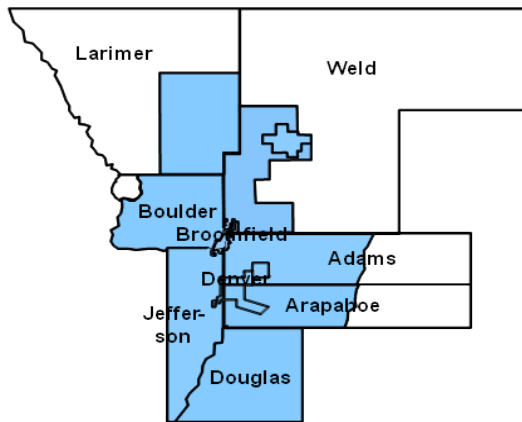
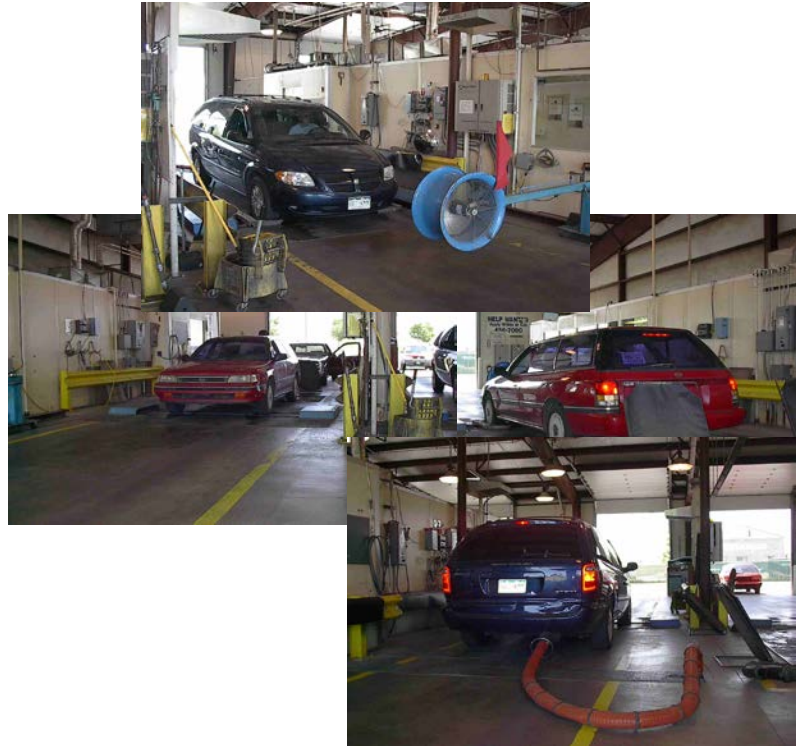


2011 Annual Report On the Automobile Inspection and Readjustment Program



July 1, 2012

Annual AIR Program Report

Executive Summary

The State of Colorado operates an automotive emissions inspection program in the nine-county Front Range area whose purpose is to improve air quality through the detection, and repair of excessively emitting vehicles. Mobile sources emissions constitute one of the larger categories of controllable emissions that contribute to summertime ozone concentrations. Lowering vehicle emissions through repairing dirty vehicles contributes to a cleaner motor vehicle fleet, and improvement in the Front Range area's air quality.

The Automobile Inspection and Readjustment (AIR) Program consists of an "enhanced" Inspection and Maintenance (IM) Program that utilizes a dynamometer-based IM240 test for 1982 and newer light-duty vehicles and a two-speed idle test for 1981 and older light-duty and all heavy-duty gas vehicles. A visual inspection and gas cap pressure test are also conducted to check for required emissions control equipment and evaporative emission leaks. The program is enforced through registration denial.

Vehicles are exempt from inspection for the first four model years. Vehicles that transfer ownership during this period are also exempt from inspection if they have at least 12 months remaining on their vehicle registration. As a result of these exemptions, approximately 360,000 vehicles were exempt in 2011 from undergoing emissions inspections.

The IM network consists of 18 Air Care Colorado centers with 97 inspection lanes located throughout the nine-county program area. These 18 centralized testing stations inspect 1982 and newer as well as 1981 and older and heavy-duty gasoline vehicles. Also, there were four independent test-only stations that only inspect 1981 and older vehicles. Additionally, there were 23 fleet stations licensed to test qualifying commercial and governmental fleet vehicles in 2011.

The State has developed a Clean Screen program, called RapidScreen, to increase motorist convenience and limit the number of vehicles undergoing the traditional IM inspection. The Clean Screen program utilizes Remote Sensing Devices (RSD) to measure tailpipe emissions while a vehicle is driven on the road. In 2011, there were a total of 22 RSD units operating throughout the nine-county program area.

During 2011, there were approximately 853,000 initial IM240 tests and 79,800 two-speed idle tests conducted throughout the IM network. In addition, approximately 257,000 unique vehicles were observed by RSD units that met clean screen program requirements. The IM240 failure rate was 8.27 % with the two-speed idle test failure rate being 10.38 %. Including Clean Screen inspections, the overall failure rate was 6.62 %.

The net cost of the total program during 2011 was estimated to be approximately \$43.723 million. This estimate is based on vehicle inspection costs, cost of repairs, vehicle registration fees, and estimated fuel savings. For ozone precursors, the Air Pollution Control Division estimates the cost effectiveness of the inspection program at \$7,370 per ton removed. For carbon monoxide (CO) the cost effectiveness is estimated at \$862 per ton.

The Department was involved with multiple studies throughout the year. These studies consisted of developing methods to identify high evaporative emissions, evaluation of program effectiveness of both OBD and IM240, and evaluating Colorado registration data to insure program compliance. All of these studies are ongoing with a scheduled completion date of 2012 for the evaporative emissions identification and registration evaluation and 2013/2014 for the OBD and IM240 effectiveness studies.

Introduction

The State of Colorado has maintained an automotive emissions inspection program since 1981. The purpose of the emissions inspection program is to identify and repair high emitting vehicles. Repairs of these vehicles result in lower mobile source emissions and contribute to improvement in the area's air quality. Mobile sources remain a significant source of controllable emissions that contribute to Front Range summertime ozone levels.

The current Automobile Inspection and Readjustment (AIR) program was authorized by HB93-1340, and began operations on January 1, 1995. It consists of an "enhanced" Inspection Maintenance (IM) Program that utilizes a dynamometer-based IM240 test for 1982 and newer light-duty vehicles and a two-speed idle test for 1981 and older light-duty and all heavy-duty gas vehicles. A visual inspection and gas cap pressure test are also conducted on 1975 and newer vehicles. Vehicles model year 1982 and newer are inspected biennially while 1981 and older vehicles are inspected annually. The program is registration enforced. Vehicles four model years of age and newer are exempt from inspection, as well as used vehicles that are sold during their exemption period.

To improve motorist convenience, the State also administers a remote sensing based "Clean Screen" program. Remote sensing is a method for monitoring vehicle emissions while simultaneously photographing the license plate when a vehicle passes through infrared and ultraviolet beams of light. Owners of vehicles meeting the Clean Screen criteria are notified by the county clerk that their vehicle has passed the inspection process, and are exempt from their next regularly scheduled IM240 emissions test.

A state contractor, Envirotest, was chosen to operate the IM program. They are charged with operating the network of test-only stations, providing data and communication services, and the operation of the remote sensing network. Envirotest has been the state contractor since the enhanced IM Program was established in 1995.

The current AIR Program covers the nine-county Front Range area, including all or portions of Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, Jefferson, Larimer, and Weld counties. The latter two North Front Range counties began inspecting gasoline powered motor vehicles on November 1, 2010.

IM Program

IM Network

The IM network consists of 18 Air Care Colorado centers with 97 inspection lanes, four independent test-only stations that inspect only 1981 and older model year vehicles and 23 fleet stations that inspect qualifying commercial and governmental fleet vehicles. The Air Care Colorado centers are centralized facilities, operated by the state contractor that inspect 1982 and newer light-duty vehicles as well as 1981 and older and heavy duty vehicles. Model year 1981 and older vehicles can also be inspected at the four independent test-only stations that test only 1981 and older vehicles.

The remote sensing program consists of 18 RSD units operating within the Denver Metropolitan Area (DMA) and an additional four units in the Northern Front Range (NFR).

The State staffs and operates six emissions technical centers throughout the program area to help both the motoring public and the repair industry.

New Program Developments

Calendar year 2011 marked the first full year that the AIR program operated throughout its newly expanded nine-county area. This expansion was mandated by Senate Bill 09-003. As a result of this expansion, parts of Larimer and Weld counties were included in the Enhanced IM Program for the first time. For this calendar year only, introductory IM240 emissions standards for 1982 and newer model year vehicles were utilized in the NFR, with the current DMA final program standards being implemented starting January 1, 2012.

To improve customer convenience and to lower wait times, the program expanded the use of four-wheel dynamometers. Special four-wheel drive dynamometers designed to test all-wheel and full-time four-wheel drive vehicles were placed at the Arvada, Southeast Denver, and Northglenn stations along with the West Denver Emissions Technical Center.

The Department continued to place emphasis on special studies in 2011. This year, Department staff was involved in examining automotive evaporative emissions in a major national study. Additionally, they examined program effectiveness, and the use and cost effectiveness of automotive On-Board-Diagnostics II (OBD-II) and the EPA IM240 mass emissions test. It is expected that the OBD-II and IM240 effectiveness studies will assist in the future refinement of the program.

In an effort to evaluate emissions program compliance, vehicle registration data from the DMA counties were evaluated. Approximately 9.7 million Colorado registration records were evaluated to determine the overall program compliance rates. This evaluation was not yet concluded at the time of this report.

A new vehicle wait time requirement was implemented in November 2010. The vehicle wait time is now comprised of queue time along with test time. Queue time for a specific vehicle is the amount of time elapsed from the moment the vehicle's license plate is recorded by the license plate reader system (LPR) until the time the vehicle reaches position one and the vehicle information is entered into the data system. Test time for a vehicle is the amount of time elapsed from when the vehicle data is entered at position one, until the time that the motorist receives their Vehicle Inspection Report (VIR) at position three. A wait time violation is assessed when an inspection center exceeds an average queue or test time of 20 minutes averaged over a 2-hour period and the facility is staffed less than 78% of the inspection center's employment capacity. This new monitoring method is different than the prior wait time assessment which only an average queue time that exceeded 15 minutes over any 2-hour period was applied. A reduction in overall total time spent at an inspection center should result. This was the case in calendar year 2011. The overall queue time increased by 23 seconds, however the average test time decreased by approximately 5 minutes with the overall time decreasing by a little over 4.5 minutes.

IM240 Program Results

The IM240 element of the enhanced program uses the IM240 loaded-mode dynamometer test cycle. This test is arguably the most accurate currently used emissions test for replicating the Federal Test Procedure (FTP) that is used to certify new model year vehicles. For 2011, within the entire program area, there were 853,418 IM240 initial inspections conducted. Based on these inspections, 70,541 vehicles were identified as needing emissions repairs resulting in an IM240 failure rate of 8.27%. The following sections present in more detail these results for the established seven-county DMA, as well as for the newly enlarged program area in Larimer and Weld counties that operated under new program introductory emissions standards or “cutpoints”. For this report, the IM240 results from these two program areas will be reported separately because of the differing program cutpoints used, as well as to differentiate first year results for the northern expanded IM area.

IM240 Test Results

In 2011 there were a total of 710,436 initial IM240 inspections conducted in the DMA. Initial inspections are the first inspection that a vehicle undergoes, and generally the last, since most vehicles pass this inspection. However, excessively emitting vehicles that fail their initial test will have to undergo additional testing after repair. Of the 710,436 initial IM240 inspections, 56,919 vehicles failed, resulting in an IM240 initial failure rate of 8.09%. Vehicles may fail for a number of reasons. These include missing or broken emission control equipment, excess exhaust emissions, or evaporative emissions. Of the 56,919 initial IM240 failures, 29,514 failed for excess exhaust emissions, with 27,405 failing for other causes. The 29,514 initial IM240 inspection failures equate to an exhaust emissions failure rate of 4.15%.

