

Supporting Information

Variability in Light Duty Gasoline Vehicle Emission Factors from Trip-Based Real-World Measurements

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Mini-Summary

This supporting information contains details regarding the routes on which vehicle measurements were conducted, the instruments used, the data processing procedures, how emission factors were estimated for hybrid electric vehicles, discussion of one vehicle that was identified as a high emitter, and references pertaining to these details. Furthermore, this supporting information contains figures pertaining to vehicle specific power (VSP) modal average emission rates for multiple pollutants for selected vehicle types, comparison of measured versus modeled emission factors for 100 vehicles and nearly 600 driving cycles, comparison of cycle average emission rates for Tier 1 and Tier 2 passenger cars and passenger trucks, comparison of cycle average emission rates for selected vehicle groups based on ranges of cycle average speed, comparison of cycle average emission rates for selected vehicle groups based on road types, comparison of accumulated mileage versus vehicle age, comparison of the frequency of time in each VSP mode for selected driving cycles, characteristics of the selected routes, definition of VSP modes, regression model parameters for evaluation of sensitivity of emission rates to vehicle age and mileage, summary of measured vehicles, and summary of driving cycles.

ROUTE

In study design, Routes A and C are alternative routes between NCSU and NR. Routes 1 and 3 are alternative routes between NR and RTP. Routes A, C, 1 and 3 have roundtrip distances of 20, 22, 32, and 35 miles, respectively. By distance, Route C is 40% freeway, and Route 1 is 80% freeway. Therefore, there are six cycles including two freeways C_F and 1_F, and four non-freeway cycles A, 3, C_NF, and 1_NF. The characteristics of the six cycles are in Table SI-1.

INSTRUMENT

The Portable Emission Measurement Systems (PEMS) is used to measures tailpipe concentrations of CO₂, CO, HC and NO. CO₂, CO, and HC concentrations were measured using Non-Dispersive Infrared (NDIR) detectors. NO is measured using an electrochemical cell. NO is a good surrogate for total NO_x, which is comprised of NO and NO₂, because typically 95 percent of NO_x, by volume, is NO for light duty gasoline vehicles.

PEMS has been evaluated for its accuracy and precision comparing to the emission results for chassis dynamometer testing for each of the three vehicles (1998 Chevrolet Cavalier, 1997 Chevrolet Tahoe, and 1998 Ford Taurus) and each of two dynamometer test cycles (Federal Test Procedure (FTP) and US06).¹ For the relative bias, the smallest one is for NO_x, at $1.96 \pm 3.90\%$, and the largest is for HC, at $34.8 \pm 9.56\%$. It has smaller average bias for NO_x, CO₂, and CO (-0.14, 8.09% and 21.3%, respectively), and larger bias for HC (63.9%). The larger bias for HC is expected, because NDIR does not respond as much as FID does, particularly to higher molecular weight hydrocarbons. PEMS has good precision for CO₂, NO_x, CO, and HC for almost all the tested driving cycles and vehicles with coefficient of variance of less than 5%.

To maintain the accuracy of PEMS measurement results, PEMS were span calibrated every week during the data collection period using cylinder gas with labeled concentration of NO_x, CO, and HC. PEMS were also zero calibrated before each measurement with ambient air.

DATA PROCESSING

Raw data from three instruments are obtained, including second by second data for pollutant concentrations from PEMS, second by second data for latitude, longitude, elevation, speed from GPS, and engine data from On-Board Diagnostic (OBD) scantool. Recorded engine data include engine Revolutions Per Minute (RPM), Intake Air Temperature (IAT), Intake Manifold Absolute Pressure (MAP), Mass Fuel Flow rate (MFF), Mass Air Flow rate (MAF), and Vehicle Speed (VSS). For vehicles for which MFF was not reported by the OBD, fuel use rate was estimated based on MAF and air-to-fuel ratio inferred from exhaust concentrations using a combustion mass balance. If neither MFF nor MAP was reported, MAF was estimated using the Speed-Density method based on MAP, RPM, IAT, engine displacement, and engine volumetric efficiency.²

OBD data is converted to second by second basis. Road grade is estimated based on the change of elevation.³

PEMS, OBD, and GPS data are synchronized and combined to one file. Synchronization between PEMS and OBD is based on peaks of CO and NO_x concentrations from PEMS for throttle snap at the end of each route, and the corresponding peak RPM from OBD. Synchronization between OBD and GPS is based on speed.

For quality assurance (QA), the combined file of PEMS, OBD, and GPS data are checked through a QA software developed using LabView.² The combined files are checked through the software for to remove the abnormal values of pollutants concentrations, invalid concentrations when PEMS bench is zeroing, abnormal values of MAP and RPM data. The QAed data are 1Hz valid data and used in estimating modal emission rates.

Vehicle Specific Power (VSP) is used as the basis for modal emission rates that are binned into 14 modes.⁴ The definition of 14 VSP modes are in Table SI-2.

To evaluate the method that we use to estimate the mass flow of fuel, air, and exhaust is estimated from OBD data and exhaust composition data, we compare the summation of our estimates of second-by-second fuel use to the actual total fuel use for each vehicle. We have done this based on 118 vehicles (we have collected data on some additional vehicles since the time that this manuscript was prepared). The average estimated total fuel use among the 118 vehicles was 98.2 percent of the actual fuel use, with a 95 percent confidence interval from 96.2 percent to 100.1 percent. Thus, the estimated fuel use is approximately the same as the actual fuel use, with a mean bias of approximately only 2 percent. The actual fuel use ranged from 2.4 gallons to 10 gallons among the 118 measured vehicles, depending primarily on vehicle size and power train. Overall, the estimated fuel use rate agrees well with the actual fuel use rate.

EMISSION FACTORS FOR ELECTRIC HYBRID VEHICLES

For MOVES, emission factors are estimated based on entire driving cycles for engine on + engine off.

For empirical data, emission factors of electric hybrid vehicles are estimated based on VSP modal emission rates, and driving cycles for engine on only.

$$EF_{p,hveh,c} = \frac{\sum_{m=1}^{14} ER_{p,hveh,m} \times t_{m,c,on}}{L_c} \quad (SI-1)$$

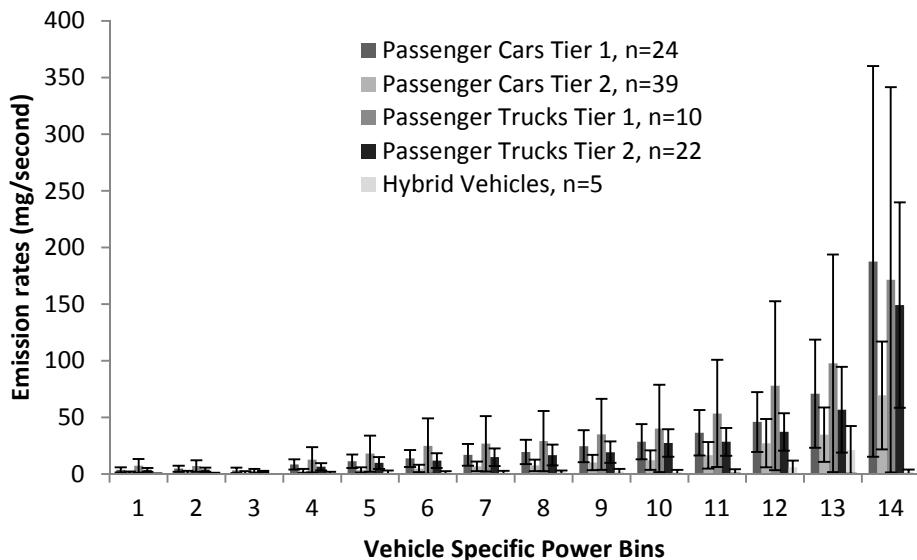
| | | |
|-----------------|---|--|
| $EF_{p,hveh,c}$ | = | empirical cycle average emission factor for pollutant p, for specific measured hybrid vehicle, cycle c, grams per mile |
| $ER_{p,hveh,m}$ | = | empirical modal emission rates for pollutant p, for specific measured hybrid vehicle, the mth VSP mode, grams per second |
| $t_{m,c}$ | = | engine on time spent on the mth VSP mode, cycle c, second |
| L_c | = | length of the cycle c, mile (engine on + engine off) |
| p | = | pollutants of CO ₂ , NO _x , CO, HC, |

DISCUSSION OF A HIGH EMITTER

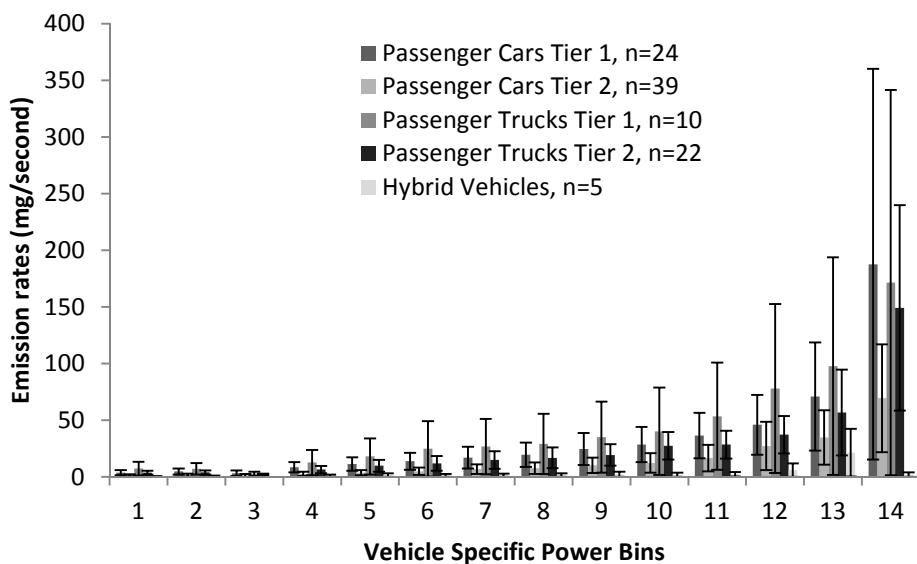
There are six outliers of NO_x empirical cycle average emission factors. The highest six values for the empirical emission factors, ranging from 3.5 g/mi to 5.8 g/mi, are for a 2004 Honda Civic. VSP modal emission rates of this vehicle are about 40 times higher than the average of other 2004 PCs. Therefore, this vehicle is deemed to be a “high emitter.” If the six outliers are excluded, the highest empirical NO_x emission factor is 1.5 g/mi and the average empirical emission factor is 0.15 g/mi for 99 vehicles.

REFERENCES

1. Battelle, Environmental Technology Verification Report, Prepared by Battelle for the U. S. Environmental Protection Agency, Ann Arbor, MI, June. 2003.
2. Sandhu, G.S.; Frey, H. C. Effects of Errors on Vehicle Emission Rates from Portable Emissions Measurement Systems, In Transportation Research Record: Journal of the Transportation Research Board, No. 2340, Transportation Research Board of the National Academies, Washington, D.C., 2013, pp. 10–19.
3. Yazdani B.; Frey, H. C. Road Grade Quantification Based on Global Positioning System Data Obtained from Real-world Vehicle Fuel Use and Emissions Measurements, Atmospheric Environment, 2014, 85, 179-186.
4. Frey, H.C.; Unal, A.; Chen, J. Recommended Strategy for On-Board Emission Data Analysis and Collection for the New Generation Model, Prepared by North Carolina State University for U.S. Environmental Protection Agency, Ann Arbor, MI. February 2002.



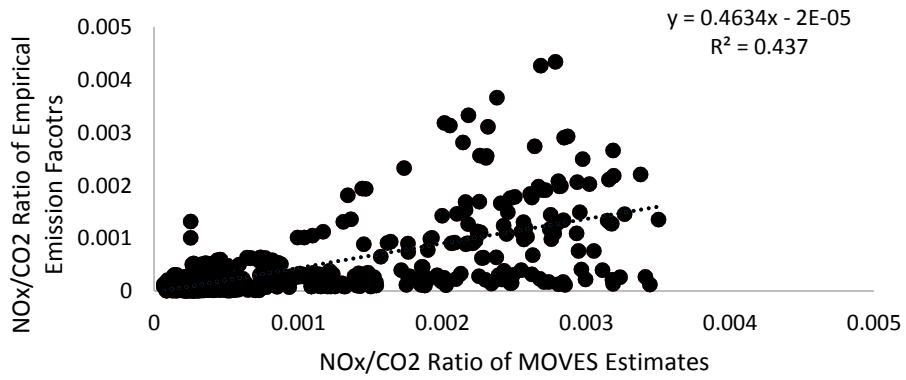
(c) CO



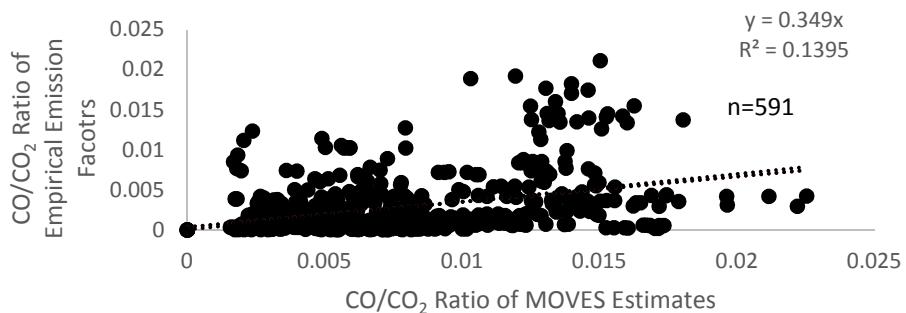
(d) HC

Figure S1 Average of CO and HC VSP Modal Emission Rates for Passenger Cars (PCs),
Passenger Trucks (PTs), and Hybrid Electric Vehicles (HEVs)

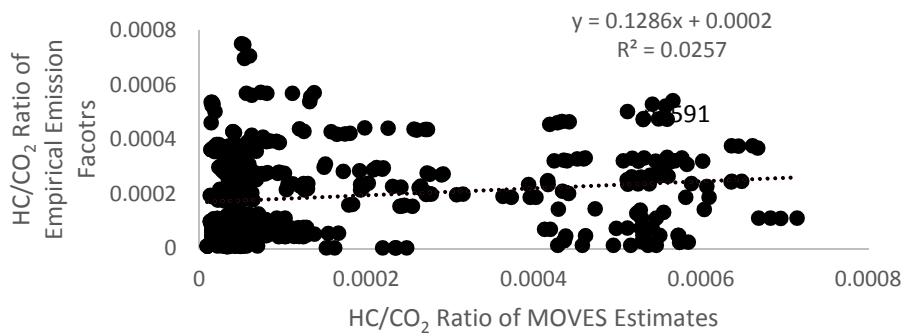
n=585



(a) NO_x/CO₂ Ratio of Cycle Average Emission Factors



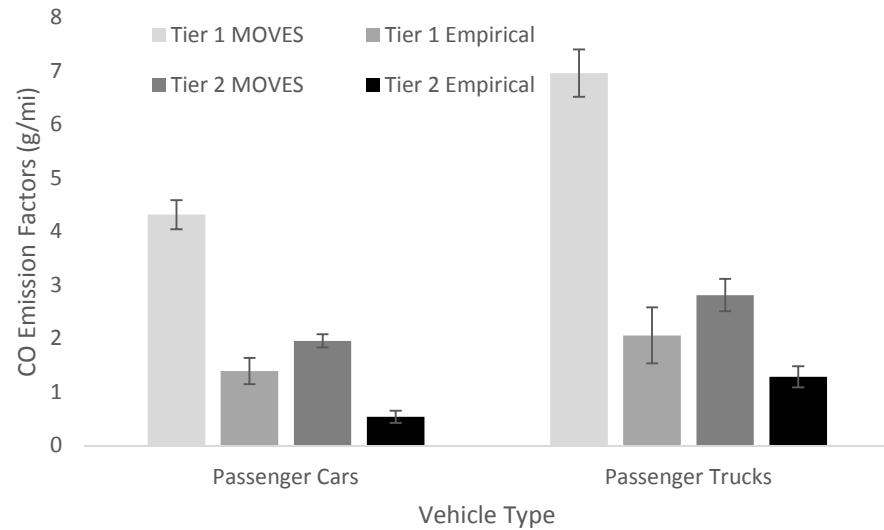
(b) CO/CO₂ Ratio



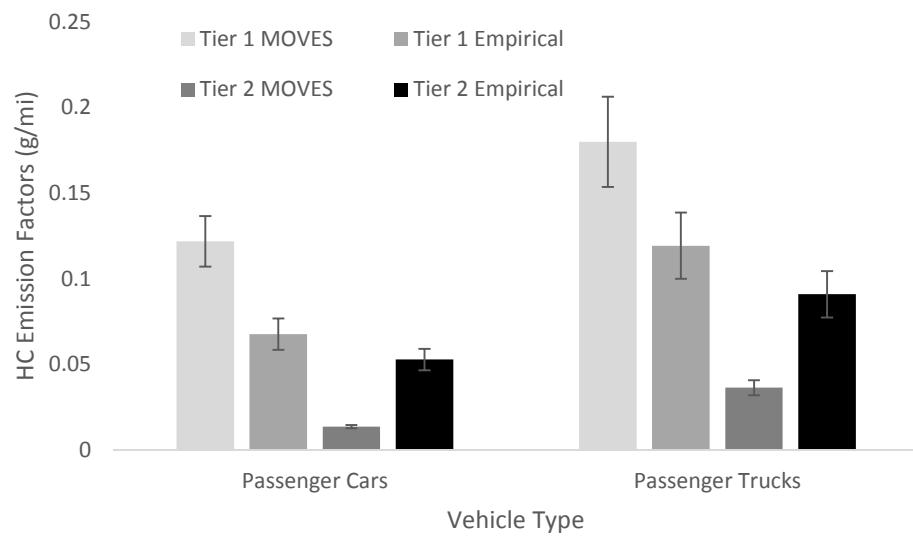
(c) HC/CO₂ Ratio

Figure S2 Empirical Versus MOVES estimates of Fuel-Based Emission Rates for 100 Vehicles:

(a) NO/CO₂ ratios; (b) CO/CO₂ Ratios; and (c) HC/CO₂ ratios.

