | 205/60R16 | 4 | 37,264 | 32.2 | 43.0 | 36.3031 | 3,000 | 36.3 | 37,264 |
| Soul 1.6 MT | Soul | 1.6 | FWD | M6 | 205/60R16 | 4 | 2,543 | 31.4 | 43.0 | 35.7385 | 3,000 | 35.7 | 2,543 |
| Soul 2.0 AT | Soul | 2.0 | FWD | SA6 | 215/55R17 | 4 | 27,713 | 32.2 | 43.5 | 36.4623 | 3,000 | 36.0 | 48,989 |
| | Soul | 2.0 | FWD | SA6 | 215/55R17 | 4 | 14,445 | 31.0 | 42.8 | 35.3908 | 3,000 | | |
| | Soul | 2.0 | FWD | SA6 | 235/45R18 | 4 | 5,159 | 31.5 | 42.8 | 35.7471 | 3,500 | | |
| | Soul | 2.0 | FWD | SA6 | 235/45R18 | 4 | 1,672 | 30.4 | 42.6 | 34.8973 | 3,500 | | |
| Soul 1.6T DCT | Soul | 1.6 | FWD | AM7 | 235/45R18 | 4 | 7,630 | 33.4 | 43.9 | 37.4285 | 3,500 | 37.4 | 7,630 |
| Soul Electric | Soul Electric | EV | N/A | OT | 205/60R16 | 5 | 600 | 429.6 | 325.6 | 375.6116 | 3,500 | 375.6 | 600 |
| Forte5 1.6T DCT | Forte5 | 1.6 | FWD | AM7 | P225/40R18 | 5 | 1,339 | 32.2 | 42.6 | 36.1741 | 3,500 | 36.2 | 1,339 |
| Forte5 1.6T MT | Forte5 | 1.6 | FWD | M6 | P225/40R18 | 5 | 224 | 29.3 | 41.4 | 33.7372 | 3,500 | 33.7 | 224 |
| Niro | Niro | 1.6 | FWD | AM6 | 205/55R16 | 5 | 15,652 | 65.7 | 62.5 | 64.2204 | 3,500 | 64.2 | 15,652 |
| Niro Touring | Niro Touring | 1.6 | FWD | AM6 | 225/45R18 | 5 | 2,564 | 60.0 | 58.4 | 59.2693 | 3,500 | 59.3 | 2,564 |
| Niro PHEV | Niro Plug-in Hyb | 1.6 | FWD | AM6 | 205/60R16 | 5 | 2,000 | 174.6 | 89.5 | 122.2794 | 3,500 | 122.3 | 2,000 |
| Optima 1.6T | Optima | 1.6 | FWD | AM7 | 205/65R16 | 4 | 1,213 | 36.3 | 54.8 | 42.8024 | 3,500 | 42.8 | 1,213 |
| Optima 2.4 | Optima | 2.4 | FWD | SA6 | 215/55R17 | 4 | 27,786 | 31.6 | 50.1 | 37.8973 | 3,500 | 37.4 | 45,374 |
| | Optima | 2.4 | FWD | SA6 | 215/55R17 | 4 | 17,588 | 30.3 | 49.3 | 36.6574 | 3,500 | | |
| Optima S 2.4 | Optima S | 2.4 | FWD | SA6 | 235/45R18 | 4 | 1,417 | 29.4 | 47.1 | 35.3837 | 3,500 | 35.2 | 1,835 |
| | Optima S | 2.4 | FWD | SA6 | 235/45R18 | 4 | 418 | 28.5 | 46.4 | 34.4869 | 3,500 | | |
| Optima FE 2.4 | Optima FE | 2.4 | FWD | SA6 | P205/55R16 | 4 | 27,428 | 32.9 | 52.5 | 39.5433 | 3,500 | 39.1 | 41,061 |
| | Optima FE | 2.4 | FWD | SA6 | P205/55R16 | 4 | 13,633 | 31.7 | 51.3 | 38.2818 | 3,500 | | |
| Sportage 2.4 FWD | Sportage FWD | 2.4 | FWD | SA6 | 225/55R18 | SUV | 8,372 | 28.4 | 41.1 | 32.9869 | 3,500 | 33.1 | 10,134 |
| | Sportage FWD | 2.4 | FWD | SA6 | 225/55R18 | SUV | 1,762 | 29.1 | 41.8 | 33.7087 | 3,500 | | |
| Sportage FE 2.4 FWD | Sportage FE FW | 2.4 | FWD | SA6 | 225/60R17 | SUV | 24,590 | 29.2 | 43.0 | 34.1288 | 3,500 | 34.1 | 24,958 |