For the NFR IM expansion area, parts of Larimer and Weld counties, the number of initial IM240 inspections was 142,982. Of these initial inspections, 13,622 vehicles failed, which resulted in an IM240 initial failure rate of 9.53 % for the NFR. Of the 13,622 IM240 failures, 4,163 failed for exhaust emissions resulting in a 2.91% emission fail rate.

The following charts give a more detailed view of failure rates and emissions results. Figure 1 and Figure 2 show overall failure rates by model year and program area. Overall failures consist of vehicles with excessive exhaust emissions, gas cap pressure failures, and/or visual equipment test failures. Figure 3 and Figure 4 show exhaust emission failures for vehicles that exceed emissions standards for hydrocarbons (HC), carbon monoxide (CO), and/or nitrogen oxides (NOx). Vehicles that fail for excessive exhaust emissions could fail for one pollutant (HC, CO, or NOx), or any combination of two or more of these criteria pollutants. Emission standards used to fail a vehicle are set for individual model years and vehicle types. All standards are set so that well-maintained vehicles will reasonably pass, with an adequate buffer to prevent marginal vehicles from falsely failing the inspection.

As shown in Figure 1 and Figure 2, the highest failure rates were found for the earliest model years. This contrasts with the failure rate for the newest of the model years, which were significantly lower as expected, even with these vehicles being subject to the most stringent standards. The newest model year vehicles experienced failure rates of one to two percent. Because of these low failure rates, and the high probability that they will pass an emissions test,

the state exempts the first four model years of vehicles from periodic emissions inspections, though as the charts show, some motorists voluntarily have their exempt vehicles tested.

Emissions failure rates as shown in Figure 3 and Figure 4 follow the same trends as the overall IM240 failure rates. Newer cars and trucks, as expected, were much cleaner, with failure rates approaching zero, less than one percent, for the newest vehicles (model year 2005 and newer).

Failure rates for the NFR area were generally higher than in the DMA, especially for the older vehicles for both cars and trucks even though the IM240 standards in the NFR were significantly more lenient than the standards applied in the DMA. It is thought that as program experience is gained in the NFR area, overall and exhaust failure rates will much more closely align with the Denver area.

Figure 1

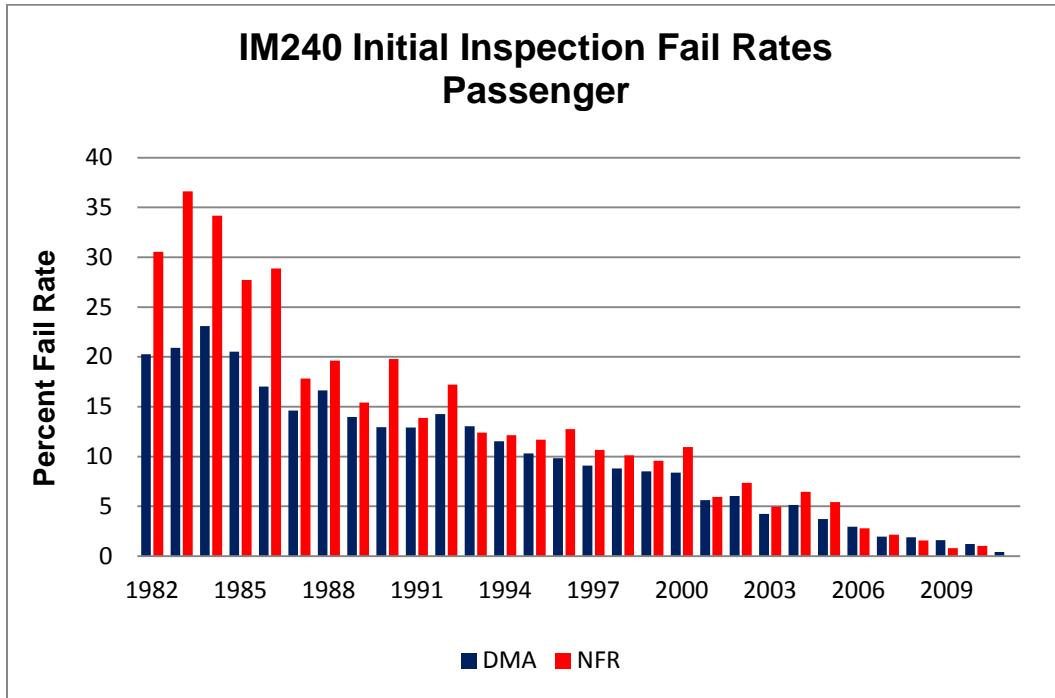


Figure 2

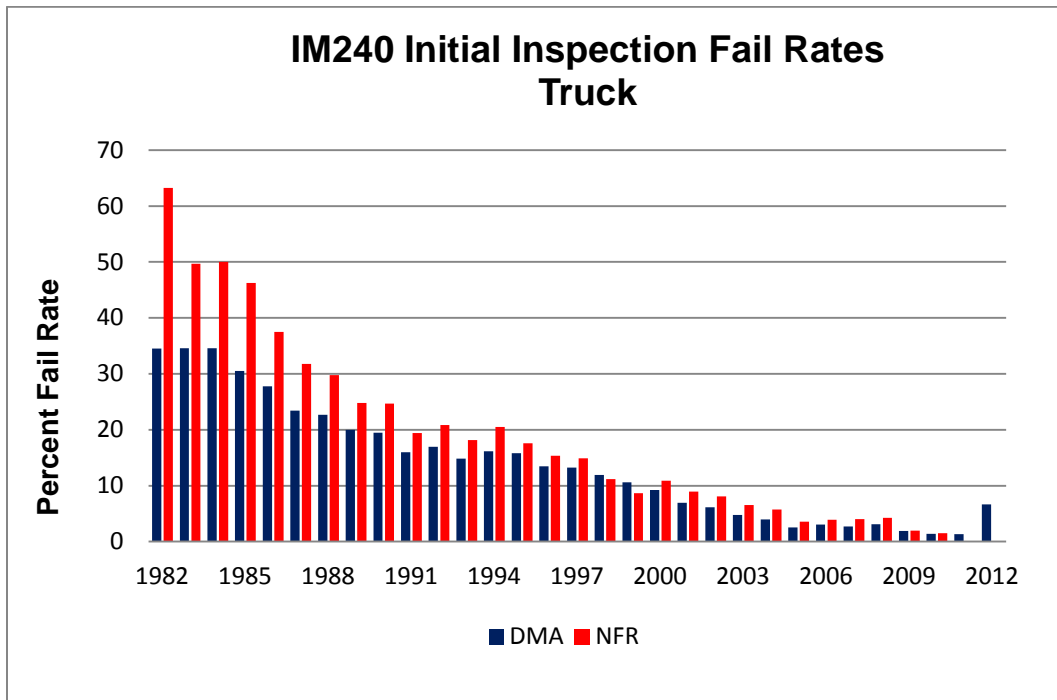


Figure 3

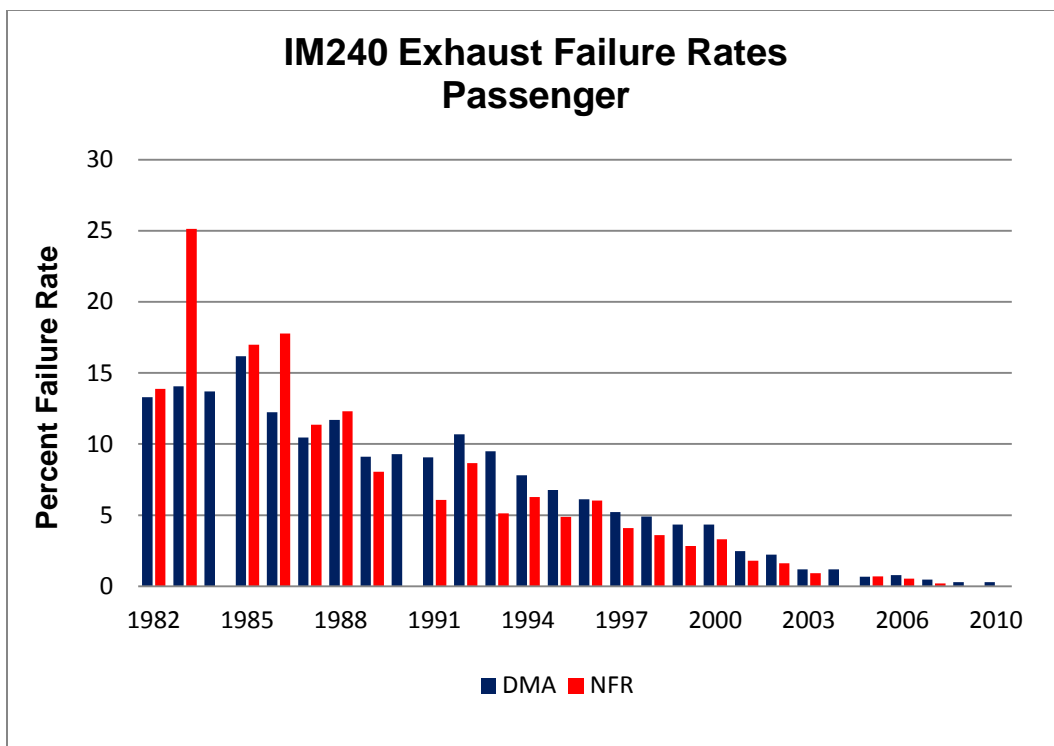
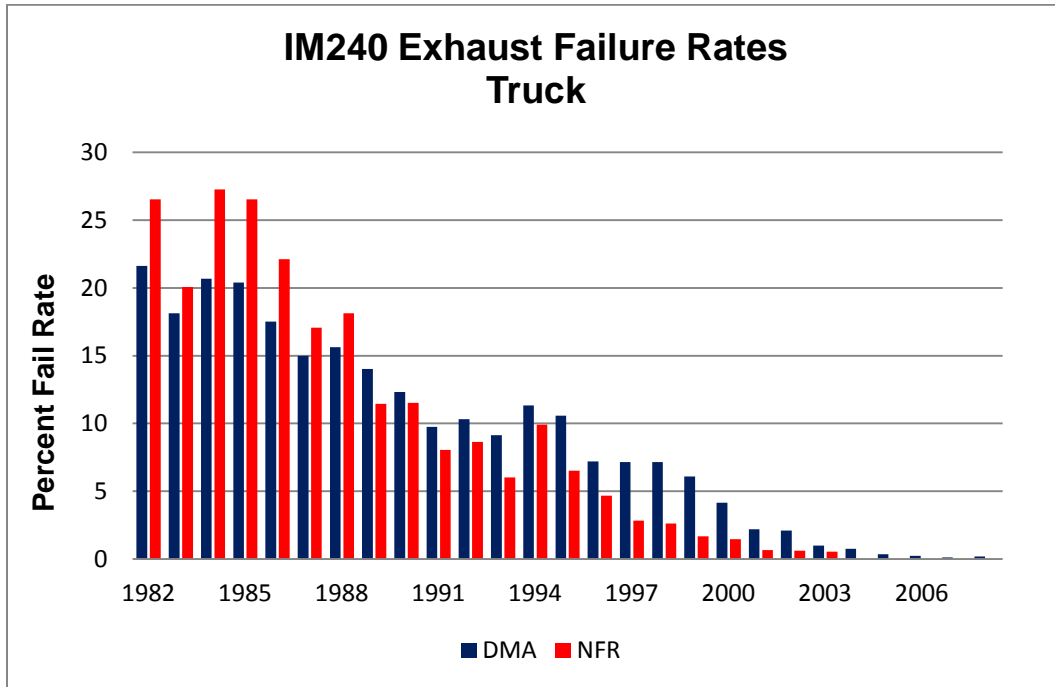


Figure 4



In terms of average model year emissions, Figure 5 through Figure 10 compare emissions of initial inspections for HC, CO, and NO_x for passing and failing vehicles by model year and program area.