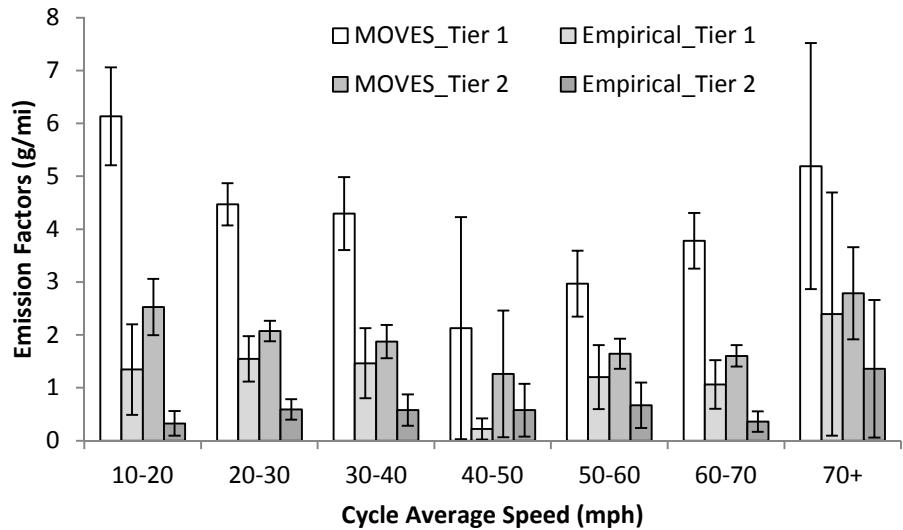


(c) CO

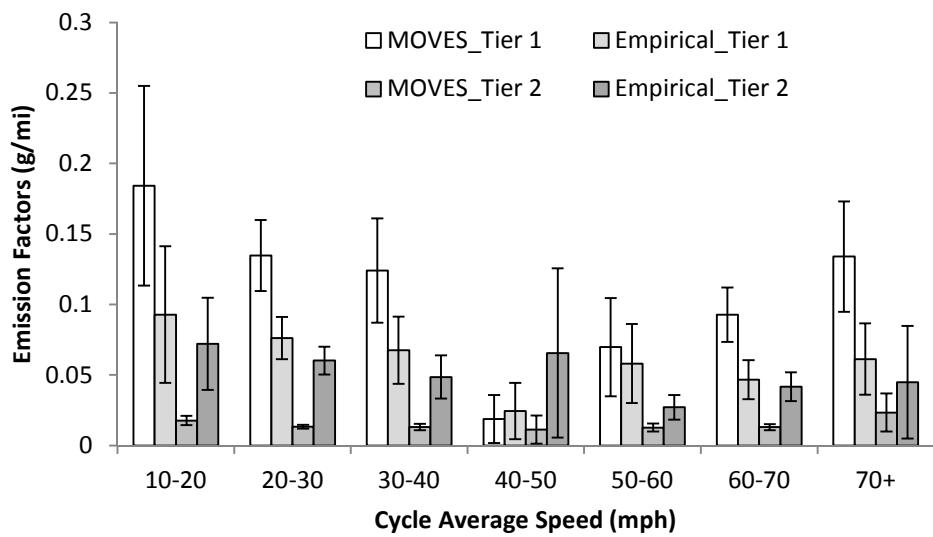


(d) HC

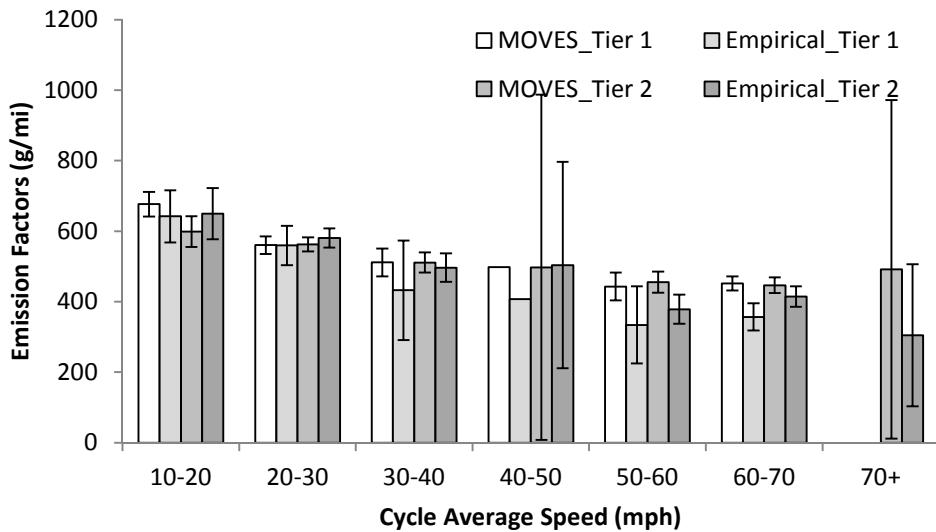
Figure S2 Average CO and HC Emission Factors of PCs, PTs, and HEVs for MOVES and Empirical Data



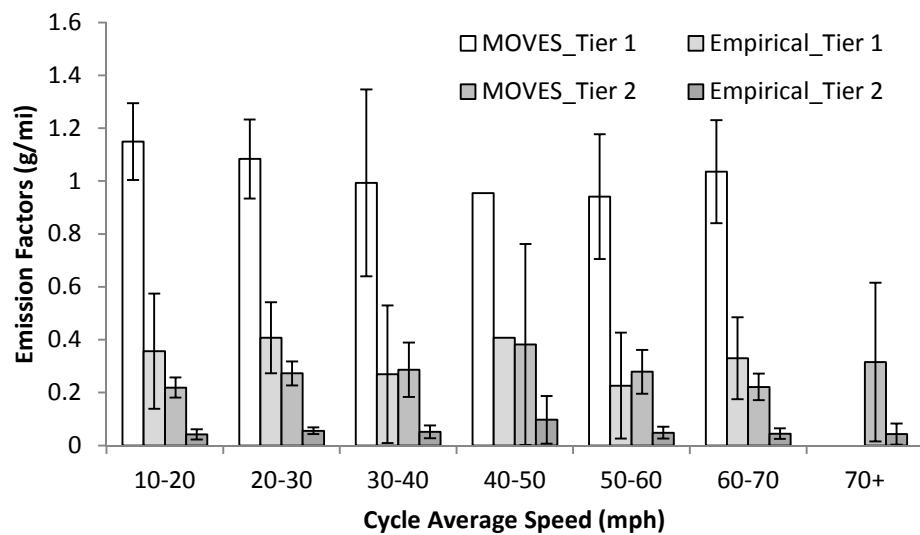
(c) Passenger Cars CO



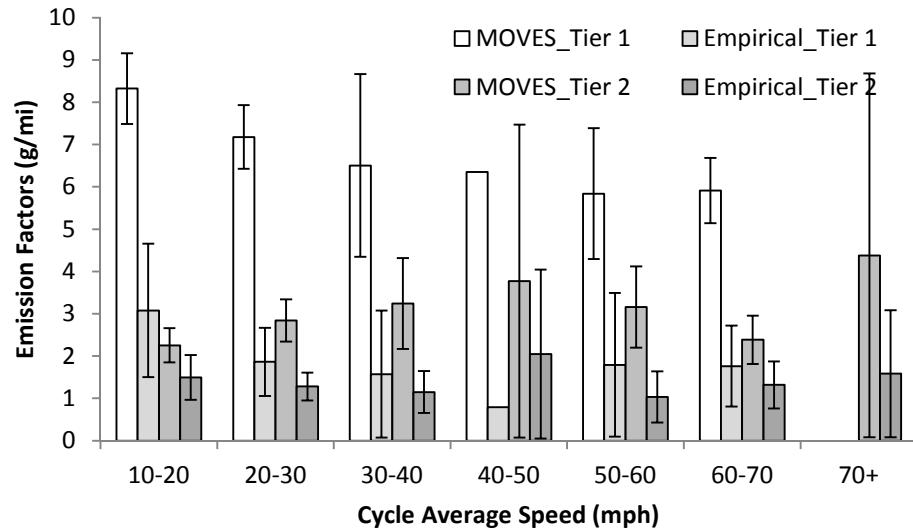
(d) Passenger Cars HC



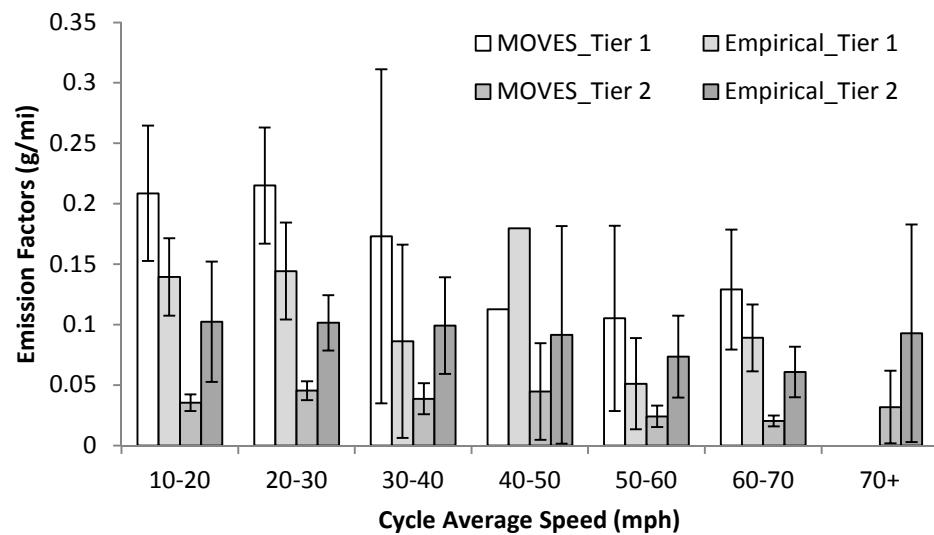
(e) Passenger Trucks CO₂



(f) Passenger Trucks NOx

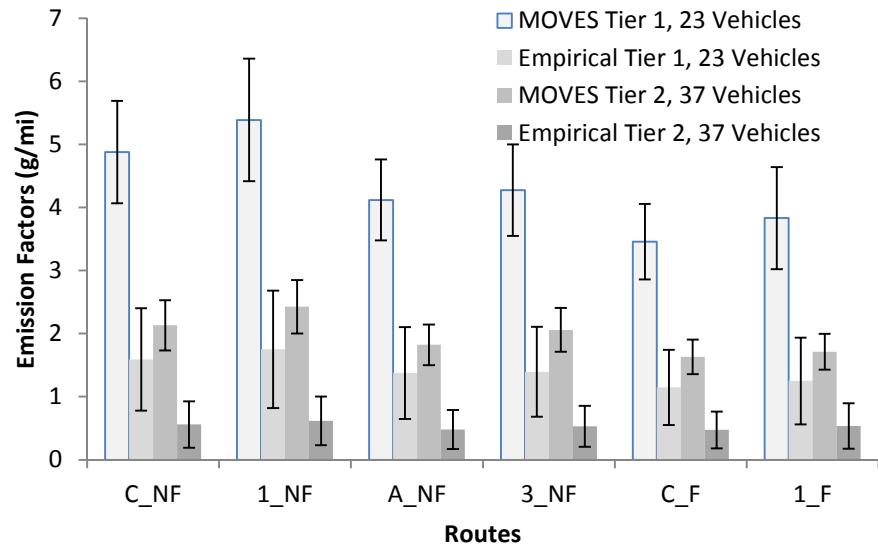


(g) Passenger Trucks CO

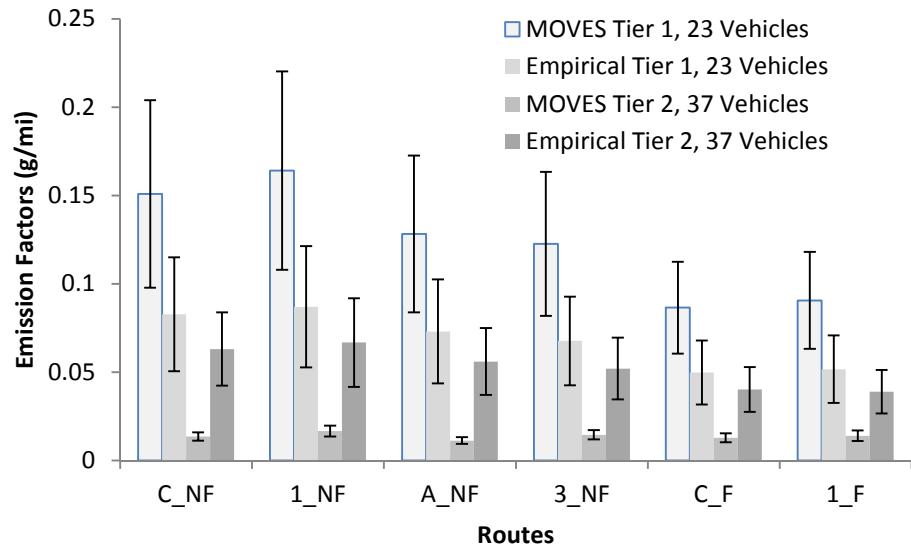


(h) Passenger Trucks HC

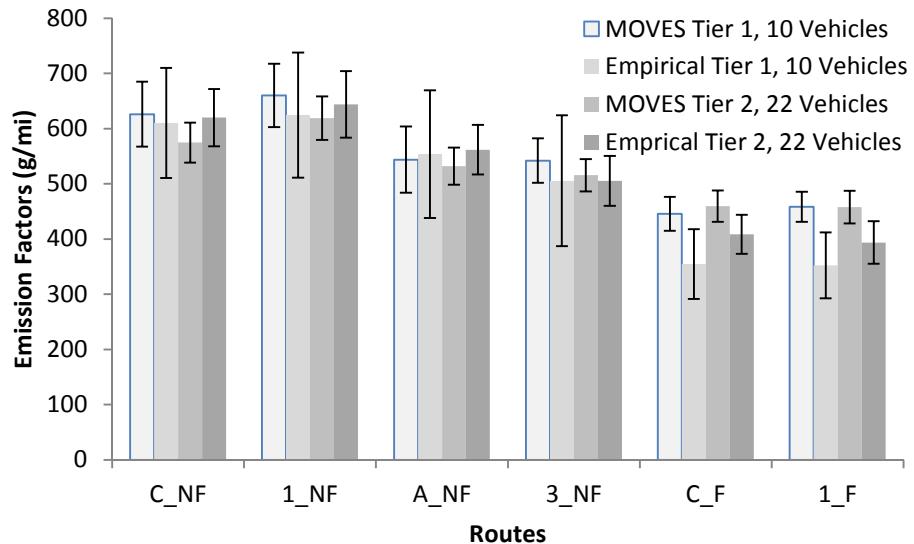
Figure S3 Average CO₂, NO_x, CO, and HC Emission Factors of Cycle Average Speed for MOVES and Empirical Data for Passenger Cars and Passenger Trucks for Tier 1 and Tier 2



