

EMFAC Modeling Change Technical Memo

SUBJECT: REVISIONS TO THE METHODOLOGY USED TO CHARACTERIZE THE ON ROAD VEHICLE FLEET

LEAD: Alice Tong

Summary

California's on-road emissions inventory model, EMFAC, utilizes vehicle registration information to establish the overall vehicle population, as well as the subpopulation of vehicles by class, age and geographic area. The primary source of information used for this particular task is the Vehicle Registration Database maintained by the California Department of Motor Vehicles (DMV).

EMFAC is designed to back cast historic changes in the vehicle population based upon the oldest DMV data available and forecast from the most recent. In this way, projections of fleet behavior would be over written by actual data as soon as that data became available. The current version of the model (EMFAC 2002 version 2.2) is based on analysis of only one year (1999) of DMV data while EMFAC 2007 is based on six years (2000 – 2005) of DMV data.

Because the Air Resources Board's (ARB) emissions standards are a function of the vehicle's year of manufacture and class (generally defined by the weight of the vehicle), analyses of the DMV's database must be performed to accurately stratify the fleet into the 13 vehicle classes, 45 age groups and 69 geographic areas defined in EMFAC.

Based on the most current analysis, ARB staff estimate that there were approximately 25.8 million vehicles operating in California in 2005 as compared to 24.7 million vehicles assumed in EMFAC 2002. As shown in Table 1 below, the proposed revisions to vehicle population for EMFAC 2007 result in an increase in statewide vehicle populations relative to EMFAC 2002 for the years considered (2000-2005) and an increases in most regions and years. A more complete discussion of how these vehicles were analyzed and included in EMFAC 2007 is provided in the Results and Discussion sections of this document.

Table 1
Change in Vehicle Population Estimates between EMFAC 2002 and EMFAC 2007

Air Basin	2000	2001	2002	2003	2004	2005
Statewide	0.1%	2.5%	1.5%	3.3%	5.2%	4.4%
South Coast Air Basin	-0.1%	3.1%	3.1%	6.0%	9.8%	9.8%
San Joaquin Valley AB	-2.4%	-0.7%	-1.9%	0.6%	0.7%	2.8%
Sacramento Valley AB	0.0%	1.6%	1.4%	3.7%	4.8%	4.2%
San Diego Air Basin	1.7%	3.8%	2.6%	4.2%	5.9%	3.0%
San Francisco Bay Area	2.7%	4.4%	1.6%	0.4%	0.4%	-2.5%

Affected Source Code

RegPopdata.for, GetPop.for

Need for Revision

Staff is proposing to update the model's assumptions of vehicle population, age and distribution by class, as well as the geographic allocation in order to take advantage of more recent vehicle registration information. Additional calendar years would be added to the model covering 2000 through 2005, and staff has improved its algorithms for vehicle classification using Bureau of Automotive Repair (BAR) Smog Check data. Staff propose to include those vehicles defined as pending by the DMV that are believed to actually be on the road. A new vehicle class is being proposed to distinguish transit buses from school buses and other urban buses, and the distribution of the population of heavy-heavy duty trucks will be improved based upon data provided by the California Department of Transportation (CALTRANS). Staff has also been successful in their attempts to streamline the analyses of the DMV data and eliminate redundant effort.

Methodology

Processing of Raw Data

Extensive processing of the DMV data is required to determine the number of vehicles on the road in California. DMV maintains their database for many reasons, including fee tracking and law enforcement, so there are numerous duplicate records, off-road vehicles, missing data, etc. ARB staff receives raw data extractions from the DMV Vehicle Registration database twice each year, once in April and again in October. The first analytical step in the process of preparing the data for use in EMFAC is to filter out those records which are unusable. As an example, records with missing vehicle identification numbers (VIN) are eliminated from further analysis as well as vehicles that are not currently registered. The removal of these vehicles will have little impact on the overall database as the number of "VINless" records are small (e.g. Only one record was found to have no VIN in DMV2005). The handling of unregistered vehicles is discussed below in the "Pending" section.

The model year of a vehicle is not necessarily the same as the calendar year when it was first sold. The newest model year vehicles begin to be sold late in the previous calendar year. Rather than account for those few months of sales, vehicles with a model year greater than the calendar year being analyzed (e.g. 2003 model year vehicles registered in 2002) are also eliminated from analysis, with the assumption that they will naturally appear in the database next year.

It should be noted that due to an administrative error, the 2004 October DMV extraction was incomplete and, therefore, could not be utilized for this analysis. A best effort was made to constitute a substitute database to represent the missing 2004 October dataset by combining the 2004 April DMV extraction and a sub population of vehicles extracted

from the October 2005 database. The criteria used to qualify vehicles for this sub population limited the scope to only vehicles showing activity prior to October 2004, which had no record within the 2004 April extraction. In this way, a substitute database was created to represent the October 2004 population.

EMFAC includes only those vehicles for which a sufficient dataset of emission data are available. Currently, EMFAC only estimates the emissions from vehicles powered by gasoline, diesel or electricity. Therefore, alternatively fueled vehicles, which account for less than 1% of the total population, are also excluded from the total.

Elimination of Duplicate Records

Duplicate records most often occur when a vehicle changes ownership during the period of analysis or the registered owner changes address. Records are deemed to be duplicative when more than one record has the same VIN value in the database. When duplication is found, staff takes steps to remove all but the most recent record in order to best reflect the current distribution by geographic area.

Pending & Unregistered Vehicles

As every effort is made to ensure only vehicles which are on road are included in this inventory of on road vehicles, only vehicles with a valid registration status are included. Valid registration statuses include vehicles which have a "Current" or "Evidence of Use" value in their registration status. An exception is made for vehicles which have a registration status of "Pending".

Vehicles are placed in the "pending" registration category where the registration renewal process was initiated but, for various reasons, such as problems with payment, proof of insurance, or smog check results, the registration process could not be completed. Unlike other registration categories, it is uncertain what fraction of pending vehicles is actually on the road. ARB staff inferred this fraction by analyzing whether vehicles continued to be unregistered in subsequent DMV file passes. "Pending" vehicles whose status remains unchanged after a year are dropped from the analysis. In this way, every effort is made to ensure every vehicle which is on road will be included in the population estimate. This method effectively replaces the instantaneously unregistered methodology of EMFAC2000/2002.

ARB staff believes that the pending adjustment adequately accounts for instantaneously unregistered vehicles by looking for future registration. However, previous ARB studies have found that there is a subset of the fleet that remains chronically unregistered. In a 2002 study on unregistered vehicles conducted by UC Riverside (Determination of Non-Registration Rates for On-Road Vehicles in California), it was determined that 0.03% of vehicles were chronically unregistered. Accordingly, ARB staff adds chronically unregistered vehicles to the fleet using the EMFAC2000 methodology. Section 7.2.2 of the EMFAC2000 Technical Support Document

(http://www.arb.ca.gov/msei/onroad/downloads/tsd/Vehicle_Population.pdf) discusses how unregistered vehicles are handled.

Vehicle Classification

As stated earlier, EMFAC estimates the emissions inventory for 13 separate classes of vehicles, which are differentiated by vehicle type and weight. These classes are listed in Table 2. Several fields from the DMV database are used to assess vehicle classification. These fields are listed in Table 3.

Where possible, vehicles are assigned to classes based on explicit vehicle weight and body type information in the DMV database. Where this information is missing, vehicles classes are inferred from other related data fields in the DMV database or using information from the Bureau of Automotive Repair.

Table 2
Vehicle Classes Modeled By EMFAC2007

VEH CLASS	DESCRIPTION	WEIGHT (Pounds)
1	PASSENGER CARS (PC)	ALL
2	LIGHT-DUTY TRUCKS (T1)	0- 3750
3	LIGHT-DUTY TRUCKS (T2)	3751- 5750
4	MEDIUM-DUTY TRUCKS (T3)	5751- 8500
5	LIGHT-HEAVY DUTY TRUCKS (T4)	8501-10000
6	LIGHT-HEAVY DUTY TRUCKS (T5)	10001-14000
7	MEDIUM-HEAVY DUTY TRUCKS (T6)	14001-33000
8	HEAVY-HEAVY DUTY TRUCKS (T7)	33001+
9	OTHER BUSES (BO)	ALL
10	URBAN BUSES (B)	ALL
11	MOTORCYCLES (MC)	ALL
12	SCHOOL BUSES (BS)	ALL
13	MOTOR HOMES (MH)	ALL

Table 3
DMV Vehicle Description Fields

VIN	UNLADEN_WT
MAKE_DMV	GVW_CODE
SERIES_CODE	TYPE_LIC_CODE
MODEL_CODE	TYPE_MODEL
MODEL_NAME	BODY_TYPE_MODEL
BODY_STYLE	TYPE_BODY_MODEL

Where “WT” is weight, “GVW” is gross vehicle weight, “LIC” is license and “VEH” is vehicle. As there is generally very little data in the UNLADEN_WT field, weight related, when available, is taken from the GVW_CODE field.