Unlike overall and emission fail rates, average initial pass and fail emission results are generally similar for both areas with the NFR rates being slightly higher for both passing and failing vehicles. The higher initial emissions results in the NFR could be due to 2011 being the first year of the IM program within the NFR and/or more lenient cutpoints than the DMA.

As with failure rates shown previously, HC, CO, and NO_x emissions are highest for the earliest model year vehicles. As expected, average exhaust emissions drop significantly for newer model year vehicles, with the newest model years registering a fraction of the average emissions of the oldest vehicles, in terms of both passing and failing emissions.

Figure 5

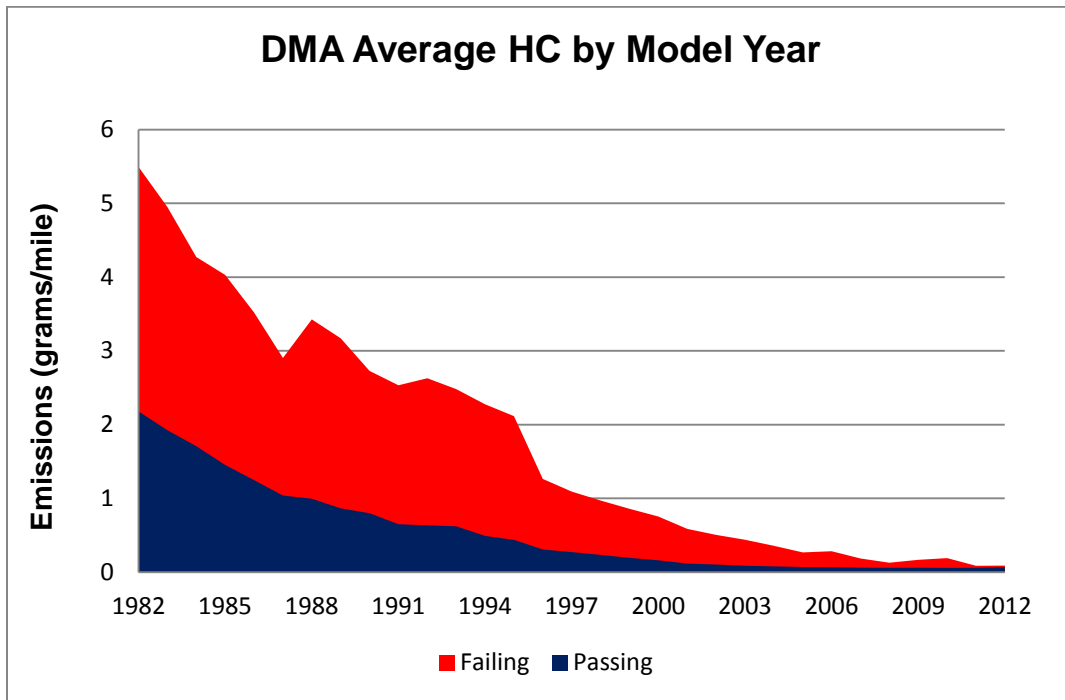


Figure 6

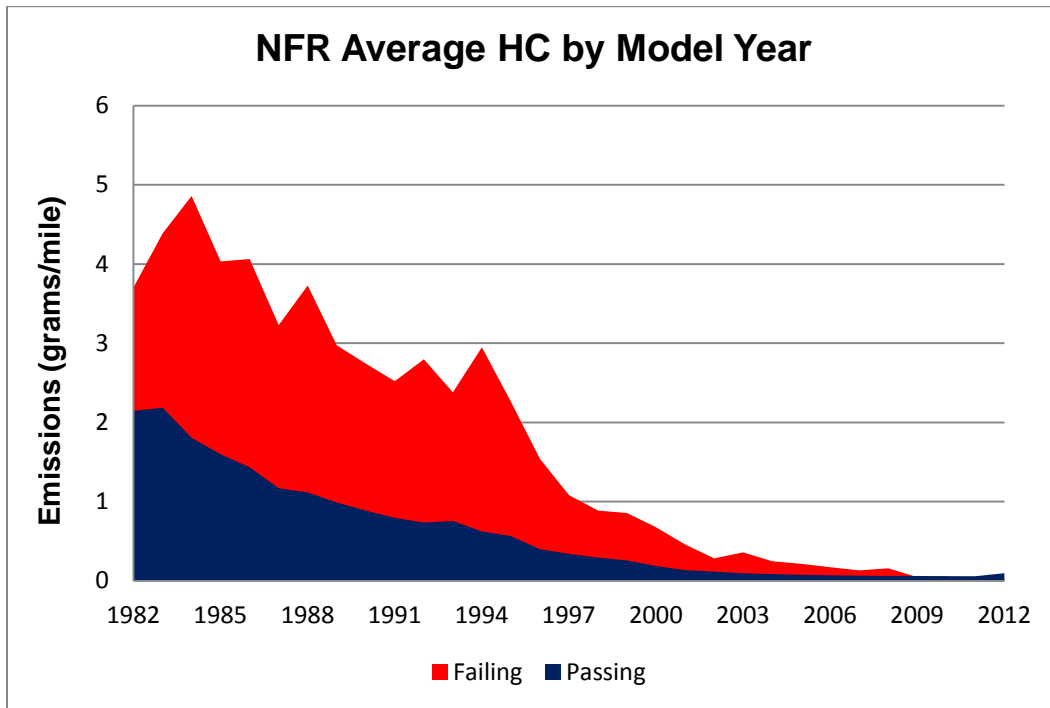


Figure 7

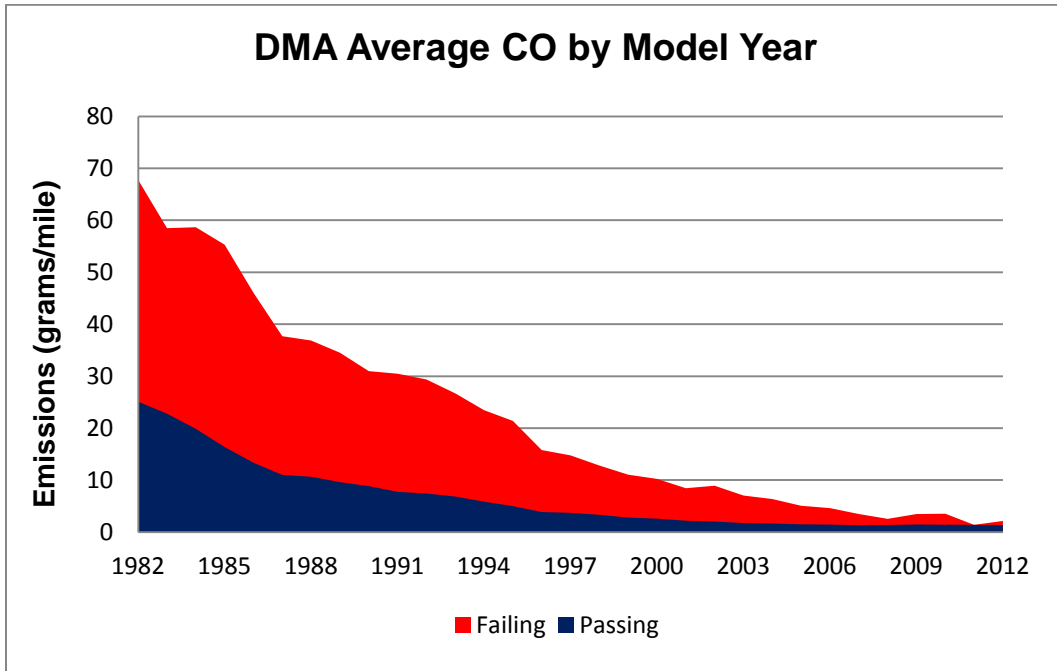


Figure 8

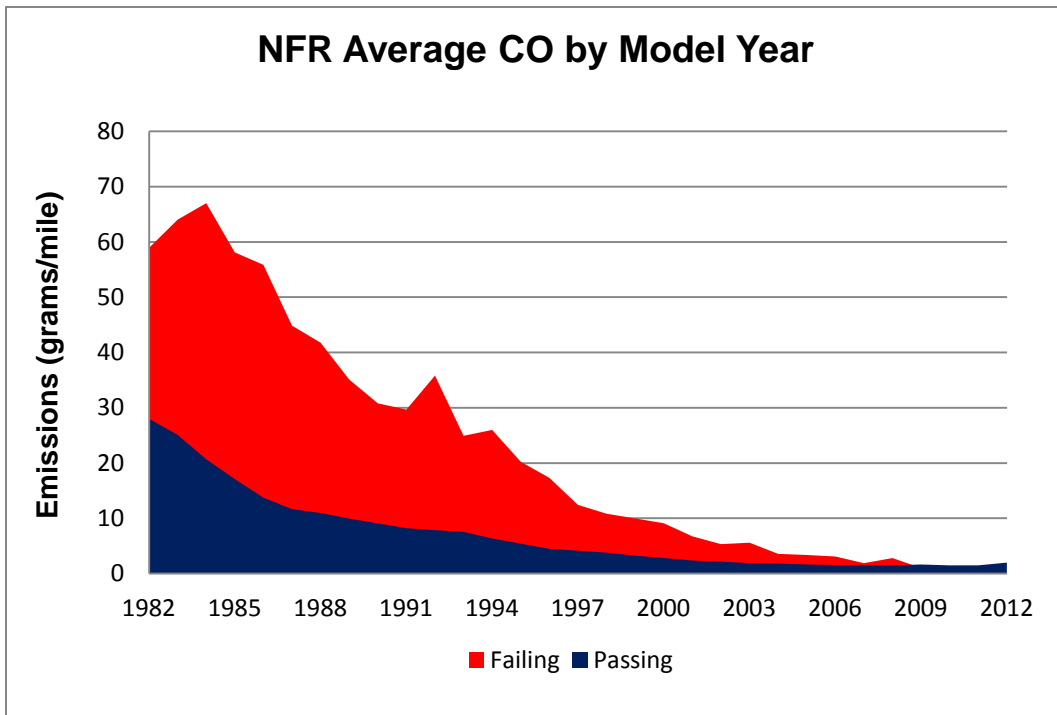


Figure 9

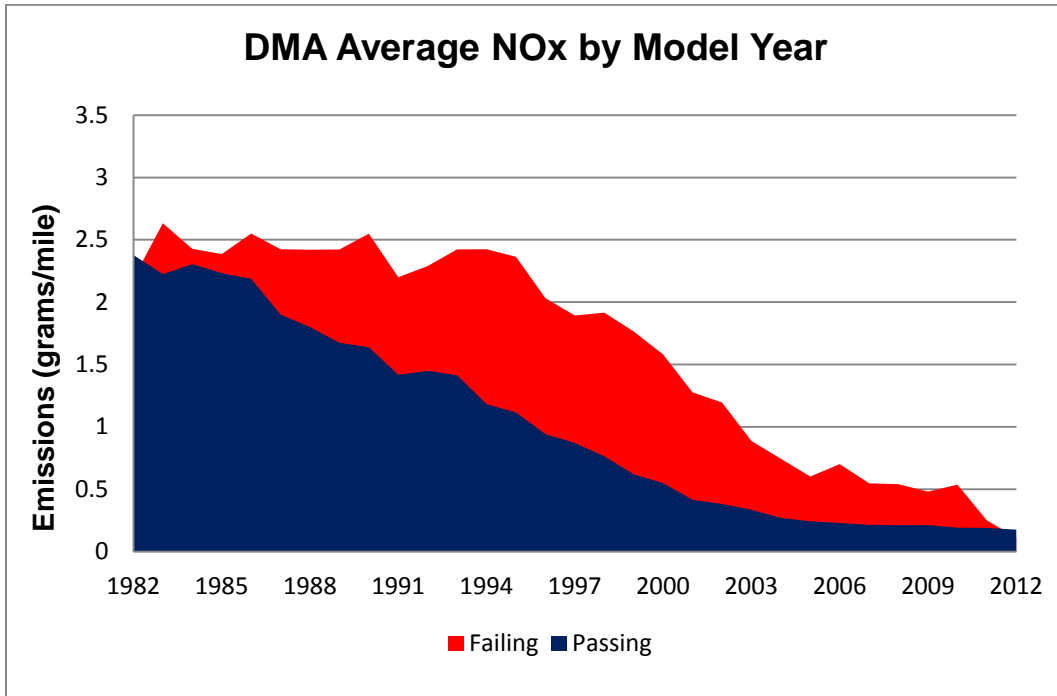
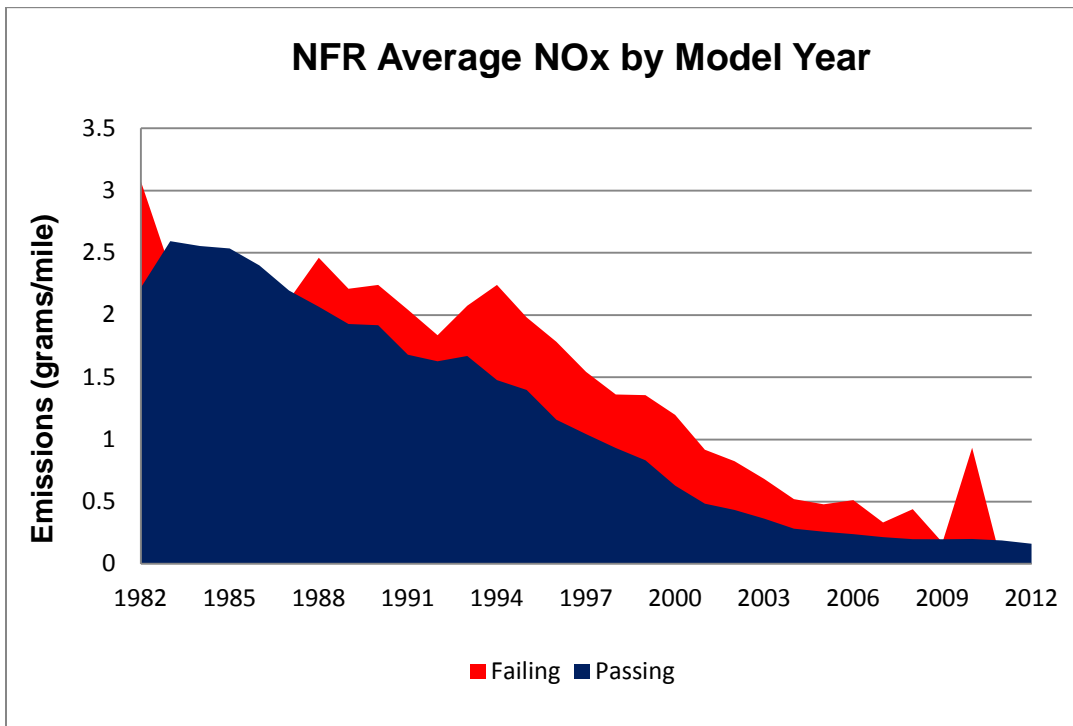


Figure 10



IM240 After-Repair Inspection Results

Vehicles that fail their exhaust emissions test generally have much higher emissions than those vehicles that pass the test. The improvement of emissions from repairing these vehicles generates the program’s air quality benefit. Table 1 below shows the average emissions from all vehicles that fail their initial IM240 inspections and pass a subsequent retest along with the percent reduction by pollutant by vehicle type and program area.

As this table illustrates, repaired vehicles generally have much lower emissions than broken vehicles. While the DMA generally averaged better repairs, especially for NOx, it must be remembered that the program was operating under more stringent emission standards, and automotive repair technicians have more experience repairing vehicles to meet enhanced IM program standards.

Table 1. Passed Retest Inspection Results

Program Area	Vehicle Type	Failed Initial Inspection			Passed Retest			Percent Reduction		
		HC gpm	CO gpm	NOx gpm	HC gpm	CO gpm	NOx gpm	HC	CO	NOx
DMA	Cars	1.60	19.91	1.79	0.36	4.12	0.86	68.31	72.39	39.99
	Trucks	2.07	24.20	2.44	0.58	6.53	1.33	59.75	62.71	32.64
	TOTAL	1.84	22.17	2.13	0.48	5.40	1.10	63.25	66.88	35.52
NFR	Cars	1.58	19.53	1.45	0.41	4.27	0.95	61.70	67.67	21.57
	Trucks	2.05	25.27	1.81	0.71	7.34	1.51	48.56	54.74	6.70
	TOTAL	1.85	22.79	1.65	0.58	6.04	1.27	53.33	59.58	11.98

OBD – MIL Inspection Results

Essentially all light-duty gasoline vehicles produced for sale in the US since the 1996 model year have special software and hardware installed called On-Board Diagnostics - Generation II or OBD II. This system incorporates unique devices, statistical models, and procedures to *predict* (as opposed to measure) the vehicle’s emissions. Once the system identifies a problem, a Malfunction Indicator Light (MIL) on the instrument panel is turned on and a fault code is stored in the vehicle’s computer memory indicating the likely problem area.

In 2011, there were 630,761 1996 and newer vehicles with matched IM240 and OBDII results. Of the 630,761 vehicles, 14,334 (2.3%) failed for excess exhaust emissions. Based on EPA’s readiness criteria, 10,628 of these failed vehicles were classified as “ready”, that is enough of the vehicles OBDII monitors were set to make a valid OBD pass/fail determination. Of these, 5,437 or 51.2% of the vehicles would have passed a hypothetical OBD II inspection test, though they are true exhaust emission failures and did fail their IM240 test.

IM240 Visual Inspection Results

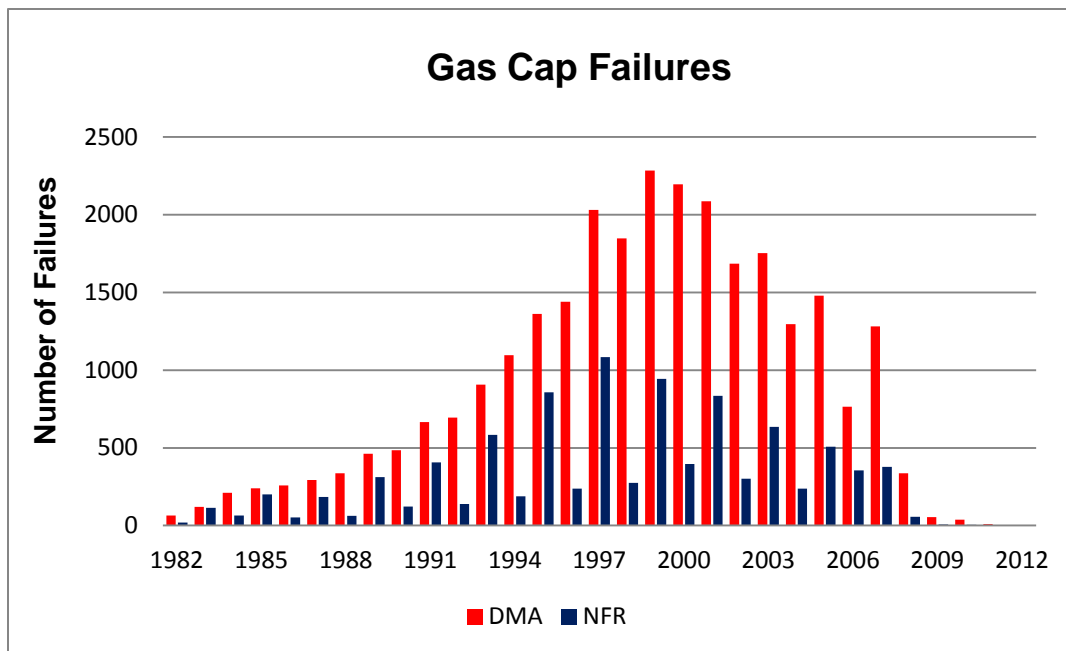
All 1975 and newer model year vehicles are subjected to a visual inspection of the secondary air injection system, catalytic converter, oxygen sensor, and gas cap. The older model year vehicles typically fail for a missing or tampered air injection system while vehicles that fail the catalytic converter and/or oxygen sensor tend to be newer model years. For 2011, there were 1,243 vehicles that failed for missing or improperly installed catalytic converter(s) 1,155 vehicles failed for missing or tampered air injection system, and 1,140 vehicles failed for missing oxygen sensor(s). Additionally, there were 1,224 vehicles that failed for missing gas cap.