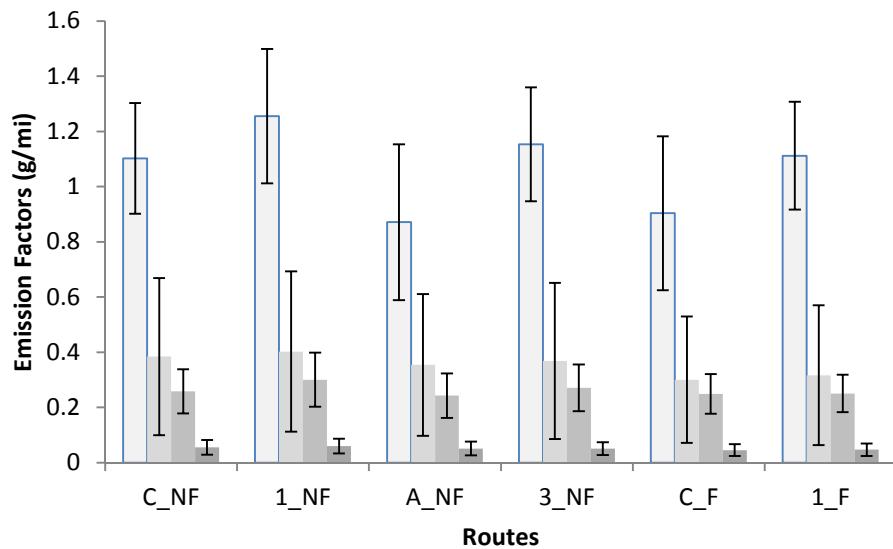
(c) Passenger Cars CO



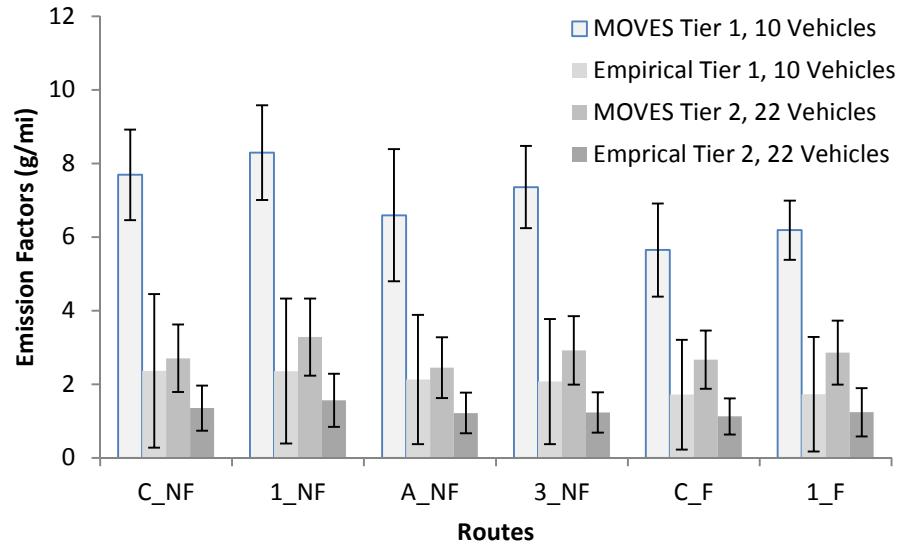
(d) Passenger Cars HC



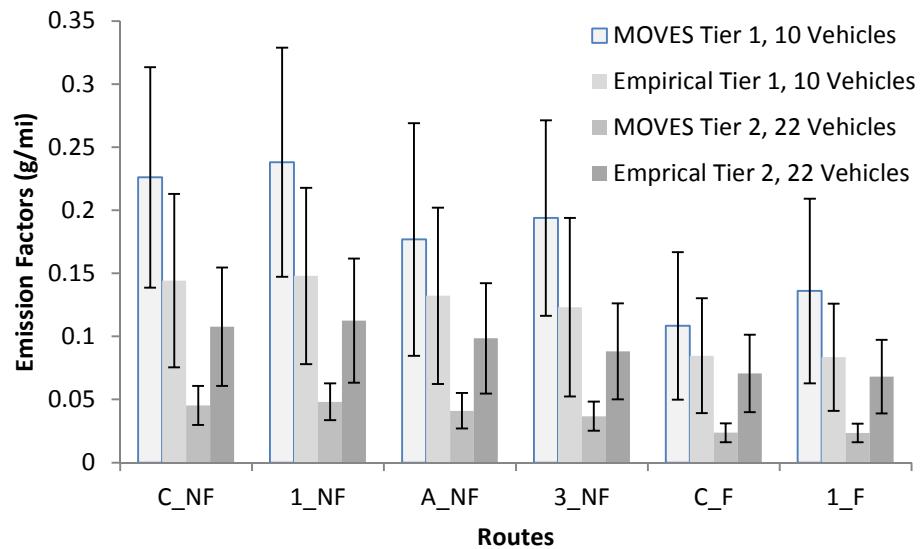
(e) Passenger Trucks CO₂



(f) Passenger Trucks NOx



(g) Passenger Trucks CO



(h) Passenger Trucks HC

Figure S4 Average CO₂, NO_x, CO, and HC Emission Factors of Road Types for MOVES and Empirical Data for Passenger Cars and Passenger Trucks for Tier 1 and Tier 2

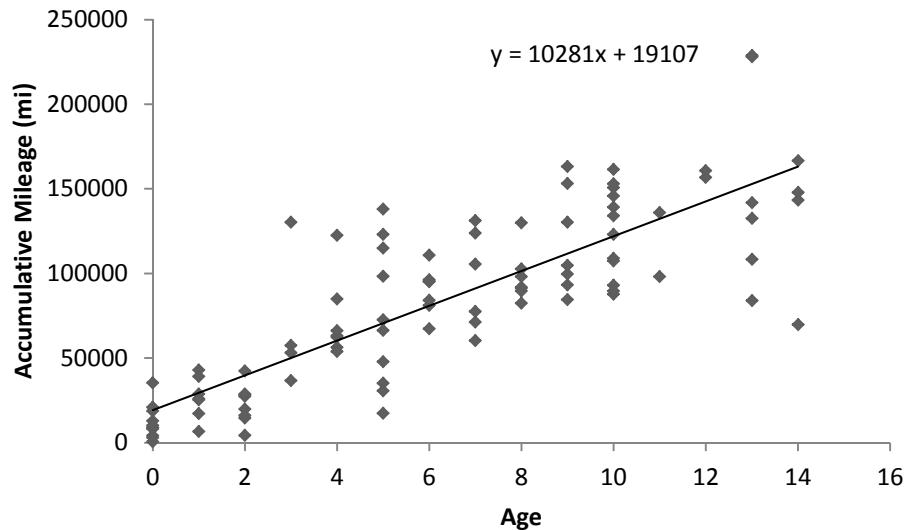


Figure S5 Vehicle Age and Accumulated Mileage for 100 Vehicles

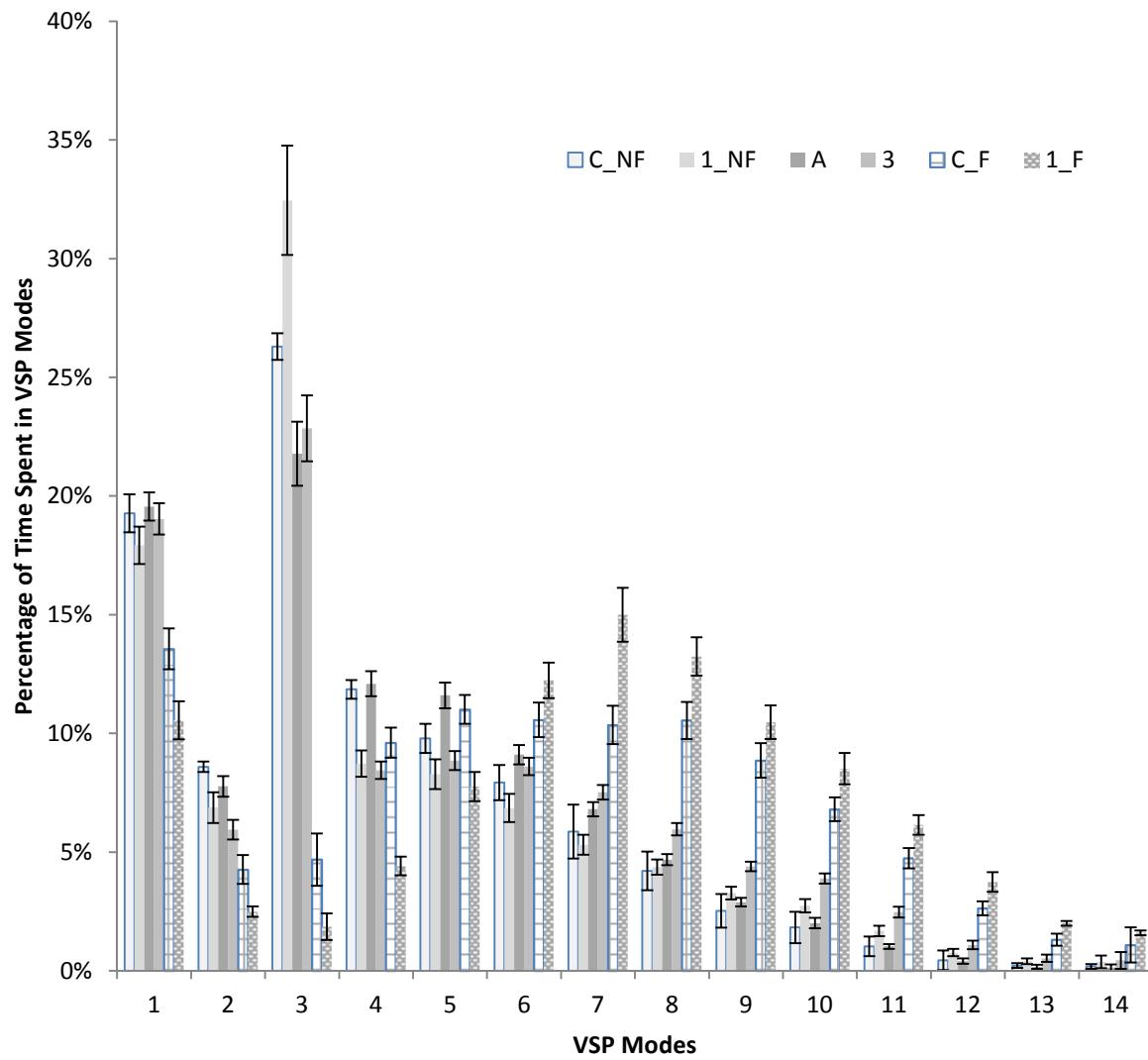


Figure S6 Percentage of Time Spent in VSP Modes for Six Cycles based on Average of 100 Vehicles

S15

Table S1 Characteristics of Six Routes

| Road Type | Cycle ^a | Average Speed (mph) | Length (mile) |
|--------------|--------------------|---------------------|---------------|
| Non-freeways | C_NF | 22.5 | 13 |
| | 1_NF | 22.6 | 6 |
| | A_NF | 26.6 | 20 |
| | 3_NF | 31.4 | 35 |
| Freeways | C_F | 56.9 | 9 |
| | 1_F | 64.5 | 26 |

^a: By distance, Route C is 40% freeway, and Route 1 is 80% freeway.

Table S2 Definition of Vehicle Specific Power (VSP) Modes

| VSP mode | Definition (kW/ton) |
|----------|---------------------|
| 1 | $VSP < -2$ |
| 2 | $-2 \leq VSP < 0$ |
| 3 | $0 \leq VSP < 1$ |
| 4 | $1 \leq VSP < 4$ |
| 5 | $4 \leq VSP < 7$ |
| 6 | $7 \leq VSP < 10$ |
| 7 | $10 \leq VSP < 13$ |
| 8 | $13 \leq VSP < 16$ |
| 9 | $16 \leq VSP < 19$ |
| 10 | $19 \leq VSP < 23$ |
| 11 | $23 \leq VSP < 28$ |
| 12 | $28 \leq VSP < 33$ |
| 13 | $33 \leq VSP < 39$ |
| 14 | $39 \leq VSP$ |

Table S3 Parameters for Regression Model For MOVES estimates for Tier 1 Passenger Cars,

n=141

| | CO ₂ | NO _x | CO | HC |
|----------------------|------------------|-----------------|------|-------|
| R² | NOT SIG 0.003 | 0.43 | 0.33 | 0.41 |
| Intercept | NOT SIG | -0.21 | 0.26 | -0.12 |
| age | NOT SIG | 0.088 | 0.38 | 0.023 |

Table S4 Parameters for Regression Model For MOVES estimates for Tier 2 Passenger Cars,

n=228

| | CO ₂ | NO _x | CO | HC |
|----------------------|-----------------|-----------------|------|--------|
| R² | 0.03 | 0.69 | 0.51 | 0.57 |
| Intercept | 360 | 0.027 | 1.05 | 0.0067 |
| age | 3.6 | 0.017 | 0.24 | 0.0019 |

Table S5 Parameters for Regression Model for MOVES estimates for Tier1 Passenger Trucks,

n=60

| | CO ₂ | NO _x | CO | HC |
|----------------------|------------------|------------------|------------------|-------|
| R² | NOT SIG 0.087 | NOT SIG 0.072 | NOT SIG 0.077 | 0.37 |
| Intercept | NOT SIG | NOT SIG | NOT SIG | -0.36 |
| age | NOT SIG | NOT SIG | NOT SIG | 0.051 |

Table S6 Parameters for Regression Model for MOVES estimates for Tier 2 Passenger Trucks,

n=132

| | CO ₂ | NO _x | CO | HC |
|----------------------|-----------------|-----------------|------|--------|
| R² | 0.16 | 0.48 | 0.37 | 0.36 |
| Intercept | 482 | 0.12 | 1.46 | 0.017 |
| age | 12 | 0.040 | 0.37 | 0.0054 |

Table S7 Parameters for Regression Model for Empirical data for Tier 1 Passenger Cars, n=141

| PC_TIER I | CO ₂ | NO _x | CO | HC |
|----------------------|-----------------|-----------------|-----------|------------|
| R² | NOT SIG 0.07 | 0.12 | 0.25 | 0.21 |
| Intercept | NOT SIG | -1.0 | -6.6 | -0.14 |
| age | NOT SIG | 0.11 | 0.55 | 0.012 |
| Mileage | NOT SIG | 0.00001 | 0.00008 | 0.000002 |
| A*M | NOT SIG | -0.0000008 | -0.000006 | -0.0000001 |

Table S8 Parameters for Regression Model for Empirical data for Tier 2 Passenger Cars, n=228

| PC_TIER II | CO ₂ | NO _x | CO | HC |
|----------------------|-----------------|-----------------|----------|------------|
| R² | NOT SIG 0.03 | NOT SIG 0.04 | 0.07 | 0.17 |
| Intercept | NOT SIG | NOT SIG | 0.43 | 0.019 |
| age | NOT SIG | NOT SIG | 0.06 | 0.02 |
| Mileage | NOT SIG | NOT SIG | 0.000005 | 0.0000005 |
| A*M | NOT SIG | NOT SIG | NOT SIG | -0.0000002 |

Table S9 Parameters for Regression Model for Empirical Data for Tier 1 Passenger Trucks, n=60

| PT_TIER I | CO ₂ | NO _x | CO | HC |
|----------------------|-----------------|-----------------|-----------------|----------|
| R² | NOT SIG 0.07 | 0.23 | NOT SIG 0.02 | 0.29 |
| Intercept | NOT SIG | NOT SIG | NOT SIG | NOT SIG |
| age | NOT SIG | 0.10 | NOT SIG | NOT SIG |
| Mileage | NOT SIG | 0.000004 | NOT SIG | 0.000001 |
| A*M | NOT SIG | NOT SIG | NOT SIG | NOT SIG |

Table S10 Parameters for Regression Model for Empirical Data for Tier 2 Passenger Trucks,

n=132

| PT_TIER II | CO ₂ | NO _x | CO | HC |
|----------------------|-----------------|-----------------|-----------------|-----------|
| R² | NOT SIG 0.05 | 0.44 | NOT SIG 0.06 | 0.18 |
| Intercept | NOT SIG | 0.0013 | NOT SIG | NOT SIG |
| age | NOT SIG | 0.010 | NOT SIG | 0.005 |
| Mileage | NOT SIG | 0.0000006 | NOT SIG | 0.0000006 |
| A*M | NOT SIG | NOT SIG | NOT SIG | NOT SIG |

Table S11 Parameters for Regression Model for Empirical Data for Hybrid Electric Vehicles,

n=30

| PT_TIER II | CO ₂ | NO _x | CO | HC |
|----------------------|-----------------|-----------------|----------|------------|
| R² | 0.28 | 0.37 | 0.91 | 0.61 |
| Intercept | 206 | NOT SIG | NOT SIG | 0.066 |
| age | 38 | 0.016 | -0.16 | -0.027 |
| Mileage | NOT SIG | 0.0000008 | 0.000006 | -0.0000007 |
| A*M | NOT SIG | -0.0000003 | 0.000002 | 0.0000005 |