| | Sportage FE FW | 2.4 | FWD | SA6 | 225/60R17 | SUV | 368 | 28.7 | 40.8 | 33.1201 | 3,500 | | |
| Optima HEV | Optima Hybrid | 2.0 | FWD | AM6 | P205/65R16 | 4 | 868 | 54.3 | 63.0 | 57.8979 | 3,500 | 57.6 | 1,500 |
| | Optima Hybrid | 2.0 | FWD | AM6 | P215/55R17 | 4 | 632 | 53.6 | 62.5 | 57.2699 | 4,000 | | |
| Optima 2.0T | Optima | 2.0 | FWD | SA6 | 235/45R18 | 4 | 5,727 | 27.4 | 44.5 | 33.1287 | 4,000 | 33.1 | 5,727 |
| Optima PHEV | Optima Plug-in H | 2.0 | AM6 | AM6 | 215/55 R17 | 4 | 750 | 156.1 | 95.5 | 121.4267 | 4,000 | 121.4 | 750 |
| Sportage 2.0T FWD | Sportage FWD | 2.0 | FWD | SA6 | 245/45R19 | SUV | 2,153 | 26.2 | 39.0 | 30.7401 | 4,000 | 30.7 | 2,153 |
| Sorento 2.4 AWD | Sorento AWD | 2.4 | AWD | SA6 | 235/65R17 | SUV | 0 | 26.0 | 35.6 | 29.5908 | 4,000 | 29.6 | 0 |
| Sorento 2.4 FWD | Sorento FWD | 2.4 | FWD | SA6 | 235/65R17 | SUV | 18,660 | 26.5 | 40.4 | 31.3545 | 4,000 | 31.4 | 18,660 |
| Sorento 2.0T AWD | Sorento AWD | 2.0 | AWD | SA6 | 235/60R18 | SUV | 1,191 | 24.3 | 35.9 | 28.4345 | 4,000 | 28.4 | 1,191 |
| Sorento 2.0T FWD | Sorento FWD | 2.0 | FWD | SA6 | 235/60R18 | SUV | 1,165 | 25.3 | 38.3 | 29.8610 | 4,000 | 29.9 | 1,165 |
| Cadenza 3.3 AT | Cadenza | 3.3 | FWD | SA8 | 245/45R18 | 4 | 931 | 25.9 | 39.4 | 30.6215 | 4,000 | 30.3 | 1,800 |
| | Cadenza | 3.3 | FWD | SA8 | 245/40R19 | 4 | 869 | 25.4 | 38.7 | 30.0468 | 4,000 | | |
| Stinger 2.0T AWD | Stinger AWD | 2.0 | AWD | SA8 | 225/45R18 | 4 | 2,431 | 27.0 | 41.3 | 31.9834 | 4,000 | 32.0 | 2,431 |
| Stinger 2.0T RWD | Stinger RWD | 2.0 | RWD | SA8 | 225/45R18 | 4 | 4,029 | 27.6 | 41.5 | 32.4982 | 4,000 | 32.5 | 4,029 |
| Stinger 3.3T RWD | Stinger RWD | 3.3 | RWD | SA8 | 225/40R19 255/35R19 | 4 | 3,891 | 23.6 | 35.5 | 27.7923 | 4,000 | 27.8 | 3,891 |
| | Stinger RWD | 3.3 | RWD | SA8 | 225/45R18 | 4 | 2,651 | 23.7 | 36.8 | 28.2207 | 4,500 | | |
| Stinger 3.3T AWD | Stinger AWD | 3.3 | AWD | SA8 | 225/40R19 255/35R19 | 4 | 3,052 | 23.2 | 34.6 | 27.2385 | 4,500 | 27.7 | 5,703 |
| | Stinger AWD | 3.3 | AWD | SA8 | 225/45R18 | 4 | 0 | 21.2 | 35.7 | 25.9414 | 4,500 | | |
| K900 3.8 RWD | K900 | 3.8 | RWD | SA8 | P245/50R18 | 4 | 2 | 18.1 | 32.2 | 22.5419 | 5,000 | 22.6 | 4 |
| K900 5.0 RWD | K900 | 5.0 | RWD | SA8 | P235/45R19(HANKOOK) | 4 | 2 | 18.7 | 30.8 | 22.7158 | 5,000 | 22.6 | 4 |
| | K900 | 5.0 | RWD | SA8 | P235/45R19(CONTINENTAL) | 4 | 2 | 18.7 | 30.8 | 22.7158 | 5,000 | | |