IM240 Gas Cap Pressure Inspection Results

Another element of the inspection program is a functional test of the vehicle's gas cap. The cap is installed on a device that pressurizes the cap and measures the decay of that pressure over time. If the pressure decay exceeds the standard, the cap fails the test and motorists are required to install a functional cap.

The benefit of this test is the reduction of gasoline vapors venting to the atmosphere; a major factor in ground-level ozone formation. MOBILE 6.2 emissions modeling estimates the gas cap program removes approximately 1.73 tons of hydrocarbons per day. The relative percent contribution of mobile source ozone precursors released through gas cap or fuel system failures is expected to increase in the future as tailpipe emissions continue to be reduced through fleet turn over and the introduction of advanced emissions control technologies. Figure 11 below shows the number of gas cap pressure failures by model year.

Figure 11



Smoking Vehicles

Smoking vehicles, on an individual basis, tend to be gross emitters and are of concern not only to the state for air quality reasons, but also to nearby motorists exposed to these vehicles. To address smoking vehicles, the Division continues to operate a smoking vehicle hotline allowing motorists to report vehicles observed while driving that smoke. Once reported, the Division provides owners of the vehicles with information that will encourage them to voluntarily make necessary repairs.

Vehicle information reported on the hotline is transferred to IM240 lane inspectors alerting them that the vehicle they are inspecting has been reported as a smoking vehicle. As a consequence, if the vehicle is smoking at the time of the inspection it fails the emissions test. For calendar year 2011, there were a total of 1,057 vehicles that failed the visible smoke component of either the IM240 or idle tests. Of the 1,057 vehicles that failed the visible smoke component, 885 vehicles failed the IM240 test, and 172 failed the idle test.

Multiple IM240 Retests

Failing vehicles are required to undergo retesting after repair. Of the vehicles that fail their initial IM240 inspection, some will continue to fail after their initial repair. For calendar year 2011, 65,545 vehicles were given a first IM240 retest. Of these 65,545 initial IM failures given a retest; 16,272 vehicles again failed, resulting in a 24.82% IM240 first retest failure rate. While vehicles undergoing re-inspection after repair continue to show elevated failure rates compared to average vehicles undergoing initial testing, further analysis indicates that most vehicles that fail the IM240 test eventually are repaired sufficiently so that they eventually pass their inspection. For additional information on retest activity see “Retest Frequency Report” in Appendix A.

Waivers

A waiver is an emissions control document which satisfies the emissions requirement for a vehicle for one inspection cycle. There are three conditions that qualify a vehicle owner for a waiver, they are as follows:

- A repair waiver is issued for a vehicle which fails an emissions test and receives the amount of repairs defined in statute for the vehicle age and fuel type and, after receiving those repairs, fails a subsequent emissions test. This type of waiver is referenced in C.R.S. 42-4-306(7)(a)(II)(A).
- A diagnostic waiver may be issued for a vehicle if after failing a retest, at which point the repair cost limit has not been met, a complete and documented physical and functional diagnosis of the vehicle is performed at an emissions technical center indicates that no additional emissions-related repairs would be effective or needed. This type of waiver is referenced in C.R.S. 42-4-310(IX).

- An economic hardship waiver may be issued once in the lifetime for a vehicle if the owner of that vehicle has no other vehicles and is receiving a recognized form of economic assistance. This type of waiver is referenced in C.R.S. 42-4-306(7)(a)(II)(C).

Waivers are not issued for vehicles that have been tampered, missing emissions control equipment, or visibly smoking. In addition, vehicles that fail the evaporative systems inspection (i.e. gas cap pressure) are also not eligible to receive a waiver.