Match with Previous Results

Data is matched by VIN and updated for previous calendar years. That is, if a vehicle was determined to be a "passenger car" in 2000, it will still be a "passenger car" in 2003. This simple step dramatically reduces staff time by eliminating redundant classification efforts on the same data. Through this process, a relatively small subset of the data is created containing only those vehicles that were not previously classified (i.e. "New" data which has not appeared in previous year databases).

Match GVW Data via BAR

The DMV database does not contain extensive GVW data. However, California's Inspection and Maintenance (I/M) program requires that the majority of the gasoline powered vehicle fleet must undergo emissions testing on a dynamometer once every two years. The vehicle's weight must be accurately determined to properly perform the test. In this phase of the analysis, staff attempts to improve the classification decision using weight data from the Bureau of Automotive Repair (BAR) database to aid in the proper classification of trucks.

The DMV data is matched by VIN with BAR's database for each calendar year. The records of vehicles with matching VINs are updated with BAR's GVW values and classified based upon the weight classes defined in Table 2.

Infer Truck Classifications (via BAR Results)

In this step, staff attempts to classify vehicles that lack specific VIN matches in the BAR database by inference. These would include both newer and older vehicles that are exempt from biennial testing, as well as vehicles powered by diesel. Fields from the DMV database, including Make_DMV, Model_Code, Series_Code, and Body_Type_Model, are matched with similar fields in the BAR dataset to infer the correct vehicle class for trucks by weight.

Assigning Bus Categories

Using data from the registered owner name and address fields in the DMV database, buses are grouped into three separate classifications: School Bus, Urban Bus, and a new classification referred to as "Other Bus". The assignment of school buses is based on matching key words in the registered owner field such as "school" or "Unified SD". Urban Buses are assigned based upon matching key words in the registered owner name field such as "City of" or "Transit Authority". All remaining buses are assigned to the "Other Bus" category.

Spatial Allocation of Vehicles

The ARB divides California into 69 Geographical Area Indices (GAI) which are unique combinations of County, Air District, and Air Basin. The vehicle population in EMFAC is distributed according to these GAIs (Appendix A). EMFAC includes only those vehicles registered to an address with a California ZIP code (between 90001 and 96162).

Using a prepared list that matches known ZIP codes and city names with EMFAC's geographical area index (GAI), each vehicle is assigned to the appropriate area. The ZIP codes and city names of any unassigned vehicles are further examined, as new ZIP codes and city names may have been added since this analysis was last performed, and incorporated into the known list of ZIP codes and city names as deemed appropriate. As this methodology heavily depends upon the accuracy of registered ZIP code of each vehicle, vehicles which have an out of state or out of country ZIP code cannot be included in the population estimate. Vehicles which have an erroneous ZIP code or with a military ZIP code are also excluded. For calendar year 2002, about 11,000 vehicles were excluded due to military ZIP code and about 781,000 vehicles were excluded due to out of state or erroneous ZIP codes. Anecdotal research shows that the majority of these out of state or erroneous ZIP code vehicles are most likely registered to students attending college, and driving their vehicles out of state but continue to have their vehicle registered in California.

Spatial allocation of Heavy-Heavy Duty Diesel Trucks

Heavy-heavy duty diesel trucks (generally long-haul trucks) are spatially allocated to GAIs based not on ZIP code of registration but on fraction of VMT traveled in a county. This different methodology was used because many of these trucks may be registered in urban areas but travel the majority of time in rural areas. A detailed explanation of the spatial allocation of HHDDT is provided in our document entitled "Redistribution of Heavy-Heavy Duty Diesel Truck Vehicle Miles Traveled in California" on our web site at <http://www.arb.ca.gov/msei/msei.htm>.

Results

Using the above methodology, the vehicle population estimates for calendar years 2000 through 2005, from both EMFAC 2002 and EMFAC 2007 are listed in Table 4 and 5 below.

Table 4.
EMFAC 2002: Vehicle distribution for Calendar Years 2000 through 2005

	2000	2001	2002	2003	2004	2005	% Growth 2000-2005
Passenger Cars	12,518,800	12,785,700	13,062,300	13,338,900	13,621,600	13,908,800	11.10%
Light Truck 1	3,335,100	3,414,270	3,496,380	3,577,510	3,661,070	3,747,020	12.40%
Light Truck 2	3,421,880	3,494,520	3,569,840	3,644,810	3,722,350	3,801,960	11.10%
Medium Truck	1,508,660	1,540,770	1,574,090	1,607,310	1,641,590	1,676,820	11.10%
Light Heavy 1	234,889	239,156	243,660	248,086	252,713	257,517	9.60%
Light Heavy 2	77,047	78,449	79,914	81,361	82,860	84,389	9.50%
Medium Heavy	229,652	233,509	237,517	241,490	245,599	249,840	8.80%
Heavy Heavy	187,429	190,703	194,152	197,567	201,132	204,812	9.30%
Urban Bus	25,787	26,243	26,716	27,190	27,681	28,186	9.30%
School Bus	24,008	24,542	25,103	25,664	26,247	26,850	11.80%
Motor Home	271,523	279,308	287,527	295,880	304,642	313,806	15.60%
Motorcycle	388,518	389,656	391,281	392,958	395,103	397,680	2.40%
Total	22,223,293	22,696,826	23,188,480	23,678,726	24,182,587	24,697,680	11.10%

Table 5.
EMFAC 2007: Vehicle distribution for Calendar Years 2000 through 2005

	2000	2001	2002	2003	2004	2005	% Growth 2000-2005
Passenger Cars	12,433,100	12,763,300	12,790,900	12,745,000	13,050,200	12,922,900	3.90%
Light Truck 1	2,798,980	2,914,730	2,939,560	2,842,560	2,805,450	2,790,640	-0.30%
Light Truck 2	4,099,890	4,360,730	4,411,030	4,886,740	5,213,450	5,401,380	31.70%
Medium Truck	1,373,610	1,566,490	1,736,330	1,985,520	2,235,140	2,386,160	73.70%
Light Heavy 1	275,354	278,521	276,986	348,079	400,292	444,717	61.50%
Light Heavy 2	144,275	150,911	137,972	153,937	157,956	168,623	16.90%
Medium Heavy	221,836	226,801	221,986	241,492	243,687	261,365	17.80%
Heavy Heavy	167,894	172,318	168,646	190,190	175,798	248,773	48.20%
Urban Bus	12,997	13,878	17,576	17,265	18,498	20,915	60.90%
School Bus	21,744	21,807	23,302	25,120	26,107	25,026	15.10%
Other Bus	11,536	11,272	13,069	13,984	14,239	13,816	19.80%
Motor Home	264,172	259,135	245,604	247,190	243,562	237,891	-9.90%
Motorcycle	412,873	503,318	540,025	741,081	832,855	857,043	107.60%
Total	22,238,261	23,243,211	23,522,986	24,438,158	25,417,234	25,779,249	15.90%

Given that EMFAC2002 was based on only one year (1999) of DMV data, it is important to note that the data shown in Table 4 are all projected, whereas data shown in Table 5 are based on analysis of actual DMV data.

Discussion

As shown in Table 5, the on-road vehicle population in California increased from 22.2 million vehicles in 2000 to 25.8 million vehicles in 2005, an increase of 15.9%. Although passenger cars make up approximately half of the total fleet, most of the increase observed is due to significant growth in other vehicle classes, primarily light and medium duty trucks, reflecting the increasing popularity of sport utility vehicles and large pickup trucks. As shown in Table 4, these trends are not reflected in EMFAC 2002 primarily because EMFAC 2002 was based on analysis of only one year of DMV data as compared to the six years analyzed for EMFAC 2007.

The most recent analysis also identified a significant (48.2%) increase in heavy-heavy duty truck populations between 2000 and 2005, with most of the growth occurring between 2004 and 2005. Some of this increase likely reflects the growth in goods movement in California. There may be several other factors responsible for the observed growth. Prior to 2004, a large number of heavy heavy duty vehicles that should have been registered in California were registered elsewhere, primarily Oklahoma, due to lower registration fees. As a result of a lawsuit settlement, these vehicles were required to register in California beginning in 2005. It is also possible that the DMV has been undercounting California-registered IRP vehicles in calendar years prior to 2005. ARB staff are continuing to evaluate the observed trends in heavy-heavy duty truck population and validate them using other data sources.