| | |
|---------------------------|--------------------|
| Average | 38.9 |
| ROUNDED Avg. comb. | 38.4506 |
| Multiplied Factor | 1.006864646 |
| 'a' | 1.4489 |
| C' FACTOR | 0.0014 |
| IW (Added Factor) | 0.154342059 |
| SF_{3WC} | 0.4383 |
| FE_{3WC} | 39.7266 |
| SF_{4ETW} | 0.0667 |
| FE_{4WC} | 31.7863 |

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

IV. Projected A/C Efficiency Credits

| Model Type Description | Carline | Basic Engine (disp) | Drive | T/M class (Drive, type, gear) | Doors | 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 Exchanger | Improved Condenser and/or Evaporator (requires EPA) | Oil Separator (requires EPA approval) | Total Menu-based Credits | A/C Efficiency Credit | VLM |
|------------------------|-----------------------|---------------------|-------|-------------------------------|-------|-------------|------------------|-----------------|---|---|--|---|---------------------------------|-------------------------|---|---------------------------------------|--------------------------|-----------------------|---------|
| | | | | | | | | | 1.5 gpm | 1.0 gpm | 1.5 gpm | 1.0 gpm | 0.8 gpm | 1.0 gpm | 0.5 gpm | gpm | megagrams | | |
| Rio 1.6 AT | Rio | 1.6 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 16,110 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 9,437 | 195,264 |
| | | 1.6 | FWD | SA6 | 5 | R-1234yf | Belt Driven | 3,184 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 1,865 | 195,264 |
| Rio 1.6 MT | Rio | 1.6 | FWD | M6 | 4 | R-1234yf | Belt Driven | 861 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 504 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | R-1234yf | Belt Driven | 255 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 149 | 195,264 |
| Forte 2.0 AT SFI | Forte | 2.0 | FWD | SA6 | 4 | R-134a | Belt Driven | 88,198 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 2.5 | 43,055 | 195,264 |
| Forte 2.0 MT SFI | Forte | 2.0 | FWD | M6 | 4 | R-134a | Belt Driven | 2,058 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 2.5 | 1,005 | 195,264 |
| Forte 2.0 AT | Forte | 2.0 | FWD | SA6 | 4 | R-134a | Belt Driven | 3,312 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 1,940 | 195,264 |
| ForteS 2.0 AT | ForteS | 2.0 | FWD | SA6 | 5 | R-134a | Belt Driven | 82 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 48 | 195,264 |
| | | 2.0 | FWD | SA6 | 5 | R-134a | Belt Driven | 3,475 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 2.5 | 1,696 | 195,264 |
| Niro FE | Niro FE | 1.6 | FWD | AM6 | 5 | R-1234yf | Electric | 1,041 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 772 | 195,264 |
| Soul 1.6 AT | Soul | 1.6 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 37,264 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 21,829 | 195,264 |
| Soul 1.6 MT | Soul | 1.6 | FWD | M6 | 4 | R-1234yf | Belt Driven | 2,543 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 1,490 | 195,264 |
| Soul 2.0 AT | Soul | 2.0 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 48,989 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 28,697 | 195,264 |
| Soul 1.6T DCT | Soul | 1.6 | FWD | AM7 | 4 | R-1234yf | Belt Driven | 7,530 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 4,470 | 195,264 |
| Soul Electric | Soul Electric | EV | N/A | OT | 5 | R-134a | Electric | 600 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 351 | 195,264 |
| ForteS 1.6T DCT | ForteS | 1.6 | FWD | AM7 | 5 | R-134a | Belt Driven | 469 | 1.5 | 0.0 | 0.0 | 0.8 | 0.0 | 1.0 | 0.0 | 0.5 | 3.8 | 348 | 195,264 |
| | | 1.6 | FWD | AM7 | 5 | R-134a | Belt Driven | 870 | 0.0 | 1.0 | 0.0 | 0.8 | 0.0 | 1.0 | 0.0 | 0.5 | 3.3 | 561 | 195,264 |
| ForteS 1.6T MT | ForteS | 1.6 | FWD | M6 | 5 | R-134a | Belt Driven | 224 | 0.0 | 1.0 | 0.0 | 0.8 | 0.0 | 1.0 | 0.0 | 0.5 | 3.3 | 144 | 195,264 |