A vehicle owner can request a waiver by calling the Department of Revenue Motor Vehicle Emissions Program. As part of the waiver process, a vehicle may be evaluated by a Colorado Department of Public Health and Environment (CDPHE) emissions technician to both verify the aforementioned criteria and to make useful repair recommendations to the vehicle owner.

For additional information on waivers see the Department of Revenue section later in this report.

Unresolved Vehicles

A concern to any inspection program is unresolved vehicles, i.e., vehicles that undergo and fail an initial inspection, never receive a passing inspection and disappear from the system.

Approximately 15.0% of failing vehicles in 2011 did not receive a passing retest in that calendar year, though some if not many may have undergone repairs in the next 2012 calendar year.

An investigation of this issue was performed by the Division in February 2010. In this analysis, staff looked at the long term multi-year trend for vehicles that were unresolved for calendar year 2007. The results of the analysis indicated that very few vehicles from this group continued to operate within the AIR program area after failing and never passing an IM inspection.

The study showed that in 2007 there were 8,258 unresolved vehicles. Of these, over 2,400 eventually were repaired and passed an IM inspection or received an IM waiver, either in 2008 or 2009. Of the remaining 5,858 unresolved vehicles, only 825 were seen by remote sensing at some point during 2008 or 2009. This is only 1.9% of all failing vehicles in 2007. Based on these results, it appears that the majorities of the unresolved vehicles are either fixed, retired, move out-of-the-area, or are no longer operated. Only a limited fraction continue to operate, with the assumption being, that most of the remote sensing observed unresolved vehicles in 2007 were actually seen early on in the 2008-2009 time frame.

Idle Test Results

In Colorado, the enhanced IM Program requires that non-exempt 1981 model year and older vehicles undergo annual 2-speed idle testing. Certain heavy-duty vehicles newer than 1981 model year and fleet vehicles undergoing fleet inspections also undergo an idle inspection, though in the case of 1982 and newer model year vehicles, on a biennial basis. The idle inspection measures vehicle emissions at idle and raised idle. Only hydrocarbon and carbon monoxide emissions are measured with no engine load placed on the vehicle. Additionally, only vehicle exhaust concentration is measured, not actual mass of emissions.

Idle Test Results

In calendar year 2011, 79,818 vehicles underwent the two-speed idle inspection within the enhanced program area. Of these, 8,285 failed their initial test, resulting in a failure rate of 10.38%. Of these 8,285 failures, there were 6,423 vehicles that failed the exhaust portion, representing an exhaust emissions inspection failure rate of 8.05%. Figure 12 through Figure 14 show the failure rate percentage by model year along with the average emissions of passing and failing vehicles. NOx emissions are not measured as part of the idle test protocol. As with the IM240 portion of the test, most non-exhaust failures were due to missing or malfunctioning gas caps.

Figure 12

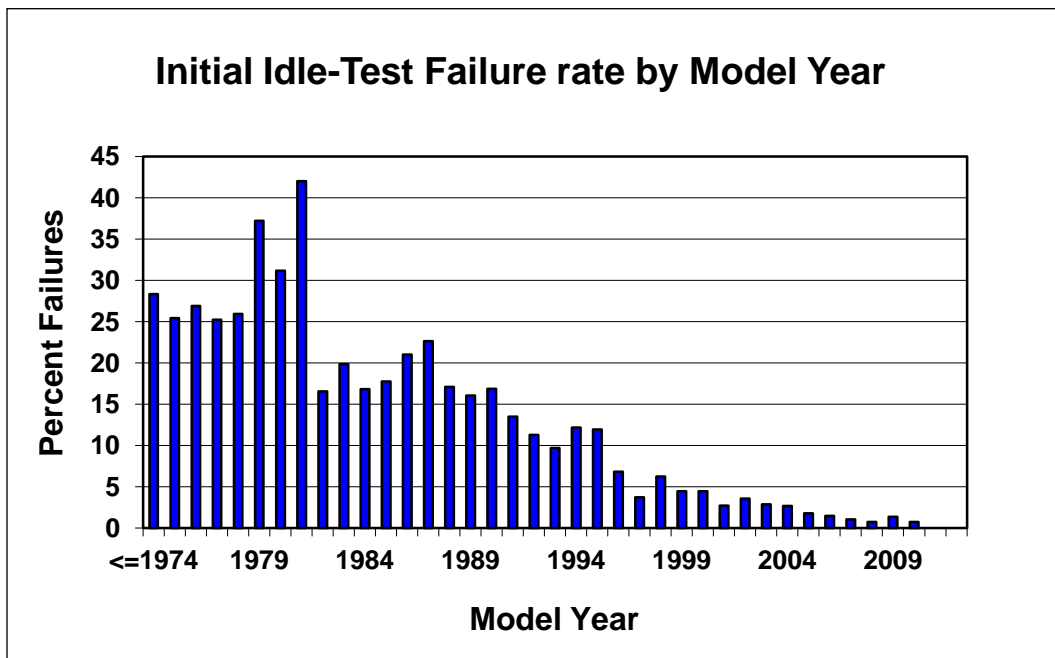


Figure 13

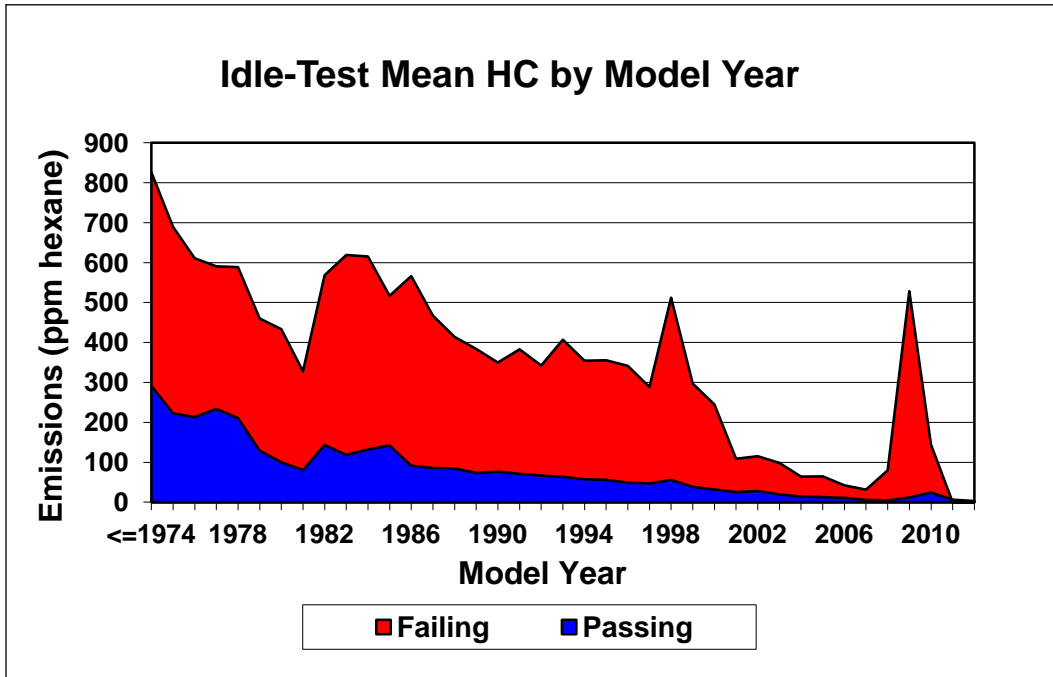
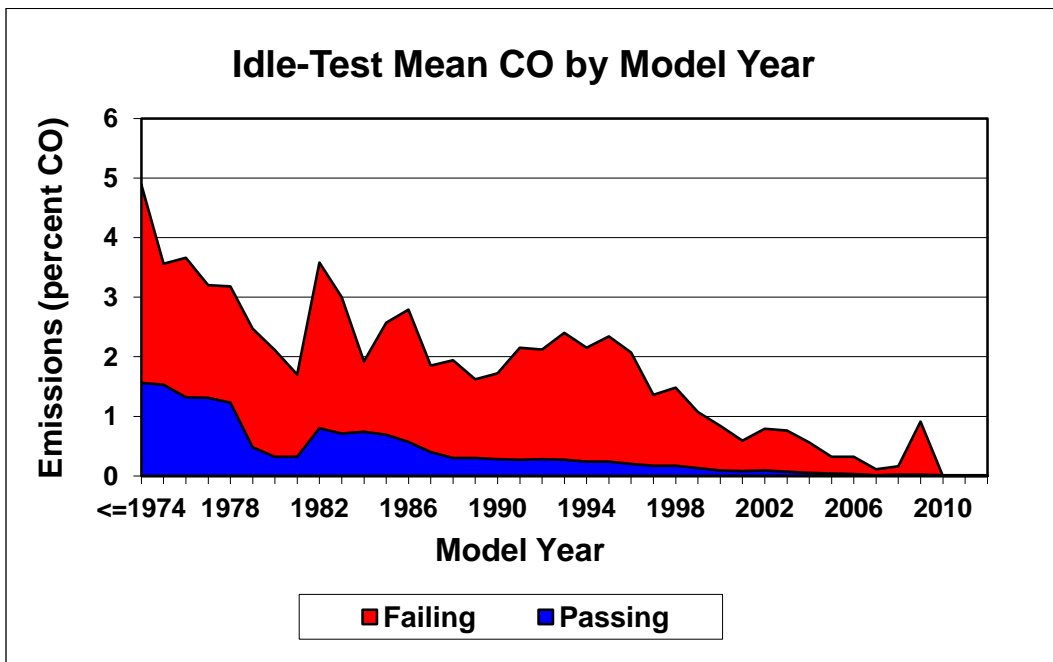


Figure 14



Idle Visual Inspection Results

Idle inspected vehicles undergo the same visual inspection as IM240 tested vehicles for 1975 and newer model year vehicles. Of the 79,818 vehicles idle-tested in calendar year 2011, 1,431 failed the visual portion of the test. Of these, 852 failed for the visual inspection only, with 579 failing both visual and exhaust components.

Remote Sensing Program Results

As part of the emissions inspection program, Colorado operates a remote sensing based Clean Screen Program. This program permits vehicles that are seen two or more times in a year, and meet certain rigorous emissions standards, to pass a remote sensing emissions test as an alternative to the standard emissions inspection. For this program, Envirotest, the state contractor, operates a total of 22 RSD systems/vans in the nine-county program area. In calendar year 2011, these vans operated a total of 24,878 active van-hours and generated approximately 7.7 million valid records.

As part of the State Implementation Plan (SIP), RSD vehicle observations cannot exceed more than 50% of the emissions testable fleet. An RSD vehicle observation is defined as any vehicle seen at least twice and qualifies to make a clean/dirty determination. For 2011 the overall RSD observed fraction of testable vehicles was 39.88%. This was based on 889,421 total IM eligible vehicles in the fleet with 354,716 unique eligible vehicles observed by RSD.

Cost Effectiveness of the Program

Calculation of Program Costs

The purpose of the IM Program is to improve air quality through reducing automotive emissions. One way to evaluate the effectiveness of the program is to analyze the program's cost effectiveness. Such analyses are dependent on the assumptions made in regards to the control strategy examined. Typically the state looks at the benefit of the program as measured in tons per day of emissions reduced and the program cost per day to operate, using appropriate methodology typically used in SIP development. A resulting cost per ton may then be obtained. For this analysis, the DMA and NFR areas are split out, since different emissions standards were utilized in each of these areas.

In looking at the cost of the program, the state examined the cost of the vehicle inspection, the number of vehicles inspected, registration fees connected to the operation of the IM Program, the average cost of repairs for vehicles undergoing repair, and the fuel economy benefit obtained from repairing broken vehicles.

Cost of Inspections

The total cost of inspection is defined as the cost of inspection on an individual vehicle basis times the number of vehicles undergoing paid inspections. The cost of an IM240 emissions inspection, and idle inspections for 1982 and newer vehicles is \$25 per inspection. Idle tests for 1981 and older are \$15 per test at the state contractor's, and a maximum of \$15 per test at independent pre-82 inspection stations. Failing vehicles are entitled to a free re-inspection within 10 calendar days. Subsequent inspections (third, fifth, etc.) are considered new paid inspections. Clean screen inspections are \$25 for eligible vehicles whose owners wish to partake in this program. A \$25 inspection fee is added to the vehicle's registration bill.