Another notable trend is the doubling of the motorcycle population between 2000 and 2005. This dramatic increase is mirrored in nationwide motorcycle sales and populations and appears linked to rising fuel prices.

Methodology for Revision

In order to implement the changes mentioned above, the following files must be modified: RegPopData.for, CUnRegData.for, and the area specific PopG_*.for files. A sample of the data needed to populate the RegPopData.for file is included in this memo as Appendix B.

The PopG_*.for files shall be modified to use the populations as reported in Appendix B for years 2000, 2001, 2002, and 2003. The model must be modified to back cast from the 2000 calendar year rather than 1999, and to forecast from the 2005 calendar year.

The area specific population files contained in Appendix B have already been modified to reflect the redistribution of heavy-heavy-duty diesel trucks (T7 diesels). Therefore, no other modifications to the population files are necessary to reflect this change.

The existing but unpopulated “Line Haul Vehicle” class (T8) will be used to create an “Other Bus” category in EMFAC2007. The other buses population is a subset of the existing Urban Bus class, however other buses must be mapped to the attributes of the medium heavy category (i.e., emission rates, speed and fuel correction).

APPENDIX A
EMFAC's Geographic Area Index (GAI)

GAI	AB	Air Basin	District	County
1	GBV	Great Basin Valley	Great Basin Unified APCD	Alpine
2	GBV	Great Basin Valley	Great Basin Unified APCD	Inyo
3	GBV	Great Basin Valley	Great Basin Unified APCD	Mono
4	LC	Lake County	Lake County APCD	Lake
5	LT	Lake Tahoe	El Dorado County APCD	Lake
6	LT	Lake Tahoe	Placer County APCD	Placer
7	MC	Mountain Counties	Amador County APCD	Amador
8	MC	Mountain Counties	Calaveras County APCD	Calaveras
9	MC	Mountain Counties	El Dorado County APCD	El Dorado
10	MC	Mountain Counties	Mariposa County APCD	Mariposa
11	MC	Mountain Counties	Northern Sierra AQMD	Nevada
12	MC	Mountain Counties	Placer County APCD	Placer
13	MC	Mountain Counties	Northern Sierra AQMD	Plumas
14	MC	Mountain Counties	Northern Sierra AQMD	Sierra
15	MC	Mountain Counties	Northern Sierra AQMD	Tuolumne
16	NCC	North Central Coast	Monterey Bay Unified APCD	Monterey
17	NCC	North Central Coast	Monterey Bay Unified APCD	San Benito
18	NCC	North Central Coast	Monterey Bay Unified APCD	Santa Cruz
19	NC	North Coast	North Coast Unified AQMD	Del Norte
20	NC	North Coast	North Coast Unified AQMD	Humboldt
21	NC	North Coast	Mendocino County APCD	Mendocino
22	NC	North Coast	Northern Sonoma County APCD	Sonoma
23	NC	North Coast	North Coast Unified AQMD	Trinity
24	NEP	Northeast Plateau	Lassen County APCD	Lassen
25	NEP	Northeast Plateau	Modoc County APCD	Modoc
26	NEP	Northeast Plateau	Siskiyou County APCD	Siskiyou
27	SV	Sacramento Valley	Butte County AQMD	Butte
28	SV	Sacramento Valley	Colusa County APCD	Colusa
29	SV	Sacramento Valley	Glenn County APCD	Glenn
30	SV	Sacramento Valley	Placer County APCD	Placer
31	SV	Sacramento Valley	Sacramento Metro AQMD	Sacramento
32	SV	Sacramento Valley	Shasta County AQMD	Shasta
33	SV	Sacramento Valley	Yolo/Solano AQMD	Solano
34	SV	Sacramento Valley	Feather River AQMD	Sutter
35	SV	Sacramento Valley	Tehama County APCD	Tehama
36	SV	Sacramento Valley	Yolo/Solano AQMD	Yolo
37	SV	Sacramento Valley	Feather River AQMD	Yuba
38	SD	San Diego	San Diego County APCD	San Diego
39	SF	San Francisco Bay Area	Bay Area AQMD	Alameda
40	SF	San Francisco Bay Area	Bay Area AQMD	Contra Costa
41	SF	San Francisco Bay Area	Bay Area AQMD	Marin
42	SF	San Francisco Bay Area	Bay Area AQMD	Napa
43	SF	San Francisco Bay Area	Bay Area AQMD	San Francisco
44	SF	San Francisco Bay Area	Bay Area AQMD	San Mateo
45	SF	San Francisco Bay Area	Bay Area AQMD	Santa Clara
46	SF	San Francisco Bay Area	Bay Area AQMD	Solano
47	SF	San Francisco Bay Area	Bay Area AQMD	Sonoma
48	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	Fresno
49	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	Kern
50	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	Kings
51	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	Madera
52	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	Merced
53	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	San Joaquin
54	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	Stanislaus
55	SJV	San Joaquin Valley	San Joaquin Valley Unified APCD	Tulare

Appendix A (Continued)
EMFAC's Geographic Area Index (GAI)

56	SCC	South Central Coast	San Luis Obispo County APCD	San Luis Obispo
57	SCC	South Central Coast	Santa Barbara County APCD	Santa Barbara
58	SCC	South Central Coast	Ventura County APCD	Ventura
59	SC	South Coast	South Coast AQMD	Los Angeles
60	SC	South Coast	South Coast AQMD	Orange
61	SC	South Coast	South Coast AQMD	Riverside
62	SC	South Coast	South Coast AQMD	San Bernardino
63	SS	Salton Sea	Imperial County APCD	Imperial
64	SS	Salton Sea	South Coast AQMD	Riverside
65	MD	Mojave Desert	Kern County APCD	Kern
66	MD	Mojave Desert	Mojave Desert AQMD	Riverside
67	MD	Mojave Desert	South Coast AQMD	Riverside
68	MD	Mojave Desert	Antelope Valley APCD	Los Angeles
69	MD	Mojave Desert	Mojave Desert AQMD	San Bernardino

APCD is Air Pollution Control District and **AQMD** is Air Quality Management District

Appendix B
Sample data used to populate RegPopData.for

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* 211533,222757,243212,228150,223291,193806,178385,154577,100433,
* 87039, 72400, 63784, 66439, 53963, 38002, 23963, 14173, 18062,
* 19874, 16928, 13590, 14360, 14569, 13013, 12606, 12981, 13232,
* 7388, 5151, 3370, 1929, 1760, 1482, 1083, 2173, 1840,
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* 173799,204975,212780,226926,208924,202615,175418,159327,134771,
* 85830, 71514, 57483, 48618, 51297, 40901, 28599, 17897, 10708,
* 14266, 16636, 14600, 11789, 12761, 13358, 12001, 11916, 12420,
* 12672, 6948, 4904, 3243, 1862, 1724, 1441, 1051, 2185,
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* 124543,100360, 61258, 47733, 36089, 29120, 31793, 25249, 17879,
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* 11259, 11644, 11993, 6667, 4618, 3161, 1769, 1647, 1506,
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* 3119, 1935, 1240, 827, 1014, 1019, 658, 1262, 1466,
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* 10548, 9031, 7697, 7341, 8243, 7098, 5127, 3417, 2264,
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* 1978, 3299, 2565, 1586, 1111, 725, 910, 969, 611,

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Under Review – Subject to Revision

c GA_index= 59, County=19, VEHCLASS=V02, CYEAR=2003, FUEL=G
 * 26447, 32027, 55878, 50695, 44008, 26420, 20451, 19390, 18848,
 * 17049, 16588, 12704, 14573, 13233, 15157, 14935, 15546, 15722,
 * 12912, 11674, 6930, 5651, 4765, 4136, 4739, 4056, 2954,
 * 1915, 1293, 1737, 5444, 5180, 3816, 3524, 3095, 2461,
 * 1941, 1886, 3163, 2530, 1546, 1044, 690, 820, 925,

c GA_index= 59, County=19, VEHCLASS=V03, CYEAR=2000, FUEL=G
 * 103396,102824, 91117, 75222, 66758, 73512, 67457, 66245, 52655,
 * 58611, 49284, 57487, 47816, 45426, 45229, 31995, 22770, 9603,
 * 8712, 7552, 6246, 8971, 7809, 7181, 4827, 3704, 5366,
 * 6338, 4760, 3085, 3130, 3212, 1770, 1375, 1366, 290,
 * 201, 164, 111, 72, 41, 36, 27, 27, 22,