| Niro | Niro | 1.6 | FWD | AM6 | 5 | R-1234yf | Electric | 15,552 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 11,614 | 195,264 |
| Niro Touring | Niro Touring | 1.6 | FWD | AM6 | 5 | R-1234yf | Electric | 2,564 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 1,902 | 195,264 |
| Niro PHEV | Niro Plug-in Hybrid | 1.6 | FWD | AM6 | 5 | R-1234yf | Electric | 2,000 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 1,484 | 195,264 |
| Optima 1.6T | Optima | 1.6 | FWD | AM7 | 4 | R-1234yf | Belt Driven | 1,213 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 711 | 195,264 |
| Optima 2.4 | Optima | 2.4 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 45,374 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 33,668 | 195,264 |
| Optima S 2.4 | Optima S | 2.4 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 1,835 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 1,362 | 195,264 |
| Optima FE 2.4 | Optima FE | 2.4 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 41,061 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 30,467 | 195,264 |
| Sportage 2.4 FWD | Sportage FWD | 2.4 | FWD | SA6 | SUV | R-1234yf | Belt Driven | 10,134 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 7,519 | 195,264 |
| Sportage FE 2.4 FWD | Sportage FE FWD | 2.4 | FWD | SA6 | SUV | R-1234yf | Belt Driven | 24,958 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 18,519 | 195,264 |
| Optima HEV | Optima Hybrid | 2.0 | FWD | AM6 | 4 | R-1234yf | Electric | 1,500 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 1,113 | 195,264 |
| Optima 2.0T | Optima | 2.0 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 5,727 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 3,355 | 195,264 |
| Optima PHEV | Optima Plug-in Hybrid | 2.0 | AM6 | AM6 | 4 | R-1234yf | Electric | 750 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 557 | 195,264 |
| Sportage 2.0T FWD | Sportage FWD | 2.0 | FWD | SA6 | SUV | R-1234yf | Belt Driven | 2,153 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 1,598 | 195,264 |
| Sorento 2.4 AWD | Sorento AWD | 2.4 | AWD | SA6 | SUV | R-134a | Belt Driven | 0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 0 | 195,264 |
| Sorento 2.4 FWD | Sorento FWD | 2.4 | FWD | SA6 | SUV | R-134a | Belt Driven | 18,660 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 13,846 | 195,264 |
| Sorento 2.0T AWD | Sorento AWD | 2.0 | AWD | SA6 | SUV | R-134a | Belt Driven | 1,191 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 884 | 195,264 |
| Sorento 2.0T FWD | Sorento FWD | 2.0 | FWD | SA6 | SUV | R-134a | Belt Driven | 1,165 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 864 | 195,264 |
| Cadenza 3.3 AT | Cadenza | 3.3 | FWD | SA6 | 4 | R-1234yf | Belt Driven | 1,800 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 3.0 | 1,054 | 195,264 |
| Stinger 2.0T AWD | Stinger AWD | 2.0 | AWD | SA8 | 4 | R-1234yf | Belt Driven | 2,431 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 1,804 | 195,264 |
| Stinger2.0T RWD | Stinger RWD | 2.0 | RWD | SA8 | 4 | R-1234yf | Belt Driven | 4,029 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 2,990 | 195,264 |
| Stinger 3.3T RWD | Stinger RWD | 3.3 | RWD | SA8 | 4 | R-1234yf | Belt Driven | 3,891 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 2,887 | 195,264 |
| Stinger 3.3T AWD | Stinger AWD | 3.3 | AWD | SA8 | 4 | R-1234yf | Belt Driven | 5,703 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 4,232 | 195,264 |
| K900 3.8 RWD | K900 | 3.8 | RWD | SA8 | 4 | R-134a | Belt Driven | 0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 0 | 195,264 |
| K900 5.0 RWD | K900 | 5.0 | RWD | SA8 | 4 | R-134a | Belt Driven | 4 | 1.5 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.0 | 0.5 | 3.8 | 3 | 195,264 |