In 2011, there were 1,190,244 initial inspections conducted (IM240, idle, and redeemed clean screen tests). Of these, 990,311 were completed in the DMA and 199,933 were done in the NFR area. In terms of IM240 and 2-speed idle testing, there were 853,418 and 79,818 initial IM240 and idle tests conducted respectively, in the program area (710,436 IM240 and 62,890 idle tests in the DMA, and 142,982 IM240 and 16,928 2-speed idle tests in the NFR). Additionally there were 257,008 vehicles that completed the clean screen process, 216,985 in the DMA and 40,023 in the NFR area.

Assuming that certain failing vehicles will undergo more than one paid IM test before they receive a passing test, the Division estimates that the program's inspection costs amounted to \$31,150,810 in 2011 (\$25,927,660 and \$5,223,150 in DMA and NFR areas respectively). Tables 2 through 4 below contain overall inspection costs per type of inspection by program area.

Table 2. Overall Inspection Cost by Test Type

Test Type	Initial Tests	Est. Total Paid Tests	Cost
IM240	853,418	910,853	\$22,771,325
Idle	79,818	85,192	\$1,954,285
Clean Screen	257,008	257,008	\$6,425,200
TOTAL	1,190,244	1,253,053	\$31,150,810

Table 3. Overall Inspection Cost by Test Type (DMA)

Test Type	Initial Tests	Est. Total Paid Tests	Cost
IM240	710,436	758,248	\$18,956,200
Idle	62,890	67,122	\$1,546,835
Clean Screen	216,985	216,985	\$5,424,625
TOTAL	990,311	1,042,355	\$25,927,660

Table 4. Overall Inspection Cost by Test Type (NFR)

Test Type	Initial Tests	Est. Total Paid Tests	Cost
IM240	142,982	152,605	\$3,815,125
Idle	16,928	18,070	\$407,450
Clean Screen	40,023	40,023	\$1,000,575
TOTAL	199,933	210,698	\$5,223,150

Registration Fees

To help fund the operation, administration, as well as assisting motorists and industry with program outreach activities, and county registration activities, there is a \$2.20 vehicle fee added to IM Program area motor vehicle registration fees. This fee is shared between county clerks that administer vehicle registration renewals, and the Departments of Revenue and Public Health and Environment that design, administer, evaluate, and enforce the program.

With an estimated 2,689,026 IM eligible gas vehicles registered in the enhanced IM Program area, 2,205,678 in the DMA and 483,348 registered in the NFR, this equates to a registration fee cost of \$5,915,858 for the entire program.

Repair Costs

Vehicles identified as having excess emissions are required to undergo repair. Repair costs vary depending on the type of repair and the shop conducting the repair. To determine repair costs, the state collects data on the cost of repairs for failing vehicles. In 2011, the average emissions repair cost for IM240 failures was \$320.49, and \$240.41 for idle vehicles. Table 5 below breaks out the repair costs by test type and program area. For vehicles failing the gas cap pressure check element of the IM inspection, it was assumed that replacement gas caps cost \$10.00 each.

Table 5. Average Repair Costs by Test Type and Program Area

Program Area	IM240	Idle Tests		Gas Cap
		1982 and Newer	1981 and Older	
DMA	\$325.24	\$302.21	\$174.56	\$10.00
NFR	\$298.11	\$259.97	\$225.56	\$10.00
TOTAL	\$320.49	\$240.41		\$10.00

In 2011, 70,541 vehicles failed their initial IM240 inspection, 56,919 in the DMA and 13,622 in the NFR program areas. Out of these failures, there were 37,294 vehicles that either failed for excess emissions and/or the visual element of the inspection process. There were 37,331 that failed the gas cap pressure test. Some vehicles failed for both and are included in both excess emissions/visual failure group and gas cap failure group. For idle inspections, 8,285 failed their initial inspection, 5,866 in the DMA and 2,419 in the NFR. Of the 8,285 failures, 7,275 vehicles failed the exhaust and/or visual component of the inspection process with 1,445 failing the gas

cap pressure test. Again, some vehicles fell into both groups. Table 6 below details the overall repair cost by test type and program area.

Table 6. Total Repair Costs by Test Type and Program Area

Program Area	IM240				
	Excess Emissions/Visual		Gas Cap		TOTAL
	Count	Cost	Count	Cost	
DMA	32,390	\$10,534,524	27,780	\$277,800	\$10,812,324
NFR	4,903	\$1,462,528	9,551	\$95,510	\$1,558,038
TOTAL	37,293	\$11,997,052	37,331	\$373,310	\$12,370,362

Program Area	Idle				
	Excess Emissions/Visual		Gas Cap		TOTAL
	Count	Cost	Count	Cost	
DMA	5,228	\$1,184,749	859	\$8,590	\$1,193,339
NFR	2,047	\$481,423	586	\$5,860	\$487,283
TOTAL	7,275	\$1,666,172	1,445	\$14,450	\$1,680,622

Program Area	IM240 Total	Idle Total	TOTAL
DMA	\$10,812,324	\$1,193,339	\$12,005,663
NFR	\$1,558,038	\$487,283	\$2,045,321
TOTAL	\$12,370,362	\$1,680,622	\$14,050,984

The Division estimates that total repair costs of the IM Program in 2011 was \$14,050,984, broken down between \$12,005,663 for the DMA and \$2,045,321 for the NFR program areas.

Fuel Savings

Vehicles that received emissions related repairs demonstrated an estimated 5 to 10% fuel economy improvement depending on the age of the vehicle and what test type was used. IM240 failed vehicles showed in CDPHE laboratory grade FTP testing, an average 5.7% increase in fuel economy for 1996 and newer model year vehicles after proper repairs. Vehicles 1995 and older demonstrated an average fuel economy increase of 10.0% after similar emissions repairs.

Using these fuel savings estimates and assuming that the repairs on these vehicles will last two years, fixing these exhaust failures as well as gas cap failures, results in an estimated fuel savings

of 2,143,437 gallons of gasoline. At an average cost of \$3.45 per gallon it is thus estimated that vehicles undergoing emission repairs saved \$7,394,857 as a result of reduced fuel usage, \$6,346,773 in the DMA area and \$1,048,084 in the NFR program area.

Overall Program Costs

Overall program costs include inspection fees, vehicle registration fees, repair costs, and fuel economy savings. Table 7 details these costs, and the overall cost of the program.

Table 7. Overall Program Cost by Program Area

Program Area	Inspection Fees	Registration Fees	Repair Costs	Fuel Economy Savings	Total Program Costs
DMA	\$25,927,660	\$4,852,492	\$12,005,663	\$-6,346,773	\$36,439,042
NFR	\$5,223,150	\$1,063,366	\$2,045,321	\$-1,048,084	\$7,283,753
TOTAL	\$31,150,810	\$5,915,858	\$14,050,984	\$-7,394,857	\$43,722,795

Emission Benefits

The EPA approved MOBILE6.2 vehicle emissions model was used to model the expected emission reductions that would be expected from this program. This model is an official emissions model that has been used by states to develop State Implementation Plans. Alternative ways of showing program benefit, such as measured vehicle emissions results were presented previously in the body of this report.

MOBILE6.2 modeling indicates that the current AIR Program reduces hydrocarbon emissions by 7.9 tons per day, carbon monoxide emissions by 139.0 tons per day and nitrogen oxide emissions by 6.0 tons per day, consistent with previous evaluations, though slightly greater due to the NFR entering the program. Table 8 below details the overall emissions program benefit by pollutant and program area.

Both hydrocarbon and nitrogen oxide emissions are ozone precursors. Carbon monoxide is also a weak ozone precursor. The combined HC +1/60 CO + NOx ozone precursor reduction would be equal to 16.3 tons per day. For this analysis, projections assume the use of 7.8 lb. Reid Vapor Pressure (RVP) gasoline with a 100% market share for ethanol-blended gasoline.

Table 8. Emissions Benefit by Pollutant and Program Area

Program Area	HC tpd	CO tpd	NOx tpd	HC + (1/60)CO + NOx
DMA	6.97	122.03	5.72	14.73
NFR	0.94	16.96	0.31	1.53
TOTAL	7.91	138.98	6.03	16.25

Cost Effectiveness

The programs cost effectiveness is the ratio of the cost of the program to program benefit. As stated, the Division calculates that the entire program cost was approximately \$43.723 million in 2011. This cost includes inspection costs, repair costs, and registration renewal fees used to fund administrative costs. It does not include the convenience expense of motorists' time or their mileage costs. For the DMA this cost is calculated to be \$36.439 million, and for the NFR area it is calculated to be \$7.284 million.

The Division estimates the cost effectiveness of the inspection program at \$7,370 per ton of removed ozone precursors. For this analysis, the full benefit of NO_x and HC, and 1/60 benefit of CO are added together. A reduced CO benefit is used because of the lower reactivity of CO for ozone formation. For carbon monoxide the cost effectiveness is estimated at \$862 per ton. Table 9 below gives the specific breakdown by pollutant and program area. Additionally, while no credit is taken here, the program also substantially reduces particulates and air toxic emissions from motor vehicles.

For the DMA, the calculated program cost was approximately \$36.439 million for 2011. This equates to a cost effectiveness of \$6,779 per ton of removed ozone precursors, lower than the full program average. As a mature program, this region uses fully implemented stringent emissions cutpoints, resulting in greater emissions benefit and cost benefit.

In 2011, the NFR program utilized introductory emissions cutpoints. This was by design to allow the repair industry and the motoring public time to gain experience with the new program and its expectations. The repair industry also had the opportunity to experience repairing the more demanding IM240 failing vehicles (especially NO_x failures), something it had not done in the past when this area was subject to a basic idle program. As such it was fully expected that this area would have less IM benefit and cost effectiveness, especially for NO_x emissions. In 2012, the NFR program area is using these same cutpoints, with improved benefits to be expected.

Table 9. Program Cost Effectiveness by Pollutant and Program Area

Program Area	Cost / Benefit (\$/ton)			
	HC	CO	NO _x	HC+(160)CO+NO _x
DMA	\$14,327	\$818	\$17,441	\$6,779
NFR	\$21,219	\$1,177	\$65,502	\$13,062
TOTAL	\$15,146	\$862	\$19,870	\$7,370

Annual Report from the Colorado Department of Revenue

The Colorado Department of Revenue (DOR) continues to operate the enhanced Colorado Vehicle Emissions Inspection and Maintenance (I/M) Program which has been in place since 1995. During 2011, DOR maintained quality assurance, audit, licensing and enforcement activities consistent with Colorado Revised Statutes (C.R.S.) and Rule.

2011 Audit Results

Pursuant to C.R.S., DOR oversees an ongoing quality assurance program. The objective of the quality assurance program is to discover, correct, and prevent fraud, as well as to ensure proper calibration of emissions test equipment and adherence to proper testing procedures.

Record Audits

DOR performed record audits on all contractor enhanced inspection centers and independent inspection-only facilities. Audit methods were used to identify and correct anomalies in the vehicle inspection database as well as prompt additional equipment audits. The record audit process included an evaluation of approximately 9.7 million registration records; this was to ensure a reasonable level of record accuracy was maintained at county offices.

Performance Audits

DOR executed overt performance audits at least every 90 days for each test lane at each enhanced inspection center. Performance audits were conducted contemporaneously with 90-day equipment audits, resulting in 1179 performance audits completed. In addition, 82 overt performance evaluations were completed at independent inspection-only facilities and fleet testing facilities.

Equipment Audits

Lane equipment audits were performed at a minimum of every 90 days on all contractor and independent inspection-only facility lanes, and every 180 days on all fleet inspection facility lanes.