c GA_index= 59, County=19, VEHCLASS=V03, CYEAR=2001, FUEL=G
 * 101421,116012,101302, 88366, 76534, 65169, 72265, 67135, 65432,
 * 51689, 57312, 46974, 53808, 43578, 40472, 39479, 28089, 19575,
 * 8237, 7480, 6111, 5099, 7331, 6188, 5582, 3680, 2880,
 * 4152, 5402, 4101, 2767, 2777, 2892, 1571, 1217, 1260,
 * 260, 174, 129, 93, 76, 42, 28, 25, 28,

c GA_index= 59, County=19, VEHCLASS=V03, CYEAR=2002, FUEL=G
 * 129501, 97960,109257, 94099, 86405, 72414, 63585, 70599, 65239,
 * 63353, 48832, 53065, 42937, 48737, 39098, 36347, 34899, 24635,
 * 17274, 7056, 6465, 5143, 4320, 5919, 4979, 4413, 2951,
 * 2349, 3510, 4871, 3736, 2500, 2577, 2684, 1482, 1121,
 * 1156, 238, 156, 120, 103, 71, 41, 32, 25,

c GA_index= 59, County=19, VEHCLASS=V03, CYEAR=2003, FUEL=G
 * 121882,128371,102346,114383,100539, 87141, 75511, 66709, 73802,
 * 68072, 65050, 50167, 54820, 44015, 49455, 39384, 36577, 34971,
 * 24516, 16893, 7040, 6204, 5087, 4131, 5570, 4666, 4050,
 * 2696, 2081, 3241, 4665, 3618, 2403, 2450, 2559, 1472,
 * 1084, 1126, 221, 148, 114, 75, 52, 34, 22,

c GA_index= 59, County=19, VEHCLASS=V04, CYEAR=2000, FUEL=G
 * 34134, 32300, 35727, 38953, 24106, 30073, 24029, 18297, 15229,
 * 13615, 13695, 15535, 15236, 13583, 13460, 12129, 9076, 5401,
 * 4316, 3568, 3441, 7611, 6506, 6125, 3998, 2776, 2576,
 * 422, 252, 180, 163, 149, 85, 61, 45, 35,
 * 41, 33, 24, 14, 19, 8, 10, 9, 8,

c GA_index= 59, County=19, VEHCLASS=V04, CYEAR=2001, FUEL=G
 * 53755, 38901, 31789, 35400, 40607, 24732, 30722, 24385, 18400,
 * 15112, 13186, 13193, 14767, 14237, 12649, 12432, 11117, 8282,
 * 4954, 3851, 3161, 3209, 6989, 5923, 5766, 3730, 2573,
 * 2427, 320, 191, 153, 145, 131, 72, 58, 40,
 * 33, 36, 30, 22, 20, 17, 6, 10, 10,

c GA_index= 59, County=19, VEHCLASS=V04, CYEAR=2002, FUEL=G
 * 58358, 50655, 36312, 30964, 36724, 41180, 25306, 31152, 24314,
 * 18039, 14477, 12387, 12382, 13824, 13384, 11740, 11485, 10051,
 * 7750, 4582, 3683, 2967, 2996, 6647, 5610, 5488, 3616,
 * 2499, 2366, 302, 180, 136, 150, 123, 69, 60,
 * 40, 35, 32, 26, 26, 20, 24, 7, 9,

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c	GA_index= 59,	County=19,	VEHCLASS=V04,	CYEAR=2003,	FUEL=G				
*	59495,	58561,	52756,	38808,	36617,	38749,	43722,	26644,	32875,
*	25287,	18639,	15055,	12755,	12769,	14323,	13717,	11904,	11569,
*	10074,	7712,	4596,	3705,	3039,	3041,	6640,	5596,	5535,
*	3610,	2519,	2374,	335,	215,	147,	153,	129,	86,
*	77,	54,	35,	41,	26,	19,	19,	21,	7,
c	GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2000,	FUEL=G				
*	2409,	1949,	3773,	5346,	4351,	5650,	3885,	3593,	3327,
*	3853,	5227,	6526,	4513,	3890,	4658,	4454,	3162,	1756,
*	1852,	2041,	1818,	2310,	1807,	1487,	937,	710,	745,
*	159,	138,	76,	74,	62,	43,	43,	38,	61,
*	77,	51,	34,	21,	27,	30,	9,	25,	19,
c	GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2001,	FUEL=G				
*	2913,	2427,	1709,	3688,	5273,	4337,	5616,	3878,	3525,
*	3286,	3768,	5109,	6309,	4407,	3783,	4506,	4248,	3042,
*	1671,	1739,	1972,	1741,	2209,	1694,	1350,	881,	692,
*	710,	108,	91,	47,	60,	51,	35,	30,	28,
*	60,	61,	45,	32,	18,	23,	26,	8,	19,
c	GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2002,	FUEL=G				
*	4338,	2567,	2291,	1829,	3887,	5360,	4307,	5685,	3907,
*	3529,	3180,	3491,	4751,	5973,	4131,	3515,	4278,	4020,
*	2898,	1599,	1627,	1863,	1629,	2059,	1606,	1282,	844,
*	644,	674,	114,	81,	56,	63,	43,	42,	35,
*	28,	61,	53,	44,	40,	15,	29,	30,	13,
c	GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2003,	FUEL=G				
*	6450,	4550,	2749,	2552,	2144,	3986,	5386,	4371,	5713,
*	3993,	3585,	3253,	3715,	5039,	6283,	4353,	3710,	4436,
*	4190,	2938,	1672,	1687,	1879,	1686,	2112,	1665,	1304,
*	844,	655,	711,	117,	89,	52,	51,	43,	35,
*	27,	24,	52,	47,	36,	26,	13,	21,	17,
c	GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2000,	FUEL=G				
*	1375,	1931,	764,	960,	932,	992,	1141,	803,	584,
*	737,	1035,	1076,	880,	659,	779,	676,	489,	229,
*	282,	303,	344,	540,	372,	345,	141,	140,	149,
*	408,	178,	95,	92,	87,	48,	33,	23,	0,
*	0,	2,	0,	0,	0,	0,	1,	0,	0,
c	GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2001,	FUEL=G				
*	346,	2010,	1950,	731,	915,	927,	1021,	1128,	784,
*	570,	723,	1005,	1067,	848,	629,	766,	649,	466,
*	223,	266,	297,	343,	536,	376,	345,	138,	139,
*	153,	419,	187,	100,	93,	91,	51,	39,	23,
*	0,	0,	1,	0,	0,	0,	0,	1,	0,
c	GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2002,	FUEL=G				
*	841,	452,	1846,	1786,	728,	926,	875,	1016,	1029,
*	722,	514,	645,	861,	859,	678,	552,	636,	511,
*	357,	179,	236,	248,	264,	415,	279,	273,	113,
*	118,	126,	345,	151,	93,	80,	67,	43,	34,
*	21,	0,	1,	1,	0,	0,	0,	0,	1,
c	GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2003,	FUEL=G				