Table S12 Summary of Vehicles Measured

| Test Date (yyyymm dd) | Model Year | Make | Model | Vehicle Type | Engine Displacement (L) | Transmission (A/M) | Mileage (mi) | Curb Weight (lb) |
|-----------------------|------------|------------|------------|--------------|-------------------------|--------------------|--------------|------------------|
| 20081025 | 2008 | Honda | Civic | sedan | 1.8 | A | 3,109 | 2690 |
| 20081101 | 2003 | VW | Passat | sedan | 2.8 | M | 72,597 | 3373 |
| 20090328 | 2001 | Mazda | Millenia | sedan | 2.5 | A | 91,354 | 3358 |
| 20090329 | 2005 | Mazda | 3S | sedan | 2.3 | A | 62,428 | 2762 |
| 20090330 | 2003 | Pontiac | Vibe | sedan | 1.8 | A | 67,283 | 2980 |
| 20090331 | 2007 | Nissan | Sentra | sedan | 2.0 | A | 19,885 | 2897 |
| 20090405 | 2007 | Honda | Civic | sedan | 1.8 | A | 4,393 | 2628 |
| 20091017 | 1999 | Chevy | Malibu | sedan | 2.4 | A | 123,036 | 3051 |
| 20091018 | 2006 | Ford | Taurus | sedan | 3.0 | A | 57,502 | 3322 |
| 20091024 | 2009 | VW | Jetta | sedan | 2.5 | M | 37,417 | 3230 |
| 20091025 | 2000 | Buick | LeSabre | sedan | 3.8 | A | 130,342 | 3591 |
| 20091026 | 1999 | Pontiac | Grand Prix | sedan | 3.1 | A | 145,818 | 3396 |
| 20091106 | 2007 | Honda | Civic | sedan | 1.8 | A | 14,558 | 2628 |
| 20101016 | 2004 | Honda | Civic | sedan | 1.7 | M | 96,307 | 2449 |
| 20101017 | 2000 | Mitsubishi | Galant | sedan | 2.4 | A | 139,146 | 3075 |
| 20101018 | 2006 | Toyota | Corolla | sedan | 1.8 | A | 63,197 | 2530 |
| 20101020 | 1997 | Toyota | Camry | sedan | 2.2 | M | 228,000 | 3086 |
| 20101028 | 2006 | Honda | Civic Hy. | sedan | 1.3 | A | 84,944 | 2875 |
| 20101030 | 2000 | Honda | Civic | sedan | 1.6 | M | 150,813 | 2339 |
| 20101031 | 2000 | Nissan | Altima | sedan | 2.4 | A | 161,560 | 3057 |
| 20101101 | 2006 | Toyota | Prius | sedan | 1.5 | A | 56,440 | 2890 |
| 20101105 | 1998 | Ford | Expedition | SUV | 5.4 | A | 160,732 | 5177 |
| 20101106 | 2005 | Buick | LaCrosse | sedan | 3.8 | A | 123,031 | 3502 |
| 20101110 | 1997 | Honda | Accord | sedan | 2.2 | A | 228,780 | 2855 |
| 20101114 | 1996 | Toyota | Tacoma | PICKUP | 3.4 | M | 166,598 | 2560 |
| 20110122 | 2003 | Chevrolet | Impala | sedan | 3.4 | A | 129,967 | 3389 |
| 20110123 | 2001 | Honda | Accord V6 | sedan | 3.0 | A | 107,344 | 3241 |
| 20110126 | 2004 | Honda | Civic | sedan | 1.7 | A | 71,346 | 2606 |
| 20110204 | 2000 | Chevrolet | Blazer | SUV | 4.3 | A | 98,114 | 3692 |
| 20110206 | 2006 | Honda | Accord | sedan | 2.4 | A | 66,377 | 3201 |
| 20110212 | 2001 | Chevrolet | Silverado | PICKUP | 5.3 | A | 87,679 | 3975 |
| 20110214 | 2006 | VW | Jetta | sedan | 2.0 | M | 114,930 | 3259 |

| | | | | | | | | |
|----------|------|------------|-------------|---------|-----|---|---------|------|
| 20110219 | 2006 | Scion | tC | sedan | 2.4 | A | 17,400 | 2970 |
| 20110829 | 2007 | GMC | Sierra | PICKUP | 5.3 | A | 122,585 | 5371 |
| 20110830 | 2001 | Toyota | Camry | sedan | 2.2 | A | 93,090 | 2998 |
| 20110831 | 2006 | Chevrolet | Silverado | PICKUP | 5.3 | A | 138,109 | 4348 |
| 20110903 | 2005 | Saab | 9-2x | sedan | 2.5 | A | 81,170 | 3070 |
| 20110907 | 2001 | Buick | LeSabre | sedan | 3.8 | A | 108,864 | 3567 |
| 20110909 | 2008 | Toyota | Sienna | MINIVAN | 3.5 | A | 53,113 | 4270 |
| 20110910 | 2008 | Honda | Civic | sedan | 1.8 | A | 36,687 | 2650 |
| 20110911 | 2006 | Honda | Accord | sedan | 2.4 | A | 35,189 | 3201 |
| 20110916 | 2007 | Honda | Accord | sedan | 2.4 | A | 66,120 | 3197 |
| 20110918 | 1998 | Chevrolet | S10 | PICKUP | 4.3 | A | 141,843 | 3740 |
| 20110919 | 2005 | Chevrolet | Tahoe | SUV | 5.3 | A | 110,886 | 5192 |
| 20110921 | 2005 | Honda | Element | SUV | 2.4 | A | 95,429 | 3508 |
| 20111017 | 2002 | Ford | Ranger | PICKUP | 2.3 | M | 153,119 | 3030 |
| 20111024 | 1998 | Chrysler | Sebring Lxi | sedan | 2.5 | A | 132,507 | 3197 |
| 20111216 | 2012 | Nissan | Versa | sedan | 1.8 | A | 613 | 2759 |
| 20111219 | 2011 | Chevrolet | HHR | SUV | 2.2 | A | 21,045 | 3208 |
| 20111220 | 2011 | Toyota | Camry | sedan | 2.5 | A | 8,826 | 3263 |
| 20120120 | 2005 | Toyota | Camry SE | sedan | 2.4 | A | 105,455 | 3164 |
| 20120121 | 2003 | Chrysler | Pt Cruiser | SUV | 2.4 | A | 84,493 | 3108 |
| 20120124 | 1998 | Buick | Century | sedan | 3.1 | A | 69,732 | 3335 |
| 20120126 | 2010 | Toyota | Highlander | SUV | 3.3 | A | 27,455 | 4050 |
| 20120127 | 2010 | Ford | F-150 | PICKUP | 4.6 | A | 28,206 | 4693 |
| 20120128 | 2012 | Fiat | 500 | sedan | 1.4 | A | 12,874 | 2363 |
| 20120131 | 2006 | Mitsubishi | Eclipse | sedan | 2.4 | A | 95,056 | 3274 |
| 20120204 | 2004 | Dodge | Stratus | sedan | 2.7 | A | 82,540 | 3225 |
| 20120205 | 2007 | Jeep | Wrangler | SUV | 3.8 | M | 30,646 | 3760 |
| 20120211 | 1999 | Honda | Accord LX | sedan | 2.3 | A | 83,916 | 2987 |
| 20120212 | 1998 | Honda | Accord | sedan | 2.3 | A | 143,297 | 3086 |
| 20120226 | 2006 | Toyota | Tundra | PICKUP | 4.7 | A | 84,234 | 4965 |
| 20120907 | 2002 | Lexus | RX300 | SUV | 3.0 | A | 134,065 | 3692 |
| 20120908 | 2005 | Mazda | 6 | sedan | 2.3 | A | 77,458 | 3102 |
| 20120909 | 2008 | Honda | Fit | sedan | 1.5 | A | 53,924 | 2432 |
| 20120910 | 2004 | Honda | Civic | sedan | 1.7 | A | 91,966 | 2612 |
| 20120913 | 2004 | Toyota | Tacoma | PICKUP | 3.4 | A | 89,590 | 3475 |
| 20120914 | 1998 | Volvo | S70-T5 | sedan | 2.3 | A | 147,879 | 3333 |
| 20120915 | 2003 | Acura | RSX | COUPE | 2.0 | M | 104,687 | 2767 |

| | | | | | | | | |
|-----------|------|-----------|-----------------|---------|-----|---|---------|------|
| 20120917 | 2010 | Chevrolet | Silverado | PICKUP | 4.8 | A | 26,551 | 5110 |
| 20120917B | 2011 | Ford | F150 | PICKUP | 5.0 | A | 28,779 | 5577 |
| 20120919 | 2011 | Ford | F150 | PICKUP | 5.0 | A | 17,208 | 5577 |
| 20120921 | 2010 | Chevrolet | Silverado | PICKUP | 4.8 | A | 42,431 | 5110 |
| 20120927 | 2002 | Chevy | Silverado | PICKUP | 4.8 | A | 152,910 | 4910 |
| 20120928 | 2005 | Toyota | Tacoma | PICKUP | 4.0 | A | 131,334 | 3810 |
| 20120929 | 2013 | GMC | Yukon | SUV | 5.3 | A | 4,104 | 5820 |
| 20120930 | 2003 | Toyota | Camry | sedan | 2.4 | A | 163,265 | 3219 |
| 20121001 | 2012 | Toyota | Camry | sedan | 2.5 | A | 18,773 | 3190 |
| 20121002 | 2002 | Jeep | Wrangler | SUV | 4.0 | M | 89,705 | 3316 |
| 20130201 | 2012 | Nissan | Rogue | SUV | 2.5 | A | 6,686 | 3329 |
| 20130202 | 2013 | Kia | Forte | sedan | 2.0 | A | 8,941 | 2791 |
| 20130204 | 2001 | Mazda | Protégé | sedan | 2.0 | A | 156,845 | 2687 |
| 20130205 | 2000 | Pontiac | Grand Prix | sedan | 3.8 | A | 108,430 | 3414 |
| 20130207 | 2005 | Honda | Civic | sedan | 1.7 | A | 98,131 | 2560 |
| 20130208 | 2005 | Toyota | Corolla | sedan | 1.8 | M | 102,696 | 2530 |
| 20130210 | 2004 | Chevrolet | Trailblazer | SUV | 4.2 | A | 99,635 | 4612 |
| 20130212 | 2011 | Hyundai | Elantra Touring | sedan | 2.0 | A | 16,077 | 2937 |
| 20130215 | 2002 | Jeep | Wrangler | SUV | 4.0 | M | 135,987 | 3316 |
| 20130218 | 2006 | Ford | Escape | SUV | 2.3 | A | 60,245 | 3627 |
| 20130220 | 2004 | Pontiac | Grand | COUPE | 3.4 | A | 93,256 | 3091 |
| 20130222 | 2008 | Nissan | Xterra | SUV | 4.0 | A | 47,883 | 4387 |
| 20130223 | 2013 | Chevrolet | Impala | sedan | 3.6 | A | 8,176 | 3555 |
| 20130224 | 2012 | Ford | Fusion SE | sedan | 2.5 | A | 42,946 | 3285 |
| 20130302 | 2012 | VW | Passat | sedan | 2.5 | A | 25,379 | 3166 |
| 20130515 | 2013 | GMC | Terrain | SUV | 2.4 | A | 10,135 | 3853 |
| 20130520 | 2013 | Toyota | Sienna | MINIVAN | 3.5 | A | 35,378 | 4310 |
| 20130528 | 2012 | Ford | Fusion | sedan | 2.5 | A | 25,894 | 3285 |
| 20130601 | 2006 | Dodge | Caravan | Caravan | 3.3 | A | 123,929 | 3908 |
| 20130609 | 2008 | Chevy | Impala | Sedan | 3.5 | A | 98,363 | 3555 |
| 20130623 | 2012 | Dodge | Avenger | sedan | 2.4 | A | 39,165 | 3400 |

Table S13 Summary of Driving Cycles: Mean of Speed, Standard Deviation of Speed, and Standard Deviation of Acceleration

| Cycle ID | Test Date (yyyymm dd) | Make | Model | Model year | Cycle | Mean_speed (mph) | SD_speed (mph) | SD_acceleration (mph/s) |
|----------|-----------------------|---------|----------|------------|-------|------------------|----------------|-------------------------|
| 1 | 20081025 | Honda | Civic | 2008 | A | 24.6 | 16.0 | 1.5 |
| 2 | 20081025 | Honda | Civic | 2008 | C_F | 61.2 | 6.6 | 0.7 |
| 3 | 20081025 | Honda | Civic | 2008 | C_NF | 20.3 | 16.2 | 1.5 |
| 4 | 20081025 | Honda | Civic | 2008 | 1_F | 63.9 | 5.9 | 0.5 |
| 5 | 20081025 | Honda | Civic | 2008 | 1_NF | 23.7 | 17.5 | 1.5 |
| 6 | 20081025 | Honda | Civic | 2008 | 3 | 33.5 | 19.1 | 1.3 |
| 7 | 20081101 | VW | passat | 2003 | A | 28.8 | 17.2 | 1.6 |
| 8 | 20081101 | VW | passat | 2003 | C_F | 59.2 | 4.3 | 0.8 |
| 9 | 20081101 | VW | passat | 2003 | C_NF | 21.5 | 15.6 | 1.7 |
| 10 | 20081101 | VW | passat | 2003 | 1_F | 63.8 | 5.7 | 0.6 |
| 11 | 20081101 | VW | passat | 2003 | 1_NF | 28.1 | 19.6 | 1.8 |
| 12 | 20081101 | VW | passat | 2003 | 3 | 32.3 | 20.9 | 1.7 |
| 13 | 20090328 | Mazda | Millenia | 2001 | A | 32.6 | 21.9 | 1.5 |
| 14 | 20090328 | Mazda | Millenia | 2001 | C_F | 53.3 | 6.3 | 1.0 |
| 15 | 20090328 | Mazda | Millenia | 2001 | C_NF | 23.4 | 17.8 | 2.0 |
| 16 | 20090328 | Mazda | Millenia | 2001 | 1_F | 64.9 | 6.4 | 0.7 |
| 17 | 20090328 | Mazda | Millenia | 2001 | 1_NF | 26.8 | 18.5 | 1.7 |
| 18 | 20090328 | Mazda | Millenia | 2001 | 3 | 26.3 | 20.8 | 1.6 |
| 19 | 20090329 | Mazda | 3S | 2005 | A | 29.6 | 23.0 | 1.4 |
| 20 | 20090329 | Mazda | 3S | 2005 | C_F | 53.5 | 7.4 | 1.0 |
| 21 | 20090329 | Mazda | 3S | 2005 | C_NF | 27.0 | 19.3 | 1.6 |
| 22 | 20090329 | Mazda | 3S | 2005 | 1_F | 70.8 | 7.6 | 0.8 |
| 23 | 20090329 | Mazda | 3S | 2005 | 1_NF | 20.2 | 20.4 | 1.9 |
| 24 | 20090329 | Mazda | 3S | 2005 | 3 | 29.3 | 19.9 | 1.4 |
| 25 | 20090330 | Pontiac | Vibe | 2003 | A | 33.1 | 19.6 | 1.5 |
| 26 | 20090330 | Pontiac | Vibe | 2003 | C_F | 49.1 | 11.7 | 2.1 |
| 27 | 20090330 | Pontiac | Vibe | 2003 | C_NF | 23.0 | 18.2 | 2.0 |
| 28 | 20090330 | Pontiac | Vibe | 2003 | 1_F | 66.0 | 5.4 | 0.7 |
| 29 | 20090330 | Pontiac | Vibe | 2003 | 1_NF | 21.4 | 19.0 | 1.9 |
| 30 | 20090330 | Pontiac | Vibe | 2003 | 3 | 25.5 | 19.0 | 1.5 |
| 31 | 20090331 | Nissan | Sentra | 2007 | A | 31.7 | 21.9 | 1.7 |
| 32 | 20090331 | Nissan | Sentra | 2007 | C_F | 44.5 | 15.6 | 1.5 |
| 33 | 20090331 | Nissan | Sentra | 2007 | C_NF | 26.6 | 19.0 | 1.7 |
| 34 | 20090331 | Nissan | Sentra | 2007 | 1_F | 66.9 | 6.8 | 0.6 |
| 35 | 20090331 | Nissan | Sentra | 2007 | 1_NF | 22.1 | 18.7 | 2.0 |