During 2011, 393 lane equipment audits were performed on 97 contractor-operated enhanced inspection lanes, 14 equipment audits performed at independent inspection-only stations, and 23 equipment audits performed at fleet-inspection stations. As a result of 393 lane equipment audits on contractor-operated lanes, there were 129 initial audit deficiencies, 10 of which resulted in the suspension of a testing lane. Upon verification of repair and a passing audit, failing lanes were released within two days of being suspended. The remaining initial audit deficiencies were corrected at the time of the audit and returned to service the same day. There were no documented audit deficiencies at independent or fleet facilities in 2011. Table 10 categorizes the initial audit failures by the equipment category to which the failure was related.

Table 10. Audit failures by equipment category

2011 Initial Equipment Audit Failures by Category	
Analyzer	101
Dynamometer	25
Gap Cap Testing Equipment	3

Covert Audits

Pursuant to C.R.S., all enhanced inspection centers were subjected to covert audits at least twice per year for each testing lane. All covert vehicles used in the audit process were tampered to fail the visual emissions component inspection. Possible tampering violations included but were not limited to; removed or tampered catalytic converters, air injection systems, oxygen sensors, and check engine lights. Throughout 2011, 264 covert inspections were conducted at enhanced inspection centers resulting in 200 tests conducted correctly, and 64 tests conducted improperly. There were multiple tests in which more than one violation may have been issued; this resulted in 57 emissions control component violations and 16 procedural violations. Table 11 categorizes the 57 tampered emission control components and the number of times the components were incorrectly identified. In addition, 35 of the 64 improper tests, the failing vehicle received passing results.

Table 11. Emission components incorrectly identified as a result of covert vehicles

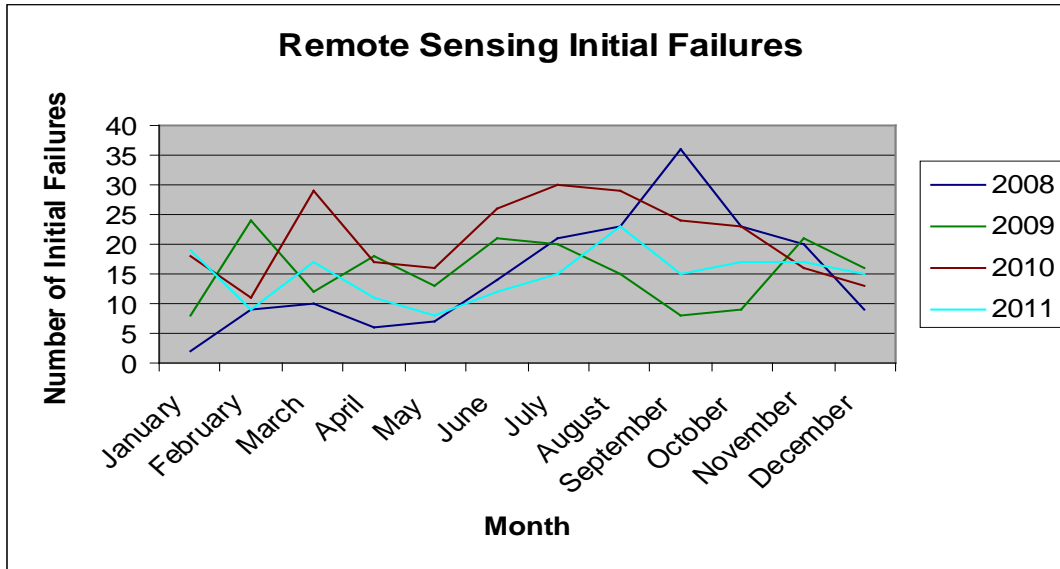
Emission Components Tampered	Number of Times Incorrectly Identified
Oxygen Sensor	30
Catalytic Converter	2
Air Injection System	11
Check Engine Light	14

*Covert inspection results may have had multiple components incorrectly identified.

Remote Sensing Audits

Remote Sensing (a.k.a. Rapid Screen, Clean Screen) mobile emissions testing equipment audits were also performed by DOR for quality assurance purposes. A Phase I audit included nine gas readings from three different known gas blends. In the event a gas reading was outside the allowable tolerance, a Phase II audit was initiated. A Phase II audit included an additional 6 gas readings from the gas blend that was outside the allowable tolerance. There were 1,209 audits performed in 2011, resulting in 178 Phase I failures or a 14.7% initial failure rate. Of the 178 failures, all but 7 were immediately returned to service after passing a phase II audit. Figure 14 shows the number of initial (Phase I) remote sensing device audit failures by month for 2011.

Figure 14



* The overall audit result is not a failure unless a secondary audit (Phase II) also fails.

2011 Enforcement Results

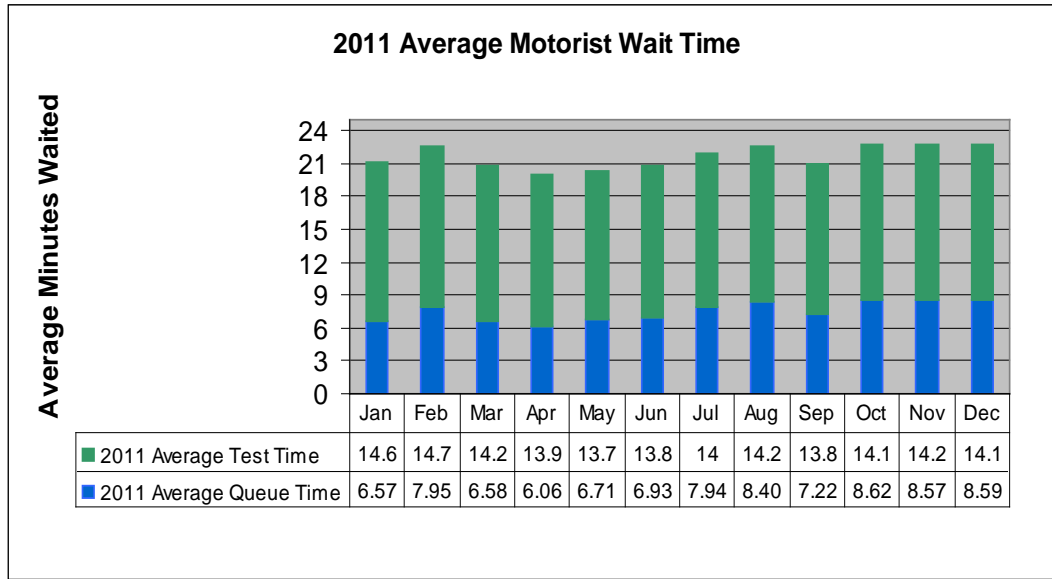
Hearings & Fines

In 2011, 135 hearings were conducted as a result of improper vehicle emission inspections. There were 57 inspectors placed on probation, and 10 inspector licenses revoked. Fines totaling \$79,000 were collected as a result of improper vehicle inspections.

Wait time violations in the amount of \$66,200 were collected when the motorist wait time at the contractor inspection centers exceeded 20 minutes averaged over a 2-hour period. The wait time calculation includes time waited in the queue and test time, whichever is greater, and the days of the month when staffing levels are below 78%. The fines assessed were consistent with C.R.S and the terms of the contract. Figure 15 shows the average motorist wait time by month for 2011.

All fines collected in 2011 totaled \$145,200.

Figure 15



Complaints

A total of 389 customer complaints were opened against inspection stations operated by the contractor. DOR involvement in the complaint mitigation process resulted in \$58,308.21 in refunds to consumers. In addition, DOR responded to 46 complaints against independent inspection stations and auto dealerships. A total of \$28,807.11 was refunded to consumers from those proceedings. Table 12 categorizes the 435 total complaints by category.

Table 12. Complaints by category

2011 Complaints opened by Category	
Vehicle Damage	358
Procedural Claims	56
Customer Service Claims	21

Waivers

In 2011, 941 waiver applications were submitted and processed by DOR. There were 377 repair waivers and 89 economic hardship waivers issued. Figure 16 shows the total amount of waivers requested and issued over an eight-year period. The following program changes directly impacted the amount of waiver applications processed by DOR:

- January 2007: the basic emissions programs in El Paso, Larimer and Weld counties were decommissioned.
- May 2008: the allowable emission standards were tightened resulting in a higher vehicle emissions failure rate.
- November 2010: portions of Larimer and Weld counties were added to the enhanced emissions program.

Figure 16

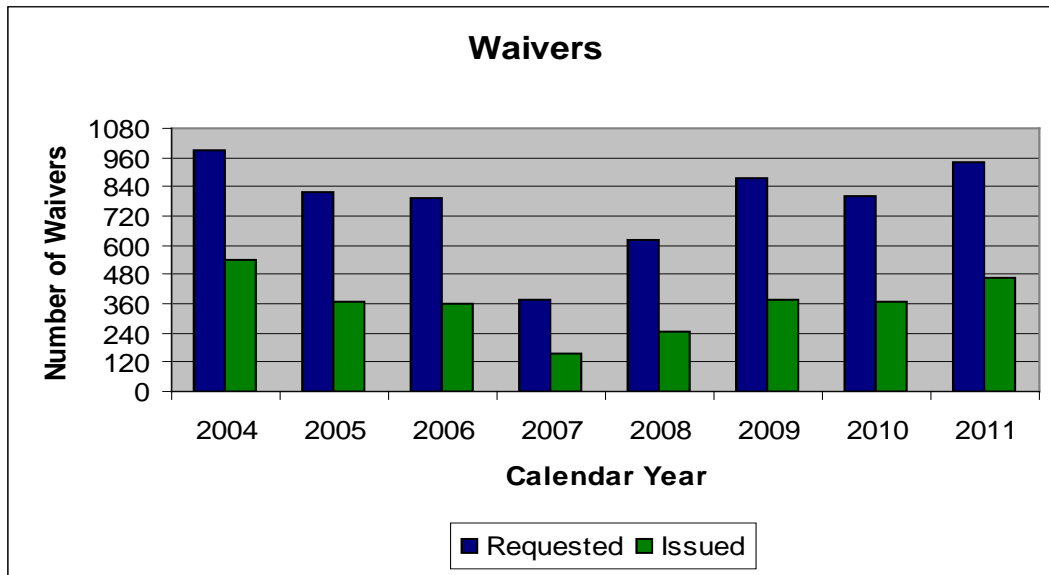


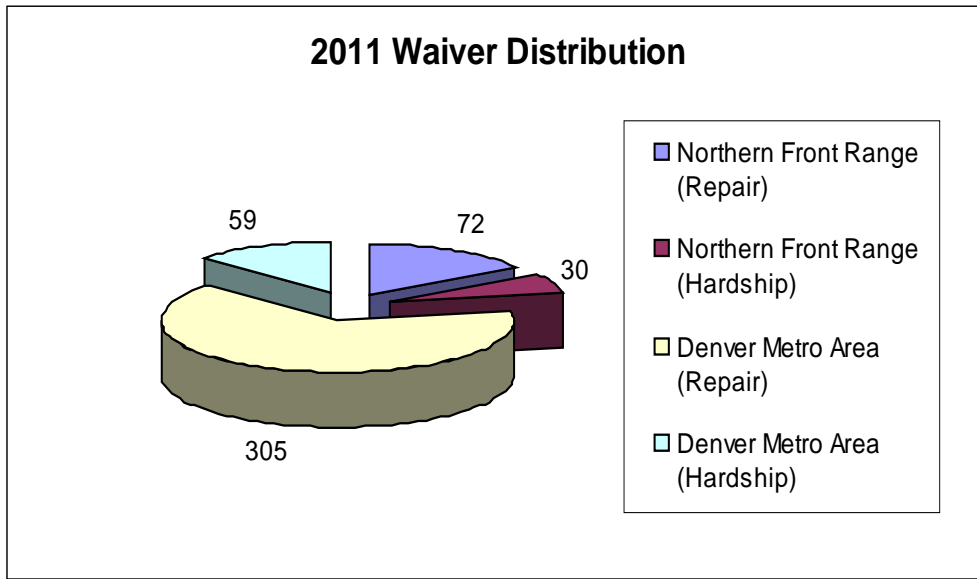
Figure 17 shows the distribution of waivers issued by the Denver metro area and Northern Front Range by waiver type in 2011.