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	*	785,	955,	563,	1974,	1882,	818,	913,	874,	995,
	*	1048,	733,	538,	678,	904,	944,	729,	602,	629,
	*	538,	361,	173,	217,	225,	237,	388,	278,	257,
	*	99,	88,	103,	333,	151,	73,	79,	67,	39,
	*	30,	17,	0,	1,	1,	0,	0,	0,	0,
c		GA_index= 59,		County=19,		VEHCLASS=V07,		CYEAR=2000,		FUEL=G
	*	494,	1037,	454,	805,	481,	637,	393,	411,	442,
	*	585,	792,	719,	633,	556,	620,	905,	563,	236,
	*	319,	412,	372,	786,	511,	539,	400,	333,	344,
	*	554,	359,	279,	302,	281,	185,	189,	169,	167,
	*	138,	104,	85,	63,	72,	60,	47,	53,	58,
c		GA_index= 59,		County=19,		VEHCLASS=V07,		CYEAR=2001,		FUEL=G
	*	525,	824,	990,	424,	780,	460,	582,	382,	360,
	*	415,	552,	730,	681,	595,	498,	540,	835,	501,
	*	198,	258,	362,	321,	690,	437,	445,	348,	283,
	*	276,	500,	308,	234,	269,	246,	172,	169,	152,
	*	132,	122,	102,	70,	62,	64,	54,	41,	47,
c		GA_index= 59,		County=19,		VEHCLASS=V07,		CYEAR=2002,		FUEL=G
	*	462,	950,	895,	958,	466,	748,	466,	573,	368,
	*	366,	392,	495,	635,	605,	528,	415,	471,	671,
	*	390,	181,	237,	339,	274,	573,	366,	365,	302,
	*	301,	310,	535,	426,	331,	356,	286,	262,	253,
	*	213,	160,	188,	128,	112,	87,	96,	97,	63,
c		GA_index= 59,		County=19,		VEHCLASS=V07,		CYEAR=2003,		FUEL=G
	*	542,	647,	990,	953,	977,	455,	728,	471,	553,
	*	367,	361,	394,	510,	669,	609,	544,	434,	469,
	*	740,	431,	172,	215,	318,	261,	534,	335,	347,
	*	287,	236,	233,	441,	274,	205,	224,	218,	145,
	*	143,	123,	105,	101,	80,	58,	55,	51,	48,
c		GA_index= 59,		County=19,		VEHCLASS=V08,		CYEAR=2000,		FUEL=G
	*	83,	77,	133,	96,	74,	86,	72,	82,	69,
	*	84,	90,	144,	183,	186,	152,	97,	31,	18,
	*	16,	19,	10,	13,	20,	18,	11,	5,	12,
	*	18,	13,	11,	13,	22,	23,	10,	12,	10,
	*	17,	4,	13,	8,	2,	7,	4,	9,	6,
c		GA_index= 59,		County=19,		VEHCLASS=V08,		CYEAR=2001,		FUEL=G
	*	133,	113,	78,	137,	94,	69,	89,	70,	87,
	*	65,	77,	89,	129,	176,	158,	133,	82,	27,
	*	17,	13,	14,	7,	13,	10,	14,	7,	2,
	*	10,	17,	11,	11,	13,	20,	21,	12,	10,
	*	8,	15,	6,	14,	9,	4,	6,	4,	8,
c		GA_index= 59,		County=19,		VEHCLASS=V08,		CYEAR=2002,		FUEL=G
	*	80,	205,	115,	82,	101,	97,	65,	83,	63,
	*	74,	54,	70,	74,	111,	142,	135,	112,	64,
	*	27,	10,	9,	7,	9,	19,	10,	14,	17,
	*	7,	9,	27,	31,	37,	39,	47,	113,	104,
	*	88,	57,	23,	18,	43,	45,	43,	37,	37,
c		GA_index= 59,		County=19,		VEHCLASS=V08,		CYEAR=2003,		FUEL=G
	*	46,	81,	227,	139,	103,	148,	102,	68,	88,

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	*	74,	75,	64,	77,	81,	118,	154,	132,	110,
	*	63,	31,	17,	11,	9,	6,	12,	11,	13,
	*	9,	1,	6,	14,	12,	10,	13,	13,	19,
	*	9,	10,	11,	15,	6,	11,	8,	4,	3,
c		GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2000,	FUEL=G				
	*	526,	462,	125,	132,	76,	95,	102,	94,	87,
	*	79,	98,	79,	56,	44,	55,	60,	57,	31,
	*	47,	72,	44,	83,	71,	59,	35,	40,	34,
	*	37,	38,	47,	19,	32,	14,	17,	9,	8,
	*	12,	6,	7,	3,	3,	6,	5,	5,	3,
c		GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2001,	FUEL=G				
	*	612,	393,	452,	125,	109,	71,	87,	104,	79,
	*	62,	71,	100,	60,	42,	39,	52,	50,	46,
	*	28,	45,	60,	41,	68,	53,	54,	30,	33,
	*	22,	32,	30,	43,	19,	32,	12,	10,	7,
	*	10,	11,	7,	7,	1,	4,	3,	5,	4,
c		GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2002,	FUEL=G				
	*	586,	496,	445,	470,	136,	116,	67,	96,	104,
	*	79,	66,	71,	95,	62,	38,	43,	53,	52,
	*	44,	23,	39,	51,	40,	76,	43,	70,	26,
	*	25,	23,	25,	24,	40,	17,	29,	12,	14,
	*	10,	10,	9,	6,	6,	1,	11,	5,	6,
c		GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2003,	FUEL=G				
	*	769,	346,	471,	450,	462,	133,	116,	67,	86,
	*	89,	83,	60,	71,	88,	57,	35,	37,	47,
	*	38,	37,	25,	41,	55,	33,	74,	43,	51,
	*	23,	21,	22,	20,	21,	40,	16,	26,	14,
	*	12,	10,	13,	8,	6,	4,	3,	5,	3,
c		GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2000,	FUEL=G				
	*	7,	13,	29,	43,	18,	40,	27,	29,	133,
	*	31,	38,	61,	13,	14,	21,	18,	2,	13,
	*	2,	88,	18,	0,	2,	1,	0,	2,	0,
	*	5,	0,	1,	1,	1,	0,	0,	0,	0,
	*	1,	0,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2001,	FUEL=G				
	*	7,	8,	12,	29,	44,	22,	42,	26,	29,
	*	133,	30,	35,	55,	13,	13,	21,	17,	2,
	*	13,	2,	84,	18,	0,	2,	1,	0,	2,
	*	0,	5,	0,	1,	1,	1,	0,	0,	0,
	*	0,	0,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2002,	FUEL=G				
	*	64,	37,	43,	52,	63,	45,	21,	42,	27,
	*	29,	121,	27,	32,	51,	13,	14,	21,	16,
	*	3,	13,	2,	89,	20,	1,	2,	2,	0,
	*	3,	4,	11,	1,	3,	5,	2,	1,	1,
	*	0,	1,	2,	0,	1,	2,	1,	0,	2,
c		GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2003,	FUEL=G				
	*	38,	71,	36,	42,	51,	60,	45,	20,	42,
	*	22,	27,	128,	29,	30,	47,	13,	15,	21,

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	*	16,	5,	12,	2,	88,	18,	0,	2,	1,
	*	0,	2,	0,	5,	0,	1,	1,	1,	0,
	*	0,	0,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2000,	FUEL=G				
	*	1853,	5553,	4520,	4548,	4566,	3814,	3511,	3418,	2928,
	*	3152,	3109,	2890,	2493,	3324,	4433,	4257,	2961,	3566,
	*	3832,	2429,	2320,	1971,	1755,	997,	847,	979,	812,
	*	826,	683,	629,	638,	387,	250,	240,	164,	156,
	*	107,	72,	73,	59,	61,	52,	44,	61,	44,
c		GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2001,	FUEL=G				
	*	9201,	8255,	5627,	4433,	4333,	4285,	3517,	3276,	3180,
	*	2738,	2917,	2828,	2591,	2311,	3094,	4114,	3991,	2763,
	*	3293,	3416,	2172,	2114,	1859,	1558,	906,	808,	906,
	*	767,	692,	612,	589,	604,	363,	256,	225,	152,
	*	135,	101,	76,	82,	56,	54,	53,	47,	60,
c		GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2002,	FUEL=G				
	*	18445,	9268,	7783,	5622,	4341,	4035,	4010,	3330,	3124,
	*	3005,	2497,	2696,	2588,	2357,	2097,	2795,	3635,	3621,
	*	2451,	3015,	3054,	1962,	1990,	1753,	1451,	849,	739,
	*	845,	721,	632,	554,	585,	556,	346,	256,	207,
	*	158,	148,	101,	84,	79,	48,	52,	58,	44,
c		GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2003,	FUEL=G				
	*	22276,	20089,	9820,	8247,	5864,	4463,	4032,	4013,	3333,
	*	3016,	2949,	2510,	2633,	2570,	2373,	2074,	2764,	3666,
	*	3543,	2388,	2832,	2935,	1907,	1907,	1723,	1386,	812,
	*	736,	812,	736,	667,	555,	580,	562,	380,	244,
	*	208,	159,	155,	96,	87,	92,	54,	55,	62,
c		GA_index= 59,	County=19,	VEHCLASS=V12,	CYEAR=2000,	FUEL=G				
	*	25,	25,	12,	14,	21,	42,	30,	15,	17,
	*	17,	16,	23,	27,	30,	42,	24,	19,	11,
	*	12,	9,	8,	21,	29,	19,	5,	8,	13,
	*	10,	3,	1,	1,	6,	1,	1,	1,	1,
	*	0,	0,	2,	3,	3,	0,	4,	1,	5,
c		GA_index= 59,	County=19,	VEHCLASS=V12,	CYEAR=2001,	FUEL=G				
	*	20,	24,	17,	12,	10,	20,	41,	27,	11,
	*	18,	17,	17,	24,	24,	27,	39,	21,	20,
	*	10,	14,	8,	9,	18,	26,	16,	4,	7,
	*	11,	9,	3,	1,	2,	4,	1,	1,	0,
	*	1,	0,	0,	2,	3,	3,	0,	4,	1,
c		GA_index= 59,	County=19,	VEHCLASS=V12,	CYEAR=2002,	FUEL=G				
	*	19,	22,	28,	22,	16,	9,	20,	38,	27,
	*	13,	17,	16,	11,	22,	23,	25,	44,	26,
	*	21,	7,	13,	8,	13,	57,	74,	30,	5,
	*	8,	21,	14,	6,	1,	5,	9,	3,	5,
	*	1,	5,	1,	2,	4,	3,	9,	15,	11,
c		GA_index= 59,	County=19,	VEHCLASS=V12,	CYEAR=2003,	FUEL=G				
	*	26,	14,	23,	27,	22,	16,	9,	20,	36,
	*	30,	12,	23,	16,	13,	23,	23,	26,	40,
	*	28,	20,	7,	14,	8,	9,	59,	84,	33,