| | | | | | | | | |
|----|----------|-----------|------------|------|------|------|------|-----|
| 36 | 20090331 | Nissan | Sentra | 2007 | 3 | 25.4 | 19.9 | 1.6 |
| 37 | 20090405 | Honda | Civic | 2007 | A | 33.5 | 20.6 | 1.4 |
| 38 | 20090405 | Honda | Civic | 2007 | C_F | 44.0 | 19.0 | 1.1 |
| 39 | 20090405 | Honda | Civic | 2007 | C_NF | 28.1 | 18.7 | 1.6 |
| 40 | 20090405 | Honda | Civic | 2007 | 1_F | 65.9 | 5.9 | 0.6 |
| 41 | 20090405 | Honda | Civic | 2007 | 1_NF | 21.5 | 18.5 | 1.7 |
| 42 | 20090405 | Honda | Civic | 2007 | 3 | 27.7 | 20.1 | 1.5 |
| 43 | 20091017 | Chevrolet | Malibu | 1999 | A | 26.4 | 18.6 | 1.7 |
| 44 | 20091017 | Chevrolet | Malibu | 1999 | C_F | 61.6 | 11.5 | 1.0 |
| 45 | 20091017 | Chevrolet | Malibu | 1999 | C_NF | 22.7 | 16.6 | 2.0 |
| 46 | 20091017 | Chevrolet | Malibu | 1999 | 1_F | 71.1 | 7.8 | 0.7 |
| 47 | 20091017 | Chevrolet | Malibu | 1999 | 1_NF | 22.9 | 19.6 | 2.2 |
| 48 | 20091017 | Chevrolet | Malibu | 1999 | 3 | 34.7 | 22.1 | 1.9 |
| 49 | 20091018 | Ford | Taurus | 2006 | A | 25.8 | 17.4 | 1.7 |
| 50 | 20091018 | Ford | Taurus | 2006 | C_F | 63.0 | 5.4 | 0.9 |
| 51 | 20091018 | Ford | Taurus | 2006 | C_NF | 23.7 | 17.2 | 1.9 |
| 52 | 20091018 | Ford | Taurus | 2006 | 1_F | 67.1 | 6.1 | 0.7 |
| 53 | 20091018 | Ford | Taurus | 2006 | 1_NF | 26.5 | 20.0 | 2.1 |
| 54 | 20091018 | Ford | Taurus | 2006 | 3 | 35.6 | 21.2 | 1.7 |
| 55 | 20091025 | Buick | Lesabre | 2000 | A | 27.7 | 18.0 | 1.7 |
| 56 | 20091025 | Buick | Lesabre | 2000 | C_F | 66.3 | 7.2 | 0.9 |
| 57 | 20091025 | Buick | Lesabre | 2000 | C_NF | 22.9 | 17.0 | 1.9 |
| 58 | 20091025 | Buick | Lesabre | 2000 | 1_F | 71.0 | 6.9 | 0.7 |
| 59 | 20091025 | Buick | Lesabre | 2000 | 1_NF | 22.4 | 19.6 | 2.0 |
| 60 | 20091025 | Buick | Lesabre | 2000 | 3 | 35.1 | 22.6 | 1.7 |
| 61 | 20091026 | Pontiac | Grand Prix | 1999 | A | 23.7 | 16.8 | 1.7 |
| 62 | 20091026 | Pontiac | Grand Prix | 1999 | C_F | 57.8 | 6.6 | 0.9 |
| 63 | 20091026 | Pontiac | Grand Prix | 1999 | C_NF | 20.6 | 14.8 | 1.7 |
| 64 | 20091026 | Pontiac | Grand Prix | 1999 | 1_F | 65.8 | 7.7 | 0.7 |
| 65 | 20091026 | Pontiac | Grand Prix | 1999 | 1_NF | 14.0 | 17.5 | 1.7 |
| 66 | 20091026 | Pontiac | Grand Prix | 1999 | 3 | 30.8 | 20.7 | 1.7 |
| 67 | 20091106 | Honda | Civic | 2007 | A | 21.7 | 16.9 | 1.8 |
| 68 | 20091106 | Honda | Civic | 2007 | C_F | 58.0 | 6.7 | 0.9 |
| 69 | 20091106 | Honda | Civic | 2007 | C_NF | 19.2 | 14.3 | 1.8 |
| 70 | 20091106 | Honda | Civic | 2007 | 1_F | 67.2 | 5.8 | 0.7 |
| 71 | 20091106 | Honda | Civic | 2007 | 1_NF | 26.3 | 17.6 | 2.3 |
| 72 | 20091106 | Honda | Civic | 2007 | 3 | 31.6 | 20.9 | 1.7 |
| 73 | 20101016 | Honda | Civic | 2004 | A | 27.0 | 16.6 | 1.7 |
| 74 | 20101016 | Honda | Civic | 2004 | C_F | 66.5 | 4.8 | 0.8 |
| 75 | 20101016 | Honda | Civic | 2004 | C_NF | 19.3 | 16.1 | 1.7 |
| 76 | 20101016 | Honda | Civic | 2004 | 1_F | 70.9 | 5.4 | 0.6 |

| | | | | | | | | |
|-----|----------|------------|--------------|------|------|------|------|-----|
| 77 | 20101016 | Honda | Civic | 2004 | 1_NF | 21.1 | 19.8 | 2.0 |
| 78 | 20101016 | Honda | Civic | 2004 | 3 | 33.1 | 20.5 | 1.8 |
| 79 | 20101017 | Mitsubishi | Galant | 2000 | A | 28.1 | 16.4 | 1.5 |
| 80 | 20101017 | Mitsubishi | Galant | 2000 | C_F | 64.5 | 3.4 | 0.5 |
| 81 | 20101017 | Mitsubishi | Galant | 2000 | C_NF | 21.8 | 15.7 | 1.7 |
| 82 | 20101017 | Mitsubishi | Galant | 2000 | 1_F | 68.2 | 4.1 | 0.5 |
| 83 | 20101017 | Mitsubishi | Galant | 2000 | 1_NF | 24.7 | 19.1 | 1.8 |
| 84 | 20101017 | Mitsubishi | Galant | 2000 | 3 | 32.6 | 16.7 | 1.6 |
| 85 | 20101018 | Toyota | Corolla | 2006 | A | 25.2 | 17.0 | 1.7 |
| 86 | 20101018 | Toyota | Corolla | 2006 | C_F | 62.7 | 3.9 | 0.8 |
| 87 | 20101018 | Toyota | Corolla | 2006 | C_NF | 22.6 | 16.0 | 1.9 |
| 88 | 20101018 | Toyota | Corolla | 2006 | 1_F | 73.8 | 6.7 | 0.7 |
| 89 | 20101018 | Toyota | Corolla | 2006 | 1_NF | 25.3 | 20.5 | 2.6 |
| 90 | 20101018 | Toyota | Corolla | 2006 | 3 | 30.0 | 21.9 | 1.8 |
| 91 | 20101020 | Toyota | Camry | 1997 | A | 21.5 | 15.9 | 3.3 |
| 92 | 20101020 | Toyota | Camry | 1997 | C_F | 60.6 | 2.5 | 0.6 |
| 93 | 20101020 | Toyota | Camry | 1997 | C_NF | 21.7 | 15.8 | 2.9 |
| 94 | 20101020 | Toyota | Camry | 1997 | 1_F | 64.9 | 2.7 | 0.5 |
| 95 | 20101020 | Toyota | Camry | 1997 | 1_NF | 21.7 | 18.8 | 4.3 |
| 96 | 20101020 | Toyota | Camry | 1997 | 3 | 30.0 | 17.4 | 3.3 |
| 97 | 20101028 | Honda | Civic Hybrid | 2006 | A | 24.2 | 16.5 | 1.8 |
| 98 | 20101028 | Honda | Civic Hybrid | 2006 | C_F | 25.5 | 20.1 | 1.6 |
| 99 | 20101028 | Honda | Civic Hybrid | 2006 | C_NF | 20.4 | 15.4 | 1.7 |
| 100 | 20101028 | Honda | Civic Hybrid | 2006 | 1_F | 67.5 | 3.3 | 0.5 |
| 101 | 20101028 | Honda | Civic Hybrid | 2006 | 1_NF | 19.1 | 19.0 | 1.9 |
| 102 | 20101028 | Honda | Civic Hybrid | 2006 | 3 | 34.4 | 20.6 | 1.6 |
| 103 | 20101030 | Honda | Civic | 2000 | A | 28.7 | 17.2 | 1.7 |
| 104 | 20101030 | Honda | Civic | 2000 | C_F | 64.4 | 3.7 | 0.6 |
| 105 | 20101030 | Honda | Civic | 2000 | C_NF | 26.1 | 15.5 | 1.8 |
| 106 | 20101030 | Honda | Civic | 2000 | 1_F | 55.2 | 23.6 | 1.5 |
| 107 | 20101030 | Honda | Civic | 2000 | 1_NF | 21.9 | 18.9 | 2.0 |
| 108 | 20101030 | Honda | Civic | 2000 | 3 | 37.0 | 21.9 | 1.7 |
| 109 | 20101031 | Nissan | Altima | 2000 | A | 26.4 | 15.7 | 1.4 |
| 110 | 20101031 | Nissan | Altima | 2000 | C_F | 64.2 | 4.1 | 0.8 |
| 111 | 20101031 | Nissan | Altima | 2000 | C_NF | 23.3 | 16.4 | 1.6 |
| 112 | 20101031 | Nissan | Altima | 2000 | 1_F | 65.8 | 3.9 | 0.7 |
| 113 | 20101031 | Nissan | Altima | 2000 | 1_NF | 22.2 | 18.4 | 1.5 |
| 114 | 20101031 | Nissan | Altima | 2000 | 3 | 34.6 | 20.0 | 1.8 |
| 115 | 20101101 | Toyota | Prius Hybrid | 2006 | A | 23.5 | 17.0 | 1.7 |
| 116 | 20101101 | Toyota | Prius Hybrid | 2006 | C_F | 65.6 | 5.5 | 0.8 |
| 117 | 20101101 | Toyota | Prius Hybrid | 2006 | C_NF | 20.9 | 16.0 | 1.7 |

| | | | | | | | | |
|-----|----------|-----------|--------------|------|------|------|------|-----|
| 118 | 20101101 | Toyota | Prius Hybrid | 2006 | 1_F | 70.5 | 5.1 | 0.8 |
| 119 | 20101101 | Toyota | Prius Hybrid | 2006 | 1_NF | 24.1 | 20.0 | 2.0 |
| 120 | 20101101 | Toyota | Prius Hybrid | 2006 | 3 | 27.4 | 20.8 | 1.6 |
| 121 | 20101105 | Ford | Expedition | 1998 | A | 22.6 | 16.3 | 1.7 |
| 122 | 20101105 | Ford | Expedition | 1998 | C_F | 63.4 | 3.2 | 0.7 |
| 123 | 20101105 | Ford | Expedition | 1998 | C_NF | 21.3 | 16.2 | 1.7 |
| 124 | 20101105 | Ford | Expedition | 1998 | 1_F | 66.6 | 3.3 | 0.7 |
| 125 | 20101105 | Ford | Expedition | 1998 | 1_NF | 24.6 | 19.5 | 1.8 |
| 126 | 20101105 | Ford | Expedition | 1998 | 3 | 27.2 | 20.4 | 1.6 |
| 127 | 20101106 | Buick | Lacrosses | 2005 | A | 28.1 | 16.9 | 1.6 |
| 128 | 20101106 | Buick | Lacrosses | 2005 | C_F | 60.9 | 3.2 | 0.7 |
| 129 | 20101106 | Buick | Lacrosses | 2005 | C_NF | 25.1 | 14.7 | 1.6 |
| 130 | 20101106 | Buick | Lacrosses | 2005 | 1_F | 67.1 | 4.2 | 0.6 |
| 131 | 20101106 | Buick | Lacrosses | 2005 | 1_NF | 26.2 | 19.5 | 1.7 |
| 132 | 20101106 | Buick | Lacrosses | 2005 | 3 | 35.3 | 20.1 | 1.5 |
| 133 | 20101110 | Honda | Accord | 1997 | A | 26.8 | 17.0 | 1.6 |
| 134 | 20101110 | Honda | Accord | 1997 | C_F | 61.8 | 2.8 | 0.6 |
| 135 | 20101110 | Honda | Accord | 1997 | C_NF | 18.2 | 14.6 | 1.6 |
| 136 | 20101110 | Honda | Accord | 1997 | 1_F | 70.6 | 5.6 | 0.6 |
| 137 | 20101110 | Honda | Accord | 1997 | 1_NF | 24.2 | 18.5 | 2.1 |
| 138 | 20101110 | Honda | Accord | 1997 | 3 | 32.2 | 21.4 | 1.6 |
| 139 | 20110122 | Chevrolet | Impala | 2003 | A | 28.6 | 16.2 | 1.7 |
| 140 | 20110122 | Chevrolet | Impala | 2003 | C_F | 43.3 | 22.4 | 1.5 |
| 141 | 20110122 | Chevrolet | Impala | 2003 | C_NF | 24.8 | 14.7 | 2.1 |
| 142 | 20110122 | Chevrolet | Impala | 2003 | 1_F | 61.3 | 7.8 | 0.9 |
| 143 | 20110122 | Chevrolet | Impala | 2003 | 1_NF | 25.0 | 19.4 | 2.4 |
| 144 | 20110122 | Chevrolet | Impala | 2003 | 3 | 32.7 | 20.5 | 1.8 |
| 145 | 20110123 | Honda | Accord V6 | 2001 | A | 27.8 | 16.3 | 1.4 |
| 146 | 20110123 | Honda | Accord V6 | 2001 | C_F | 56.3 | 16.0 | 1.0 |
| 147 | 20110123 | Honda | Accord V6 | 2001 | C_NF | 24.0 | 15.1 | 1.5 |
| 148 | 20110123 | Honda | Accord V6 | 2001 | 1_F | 59.2 | 19.8 | 1.1 |
| 149 | 20110123 | Honda | Accord V6 | 2001 | 1_NF | 26.5 | 19.8 | 1.5 |
| 150 | 20110123 | Honda | Accord V6 | 2001 | 3 | 31.2 | 21.2 | 1.4 |
| 151 | 20110126 | Honda | Civic | 2004 | A | 24.1 | 14.5 | 1.5 |
| 152 | 20110126 | Honda | Civic | 2004 | C_F | 53.1 | 10.3 | 0.9 |
| 153 | 20110126 | Honda | Civic | 2004 | C_NF | 20.2 | 14.7 | 1.5 |
| 154 | 20110126 | Honda | Civic | 2004 | 1_F | 60.9 | 6.6 | 0.6 |
| 155 | 20110126 | Honda | Civic | 2004 | 1_NF | 15.4 | 17.3 | 1.4 |
| 156 | 20110126 | Honda | Civic | 2004 | 3 | 26.7 | 19.8 | 1.6 |
| 157 | 20110204 | Chevrolet | Blazer | 2000 | A | 17.1 | 16.4 | 1.1 |
| 158 | 20110204 | Chevrolet | Blazer | 2000 | C_F | 53.1 | 5.5 | 0.8 |

| | | | | | | | | |
|-----|----------|-----------|-----------|------|------|------|------|-----|
| 159 | 20110204 | Chevrolet | Blazer | 2000 | C_NF | 20.9 | 16.0 | 1.3 |
| 160 | 20110204 | Chevrolet | Blazer | 2000 | 1_F | 60.5 | 4.9 | 0.6 |
| 161 | 20110204 | Chevrolet | Blazer | 2000 | 1_NF | 17.2 | 18.5 | 1.2 |
| 162 | 20110204 | Chevrolet | Blazer | 2000 | 3 | 25.0 | 18.7 | 1.2 |
| 163 | 20110206 | Honda | Accord | 2006 | A | 24.5 | 16.0 | 1.6 |
| 164 | 20110206 | Honda | Accord | 2006 | C_F | 59.7 | 5.6 | 0.9 |
| 165 | 20110206 | Honda | Accord | 2006 | C_NF | 27.9 | 18.5 | 1.4 |
| 166 | 20110206 | Honda | Accord | 2006 | 1_F | 65.1 | 5.6 | 0.6 |
| 167 | 20110206 | Honda | Accord | 2006 | 1_NF | 22.9 | 18.4 | 2.3 |
| 168 | 20110206 | Honda | Accord | 2006 | 3 | 32.0 | 19.7 | 1.6 |
| 169 | 20110212 | Chevrolet | Silverado | 2001 | A | 24.4 | 14.8 | 1.4 |
| 170 | 20110212 | Chevrolet | Silverado | 2001 | C_F | 62.1 | 5.7 | 0.9 |
| 171 | 20110212 | Chevrolet | Silverado | 2001 | C_NF | 21.6 | 15.6 | 1.6 |
| 172 | 20110212 | Chevrolet | Silverado | 2001 | 1_F | 62.0 | 4.9 | 0.5 |
| 173 | 20110212 | Chevrolet | Silverado | 2001 | 1_NF | 14.8 | 16.9 | 1.9 |
| 174 | 20110212 | Chevrolet | Silverado | 2001 | 3 | 29.9 | 20.3 | 1.4 |
| 175 | 20110214 | VW | Jetta | 2006 | A | 23.0 | 16.2 | 1.5 |
| 176 | 20110214 | VW | Jetta | 2006 | C_F | 38.8 | 24.8 | 1.2 |
| 177 | 20110214 | VW | Jetta | 2006 | C_NF | 20.6 | 21.1 | 1.5 |
| 178 | 20110214 | VW | Jetta | 2006 | 1_F | 69.2 | 5.3 | 0.6 |
| 179 | 20110214 | VW | Jetta | 2006 | 1_NF | 21.9 | 18.3 | 1.9 |
| 180 | 20110214 | VW | Jetta | 2006 | 3 | 31.7 | 21.4 | 1.6 |
| 181 | 20110219 | Scion | tC | 2006 | A | 28.3 | 15.8 | 1.9 |
| 182 | 20110219 | Scion | tC | 2006 | C_F | 59.8 | 7.0 | 1.1 |
| 183 | 20110219 | Scion | tC | 2006 | C_NF | 23.3 | 17.0 | 2.3 |
| 184 | 20110219 | Scion | tC | 2006 | 1_F | 65.1 | 3.1 | 0.8 |
| 185 | 20110219 | Scion | tC | 2006 | 1_NF | 20.9 | 20.0 | 2.8 |
| 186 | 20110219 | Scion | tC | 2006 | 3 | 31.7 | 20.1 | 1.7 |
| 187 | 20110829 | GMC | Sierra | 2007 | A | 22.6 | 17.8 | 1.5 |
| 188 | 20110829 | GMC | Sierra | 2007 | C_F | 61.9 | 6.3 | 0.8 |
| 189 | 20110829 | GMC | Sierra | 2007 | C_NF | 19.2 | 17.8 | 1.3 |
| 190 | 20110829 | GMC | Sierra | 2007 | 1_F | 63.1 | 15.0 | 0.9 |
| 191 | 20110829 | GMC | Sierra | 2007 | 1_NF | 21.1 | 18.7 | 1.8 |
| 192 | 20110829 | GMC | Sierra | 2007 | 3 | 26.4 | 21.5 | 1.6 |
| 193 | 20110830 | Toyota | Camry | 2001 | A | 31.2 | 23.9 | 1.3 |
| 194 | 20110830 | Toyota | Camry | 2001 | C_F | 57.7 | 9.9 | 1.0 |
| 195 | 20110830 | Toyota | Camry | 2001 | C_NF | 23.4 | 19.5 | 1.5 |
| 196 | 20110830 | Toyota | Camry | 2001 | 1_F | 59.7 | 14.6 | 0.8 |
| 197 | 20110830 | Toyota | Camry | 2001 | 1_NF | 18.8 | 18.3 | 1.8 |
| 198 | 20110830 | Toyota | Camry | 2001 | 3 | 27.1 | 20.4 | 1.4 |
| 199 | 20110831 | Chevrolet | Silverado | 2006 | A | 23.3 | 15.1 | 1.3 |