| | |
|-----------------------------|-------------|
| ACCredit | 260,794 |
| Car volume | 410,960 |
| FCIV _{ac} (Gal/mi) | 0.000365696 |

| | |
|-----|---------|
| VLM | 195,264 |
|-----|---------|

$$FCIV_{AC} \text{ (gal/mi)} = \frac{(ACCredit \times 1,000,000)}{(VLM \times Production \times 8807)}$$

V. Projected Off-cycle Credits

410,960

| Model Type Description | Carline | Basic Engine (disp) | Drive | T/M class (Drive, type, gear) | Doors | Description | Projected sales | Off-cycle benefit per vehicle | | VLM |
|------------------------|---------------|---------------------|-------|-------------------------------|-------|---|-----------------|-------------------------------|-----------|---------|
| | | | | | | | | gpm | megagrams | |
| Rio 1.6 AT | Rio | 1.6 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06 | 10,336 | 0.3 | 605 | 195,264 |
| | | 1.6 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06, Solar reflective surface coating 0.4 | 4,209 | 0.7 | 575 | 195,264 |
| | | 1.6 | FWD | SA6 | 4 | Lamp 0.06 | 1,112 | 0.1 | 22 | 195,264 |
| | | 1.6 | FWD | SA6 | 4 | Lamp 0.06 Solar reflective surface coating 0.4 | 453 | 0.5 | 44 | 195,264 |
| | | 1.6 | FWD | SA6 | 5 | Glazing 0.2, Lamp 0.06 | 1,121 | 0.3 | 66 | 195,264 |
| | | 1.6 | FWD | SA6 | 5 | Glazing 0.2, Lamp 0.06, Solar reflective surface coating 0.4 | 326 | 0.7 | 45 | 195,264 |
| | | 1.6 | FWD | SA6 | 5 | Glazing 0.2, Lamp 0.26 | 162 | 0.5 | 16 | 195,264 |
| | | 1.6 | FWD | SA6 | 5 | Lamp 0.06 | 1,179 | 0.1 | 23 | 195,264 |
| Rio 1.6 MT | Rio | 1.6 | FWD | SA6 | 5 | Lamp 0.06 Solar reflective surface coating 0.4 | 396 | 0.5 | 39 | 195,264 |
| | | 1.6 | FWD | M6 | 4 | Glazing 0.2, Lamp 0.06 | 543 | 0.3 | 32 | 195,264 |
| | | 1.6 | FWD | M6 | 4 | Glazing 0.2, Lamp 0.06, Solar reflective surface coating 0.4 | 202 | 0.7 | 28 | 195,264 |
| | | 1.6 | FWD | M6 | 4 | Lamp 0.06 | 84 | 0.1 | 2 | 195,264 |
| | | 1.6 | FWD | M6 | 4 | Lamp 0.06, Solar reflective surface coating 0.4 | 32 | 0.5 | 3 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | Glazing 0.2, Lamp 0.06 | 161 | 0.3 | 9 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | Glazing 0.2, Lamp 0.06, Solar reflective surface coating 0.4 | 60 | 0.7 | 8 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | Lamp 0.06 | 25 | 0.1 | 0 | 195,264 |
| Forte 2.0 AT SFI | Forte | 2.0 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06, Active transmission warm-up 1.5 | 69,269 | 1.8 | 24,346 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 18,929 | 2.2 | 8,132 | 195,264 |
| Forte 2.0 MT SFI | Forte | 2.0 | FWD | M6 | 4 | Glazing 0.2, Lamp 0.06 | 1,638 | 0.3 | 96 | 195,264 |
| | | 2.0 | FWD | M6 | 4 | Glazing 0.2, Lamp 0.06, Solar reflective surface coating 0.4 | 420 | 0.7 | 57 | 195,264 |
| Forte 2.0 AT | Forte | 2.0 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06, Active transmission warm-up 1.5 | 2,035 | 1.8 | 715 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 533 | 2.2 | 229 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06, Active seat ventilation 1.0, Active transmission warm-up 1.5 | 590 | 2.8 | 323 | 195,264 |
| Forte5 2.0 AT | Forte5 | 2.0 | FWD | SA6 | 4 | Glazing 0.2, Lamp 0.06, Active seat ventilation 1.0, Active transmission warm-up 1.5, Solar reflective surface c | 154 | 3.2 | 96 | 195,264 |
| | | 2.0 | FWD | SA6 | 5 | Glazing 0.2 | 2,496 | 0.2 | 97 | 195,264 |
| | | 2.0 | FWD | SA6 | 5 | Glazing 0.2, Solar reflective surface coating 0.4 | 990 | 0.6 | 115 | 195,264 |
| Niro FE | Niro FE | 2.0 | FWD | SA6 | 5 | Glazing 0.2, Active seat ventilation 1.0 | 59 | 1.2 | 14 | 195,264 |
| | | 2.0 | FWD | SA6 | 5 | Glazing 0.2, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 22 | 1.6 | 7 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5 | 788 | 4.9 | 754 | 195,264 |
| Soul 1.6 AT | Soul | 1.6 | FWD | SA6 | 4 | Glazing 1.1 | 29,648 | 1.1 | 6,368 | 195,264 |
| | | 1.6 | FWD | SA6 | 4 | Glazing 1.1, Solar reflective surface coating 0.4 | 7,616 | 1.5 | 2,311 | 195,264 |
| Soul 1.6 MT | Soul | 1.6 | FWD | M6 | 4 | Glazing 1.1 | 1,867 | 1.1 | 401 | 195,264 |
| | | 1.6 | FWD | M6 | 4 | Glazing 1.1, Solar reflective surface coating 0.4 | 676 | 1.5 | 198 | 195,264 |
| Soul 2.0 AT | Soul | 2.0 | FWD | SA6 | 4 | Glazing 1.1 | 37,216 | 1.1 | 7,994 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 1.1, Solar reflective surface coating 0.4 | 5,687 | 1.5 | 1,666 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.9, Lamp 0.1, Active seat ventilation 1.0 | 2,514 | 2.0 | 982 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.9, Lamp 0.1, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 482 | 2.4 | 226 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 1.1, Lamp 0.1 | 2,669 | 1.2 | 625 | 195,264 |