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*      5,      6,      13,      11,      4,      1,      2,      5,      3,
*      1,      0,      1,      0,      0,      2,      3,      4,      1,

c      GA_index= 59,      County=19,      VEHCLASS=V13,      CYEAR=2000,      FUEL=G
*      1791,      1476,      828,      1100,      818,      979,      960,      735,      1019,
*      1111,      1437,      1616,      1565,      1598,      1498,      2310,      3314,      2346,
*      1869,      1484,      992,      3358,      4328,      3713,      2555,      1447,      1325,
*      2313,      1681,      1084,      650,      526,      291,      186,      138,      132,
*      91,      58,      50,      33,      32,      18,      15,      13,      16,

c      GA_index= 59,      County=19,      VEHCLASS=V13,      CYEAR=2001,      FUEL=G
*      1185,      1924,      1355,      799,      1008,      751,      942,      944,      723,
*      1005,      1106,      1389,      1577,      1475,      1503,      1420,      2157,      3122,
*      2154,      1660,      1375,      921,      3022,      3831,      3313,      2260,      1258,
*      1121,      2059,      1469,      964,      582,      473,      262,      171,      116,
*      117,      81,      51,      40,      32,      32,      18,      11,      13,

c      GA_index= 59,      County=19,      VEHCLASS=V13,      CYEAR=2002,      FUEL=G
*      768,      1208,      1766,      1315,      764,      957,      735,      908,      912,
*      705,      974,      1050,      1334,      1504,      1422,      1449,      1349,      1982,
*      2795,      1993,      1509,      1270,      796,      2673,      3374,      2909,      1932,
*      1083,      930,      1786,      1362,      849,      517,      413,      244,      144,
*      105,      112,      68,      43,      29,      27,      29,      19,      10,

c      GA_index= 59,      County=19,      VEHCLASS=V13,      CYEAR=2003,      FUEL=G
*      1225,      908,      1113,      1447,      1235,      779,      939,      734,      916,
*      906,      705,      978,      1038,      1338,      1460,      1426,      1432,      1348,
*      1938,      2753,      1937,      1468,      1215,      733,      2488,      3288,      2777,
*      1895,      1039,      908,      1799,      1355,      878,      525,      423,      242,
*      149,      111,      120,      65,      44,      31,      26,      32,      14,
      & (/AGEYR$,2,VEH$/) )

REG_VEH_POP(:,FIRST_POPYR$:LAST_POPYR$,1:13,DSL$,59) = reshape((/
c      GA_index= 59,      County=19,      VEHCLASS=V01,      CYEAR=2000,      FUEL=D
*      47,      158,      162,      135,      183,      299,      37,      64,      83,
*      90,      73,      95,      115,      1077,      566,      2613,      3189,      3597,
*      4891,      4591,      3451,      3661,      1407,      764,      586,      351,      123,
*      113,      103,      62,      91,      56,      37,      42,      17,      21,
*      11,      7,      8,      5,      7,      3,      6,      6,      5,

c      GA_index= 59,      County=19,      VEHCLASS=V01,      CYEAR=2001,      FUEL=D
*      63,      64,      156,      169,      146,      184,      298,      43,      67,
*      84,      99,      73,      93,      110,      1048,      540,      2467,      3032,
*      3392,      4376,      4036,      2980,      3160,      1236,      692,      521,      315,
*      97,      90,      84,      53,      71,      39,      35,      35,      16,
*      14,      7,      8,      6,      4,      5,      3,      4,      3,

c      GA_index= 59,      County=19,      VEHCLASS=V01,      CYEAR=2002,      FUEL=D
*      242,      96,      91,      197,      220,      152,      172,      302,      48,
*      63,      78,      94,      72,      97,      95,      1031,      499,      2347,
*      2837,      3226,      3915,      3543,      2640,      2725,      1113,      626,      472,
*      262,      90,      81,      69,      46,      54,      31,      28,      25,
*      8,      14,      7,      8,      3,      5,      5,      5,      2,

c      GA_index= 59,      County=19,      VEHCLASS=V01,      CYEAR=2003,      FUEL=D
*      167,      275,      115,      117,      205,      225,      158,      190,      289,
*      48,      72,      81,      100,      78,      99,      100,      1013,      487,

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	*	2260,	2778,	3107,	3661,	3171,	2421,	2464,	1038,	588,
	*	426,	258,	82,	67,	68,	41,	44,	31,	29,
	*	30,	9,	17,	6,	9,	5,	6,	5,	4,
c		GA_index= 59,	County=19,	VEHCLASS=V02,	CYEAR=2000,	FUEL=D				
	*	930,	1214,	351,	634,	660,	633,	327,	336,	248,
	*	272,	341,	404,	317,	394,	539,	637,	739,	614,
	*	891,	528,	297,	177,	85,	51,	29,	17,	28,
	*	28,	11,	9,	11,	12,	13,	11,	5,	7,
	*	0,	2,	4,	0,	1,	0,	0,	0,	1,
c		GA_index= 59,	County=19,	VEHCLASS=V02,	CYEAR=2001,	FUEL=D				
	*	1382,	1056,	1228,	355,	635,	623,	602,	309,	321,
	*	237,	252,	303,	366,	271,	365,	506,	576,	675,
	*	586,	815,	448,	251,	134,	67,	37,	25,	12,
	*	23,	12,	5,	9,	7,	11,	12,	8,	5,
	*	2,	0,	2,	3,	1,	1,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V02,	CYEAR=2002,	FUEL=D				
	*	981,	1565,	1030,	1206,	389,	672,	643,	601,	330,
	*	313,	230,	247,	281,	347,	273,	334,	468,	540,
	*	625,	525,	708,	377,	219,	117,	52,	34,	26,
	*	19,	23,	10,	7,	16,	9,	8,	14,	6,
	*	3,	5,	2,	0,	1,	1,	2,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V02,	CYEAR=2003,	FUEL=D				
	*	1213,	1140,	1687,	1178,	1400,	402,	701,	634,	594,
	*	342,	306,	239,	246,	300,	370,	280,	334,	466,
	*	531,	609,	499,	673,	365,	225,	100,	61,	34,
	*	21,	11,	17,	11,	6,	8,	6,	10,	13,
	*	5,	2,	6,	1,	1,	1,	1,	1,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V03,	CYEAR=2000,	FUEL=D				
	*	132,	79,	81,	108,	99,	180,	103,	98,	107,
	*	120,	194,	169,	112,	225,	256,	254,	353,	401,
	*	571,	122,	231,	233,	110,	30,	25,	18,	12,
	*	13,	10,	7,	4,	2,	5,	3,	2,	1,
	*	1,	0,	0,	0,	1,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V03,	CYEAR=2001,	FUEL=D				
	*	139,	158,	74,	83,	113,	93,	174,	106,	100,
	*	104,	110,	173,	155,	105,	221,	251,	233,	315,
	*	351,	471,	101,	186,	193,	107,	31,	18,	15,
	*	10,	12,	10,	7,	4,	4,	6,	4,	2,
	*	0,	1,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V03,	CYEAR=2002,	FUEL=D				
	*	106,	162,	152,	76,	104,	132,	91,	169,	114,
	*	98,	104,	90,	142,	131,	91,	215,	222,	201,
	*	293,	310,	416,	93,	168,	170,	84,	22,	22,
	*	12,	11,	14,	10,	6,	4,	3,	3,	4,
	*	2,	0,	1,	1,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V03,	CYEAR=2003,	FUEL=D				
	*	126,	121,	187,	174,	101,	104,	119,	105,	179,
	*	115,	104,	111,	113,	169,	139,	97,	218,	224,
	*	207,	297,	322,	427,	98,	158,	180,	90,	25,