| | | | | | | | | |
|-----|----------|-----------|-----------|------|------|------|------|-----|
| 200 | 20110831 | Chevrolet | Silverado | 2006 | C_F | 50.3 | 19.2 | 1.1 |
| 201 | 20110831 | Chevrolet | Silverado | 2006 | C_NF | 20.0 | 14.4 | 1.6 |
| 202 | 20110831 | Chevrolet | Silverado | 2006 | 1_F | 55.7 | 18.0 | 0.9 |
| 203 | 20110831 | Chevrolet | Silverado | 2006 | 1_NF | 17.8 | 18.0 | 1.5 |
| 204 | 20110831 | Chevrolet | Silverado | 2006 | 3 | 28.3 | 20.1 | 1.4 |
| 205 | 20110903 | Saab | 9-2x | 2005 | A | 29.0 | 16.8 | 2.6 |
| 206 | 20110903 | Saab | 9-2x | 2005 | C_F | 66.0 | 4.7 | 1.1 |
| 207 | 20110903 | Saab | 9-2x | 2005 | C_NF | 25.8 | 16.3 | 2.8 |
| 208 | 20110903 | Saab | 9-2x | 2005 | 1_F | 65.9 | 13.0 | 1.2 |
| 209 | 20110903 | Saab | 9-2x | 2005 | 1_NF | 17.1 | 19.5 | 3.9 |
| 210 | 20110903 | Saab | 9-2x | 2005 | 3 | 35.6 | 19.6 | 2.7 |
| 211 | 20110907 | Buick | Lesabre | 2001 | A | 22.7 | 16.9 | 1.5 |
| 212 | 20110907 | Buick | Lesabre | 2001 | C_F | 60.7 | 7.3 | 0.9 |
| 213 | 20110907 | Buick | Lesabre | 2001 | C_NF | 17.3 | 15.1 | 1.4 |
| 214 | 20110907 | Buick | Lesabre | 2001 | 1_F | 60.6 | 12.7 | 0.9 |
| 215 | 20110907 | Buick | Lesabre | 2001 | 1_NF | 16.8 | 18.6 | 1.9 |
| 216 | 20110907 | Buick | Lesabre | 2001 | 3 | 23.6 | 21.6 | 1.3 |
| 217 | 20110909 | Toyota | Sienna | 2008 | A | 22.7 | 15.0 | 1.5 |
| 218 | 20110909 | Toyota | Sienna | 2008 | C_F | 39.5 | 20.5 | 2.1 |
| 219 | 20110909 | Toyota | Sienna | 2008 | C_NF | 21.6 | 14.6 | 1.7 |
| 220 | 20110909 | Toyota | Sienna | 2008 | 1_F | 55.6 | 16.5 | 1.2 |
| 221 | 20110909 | Toyota | Sienna | 2008 | 1_NF | 23.8 | 17.8 | 1.9 |
| 222 | 20110909 | Toyota | Sienna | 2008 | 3 | 28.2 | 19.6 | 1.5 |
| 223 | 20110910 | Honda | Civic | 2008 | A | 26.9 | 16.1 | 1.3 |
| 224 | 20110910 | Honda | Civic | 2008 | C_F | 60.7 | 5.8 | 0.7 |
| 225 | 20110910 | Honda | Civic | 2008 | C_NF | 19.6 | 15.3 | 1.5 |
| 226 | 20110910 | Honda | Civic | 2008 | 1_F | 61.5 | 12.3 | 1.0 |
| 227 | 20110910 | Honda | Civic | 2008 | 1_NF | 21.6 | 19.8 | 1.6 |
| 228 | 20110910 | Honda | Civic | 2008 | 3 | 31.1 | 20.0 | 1.4 |
| 229 | 20110916 | Honda | Accord | 2007 | A | 27.9 | 16.6 | 1.7 |
| 230 | 20110916 | Honda | Accord | 2007 | C_F | 50.4 | 20.3 | 1.2 |
| 231 | 20110916 | Honda | Accord | 2007 | C_NF | 18.9 | 15.3 | 1.7 |
| 232 | 20110916 | Honda | Accord | 2007 | 1_F | 65.1 | 8.2 | 1.0 |
| 233 | 20110916 | Honda | Accord | 2007 | 1_NF | 23.3 | 18.1 | 2.0 |
| 234 | 20110916 | Honda | Accord | 2007 | 3 | 30.2 | 21.9 | 1.7 |
| 235 | 20110918 | Chevrolet | S10 | 1998 | A | 24.3 | 16.5 | 1.4 |
| 236 | 20110918 | Chevrolet | S10 | 1998 | C_F | 62.1 | 3.2 | 0.9 |
| 237 | 20110918 | Chevrolet | S10 | 1998 | C_NF | 21.9 | 15.5 | 1.7 |
| 238 | 20110918 | Chevrolet | S10 | 1998 | 1_F | 65.3 | 4.4 | 0.7 |
| 239 | 20110918 | Chevrolet | S10 | 1998 | 1_NF | 22.5 | 17.6 | 1.9 |
| 240 | 20110918 | Chevrolet | S10 | 1998 | 3 | 33.7 | 20.1 | 1.6 |

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|-----|----------|-----------|---------|------|------|------|------|-----|
| 241 | 20110919 | Chevrolet | Tahoe | 2005 | A | 24.4 | 15.9 | 1.4 |
| 242 | 20110919 | Chevrolet | Tahoe | 2005 | C_F | 62.4 | 6.5 | 0.7 |
| 243 | 20110919 | Chevrolet | Tahoe | 2005 | C_NF | 21.5 | 16.5 | 1.5 |
| 244 | 20110919 | Chevrolet | Tahoe | 2005 | 1_F | 69.8 | 7.6 | 0.7 |
| 245 | 20110919 | Chevrolet | Tahoe | 2005 | 1_NF | 16.6 | 17.6 | 1.4 |
| 246 | 20110919 | Chevrolet | Tahoe | 2005 | 3 | 27.7 | 21.0 | 1.5 |
| 247 | 20110921 | Honda | Element | 2005 | A | 22.6 | 15.8 | 1.2 |
| 248 | 20110921 | Honda | Element | 2005 | C_F | 62.8 | 5.1 | 0.8 |
| 249 | 20110921 | Honda | Element | 2005 | C_NF | 20.5 | 14.4 | 1.4 |
| 250 | 20110921 | Honda | Element | 2005 | 1_F | 63.8 | 6.0 | 0.7 |
| 251 | 20110921 | Honda | Element | 2005 | 1_NF | 20.4 | 17.9 | 1.4 |
| 252 | 20110921 | Honda | Element | 2005 | 3 | 26.7 | 20.4 | 1.3 |
| 253 | 20111017 | Ford | Ranger | 2002 | A | 22.3 | 17.2 | 1.5 |
| 254 | 20111017 | Ford | Ranger | 2002 | C_F | 58.8 | 6.5 | 0.7 |
| 255 | 20111017 | Ford | Ranger | 2002 | C_NF | 16.4 | 15.6 | 1.4 |
| 256 | 20111017 | Ford | Ranger | 2002 | 1_F | 65.2 | 6.4 | 0.7 |
| 257 | 20111017 | Ford | Ranger | 2002 | 1_NF | 15.1 | 18.1 | 1.6 |
| 258 | 20111017 | Ford | Ranger | 2002 | 3 | 23.1 | 20.1 | 1.3 |
| 259 | 20111024 | Chrysler | Sebring | 1998 | A | 21.5 | 16.9 | 1.3 |
| 260 | 20111024 | Chrysler | Sebring | 1998 | C_F | 60.4 | 5.2 | 0.9 |
| 261 | 20111024 | Chrysler | Sebring | 1998 | C_NF | 20.7 | 17.0 | 1.6 |
| 262 | 20111024 | Chrysler | Sebring | 1998 | 1_F | 56.3 | 21.0 | 1.1 |
| 263 | 20111024 | Chrysler | Sebring | 1998 | 1_NF | 17.9 | 17.3 | 1.4 |
| 264 | 20111024 | Chrysler | Sebring | 1998 | 3 | 30.5 | 20.9 | 1.6 |
| 265 | 20111216 | Nissan | Versa | 2012 | A | 17.5 | 17.4 | 1.6 |
| 266 | 20111216 | Nissan | Versa | 2012 | C_F | 50.2 | 21.8 | 1.9 |
| 267 | 20111216 | Nissan | Versa | 2012 | C_NF | 17.1 | 15.7 | 1.9 |
| 268 | 20111216 | Nissan | Versa | 2012 | 1_F | 68.3 | 6.2 | 0.8 |
| 269 | 20111216 | Nissan | Versa | 2012 | 1_NF | 26.0 | 17.8 | 2.3 |
| 270 | 20111216 | Nissan | Versa | 2012 | 3 | 33.4 | 21.9 | 2.0 |
| 271 | 20111219 | Chevrolet | HHR | 2011 | A | 18.7 | 18.7 | 1.6 |
| 272 | 20111219 | Chevrolet | HHR | 2011 | C_F | 23.8 | 22.9 | 1.5 |
| 273 | 20111219 | Chevrolet | HHR | 2011 | C_NF | 17.3 | 17.1 | 1.4 |
| 274 | 20111219 | Chevrolet | HHR | 2011 | 1_F | 71.6 | 12.7 | 1.2 |
| 275 | 20111219 | Chevrolet | HHR | 2011 | 1_NF | 12.3 | 18.4 | 1.6 |
| 276 | 20111219 | Chevrolet | HHR | 2011 | 3 | 29.0 | 23.4 | 1.5 |
| 277 | 20111220 | Toyota | Camry | 2011 | A | 22.1 | 18.6 | 2.9 |
| 278 | 20111220 | Toyota | Camry | 2011 | C_F | 30.8 | 24.3 | 1.6 |
| 279 | 20111220 | Toyota | Camry | 2011 | C_NF | 18.5 | 16.2 | 2.7 |
| 280 | 20111220 | Toyota | Camry | 2011 | 1_F | 68.3 | 11.7 | 1.2 |
| 281 | 20111220 | Toyota | Camry | 2011 | 1_NF | 16.6 | 20.1 | 2.9 |

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|-----|----------|----------|-------------------|------|------|------|------|-----|
| 282 | 20111220 | Toyota | Camry | 2011 | 3 | 24.7 | 23.5 | 2.3 |
| 283 | 20120120 | Toyota | Camry | 2005 | A | 24.1 | 16.3 | 1.5 |
| 284 | 20120120 | Toyota | Camry | 2005 | C_F | 54.7 | 9.8 | 1.2 |
| 285 | 20120120 | Toyota | Camry | 2005 | C_NF | 19.3 | 15.4 | 1.5 |
| 286 | 20120120 | Toyota | Camry | 2005 | 1_F | 65.1 | 5.7 | 0.9 |
| 287 | 20120120 | Toyota | Camry | 2005 | 1_NF | 14.7 | 17.2 | 1.7 |
| 288 | 20120120 | Toyota | Camry | 2005 | 3 | 29.3 | 19.9 | 1.5 |
| 289 | 20120121 | Chrysler | PtCruise | 2003 | A | 26.3 | 14.2 | 1.4 |
| 290 | 20120121 | Chrysler | PtCruise | 2003 | C_F | 57.4 | 8.3 | 0.9 |
| 291 | 20120121 | Chrysler | PtCruise | 2003 | C_NF | 21.5 | 14.9 | 1.9 |
| 292 | 20120121 | Chrysler | PtCruise | 2003 | 1_F | 61.3 | 6.9 | 0.8 |
| 293 | 20120121 | Chrysler | PtCruise | 2003 | 1_NF | 23.4 | 16.9 | 2.0 |
| 294 | 20120121 | Chrysler | PtCruise | 2003 | 3 | 31.3 | 19.8 | 1.4 |
| 295 | 20120124 | Buick | Century | 1998 | A | 22.9 | 15.9 | 1.6 |
| 296 | 20120124 | Buick | Century | 1998 | C_F | 58.7 | 4.2 | 0.8 |
| 297 | 20120124 | Buick | Century | 1998 | C_NF | 18.1 | 15.2 | 1.7 |
| 298 | 20120124 | Buick | Century | 1998 | 1_F | 63.7 | 7.7 | 0.8 |
| 299 | 20120124 | Buick | Century | 1998 | 1_NF | 18.9 | 19.0 | 1.7 |
| 300 | 20120124 | Buick | Century | 1998 | 3 | 31.1 | 19.7 | 1.5 |
| 301 | 20120126 | Toyota | Highlander Hybrid | 2010 | A | 33.6 | 12.8 | 2.6 |
| 302 | 20120126 | Toyota | Highlander Hybrid | 2010 | C_F | 60.0 | 9.9 | 2.2 |
| 303 | 20120126 | Toyota | Highlander Hybrid | 2010 | C_NF | 25.4 | 6.9 | 3.6 |
| 304 | 20120126 | Toyota | Highlander Hybrid | 2010 | 1_F | 65.9 | 6.4 | 0.7 |
| 305 | 20120126 | Toyota | Highlander Hybrid | 2010 | 1_NF | 37.7 | 11.2 | 3.6 |
| 306 | 20120126 | Toyota | Highlander Hybrid | 2010 | 3 | 40.5 | 14.3 | 2.4 |
| 307 | 20120127 | Ford | F-150 | 2010 | A | 20.8 | 17.3 | 1.7 |
| 308 | 20120127 | Ford | F-151 | 2010 | C_F | 63.2 | 8.6 | 0.9 |
| 309 | 20120127 | Ford | F-152 | 2010 | C_NF | 18.8 | 16.3 | 1.9 |
| 310 | 20120127 | Ford | F-153 | 2010 | 1_F | 67.9 | 8.4 | 1.0 |
| 311 | 20120127 | Ford | F-154 | 2010 | 1_NF | 10.4 | 17.4 | 1.7 |
| 312 | 20120127 | Ford | F-155 | 2010 | 3 | 29.3 | 22.6 | 1.8 |
| 313 | 20120128 | Fiat | 500 | 2012 | A | 28.4 | 16.5 | 1.5 |
| 314 | 20120128 | Fiat | 500 | 2012 | C_F | 57.4 | 8.3 | 0.8 |
| 315 | 20120128 | Fiat | 500 | 2012 | C_NF | 21.6 | 15.5 | 1.6 |
| 316 | 20120128 | Fiat | 500 | 2012 | 1_F | 65.6 | 6.4 | 0.5 |
| 317 | 20120128 | Fiat | 500 | 2012 | 1_NF | 22.1 | 18.6 | 1.7 |
| 318 | 20120128 | Fiat | 500 | 2012 | 3 | 34.3 | 19.8 | 1.4 |