| Soul 1.6T DCT | Soul | 2.0 | FWD | SA6 | 4 | Glazing 0.9, Lamp 0.1 | 421 | 1.0 | 82 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 1.1 | 2,432 | 1.1 | 522 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 1.1, Solar reflective surface coating 0.4 | 515 | 1.5 | 151 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 1.1, Lamp 0.1 | 1,793 | 1.2 | 420 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 1.1, Lamp 0.1, Solar reflective surface coating 0.4 | 380 | 1.6 | 119 | 195,264 |
| Soul Electric | Soul Electric | 1.6 | FWD | AM7 | 4 | Glazing 0.9, Lamp 0.1, Solar reflective surface coating 0.4 | 2,071 | 1.0 | 404 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 0.9, Lamp 0.1, Solar reflective surface coating 0.4 | 439 | 1.4 | 120 | 195,264 |
| | | EV | N/A | OT | 5 | Glazing 1.1, Lamp 0.1 | 247 | 1.2 | 58 | 195,264 |
| | | EV | N/A | OT | 5 | Glazing 1.1, Lamp 0.1, Solar reflective surface coating 0.4 | 50 | 1.6 | 16 | 195,264 |
| | | EV | N/A | OT | 5 | Glazing 1.1, Lamp 0.1, Active seat ventilation 1.0 | 143 | 2.2 | 61 | 195,264 |
| | | EV | N/A | OT | 5 | Glazing 1.1, Lamp 0.1, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 29 | 2.6 | 15 | 195,264 |
| Forte5 1.6T DCT | Forte5 | EV | N/A | OT | 5 | Glazing 0.9, Lamp 0.1, Active seat ventilation 1.0 | 110 | 2.0 | 43 | 195,264 |
| | | EV | N/A | OT | 5 | Glazing 0.9, Lamp 0.1, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 21 | 2.4 | 10 | 195,264 |
| | | 1.6 | FWD | AM7 | 5 | Glazing 0.2, Lamp 0.06 | 678 | 0.3 | 40 | 195,264 |
| | | 1.6 | FWD | AM7 | 5 | Glazing 0.2, Lamp 0.06, Solar reflective surface coating 0.4 | 192 | 0.7 | 26 | 195,264 |
| | | 1.6 | FWD | AM7 | 5 | Glazing 0.2, Lamp 0.06, Active seat ventilation 1.0 | 262 | 1.3 | 72 | 195,264 |
| | | 1.6 | FWD | AM7 | 5 | Glazing 0.2, Lamp 0.06, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 79 | 1.7 | 26 | 195,264 |
| Forte5 1.6T MT | Forte5 | 1.6 | FWD | AM7 | 5 | Glazing 0.2, Lamp 0.44, Active seat ventilation 1.0 | 84 | 1.6 | 26 | 195,264 |
| | | 1.6 | FWD | AM7 | 5 | Glazing 0.2, Lamp 0.44, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 24 | 2.0 | 9 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | Glazing 0.2, Lamp 0.06 | 2 | 0.3 | 0 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | Glazing 0.2, Lamp 0.06, Active seat ventilation 1.0 | 154 | 1.3 | 39 | 195,264 |
| Niro | Niro | 1.6 | FWD | M6 | 5 | Glazing 0.2, Lamp 0.06, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 27 | 1.7 | 9 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | Glazing 0.2, Lamp 0.44, Active seat ventilation 1.0 | 34 | 1.6 | 11 | 195,264 |
| | | 1.6 | FWD | M6 | 5 | Glazing 0.2, Lamp 0.44, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 7 | 2.0 | 3 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5 | 9,849 | 5.0 | 9,616 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5, S | 3,100 | 5.4 | 3,269 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5, Solar reflective surface coating 0.4 | 2,026 | 5.0 | 1,978 | 195,264 |
| Niro Touring | Niro Touring | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5, Solar reflective surface coating 0.4 | 638 | 5.4 | 673 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active seat ventilation 1.0, Active aero improvement 0.8, Engine Idle start-stop 1.5 | 31 | 6.0 | 36 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active seat ventilation 1.0, Active aero improvement 0.8, Engine Idle start-stop 1.5, Solar reflective surface coating 0.4 | 8 | 6.4 | 10 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5 | 918 | 5.0 | 896 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5, Solar reflective surface coating 0.4 | 85 | 5.4 | 90 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active seat ventilation 1.0, Active aero improvement 0.8, Engine Idle start-stop 1.5 | 1,428 | 6.0 | 1,673 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active seat ventilation 1.0, Active aero improvement 0.8, Engine Idle start-stop 1.5, Solar reflective surface coating 0.4 | 133 | 6.4 | 166 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5 | 1,258 | 5.0 | 1,228 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine Idle start-stop 1.5, Solar reflective surface coating 0.4 | 396 | 5.4 | 418 | 195,264 |