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	*	17,	14,	10,	11,	6,	4,	5,	2,	2,
	*	3,	1,	0,	1,	1,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V04,	CYEAR=2000,	FUEL=D				
	*	110,	90,	44,	126,	150,	164,	135,	71,	38,
	*	82,	74,	65,	106,	137,	107,	57,	102,	63,
	*	96,	2,	13,	6,	3,	2,	2,	2,	2,
	*	0,	0,	0,	1,	1,	1,	0,	1,	4,
	*	0,	1,	1,	2,	0,	0,	0,	1,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V04,	CYEAR=2001,	FUEL=D				
	*	228,	180,	96,	47,	124,	152,	166,	124,	65,
	*	36,	71,	69,	62,	113,	130,	101,	47,	98,
	*	49,	86,	1,	11,	4,	4,	3,	2,	1,
	*	3,	0,	0,	0,	1,	1,	1,	0,	1,
	*	4,	0,	1,	1,	2,	1,	0,	0,	1,
c		GA_index= 59,	County=19,	VEHCLASS=V04,	CYEAR=2002,	FUEL=D				
	*	284,	309,	199,	109,	52,	123,	149,	149,	101,
	*	44,	27,	53,	74,	53,	115,	141,	111,	45,
	*	83,	42,	83,	3,	11,	5,	4,	3,	2,
	*	1,	3,	0,	0,	0,	1,	1,	1,	0,
	*	1,	5,	0,	0,	1,	0,	1,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V04,	CYEAR=2003,	FUEL=D				
	*	231,	351,	316,	225,	137,	66,	125,	141,	134,
	*	73,	42,	25,	73,	70,	63,	128,	148,	108,
	*	55,	96,	42,	79,	4,	12,	6,	6,	3,
	*	2,	1,	2,	0,	0,	0,	1,	0,	1,
	*	1,	0,	2,	1,	0,	1,	0,	1,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2000,	FUEL=D				
	*	18,	26,	14,	36,	26,	48,	33,	33,	20,
	*	41,	83,	95,	94,	99,	94,	66,	64,	39,
	*	16,	7,	22,	14,	12,	14,	10,	10,	10,
	*	3,	7,	2,	4,	3,	2,	2,	4,	2,
	*	5,	0,	1,	0,	0,	1,	1,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2001,	FUEL=D				
	*	60,	23,	23,	16,	29,	27,	35,	26,	26,
	*	18,	31,	67,	85,	79,	88,	76,	53,	58,
	*	21,	10,	5,	20,	13,	12,	11,	11,	7,
	*	12,	2,	7,	1,	3,	3,	1,	1,	3,
	*	1,	4,	0,	1,	0,	0,	1,	1,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2002,	FUEL=D				
	*	527,	73,	18,	17,	16,	31,	23,	36,	22,
	*	24,	16,	29,	61,	68,	72,	76,	72,	43,
	*	50,	22,	9,	6,	19,	12,	8,	11,	12,
	*	9,	12,	3,	6,	1,	3,	2,	1,	1,
	*	2,	1,	4,	0,	1,	0,	0,	1,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V05,	CYEAR=2003,	FUEL=D				
	*	1044,	565,	117,	36,	40,	15,	35,	29,	37,
	*	23,	31,	15,	33,	74,	84,	105,	89,	78,
	*	55,	56,	28,	15,	4,	20,	17,	9,	11,
	*	9,	7,	10,	2,	6,	1,	2,	0,	1,

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	*	1,	2,	0,	5,	0,	1,	0,	0,	1,
c		GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2000,	FUEL=D				
	*	756,	779,	437,	764,	628,	916,	680,	553,	575,
	*	423,	657,	680,	449,	323,	555,	281,	241,	99,
	*	137,	1,	5,	4,	9,	2,	0,	3,	1,
	*	1,	0,	0,	0,	0,	0,	0,	0,	0,
	*	0,	0,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2001,	FUEL=D				
	*	342,	809,	806,	441,	794,	647,	949,	694,	543,
	*	566,	417,	674,	681,	440,	303,	533,	285,	241,
	*	98,	138,	0,	6,	5,	9,	3,	0,	3,
	*	0,	1,	0,	0,	0,	0,	0,	0,	0,
	*	0,	0,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2002,	FUEL=D				
	*	539,	340,	731,	817,	436,	766,	644,	920,	644,
	*	518,	503,	355,	582,	592,	376,	250,	442,	254,
	*	196,	84,	114,	0,	11,	9,	9,	3,	0,
	*	1,	0,	2,	0,	0,	0,	0,	0,	0,
	*	0,	0,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V06,	CYEAR=2003,	FUEL=D				
	*	621,	571,	388,	771,	873,	446,	753,	643,	893,
	*	649,	535,	528,	376,	616,	625,	374,	269,	464,
	*	237,	203,	86,	130,	1,	20,	10,	14,	5,
	*	0,	1,	0,	1,	0,	0,	0,	0,	0,
	*	0,	0,	0,	0,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V07,	CYEAR=2000,	FUEL=D				
	*	3224,	3298,	2221,	2240,	2021,	2566,	1733,	1533,	1417,
	*	2066,	2533,	1908,	1739,	1682,	1239,	1177,	946,	359,
	*	423,	482,	392,	479,	271,	101,	80,	71,	70,
	*	66,	54,	34,	32,	26,	16,	12,	9,	9,
	*	4,	4,	4,	2,	0,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V07,	CYEAR=2001,	FUEL=D				
	*	2317,	3705,	3289,	2220,	2196,	1943,	2552,	1702,	1516,
	*	1381,	1850,	2336,	1738,	1640,	1531,	1126,	1057,	869,
	*	327,	370,	420,	364,	430,	247,	91,	77,	61,
	*	64,	44,	46,	33,	28,	22,	15,	9,	6,
	*	5,	3,	3,	3,	1,	0,	0,	0,	0,
c		GA_index= 59,	County=19,	VEHCLASS=V07,	CYEAR=2002,	FUEL=D				
	*	2088,	2777,	3569,	3309,	2343,	2225,	1871,	2527,	1609,
	*	1490,	1285,	1603,	2009,	1571,	1411,	1330,	981,	894,
	*	730,	272,	336,	348,	322,	369,	200,	89,	79,
	*	73,	73,	53,	60,	42,	35,	16,	11,	12,
	*	6,	4,	2,	3,	2,	2,	0,	0,	2,
c		GA_index= 59,	County=19,	VEHCLASS=V07,	CYEAR=2003,	FUEL=D				
	*	2329,	2531,	3058,	3968,	3579,	2439,	2332,	1921,	2684,
	*	1712,	1525,	1349,	1752,	2211,	1617,	1542,	1414,	994,
	*	909,	731,	280,	326,	368,	313,	384,	207,	89,
	*	73,	58,	58,	41,	36,	32,	29,	16,	11,
	*	7,	4,	4,	1,	3,	1,	1,	0,	0,

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c	GA_index= 59,	County=19,	VEHCLASS=V08,	CYEAR=2000,	FUEL=D				
*	578,	569,	460,	489,	588,	774,	754,	697,	561,
*	654,	868,	956,	725,	657,	587,	627,	571,	251,
*	268,	333,	293,	342,	237,	180,	111,	122,	128,
*	126,	85,	53,	43,	40,	29,	20,	17,	10,
*	11,	7,	5,	5,	7,	5,	4,	3,	6,
c	GA_index= 59,	County=19,	VEHCLASS=V08,	CYEAR=2001,	FUEL=D				
*	740,	1069,	1075,	812,	903,	1645,	2154,	1978,	1781,
*	1519,	1689,	1989,	2295,	1618,	1523,	1308,	1333,	1395,
*	514,	509,	560,	486,	543,	391,	228,	183,	122,
*	127,	100,	90,	44,	39,	40,	26,	18,	14,
*	9,	6,	3,	5,	5,	2,	1,	0,	1,
c	GA_index= 59,	County=19,	VEHCLASS=V08,	CYEAR=2002,	FUEL=D				
*	389,	574,	689,	657,	573,	600,	772,	904,	796,
*	667,	492,	561,	743,	789,	588,	528,	469,	479,
*	431,	184,	198,	256,	215,	238,	166,	122,	95,
*	101,	99,	85,	83,	48,	52,	53,	30,	21,
*	13,	8,	7,	4,	4,	5,	8,	6,	3,
c	GA_index= 59,	County=19,	VEHCLASS=V08,	CYEAR=2003,	FUEL=D				
*	485,	439,	647,	829,	799,	714,	770,	954,	1130,
*	955,	782,	576,	649,	836,	884,	657,	580,	497,
*	498,	444,	189,	197,	255,	203,	222,	162,	113,
*	78,	81,	82,	73,	53,	33,	28,	29,	21,
*	13,	12,	7,	7,	4,	5,	3,	4,	4,
c	GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2000,	FUEL=D				
*	54,	66,	89,	108,	85,	70,	52,	36,	77,
*	96,	55,	102,	90,	97,	49,	32,	110,	53,
*	50,	88,	38,	31,	24,	19,	14,	25,	24,
*	14,	9,	7,	5,	3,	9,	20,	5,	4,
*	0,	2,	2,	7,	2,	0,	2,	2,	2,
c	GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2001,	FUEL=D				
*	85,	71,	58,	83,	105,	64,	40,	20,	32,
*	47,	34,	54,	48,	72,	65,	43,	29,	76,
*	42,	53,	74,	36,	24,	20,	19,	7,	18,
*	18,	11,	5,	9,	5,	3,	9,	11,	4,
*	4,	1,	2,	1,	7,	1,	0,	2,	2,
c	GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2002,	FUEL=D				
*	61,	148,	154,	76,	134,	111,	91,	65,	38,
*	31,	85,	97,	59,	85,	95,	107,	63,	32,
*	116,	64,	55,	98,	39,	31,	17,	23,	10,
*	16,	14,	23,	3,	17,	7,	21,	24,	18,
*	6,	4,	1,	1,	1,	8,	5,	0,	2,
c	GA_index= 59,	County=19,	VEHCLASS=V09,	CYEAR=2003,	FUEL=D				
*	23,	65,	159,	157,	67,	140,	113,	97,	63,
*	38,	27,	82,	97,	60,	82,	81,	97,	38,
*	33,	112,	45,	41,	77,	32,	26,	20,	25,
*	11,	13,	17,	10,	3,	7,	7,	5,	8,
*	16,	4,	1,	1,	1,	1,	8,	2,	0,