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|-----|----------|------------|----------|------|------|------|------|-----|
| 319 | 20120131 | Mitsubishi | Eclipse | 2006 | A | 24.4 | 17.8 | 1.6 |
| 320 | 20120131 | Mitsubishi | Eclipse | 2006 | C_F | 53.6 | 15.2 | 1.5 |
| 321 | 20120131 | Mitsubishi | Eclipse | 2006 | C_NF | 19.6 | 16.0 | 1.6 |
| 322 | 20120131 | Mitsubishi | Eclipse | 2006 | 1_F | 66.2 | 15.0 | 1.1 |
| 323 | 20120131 | Mitsubishi | Eclipse | 2006 | 1_NF | 23.0 | 19.6 | 1.8 |
| 324 | 20120131 | Mitsubishi | Eclipse | 2006 | 3 | 30.1 | 20.4 | 1.6 |
| 325 | 20120204 | Dodge | Stratus | 2004 | A | 26.6 | 16.7 | 1.5 |
| 326 | 20120204 | Dodge | Stratus | 2004 | C_F | 52.6 | 18.4 | 1.0 |
| 327 | 20120204 | Dodge | Stratus | 2004 | C_NF | 20.7 | 16.2 | 1.7 |
| 328 | 20120204 | Dodge | Stratus | 2004 | 1_F | 66.6 | 5.2 | 0.7 |
| 329 | 20120204 | Dodge | Stratus | 2004 | 1_NF | 22.2 | 18.7 | 1.8 |
| 330 | 20120204 | Dodge | Stratus | 2004 | 3 | 33.2 | 20.7 | 1.5 |
| 331 | 20120205 | Jeep | Wrangler | 2007 | A | 26.9 | 16.2 | 1.5 |
| 332 | 20120205 | Jeep | Wrangler | 2007 | C_F | 59.4 | 5.5 | 0.8 |
| 333 | 20120205 | Jeep | Wrangler | 2007 | C_NF | 22.4 | 15.2 | 1.6 |
| 334 | 20120205 | Jeep | Wrangler | 2007 | 1_F | 62.7 | 7.3 | 0.8 |
| 335 | 20120205 | Jeep | Wrangler | 2007 | 1_NF | 25.7 | 18.7 | 1.9 |
| 336 | 20120205 | Jeep | Wrangler | 2007 | 3 | 33.1 | 19.7 | 1.6 |
| 337 | 20120211 | Honda | Accord | 1999 | A | 27.9 | 16.5 | 1.5 |
| 338 | 20120211 | Honda | Accord | 1999 | C_F | 52.9 | 21.8 | 1.2 |
| 339 | 20120211 | Honda | Accord | 1999 | C_NF | 21.2 | 15.3 | 1.7 |
| 340 | 20120211 | Honda | Accord | 1999 | 1_F | 66.7 | 5.7 | 0.7 |
| 341 | 20120211 | Honda | Accord | 1999 | 1_NF | 24.2 | 19.3 | 1.9 |
| 342 | 20120211 | Honda | Accord | 1999 | 3 | 34.1 | 19.7 | 1.5 |
| 343 | 20120212 | Honda | Accord | 1998 | A | 28.2 | 15.0 | 1.1 |
| 344 | 20120212 | Honda | Accord | 1998 | C_F | 56.3 | 7.7 | 0.9 |
| 345 | 20120212 | Honda | Accord | 1998 | C_NF | 23.5 | 15.7 | 1.6 |
| 346 | 20120212 | Honda | Accord | 1998 | 1_F | 62.6 | 5.4 | 0.7 |
| 347 | 20120212 | Honda | Accord | 1998 | 1_NF | 21.8 | 17.4 | 1.7 |
| 348 | 20120212 | Honda | Accord | 1998 | 3 | 31.4 | 20.3 | 1.4 |
| 349 | 20120226 | Toyota | Tundra | 2006 | A | 28.3 | 16.3 | 1.3 |
| 350 | 20120226 | Toyota | Tundra | 2006 | C_F | 60.8 | 6.2 | 1.2 |
| 351 | 20120226 | Toyota | Tundra | 2006 | C_NF | 21.9 | 15.0 | 2.0 |
| 352 | 20120226 | Toyota | Tundra | 2006 | 1_F | 65.4 | 5.3 | 0.8 |
| 353 | 20120226 | Toyota | Tundra | 2006 | 1_NF | 24.3 | 18.1 | 1.9 |
| 354 | 20120226 | Toyota | Tundra | 2006 | 3 | 34.5 | 17.8 | 1.5 |
| 355 | 20120907 | Lexus | RX300 | 2002 | A | 19.9 | 16.2 | 1.7 |
| 356 | 20120907 | Lexus | RX300 | 2002 | C_F | 60.2 | 10.6 | 1.2 |
| 357 | 20120907 | Lexus | RX300 | 2002 | C_NF | 15.8 | 15.5 | 1.6 |
| 358 | 20120907 | Lexus | RX300 | 2002 | 1_F | 61.7 | 7.1 | 0.8 |
| 359 | 20120907 | Lexus | RX300 | 2002 | 1_NF | 14.4 | 16.7 | 1.5 |

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|-----|----------|-----------|-----------|------|------|------|------|-----|
| 360 | 20120907 | Lexus | RX300 | 2002 | 3 | 31.4 | 19.8 | 1.7 |
| 361 | 20120908 | Mazda | 6 | 2005 | A | 27.7 | 16.0 | 1.6 |
| 362 | 20120908 | Mazda | 6 | 2005 | C_F | 59.9 | 7.1 | 1.0 |
| 363 | 20120908 | Mazda | 6 | 2005 | C_NF | 21.3 | 15.2 | 1.9 |
| 364 | 20120908 | Mazda | 6 | 2005 | 1_F | 62.3 | 6.7 | 0.7 |
| 365 | 20120908 | Mazda | 6 | 2005 | 1_NF | 17.6 | 19.1 | 2.1 |
| 366 | 20120908 | Mazda | 6 | 2005 | 3 | 33.5 | 20.6 | 1.7 |
| 367 | 20120909 | Honda | Fit | 2008 | A | 27.1 | 16.0 | 1.4 |
| 368 | 20120909 | Honda | Fit | 2008 | C_F | 59.0 | 13.2 | 1.0 |
| 369 | 20120909 | Honda | Fit | 2008 | C_NF | 22.0 | 16.7 | 1.6 |
| 370 | 20120909 | Honda | Fit | 2008 | 1_F | 66.4 | 6.5 | 0.8 |
| 371 | 20120909 | Honda | Fit | 2008 | 1_NF | 18.9 | 18.4 | 1.6 |
| 372 | 20120909 | Honda | Fit | 2008 | 3 | 32.9 | 21.4 | 1.5 |
| 373 | 20120910 | Honda | Civic | 2004 | A | 24.2 | 15.9 | 1.6 |
| 374 | 20120910 | Honda | Civic | 2004 | C_F | 45.7 | 23.4 | 1.3 |
| 375 | 20120910 | Honda | Civic | 2004 | C_NF | 18.5 | 16.1 | 1.6 |
| 376 | 20120910 | Honda | Civic | 2004 | 1_F | 70.0 | 6.8 | 1.2 |
| 377 | 20120910 | Honda | Civic | 2004 | 1_NF | 18.5 | 16.1 | 1.6 |
| 378 | 20120910 | Honda | Civic | 2004 | 3 | 26.4 | 22.6 | 1.8 |
| 379 | 20120913 | Toyota | Tacoma | 2004 | A | 20.7 | 16.6 | 1.6 |
| 380 | 20120913 | Toyota | Tacoma | 2004 | C_F | 37.3 | 23.4 | 1.4 |
| 381 | 20120913 | Toyota | Tacoma | 2004 | C_NF | 20.5 | 14.8 | 1.8 |
| 382 | 20120913 | Toyota | Tacoma | 2004 | 1_F | 59.6 | 17.3 | 1.3 |
| 383 | 20120913 | Toyota | Tacoma | 2004 | 1_NF | 22.3 | 18.8 | 1.8 |
| 384 | 20120913 | Toyota | Tacoma | 2004 | 3 | 32.7 | 20.7 | 1.7 |
| 385 | 20120914 | Volvo | S70-T5 | 1998 | A | 24.5 | 18.3 | 1.9 |
| 386 | 20120914 | Volvo | S70-T6 | 1998 | C_F | 65.1 | 7.4 | 1.0 |
| 387 | 20120914 | Volvo | S70-T7 | 1998 | C_NF | 19.3 | 16.9 | 1.8 |
| 388 | 20120914 | Volvo | S70-T8 | 1998 | 1_F | 69.9 | 8.5 | 0.9 |
| 389 | 20120914 | Volvo | S70-T9 | 1998 | 1_NF | 19.1 | 18.7 | 2.0 |
| 390 | 20120914 | Volvo | S70-T10 | 1998 | 3 | 31.6 | 22.4 | 1.6 |
| 391 | 20120917 | Chevrolet | Silverado | 2010 | A | 29.2 | 16.5 | 1.7 |
| 392 | 20120917 | Chevrolet | Silverado | 2010 | C_F | 55.9 | 19.4 | 1.1 |
| 393 | 20120917 | Chevrolet | Silverado | 2010 | C_NF | 20.6 | 16.1 | 1.9 |
| 394 | 20120917 | Chevrolet | Silverado | 2010 | 1_F | 67.9 | 13.6 | 1.2 |
| 395 | 20120917 | Chevrolet | Silverado | 2010 | 1_NF | 22.7 | 19.6 | 2.0 |
| 396 | 20120917 | Chevrolet | Silverado | 2010 | 3 | 31.1 | 22.9 | 1.7 |
| 397 | 20120917 | Ford | F150 | 2011 | A | 25.4 | 17.9 | 1.7 |
| 398 | 20120917 | Ford | F150 | 2011 | C_F | 62.2 | 10.0 | 1.8 |
| 399 | 20120917 | Ford | F150 | 2011 | C_NF | 20.8 | 17.4 | 1.9 |

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|-----|---------------|-----------|-----------|------|------|------|------|-----|
| | B | | | | | | | |
| 400 | 20120917 B | Ford | F150 | 2011 | 1_F | 67.4 | 9.1 | 1.5 |
| 401 | 20120917 B | Ford | F150 | 2011 | 1_NF | 16.3 | 19.6 | 2.2 |
| 402 | 20120917 B | Ford | F150 | 2011 | 3 | 32.0 | 23.7 | 2.2 |
| 403 | 20120919 | Ford | F150 | 2011 | A | 25.4 | 19.0 | 1.7 |
| 404 | 20120919 | Ford | F150 | 2011 | C_F | 42.5 | 28.5 | 1.3 |
| 405 | 20120919 | Ford | F150 | 2011 | C_NF | 19.5 | 17.8 | 1.8 |
| 406 | 20120919 | Ford | F150 | 2011 | 1_F | 67.8 | 8.5 | 1.3 |
| 407 | 20120919 | Ford | F150 | 2011 | 1_NF | 14.4 | 19.6 | 2.2 |
| 408 | 20120919 | Ford | F150 | 2011 | 3 | 34.4 | 22.7 | 1.7 |
| 409 | 20120921 | Chevrolet | Silverado | 2010 | A | 23.7 | 16.1 | 1.6 |
| 410 | 20120921 | Chevrolet | Silverado | 2010 | C_F | 59.1 | 10.3 | 1.0 |
| 411 | 20120921 | Chevrolet | Silverado | 2010 | C_NF | 19.7 | 14.7 | 1.7 |
| 412 | 20120921 | Chevrolet | Silverado | 2010 | 1_F | 69.3 | 9.3 | 0.7 |
| 413 | 20120921 | Chevrolet | Silverado | 2010 | 1_NF | 20.8 | 18.5 | 1.8 |
| 414 | 20120921 | Chevrolet | Silverado | 2010 | 3 | 31.3 | 20.1 | 1.5 |
| 415 | 20120927 | Chevrolet | Silverado | 2002 | A | 25.2 | 17.0 | 1.5 |
| 416 | 20120927 | Chevrolet | Silverado | 2002 | C_F | 46.5 | 20.4 | 1.3 |
| 417 | 20120927 | Chevrolet | Silverado | 2002 | C_NF | 20.0 | 14.8 | 1.5 |
| 418 | 20120927 | Chevrolet | Silverado | 2002 | 1_F | 67.8 | 7.1 | 0.8 |
| 419 | 20120927 | Chevrolet | Silverado | 2002 | 1_NF | 21.0 | 18.9 | 1.7 |
| 420 | 20120927 | Chevrolet | Silverado | 2002 | 3 | 27.2 | 21.9 | 1.5 |
| 421 | 20120928 | Toyota | Tacoma | 2005 | A | 23.7 | 17.1 | 1.9 |
| 422 | 20120928 | Toyota | Tacoma | 2005 | C_F | 59.4 | 13.6 | 1.3 |
| 423 | 20120928 | Toyota | Tacoma | 2005 | C_NF | 20.8 | 17.1 | 2.0 |
| 424 | 20120928 | Toyota | Tacoma | 2005 | 1_F | 72.4 | 7.5 | 1.6 |
| 425 | 20120928 | Toyota | Tacoma | 2005 | 1_NF | 22.9 | 20.8 | 2.3 |
| 426 | 20120928 | Toyota | Tacoma | 2005 | 3 | 32.0 | 22.0 | 1.9 |
| 427 | 20120929 | GMC | Yukon | 2013 | A | 28.2 | 17.0 | 1.6 |
| 428 | 20120929 | GMC | Yukon | 2013 | C_F | 61.0 | 10.5 | 0.9 |
| 429 | 20120929 | GMC | Yukon | 2013 | C_NF | 23.5 | 15.4 | 2.0 |
| 430 | 20120929 | GMC | Yukon | 2013 | 1_F | 66.5 | 7.4 | 0.8 |
| 431 | 20120929 | GMC | Yukon | 2013 | 1_NF | 24.3 | 19.1 | 2.1 |
| 432 | 20120929 | GMC | Yukon | 2013 | 3 | 37.6 | 20.6 | 1.7 |
| 433 | 20120930 | Toyota | Camry | 2003 | A | 29.1 | 16.6 | 1.7 |
| 434 | 20120930 | Toyota | Camry | 2003 | C_F | 59.1 | 16.5 | 1.1 |
| 435 | 20120930 | Toyota | Camry | 2003 | C_NF | 24.4 | 16.2 | 1.9 |
| 436 | 20120930 | Toyota | Camry | 2003 | 1_F | 67.9 | 12.4 | 1.0 |
| 437 | 20120930 | Toyota | Camry | 2003 | 1_NF | 22.0 | 20.8 | 2.0 |