| | | | | | | | | | | |
|---------------------|---------------------|-----|-----|-----|-----|---|--------|-----|--------|---------|
| Niro PHEV | Niro Plug-in Hybrid | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine idle start-stop 1.5 | 259 | 5.0 | 253 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active aero improvement 0.8, Engine idle start-stop 1.5, Solar reflective surface coating 0.4 | 81 | 5.4 | 85 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active seat ventilation 1.0, Active aero improvement 0.8, Engine idle start-stop 1.5 | 4 | 6.0 | 5 | 195,264 |
| | | 1.6 | FWD | AM6 | 5 | Glazing 1.1, Lamp 0.06, Active engine warm-up 1.5, Active seat ventilation 1.0, Active aero improvement 0.8, Engine idle start-stop 1.5, Solar reflective surface coating 0.4 | 2 | 6.4 | 2 | 195,264 |
| Optima 1.6T | Optima | 1.6 | FWD | AM7 | 4 | Glazing 0.3, Lamp 0.49 | 549 | 0.8 | 86 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 0.3, Lamp 0.49, Solar reflective surface coating 0.4 | 390 | 1.2 | 91 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 0.3, Lamp 0.43 | 160 | 0.7 | 22 | 195,264 |
| | | 1.6 | FWD | AM7 | 4 | Glazing 0.3, Lamp 0.43, Solar reflective surface coating 0.4 | 114 | 1.1 | 24 | 195,264 |
| Optima 2.4 | Optima | 2.4 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.43, Active transmission warm-up 1.5 | 20,088 | 2.2 | 8,629 | 195,264 |
| | | 2.4 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.43, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 7,268 | 2.6 | 3,690 | 195,264 |
| | | 2.4 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.49, Active transmission warm-up 1.5 | 5,346 | 2.3 | 2,401 | 195,264 |
| | | 2.4 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.49, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 1,934 | 2.7 | 1,020 | 195,264 |
| | | 2.4 | FWD | SA6 | 4 | Glazing 0.4, Lamp 0.49, Active seat ventilation 1.0, Active transmission warm-up 1.5 | 7,885 | 3.4 | 5,235 | 195,264 |
| | | 2.4 | FWD | SA6 | 4 | Glazing 0.4, Lamp 0.49, Active seat ventilation 1.0, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 2,853 | 3.8 | 2,117 | 195,264 |
| Optima S 2.4 | Optima S | 2.4 | FWD | SA6 | 4 | Glazing 0.4, Lamp 0.49, Active seat ventilation 1.0, Active transmission warm-up 1.5 | 1,347 | 3.4 | 894 | 195,264 |
| | | 2.4 | FWD | SA6 | 4 | Glazing 0.4, Lamp 0.49, Active seat ventilation 1.0, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 488 | 3.8 | 362 | 195,264 |
| Optima FE 2.4 | Optima FE | 2.4 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.43, Active transmission warm-up 1.5 | 33,602 | 2.2 | 14,435 | 195,264 |
| | | 2.4 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.43, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 7,459 | 2.6 | 3,787 | 195,264 |
| Sportage 2.4 FWD | Sportage FWD | 2.4 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06 | 3,752 | 1.2 | 879 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06, Solar reflective surface coating 0.4 | 689 | 1.6 | 215 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.06 | 2,921 | 1.1 | 627 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.06, Solar reflective surface coating 0.4 | 537 | 1.5 | 157 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.06, Active seat ventilation 1.0 | 1,888 | 2.1 | 774 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.06, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 347 | 2.5 | 169 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06 | 5,553 | 1.2 | 1,301 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06, Solar reflective surface coating 0.4 | 1,016 | 1.6 | 317 | 195,264 |
| Sportage FE 2.4 FWD | Sportage FE FWD | 2.4 | FWD | SA6 | SUV | Glazing 0.9, Lamp 0.06 | 15,546 | 1.0 | 3,036 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 0.9, Lamp 0.06, Solar reflective surface coating 0.4 | 2,843 | 1.4 | 777 | 195,264 |
| | | 2.0 | FWD | AM6 | 4 | Glazing 0.3, Lamp 0.22, Active transmission warm-up 1.5, Active aero improvements 1.2, Engine idle start-stop 1.5 | 866 | 4.7 | 795 | 195,264 |
| | | 2.0 | FWD | AM6 | 4 | Glazing 0.3, Lamp 0.22, Active transmission warm-up 1.5, Active aero improvements 1.2, Engine idle start-stop 1.5, Solar reflective surface coating 0.4 | 446 | 5.1 | 444 | 195,264 |
| Optima HEV | Optima Hybrid | 2.0 | FWD | AM6 | 4 | Glazing 0.4, Lamp 0.6, Active seat ventilation 1.0, Active transmission warm-up 1.5, Engine idle start-stop 1.5 | 127 | 5.0 | 124 | 195,264 |
| | | 2.0 | FWD | AM6 | 4 | Glazing 0.4, Lamp 0.6, Active seat ventilation 1.0, Active transmission warm-up 1.5, Engine idle start-stop 1.5, Solar reflective surface coating 0.4 | 61 | 5.4 | 64 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.49 | 1,029 | 0.8 | 161 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.3, Lamp 0.49, Solar reflective surface coating 0.4 | 382 | 1.2 | 90 | 195,264 |
| Optima 2.0T | Optima | 2.0 | FWD | SA6 | 4 | Glazing 0.4, Lamp 0.49, Active seat ventilation 1.0 | 3,150 | 1.9 | 1,169 | 195,264 |
| | | 2.0 | FWD | SA6 | 4 | Glazing 0.4, Lamp 0.49, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 1,166 | 2.3 | 524 | 195,264 |