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c	GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2000,	FUEL=D
*	4, 6,	34, 134,	29, 77,	5, 22,	319,
*	79, 161,	250, 390,	94, 85,	9, 262,	86,
*	45, 292,	177, 2,	1, 1,	5, 4,	45,
*	34, 0,	2, 0,	0, 4,	1, 2,	1,
*	11, 0,	0, 15,	0, 1,	13, 0,	4,
c	GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2001,	FUEL=D
*	2, 6,	6, 34,	134, 30,	77, 5,	20,
*	314, 78,	158, 227,	382, 92,	85, 9,	261,
*	86, 44,	291, 176,	2, 1,	1, 5,	4,
*	45, 34,	0, 2,	0, 0,	4, 1,	2,
*	1, 11,	0, 0,	15, 0,	1, 13,	0,
c	GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2002,	FUEL=D
*	62, 75,	62, 22,	40, 146,	34, 78,	4,
*	23, 328,	79, 163,	232, 391,	92, 86,	17,
*	263, 87,	44, 279,	172, 2,	1, 0,	5,
*	48, 73,	171, 6,	99, 34,	24, 146,	18,
*	4, 5,	12, 14,	3, 132,	56, 34,	82,
c	GA_index= 59,	County=19,	VEHCLASS=V10,	CYEAR=2003,	FUEL=D
*	12, 81,	89, 62,	22, 40,	146, 33,	78,
*	4, 24,	317, 82,	161, 225,	386, 92,	85,
*	17, 262,	90, 45,	281, 178,	2, 1,	1,
*	6, 4,	44, 34,	0, 2,	0, 0,	3,
*	2, 2,	1, 11,	0, 0,	15, 0,	1,
c	GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2000,	FUEL=D
*	18, 16,	26, 17,	30, 36,	15, 29,	25,
*	43, 30,	43, 53,	72, 62,	38, 46,	15,
*	14, 15,	31, 37,	24, 12,	4, 8,	3,
*	5, 4,	2, 1,	0, 0,	0, 0,	0,
*	0, 0,	1, 0,	0, 1,	0, 0,	0,
c	GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2001,	FUEL=D
*	1, 31,	20, 30,	22, 36,	45, 20,	32,
*	28, 44,	33, 47,	56, 71,	68, 39,	50,
*	16, 15,	15, 34,	40, 25,	12, 5,	10,
*	5, 6,	5, 2,	2, 0,	0, 0,	0,
*	0, 0,	0, 1,	0, 0,	1, 0,	0,
c	GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2002,	FUEL=D
*	4, 1,	26, 13,	27, 20,	22, 40,	18,
*	30, 30,	41, 29,	35, 53,	69, 60,	29,
*	41, 14,	13, 14,	26, 27,	19, 7,	3,
*	5, 4,	4, 4,	1, 2,	0, 0,	0,
*	0, 0,	0, 0,	1, 0,	0, 1,	0,
c	GA_index= 59,	County=19,	VEHCLASS=V11,	CYEAR=2003,	FUEL=D
*	3, 5,	2, 25,	14, 26,	21, 33,	37,
*	21, 27,	29, 35,	26, 32,	50, 63,	46,
*	26, 41,	9, 11,	12, 21,	26, 12,	5,
*	4, 5,	4, 4,	5, 0,	1, 0,	0,
*	1, 0,	0, 1,	0, 1,	0, 0,	1,
c	GA_index= 59,	County=19,	VEHCLASS=V12,	CYEAR=2000,	FUEL=D

Under Review – Subject to Revision

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*      114,   338,   264,   268,   244,   345,   110,   113,   106,
*      111,   387,   145,   239,   401,   325,   49,   19,   11,
*      14,    21,    21,    34,    43,    37,   28,   17,   22,
*      2,     6,     4,     7,     6,     1,    6,    0,    0,
*      0,     0,     1,     0,     1,     0,    0,    0,    0,

c      GA_index= 59,   County=19,   VEHCLASS=V12,   CYEAR=2001,   FUEL=D
*      53,   209,   352,   255,   235,   240,   352,   104,   117,
*      121,  112,  372,  127,  258,  389,  305,   49,   13,
*      11,   14,   20,   17,   32,   41,   35,   26,   18,
*      24,   2,    5,   4,    7,   6,    1,   7,   0,
*      0,   0,    0,   1,    0,   1,    0,   0,   0,

c      GA_index= 59,   County=19,   VEHCLASS=V12,   CYEAR=2002,   FUEL=D
*      284,   94,   217,   350,   284,   194,   232,   342,   89,
*      124,  116,  114,  347,   113,  240,   254,  312,   45,
*      22,    7,   14,   15,   14,   30,   59,   34,   28,
*      18,   32,   11,   9,    7,   9,   17,   4,   13,
*      0,    6,    0,  13,    1,   2,    2,   1,   1,

c      GA_index= 59,   County=19,   VEHCLASS=V12,   CYEAR=2003,   FUEL=D
*      180,  308,   93,   232,   350,  278,   209,  243,   354,
*      95,   119,  113,   110,   339,  105,   242,  235,   323,
*      57,   28,   17,   17,   18,   14,   34,   74,   49,
*      33,   19,   27,   6,    5,   5,    7,   11,   5,
*      10,   0,    2,   0,    0,   1,    1,   1,   0,

c      GA_index= 59,   County=19,   VEHCLASS=V13,   CYEAR=2000,   FUEL=D
*      96,   123,   95,   71,   76,   88,   105,   97,   89,
*      60,   52,   43,   25,   25,   29,   24,   39,   90,
*      75,   21,   13,   22,   18,   7,   12,   13,   8,
*      8,    8,    7,   2,    8,   6,    2,   6,   3,
*      3,    2,    6,   1,    0,   1,    0,   2,   2,

c      GA_index= 59,   County=19,   VEHCLASS=V13,   CYEAR=2001,   FUEL=D
*      121,  162,  134,  109,   77,   78,   89,  114,   94,
*      90,   57,   50,   41,   25,   23,   26,   24,   35,
*      90,   67,   20,   14,   25,   18,   8,   11,   14,
*      7,    7,    6,   7,    4,   5,    7,   1,   6,
*      4,    3,    3,   6,    1,   1,    1,   1,   1,

c      GA_index= 59,   County=19,   VEHCLASS=V13,   CYEAR=2002,   FUEL=D
*      154,  149,  167,  129,   116,   73,   81,   93,   111,
*      86,   95,   58,   40,   39,   27,   23,   26,   25,
*      41,   80,   63,   16,   12,   24,   15,   9,   10,
*      11,   7,   10,   6,    9,   3,    6,   5,   2,
*      6,    3,    3,   2,    5,   1,    1,   1,   1,

c      GA_index= 59,   County=19,   VEHCLASS=V13,   CYEAR=2003,   FUEL=D
*      238,  201,  169,  185,   147,  129,   87,   80,   97,
*      111,   99,   94,   55,   44,   36,   27,   22,   29,
*      27,   39,   81,   59,   19,   17,   19,   18,   11,
*      9,   13,    7,   7,    7,   8,    4,   7,   6,
*      3,    7,    4,   5,    2,   4,    1,   2,   2,
& (/AGEYR$,2,VEH$/) )

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