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|-----|----------|--------|----------------|------|------|------|------|-----|
| 438 | 20120930 | Toyota | Camry | 2003 | 3 | 38.6 | 20.8 | 1.6 |
| 439 | 20121001 | Toyota | Camry | 2012 | A | 24.5 | 18.2 | 3.2 |
| 440 | 20121001 | Toyota | Camry | 2012 | C_F | 32.5 | 24.6 | 2.4 |
| 441 | 20121001 | Toyota | Camry | 2012 | C_NF | 18.4 | 17.3 | 3.0 |
| 442 | 20121001 | Toyota | Camry | 2012 | 1_F | 67.7 | 6.0 | 1.8 |
| 443 | 20121001 | Toyota | Camry | 2012 | 1_NF | 21.9 | 19.4 | 3.8 |
| 444 | 20121001 | Toyota | Camry | 2012 | 3 | 29.1 | 22.7 | 3.0 |
| 445 | 20121002 | Jeep | Wrangler | 2002 | A | 23.1 | 15.0 | 1.5 |
| 446 | 20121002 | Jeep | Wrangler | 2002 | C_F | 57.8 | 5.3 | 0.9 |
| 447 | 20121002 | Jeep | Wrangler | 2002 | C_NF | 18.0 | 14.4 | 1.5 |
| 448 | 20121002 | Jeep | Wrangler | 2002 | 1_F | 64.2 | 6.2 | 1.0 |
| 449 | 20121002 | Jeep | Wrangler | 2002 | 1_NF | 18.0 | 17.5 | 1.5 |
| 450 | 20121002 | Jeep | Wrangler | 2002 | 3 | 25.2 | 19.9 | 1.7 |
| 451 | 20121011 | Honda | Insight Hybrid | 2012 | A | 24.3 | 17.8 | 1.6 |
| 452 | 20121011 | Honda | Insight Hybrid | 2012 | C_F | 24.1 | 21.2 | 1.2 |
| 453 | 20121011 | Honda | Insight Hybrid | 2012 | C_NF | 20.1 | 15.5 | 1.7 |
| 454 | 20121011 | Honda | Insight Hybrid | 2012 | 1_F | 68.7 | 7.5 | 0.8 |
| 455 | 20121011 | Honda | Insight Hybrid | 2012 | 1_NF | 20.9 | 20.0 | 2.0 |
| 456 | 20121011 | Honda | Insight Hybrid | 2012 | 3 | 31.3 | 20.6 | 1.8 |
| 457 | 20130201 | Nissan | Rogue | 2012 | A | 24.7 | 16.9 | 1.8 |
| 458 | 20130201 | Nissan | Rogue | 2012 | C_F | 58.9 | 15.0 | 1.1 |
| 459 | 20130201 | Nissan | Rogue | 2012 | C_NF | 19.4 | 15.7 | 2.0 |
| 460 | 20130201 | Nissan | Rogue | 2012 | 1_F | 67.5 | 8.9 | 0.9 |
| 461 | 20130201 | Nissan | Rogue | 2012 | 1_NF | 21.5 | 18.7 | 2.1 |
| 462 | 20130201 | Nissan | Rogue | 2012 | 3 | 30.2 | 20.6 | 1.7 |
| 463 | 20130202 | Kia | Forte | 2013 | A | 24.7 | 18.5 | 1.6 |
| 464 | 20130202 | Kia | Forte | 2013 | C_F | 57.9 | 11.4 | 1.0 |
| 465 | 20130202 | Kia | Forte | 2013 | C_NF | 22.3 | 16.2 | 1.8 |
| 466 | 20130202 | Kia | Forte | 2013 | 1_F | 64.1 | 7.4 | 0.7 |
| 467 | 20130202 | Kia | Forte | 2013 | 1_NF | 23.7 | 21.6 | 1.9 |
| 468 | 20130202 | Kia | Forte | 2013 | 3 | 33.9 | 20.1 | 1.6 |
| 469 | 20130204 | Mazda | Protégé | 2001 | A | 26.6 | 17.5 | 1.9 |
| 470 | 20130204 | Mazda | Protégé | 2001 | C_F | 63.2 | 8.4 | 1.1 |
| 471 | 20130204 | Mazda | Protégé | 2001 | C_NF | 19.2 | 16.0 | 1.9 |
| 472 | 20130204 | Mazda | Protégé | 2001 | 1_F | 68.6 | 6.9 | 0.9 |
| 473 | 20130204 | Mazda | Protégé | 2001 | 1_NF | 19.1 | 19.3 | 2.0 |
| 474 | 20130204 | Mazda | Protégé | 2001 | 3 | 31.9 | 21.1 | 1.7 |

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|-----|----------|-----------|-----------------|------|------|------|------|-----|
| 475 | 20130205 | Pontiac | Grand Prix | 2000 | A | 25.7 | 16.1 | 1.5 |
| 476 | 20130205 | Pontiac | Grand Prix | 2000 | C_F | 61.6 | 7.5 | 0.9 |
| 477 | 20130205 | Pontiac | Grand Prix | 2000 | C_NF | 19.3 | 15.3 | 1.7 |
| 478 | 20130205 | Pontiac | Grand Prix | 2000 | 1_F | 65.6 | 5.8 | 0.8 |
| 479 | 20130205 | Pontiac | Grand Prix | 2000 | 1_NF | 21.5 | 17.7 | 1.7 |
| 480 | 20130205 | Pontiac | Grand Prix | 2000 | 3 | 33.3 | 20.1 | 1.5 |
| 481 | 20130207 | Honda | Civic | 2005 | A | 21.2 | 16.9 | 1.6 |
| 482 | 20130207 | Honda | Civic | 2005 | C_F | 56.6 | 15.0 | 1.1 |
| 483 | 20130207 | Honda | Civic | 2005 | C_NF | 21.3 | 15.2 | 1.9 |
| 484 | 20130207 | Honda | Civic | 2005 | 1_F | 70.5 | 6.7 | 2.2 |
| 485 | 20130207 | Honda | Civic | 2005 | 1_NF | 16.2 | 18.2 | 2.0 |
| 486 | 20130207 | Honda | Civic | 2005 | 3 | 35.5 | 21.2 | 1.7 |
| 487 | 20130208 | Toyota | Corolla | 2005 | A | 25.1 | 16.9 | 1.4 |
| 488 | 20130208 | Toyota | Corolla | 2005 | C_F | 62.6 | 7.5 | 0.8 |
| 489 | 20130208 | Toyota | Corolla | 2005 | C_NF | 19.5 | 14.7 | 1.6 |
| 490 | 20130208 | Toyota | Corolla | 2005 | 1_F | 66.4 | 6.3 | 0.8 |
| 491 | 20130208 | Toyota | Corolla | 2005 | 1_NF | 23.6 | 18.1 | 1.8 |
| 492 | 20130208 | Toyota | Corolla | 2005 | 3 | 34.1 | 19.7 | 1.5 |
| 493 | 20130210 | Chevrolet | Trailblazer | 2004 | A | 27.8 | 15.6 | 1.6 |
| 494 | 20130210 | Chevrolet | Trailblazer | 2004 | C_F | 59.9 | 7.1 | 0.8 |
| 495 | 20130210 | Chevrolet | Trailblazer | 2004 | C_NF | 23.5 | 15.2 | 2.4 |
| 496 | 20130210 | Chevrolet | Trailblazer | 2004 | 1_F | 67.3 | 6.9 | 0.8 |
| 497 | 20130210 | Chevrolet | Trailblazer | 2004 | 1_NF | 43.4 | 27.4 | 2.2 |
| 498 | 20130210 | Chevrolet | Trailblazer | 2004 | 3 | 34.8 | 20.4 | 2.1 |
| 499 | 20130212 | Hyundai | Elantra Touring | 2011 | A | 24.7 | 15.1 | 1.5 |
| 500 | 20130212 | Hyundai | Elantra Touring | 2011 | C_F | 58.7 | 10.1 | 1.1 |
| 501 | 20130212 | Hyundai | Elantra Touring | 2011 | C_NF | 19.4 | 14.4 | 1.7 |
| 502 | 20130212 | Hyundai | Elantra Touring | 2011 | 1_F | 64.8 | 7.5 | 0.8 |
| 503 | 20130212 | Hyundai | Elantra Touring | 2011 | 1_NF | 21.6 | 17.2 | 1.8 |
| 504 | 20130212 | Hyundai | Elantra Touring | 2011 | 3 | 31.3 | 20.9 | 1.7 |
| 505 | 20130215 | Jeep | Wrangler | 2002 | A | 23.0 | 17.8 | 2.1 |
| 506 | 20130215 | Jeep | Wrangler | 2002 | C_F | 57.4 | 13.3 | 2.2 |
| 507 | 20130215 | Jeep | Wrangler | 2002 | C_NF | 16.7 | 14.7 | 2.6 |
| 508 | 20130215 | Jeep | Wrangler | 2002 | 1_F | 65.8 | 7.3 | 0.7 |
| 509 | 20130215 | Jeep | Wrangler | 2002 | 1_NF | 19.3 | 17.3 | 2.6 |
| 510 | 20130215 | Jeep | Wrangler | 2002 | 3 | 29.9 | 21.3 | 2.7 |
| 511 | 20130218 | Ford | Escape | 2006 | A | 24.5 | 16.7 | 1.7 |

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|-----|----------|-----------|---------------|------|------|------|------|-----|
| | | | Hybrid | | | | | |
| 512 | 20130218 | Ford | Escape Hybrid | 2006 | C_F | 58.5 | 10.6 | 0.9 |
| 513 | 20130218 | Ford | Escape Hybrid | 2006 | C_NF | 19.0 | 15.5 | 1.9 |
| 514 | 20130218 | Ford | Escape Hybrid | 2006 | 1_F | 65.5 | 6.6 | 0.7 |
| 515 | 20130218 | Ford | Escape Hybrid | 2006 | 1_NF | 20.9 | 16.7 | 1.8 |
| 516 | 20130218 | Ford | Escape Hybrid | 2006 | 3 | 30.9 | 20.1 | 1.6 |
| 517 | 20130220 | Pontiac | Grand Am GT | 2004 | A | 24.4 | 15.5 | 1.4 |
| 518 | 20130220 | Pontiac | Grand Am GT | 2004 | C_F | 59.9 | 9.4 | 0.9 |
| 519 | 20130220 | Pontiac | Grand Am GT | 2004 | C_NF | 16.5 | 15.5 | 1.6 |
| 520 | 20130220 | Pontiac | Grand Am GT | 2004 | 1_F | 64.9 | 7.7 | 0.8 |
| 521 | 20130220 | Pontiac | Grand Am GT | 2004 | 1_NF | 21.6 | 17.4 | 1.7 |
| 522 | 20130220 | Pontiac | Grand Am GT | 2004 | 3 | 25.6 | 21.2 | 1.4 |
| 523 | 20130222 | Nissan | Exterra | 2008 | A | 24.9 | 16.6 | 1.4 |
| 524 | 20130222 | Nissan | Exterra | 2008 | C_F | 38.9 | 20.4 | 1.2 |
| 525 | 20130222 | Nissan | Exterra | 2008 | C_NF | 17.2 | 14.3 | 1.7 |
| 526 | 20130222 | Nissan | Exterra | 2008 | 1_F | 67.8 | 7.0 | 0.8 |
| 527 | 20130222 | Nissan | Exterra | 2008 | 1_NF | 21.5 | 18.8 | 1.8 |
| 528 | 20130222 | Nissan | Exterra | 2008 | 3 | 31.3 | 18.9 | 1.5 |
| 529 | 20130223 | Chevrolet | Impala | 2013 | A | 31.5 | 16.5 | 1.5 |
| 530 | 20130223 | Chevrolet | Impala | 2013 | C_F | 61.3 | 7.5 | 1.0 |
| 531 | 20130223 | Chevrolet | Impala | 2013 | C_NF | 23.9 | 16.3 | 1.6 |
| 532 | 20130223 | Chevrolet | Impala | 2013 | 1_F | 65.6 | 7.1 | 0.8 |
| 533 | 20130223 | Chevrolet | Impala | 2013 | 1_NF | 23.9 | 19.6 | 1.9 |
| 534 | 20130223 | Chevrolet | Impala | 2013 | 3 | 33.9 | 21.1 | 1.6 |
| 535 | 20130224 | Ford | Fusion | 2012 | A | 26.2 | 17.1 | 1.7 |
| 536 | 20130224 | Ford | Fusion | 2012 | C_F | 62.0 | 6.9 | 0.9 |
| 537 | 20130224 | Ford | Fusion | 2012 | C_NF | 21.3 | 17.4 | 1.7 |
| 538 | 20130224 | Ford | Fusion | 2012 | 1_F | 67.3 | 7.6 | 0.8 |
| 539 | 20130224 | Ford | Fusion | 2012 | 1_NF | 24.5 | 20.3 | 2.1 |
| 540 | 20130224 | Ford | Fusion | 2012 | 3 | 37.2 | 20.8 | 1.8 |
| 541 | 20130302 | VW | Passat | 2012 | A | 26.5 | 15.2 | 1.7 |
| 542 | 20130302 | VW | Passat | 2012 | C_F | 58.8 | 11.0 | 1.0 |
| 543 | 20130302 | VW | Passat | 2012 | C_NF | 25.4 | 16.1 | 2.1 |
| 544 | 20130302 | VW | Passat | 2012 | 1_F | 68.1 | 10.1 | 0.9 |
| 545 | 20130302 | VW | Passat | 2012 | 1_NF | 22.2 | 18.4 | 2.0 |
| 546 | 20130302 | VW | Passat | 2012 | 3 | 37.0 | 19.6 | 1.9 |
| 547 | 20130515 | GMC | Terrain | 2013 | A | 24.5 | 17.2 | 1.4 |

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|-----|----------|--------|---------|------|------|------|------|-----|
| 548 | 20130515 | GMC | Terrain | 2013 | C_F | 56.2 | 16.7 | 1.2 |
| 549 | 20130515 | GMC | Terrain | 2013 | C_NF | 21.5 | 14.4 | 1.6 |
| 550 | 20130515 | GMC | Terrain | 2013 | 1_F | 61.1 | 18.2 | 1.0 |
| 551 | 20130515 | GMC | Terrain | 2013 | 1_NF | 18.0 | 19.5 | 1.8 |
| 552 | 20130515 | GMC | Terrain | 2013 | 3 | 33.2 | 19.4 | 1.5 |
| 553 | 20130520 | Toyota | Sienna | 2013 | A | 24.1 | 14.6 | 1.5 |
| 554 | 20130520 | Toyota | Sienna | 2013 | C_F | 56.6 | 11.0 | 1.2 |
| 555 | 20130520 | Toyota | Sienna | 2013 | C_NF | 21.2 | 15.6 | 1.7 |
| 556 | 20130520 | Toyota | Sienna | 2013 | 1_F | 58.5 | 6.6 | 0.9 |
| 557 | 20130520 | Toyota | Sienna | 2013 | 1_NF | 18.4 | 17.2 | 1.6 |
| 558 | 20130520 | Toyota | Sienna | 2013 | 3 | 28.9 | 21.0 | 1.6 |
| 559 | 20130528 | Ford | Fusion | 2012 | A | 25.1 | 14.6 | 1.5 |
| 560 | 20130528 | Ford | Fusion | 2012 | C_F | 55.9 | 9.6 | 0.9 |
| 561 | 20130528 | Ford | Fusion | 2012 | C_NF | 21.8 | 13.5 | 1.5 |
| 562 | 20130528 | Ford | Fusion | 2012 | 1_F | 61.7 | 7.0 | 0.7 |
| 563 | 20130528 | Ford | Fusion | 2012 | 1_NF | 22.7 | 16.9 | 1.8 |
| 564 | 20130528 | Ford | Fusion | 2012 | 3 | 32.9 | 18.2 | 1.5 |
| 565 | 20130601 | Dodge | Caravan | 2006 | A | 25.9 | 16.7 | 1.5 |
| 566 | 20130601 | Dodge | Caravan | 2006 | C_F | 50.4 | 21.1 | 1.0 |
| 567 | 20130601 | Dodge | Caravan | 2006 | C_NF | 26.6 | 17.8 | 2.1 |
| 568 | 20130601 | Dodge | Caravan | 2006 | 1_F | 61.0 | 5.9 | 0.6 |
| 569 | 20130601 | Dodge | Caravan | 2006 | 1_NF | 23.0 | 18.7 | 1.7 |
| 570 | 20130601 | Dodge | Caravan | 2006 | 3 | 35.0 | 19.3 | 1.6 |
| 571 | 20130609 | Chevy | Impala | 2008 | A | 26.5 | 15.8 | 1.6 |
| 572 | 20130609 | Chevy | Impala | 2008 | C_F | 56.9 | 15.9 | 1.1 |
| 573 | 20130609 | Chevy | Impala | 2008 | C_NF | 25.9 | 15.6 | 1.7 |
| 574 | 20130609 | Chevy | Impala | 2008 | 1_F | 62.1 | 5.9 | 0.7 |
| 575 | 20130609 | Chevy | Impala | 2008 | 1_NF | 22.2 | 17.7 | 1.9 |
| 576 | 20130609 | Chevy | Impala | 2008 | 3 | 34.5 | 19.3 | 1.6 |
| 577 | 20130623 | Dodge | Avenger | 2012 | A | 30.9 | 15.4 | 1.5 |
| 578 | 20130623 | Dodge | Avenger | 2012 | C_F | 53.3 | 18.1 | 1.1 |
| 579 | 20130623 | Dodge | Avenger | 2012 | C_NF | 23.3 | 14.8 | 1.6 |
| 580 | 20130623 | Dodge | Avenger | 2012 | 1_F | 65.0 | 7.8 | 0.8 |
| 581 | 20130623 | Dodge | Avenger | 2012 | 1_NF | 23.3 | 20.3 | 2.0 |
| 582 | 20130623 | Dodge | Avenger | 2012 | 3 | 36.3 | 18.8 | 1.7 |
| 583 | 20091024 | VW | Jetta | 2006 | A | 30.5 | 20.2 | 1.4 |
| 584 | 20091024 | VW | Jetta | 2006 | 1_F | 40.3 | 17.9 | 1.3 |
| 585 | 20091024 | VW | Jetta | 2006 | 1_NF | 23.5 | 18.8 | 1.5 |
| 586 | 20110911 | Honda | Accord | 2006 | A | 24.0 | 17.0 | 2.0 |
| 587 | 20110911 | Honda | Accord | 2006 | 1_F | 64.4 | 7.1 | 0.8 |
| 588 | 20110911 | Honda | Accord | 2006 | 1_NF | 16.8 | 19.7 | 2.4 |

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| 589 | 20120915 | Acura | RSX | 2003 | A | 24.6 | 16.5 | 1.6 |
| 590 | 20120915 | Acura | RSX | 2003 | 1_F | 65.2 | 5.7 | 0.7 |
| 591 | 20120915 | Acura | RSX | 2003 | 1_NF | 21.0 | 17.3 | 2.6 |

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