| | | 2.0 | AM6 | AM6 | 4 | Glazing 0.3, Lamp 0.22, Active transmission warm-up 1.5, Active aero improvements 1.2, Engine idle start-stop 1.5 | 294 | 4.7 | 270 | 195,264 |
| | | 2.0 | AM6 | AM6 | 4 | Glazing 0.3, Lamp 0.22, Active transmission warm-up 1.5, Active aero improvements 1.2, Engine idle start-stop 1.5, Solar reflective surface coating 0.4 | 195 | 5.1 | 194 | 195,264 |
| Sportage 2.0T FWD | Sportage FWD | 2.0 | FWD | SA6 | SUV | Glazing 0.4, Lamp 0.6, Active seat ventilation 1.0, Active transmission warm-up 1.5, Engine idle start-stop 1.5 | 158 | 5.0 | 154 | 195,264 |
| | | 2.0 | FWD | SA6 | SUV | Glazing 0.4, Lamp 0.6, Active seat ventilation 1.0, Active transmission warm-up 1.5, Engine idle start-stop 1.5, Solar reflective surface coating 0.4 | 103 | 5.4 | 109 | 195,264 |
| | | 2.0 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.12 | 33 | 1.1 | 7 | 195,264 |
| | | 2.0 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.12, Solar reflective surface coating 0.4 | 6 | 1.5 | 2 | 195,264 |
| Sorento 2.4 AWD | Sorento AWD | 2.0 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.12, Active seat ventilation 1.0 | 1,817 | 2.1 | 745 | 195,264 |
| | | 2.0 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.12, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 297 | 2.5 | 145 | 195,264 |
| | | 2.0 | AWD | SA6 | SUV | None | 0 | 0.0 | 0 | 195,264 |
| | | 2.4 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06, Active transmission warm-up 1.5 | 15,780 | 2.7 | 8,319 | 195,264 |
| Sorento 2.4 FWD | Sorento FWD | 2.4 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 2,880 | 3.1 | 1,743 | 195,264 |
| | | 2.0 | AWD | SA6 | SUV | Glazing 1.1, Lamp 0.06 | 815 | 1.2 | 191 | 195,264 |
| | | 2.0 | AWD | SA6 | SUV | Glazing 1.1, Lamp 0.06, Solar reflective surface coating 0.4 | 268 | 1.6 | 84 | 195,264 |
| | | 2.0 | AWD | SA6 | SUV | Glazing 1.0, Lamp 0.06 | 81 | 1.1 | 17 | 195,264 |
| Sorento 2.0T AWD | Sorento AWD | 2.0 | AWD | SA6 | SUV | Glazing 1.0, Lamp 0.06, Solar reflective surface coating 0.4 | 27 | 1.5 | 8 | 195,264 |
| | | 2.0 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06 | 687 | 1.2 | 161 | 195,264 |
| | | 2.0 | FWD | SA6 | SUV | Glazing 1.1, Lamp 0.06, Solar reflective surface coating 0.4 | 259 | 1.6 | 81 | 195,264 |
| | | 2.0 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.06 | 159 | 1.1 | 34 | 195,264 |
| Sorento 2.0T FWD | Sorento FWD | 2.0 | FWD | SA6 | SUV | Glazing 1.0, Lamp 0.06, Solar reflective surface coating 0.4 | 60 | 1.5 | 18 | 195,264 |
| | | 3.3 | FWD | SA8 | 4 | Glazing 0.2, Lamp 0.49, Active transmission warm-up 1.5 | 324 | 2.2 | 139 | 195,264 |
| | | 3.3 | FWD | SA8 | 4 | Glazing 0.2, Lamp 0.49, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 141 | 2.6 | 72 | 195,264 |
| | | 3.3 | FWD | SA8 | 4 | Glazing 0.4, Lamp 0.49, Active transmission warm-up 1.5 | 436 | 2.4 | 204 | 195,264 |
| Cadenza 3.3 AT | Cadenza | 3.3 | FWD | SA8 | 4 | Glazing 0.4, Lamp 0.49, Active transmission warm-up 1.5, Solar reflective surface coating 0.4 | 190 | 2.8 | 104 | 195,264 |
| | | 3.3 | FWD | SA8 | 4 | Glazing 0.4, Lamp 0.44, Active transmission warm-up 1.5, Active seat ventilation 1.0 | 500 | 3.3 | 322 | 195,264 |
| | | 3.3 | FWD | SA8 | 4 | Glazing 0.4, Lamp 0.44, Active transmission warm-up 1.5, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 209 | 3.7 | 151 | 195,264 |
| | | 3.3 | FWD | SA8 | 4 | Glazing 1.1, Lamp 0.06, Solar reflective surface coating 0.4 | 259 | 1.6 | 81 | 195,264 |
| Stinger 2.0T AWD | Stinger AWD | 2.0 | AWD | SA8 | 4 | Engine idle start-stop 1.5, Lamp 0.8, Glazing 0.4 | 2,431 | 2.7 | 1,282 | 195,264 |
| Stinger 2.0T RWD | Stinger RWD | 2.0 | RWD | SA8 | 4 | Engine idle start-stop 1.5, Lamp 0.8, Glazing 0.4 | 4,029 | 2.7 | 2,124 | 195,264 |
| Stinger 3.3T RWD | Stinger RWD | 3.3 | RWD | SA8 | 4 | Engine idle start-stop 1.5, Lamp 0.8, Glazing 0.4, Active seat ventilation 1.0 | 3,891 | 3.7 | 2,811 | 195,264 |
| Stinger 3.3T AWD | Stinger AWD | 3.3 | AWD | SA8 | 4 | Engine idle start-stop 1.5, Lamp 0.8, Glazing 0.4 | 2,651 | 2.7 | 1,398 | 195,264 |
| K900 3.8 RWD | K900 | 3.3 | AWD | SA8 | 4 | Engine idle start-stop 1.5, Lamp 0.8, Glazing 0.4, Active seat ventilation 1.0 | 3,052 | 3.7 | 2,205 | 195,264 |
| | | 3.8 | RWD | SA8 | 4 | None | 0 | 0.0 | 0 | 195,264 |
| K900 5.0 RWD | K900 | 5.0 | RWD | SA8 | 4 | Glazing 0.4, Lamp 0.56, Active transmission warm-up 1.5, Active aero improvement 0.9, Active seat ventilation 1.0 | 2 | 4.4 | 2 | 195,264 |
| | | 5.0 | RWD | SA8 | 4 | Glazing 0.4, Lamp 0.56, Active transmission warm-up 1.5, Active aero improvement 0.9, Active seat ventilation 1.0, Solar reflective surface coating 0.4 | 2 | 4.8 | 2 | 195,264 |

| | |
|-----------------------------|-------------|
| OCCredit | 157,646 |
| Car volume | 410,960 |
| FCIV _{OC} (Gal/mi) | 0.000221058 |

VLM 195,264

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

VI. Projected Average Fuel Economy Adjustment

| | |
|-------------|------|
| Average MPG | 39.8 |
|-------------|------|

| | | |
|-----|-----------------------------|-------------|
| P4 | MPG | 38.9 |
| P6 | FCIV _{AC} (Gal/mi) | 0.000365696 |
| P7 | FCIV _{OC} (Gal/mi) | 0.000221058 |
| N/A | FCIV _{PU} (Gal/mi) | 0 |

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