Major factors in the amount of waiver requests are the vehicle emissions failure rate and the state the economic environment.

The most common reasons a waiver was not issued are as follows:

- **Waiver not pursued** - after completing the waiver application, the vehicle owner withdraws the request or does not complete the process.
- **Vehicle passed the inspection** - after requesting a waiver, additional repairs were made resulting in a passing emissions test. Vehicle owners are encouraged to utilize the CDPHE emissions technical centers for a free diagnosis on their vehicle. Often the technicians are able to assist the owner and recommend minor repairs that allow the vehicle to pass the emissions inspection.
- **Improper repairs to the vehicle** – repairs were performed that did not address the cause of the emissions failure.
- **Vehicle is tampered or emitting smoke** - when presented for a waiver, the vehicle was not equipped with the manufacture required emission control equipment or was emitting visual opacity.
- **Minimum waiver limits for dollars spent to repair the vehicle had not been met** - vehicle owner had not incurred the minimum \$715 in repair costs to bring the vehicle into compliance

Figure 17



2011 Licensing Results

Pursuant to C.R.S. 42-4-305, DOR is responsible for issuing biennial inspection licenses to independent, fleet, and contracted emissions inspection stations as well as the inspectors who work in those stations. In addition, the Department issues biennial licenses to Rapid Screen testing devices and the inspectors who operate the testing devices. All Rapid Screen testing site licenses are issued annually as testing sites require frequent review due to road configuration changes.

Table 13 shows the number of initial and renewed licenses by license type for 2011.

Table 13. License Renewal

License Type	Number of Initial Licenses	Number of Licenses Renewed
Independent Inspector	0	4
Fleet Inspector	19	52
Contractor employed Inspectors	88	66
RSD Inspector	3	8
Independent Station	0	2
Fleet Station	1	14
Contractor Station	0	14
RSD Device	2	0
RSD Site	30	149
Total	113	160

APPENDIX A

ADDITIONAL REPORTS

In addition to this report, the following detailed data reports are available in the appendix of this document:

Report	Content
A-1 I/M240 Initial Inspection Report	Initial inspection pass/fail statistics including average emissions results for overall total, passing and failing inspections by model year and vehicle class.
A-2 I/M240 Initial Failure Report	Initial inspection failure statistics including average emissions results for inspections which failed for both exhaust and visual components, exhaust only, and visual only by model year and vehicle class.
A-3 I/M240 Initial Exhaust Failure Report	Initial exhaust failure statistics by model year, vehicle class, and pollutant.
A-4 I/M240 Initial Visual Failure Report (Mandatory)	Initial visual mandatory failure statistics by model year, vehicle class, and emissions component.
A-5 I/M240 Initial Visual Failure Report (Advisory)	Initial visual advisory failure statistics by model year, vehicle class, and emissions component.
A-6 I/M240 Retest Pass Reduction Report	Passing retest inspection statistics by model year and vehicle class.
A-7 I/M240 Retest Frequency Report	Retest inspection statistics.
A-8 I/M240 Fleet Characterization Summary Report – Initial Inspection Component	Initial inspection pass/fail statistics from vehicles that passed or failed with a final result of pass or waiver including average emissions results by model year and vehicle class.
A-9 I/M240 Fleet Characterization Summary Report – Final Inspection Component	Final inspection statistics from vehicles that passed or failed with a final result of pass or waiver including average emissions results by model year and vehicle class.
A-10 I/M240 Fleet Characterization	Emissions reduction statistics

Summary Report – Emissions Reduction Component	from vehicles that passed or failed with a final result of pass or waiver by model year and vehicle class.
A-11 Valid Initial Idle Inspections Enhanced Area	Initial idle inspection pass/fail statistics including average emissions results for passing and failing inspections by model year.
A-12 Valid Initial Idle Failure Report Inspections Enhanced Area	Initial idle inspection failure statistics including average emissions results for inspections which failed for both exhaust and visual components, exhaust only, and visual only by model year.
A-13 I/M Eligible Vehicle Report, Evaluated Vehicles	Clean Screen observations performed in 2010 by model year and vehicle type.

A-1

I/M240 Initial Inspection Report

Initial Inspection Report (V1.01)

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
1982	LDGV	352	2.3678	27.4895	2.0436	277	78.69%	1.6309	19.5835	2.0616	75	21.31%	5.0892	56.6889	1.9772
	LDGT1	298	3.4936	43.1158	2.6198	195	65.44%	2.8690	31.2740	2.7331	103	34.56%	4.6762	65.5346	2.4054
	LDGT2	93	4.4155	58.4166	2.7421	47	50.54%	2.5201	34.5674	2.6218	46	49.46%	6.3520	82.7842	2.8650
1982 Total		743	3.0756	37.6279	2.3621	519	69.85%	2.1766	25.3328	2.3646	224	30.15%	5.1586	66.1152	2.3564
1983	LDGV	809	1.9646	25.9378	1.9827	611	75.53%	1.2986	16.4682	1.9549	198	24.47%	4.0198	55.1595	2.0684
	LDGT1	633	3.5600	40.9062	2.6883	391	61.77%	2.7891	30.2417	2.6781	242	38.23%	4.8056	58.1369	2.7048
	LDGT2	261	4.0405	51.7212	2.8789	148	56.70%	2.6965	33.3353	2.8127	113	43.30%	5.8006	75.8020	2.9657
1983 Total		1703	2.8758	35.4530	2.3823	1150	67.53%	1.9853	23.3219	2.3112	553	32.47%	4.7276	60.6805	2.5302
1984	LDGV	1047	1.8771	23.2637	1.9823	792	75.64%	1.2861	14.5454	1.9946	255	24.36%	3.7127	50.3416	1.9442
	LDGT1	756	2.9779	37.8652	2.5821	498	65.87%	2.2506	25.6688	2.6402	258	34.13%	4.3819	61.4072	2.4700
	LDGT2	299	3.6500	48.9005	3.0679	172	57.53%	2.1593	28.2627	2.9735	127	42.47%	5.6689	76.8508	3.1956
1984 Total		2102	2.5252	32.1619	2.3524	1462	69.55%	1.7174	19.9481	2.3297	640	30.45%	4.3706	60.0629	2.4045
1985	LDGV	2026	1.5796	18.6232	1.9310	1573	77.64%	1.0484	11.5678	1.9382	453	22.36%	3.4242	43.1224	1.9057
	LDGT1	1564	2.6868	33.8968	2.6507	1083	69.25%	1.9946	21.8315	2.6999	481	30.75%	4.2451	61.0624	2.5399
	LDGT2	530	3.2919	46.4099	2.8403	277	52.26%	1.9961	24.1012	2.8372	253	47.74%	4.7105	70.8348	2.8436
1985 Total		4120	2.2202	27.9957	2.3211	2933	71.19%	1.4873	16.5413	2.3044	1187	28.81%	4.0310	56.2988	2.3626
1986	LDGV	1937	1.2194	14.6695	1.8429	1586	81.88%	0.8680	10.0076	1.7912	351	18.12%	2.8069	35.7343	2.0767
	LDGT1	1490	2.2103	24.0966	2.6706	1121	75.23%	1.7275	17.0086	2.6635	369	24.77%	3.6770	45.6295	2.6922
	LDGT2	401	3.1798	43.5358	2.8422	225	56.11%	1.7431	19.1149	2.8504	176	43.89%	5.0164	74.7557	2.8317
1986 Total		3828	1.8104	21.3627	2.2698	2932	76.59%	1.2638	13.3832	2.2060	896	23.41%	3.5993	47.4744	2.4785
1987	LDGV	3406	1.1050	13.2239	1.7521	2884	84.67%	0.8296	9.2754	1.7061	522	15.33%	2.6269	35.0393	2.0064
	LDGT1	2408	1.7857	20.8226	2.2197	1819	75.54%	1.3302	13.7142	2.1735	589	24.46%	3.1925	42.7753	2.3624
	LDGT2	690	2.1015	22.3795	2.8589	479	69.42%	1.5201	12.7941	2.7786	211	30.58%	3.4214	44.1396	3.0414
1987 Total		6504	1.4627	17.0085	2.0427	5182	79.67%	1.0691	11.1587	1.9693	1322	20.33%	3.0057	39.9384	2.3302
1988	LDGV	2921	1.1037	13.4140	1.6402	2427	83.09%	0.7638	9.0068	1.5868	494	16.91%	2.7737	35.0665	1.9026
	LDGT1	2154	1.7978	18.9653	2.1059	1682	78.09%	1.2469	12.6825	1.9827	472	21.91%	3.7611	41.3542	2.5446
	LDGT2	817	2.1513	18.0429	2.6156	593	72.58%	1.3183	11.8284	2.3474	224	27.42%	4.3566	34.4946	3.3258
1988 Total		5892	1.5027	16.0853	1.9457	4702	79.80%	1.0065	10.6775	1.8244	1190	20.20%	3.4633	37.4528	2.4251
1989	LDGV	5635	0.9425	11.5635	1.5226	4828	85.68%	0.6657	8.2031	1.4777	807	14.32%	2.5986	31.6674	1.7914
	LDGT1	3800	1.6100	17.3648	2.0338	3010	79.21%	1.1362	11.5659	1.9019	790	20.79%	3.4150	39.4594	2.5363
	LDGT2	1396	1.8046	15.5771	2.6495	1078	77.22%	1.2545	11.1692	2.4376	318	22.78%	3.6696	30.5195	3.3677
1989 Total		10831	1.2878	14.1162	1.8472	8916	82.32%	0.8957	9.6970	1.7370	1915	17.68%	3.1132	34.6912	2.3605
1990	LDGV	6226	0.8902	10.7991	1.5369	5382	86.44%	0.6466	7.7877	1.4379	844	13.56%	2.4435	30.0019	2.1685
	LDGT1	2882	1.4192	14.8420	2.0631	2315	80.33%	1.0186	10.6050	1.9164	567	19.67%	3.0551	32.1414	2.6620
	LDGT2	1104	1.5990	15.2421	2.5937	873	79.08%	1.2339	10.9352	2.3876	231	20.92%	2.9788	31.5186	3.3725
1990 Total		10212	1.1161	12.4204	1.7997	8570	83.92%	0.8069	8.8694	1.6639	1642	16.08%	2.7300	30.9541	2.5083
1991	LDGV	10404	0.7807	9.6944	1.4254	9039	86.88%	0.5518	6.8241	1.3430	1365	13.12%	2.2960	28.7012	1.9705
	LDGT1	5608	1.1171	12.9133	1.6682	4739	84.50%	0.8443	9.2864	1.5747	869	15.50%	2.6049	32.6924	2.1781
	LDGT2	1484	1.5497	14.5292	2.3117	1158	78.03%	1.0538	10.0805	2.1489	326	21.97%	3.3109	30.3319	2.8901
1991 Total		17496	0.9537	11.1363	1.5784	14936	85.37%	0.6836	7.8578	1.4790	2560	14.63%	2.5301	30.2637	2.1581
1992	LDGV	9161	0.7797	9.6102	1.3687	7829	85.46%	0.5058	6.2574	1.2770	1332	14.54%	2.3899	29.3170	1.9073

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
	LDGT1	4207	1.0526	12.0623	1.7335	3578	85.05%	0.7830	8.8674	1.6212	629	14.95%	2.5859	30.2366	2.3728
	LDGT2	1622	1.7068	16.0467	2.4332	1243	76.63%	1.1131	11.0423	2.2016	379	23.37%	3.6537	32.4593	3.1930
1992 Total		14990	0.9566	10.9949	1.5863	12650	84.39%	0.6439	7.4658	1.4652	2340	15.61%	2.6473	30.0731	2.2407
1993	LDGV	14197	0.7004	8.2615	1.3648	12364	87.09%	0.4875	5.6885	1.2669	1833	12.91%	2.1364	25.6175	2.0253
	LDGT1	8502	1.0189	10.8022	1.7761	7370	86.69%	0.7896	8.3071	1.6664	1132	13.31%	2.5120	27.0468	2.4899
	LDGT2	2779	1.6308	14.0367	2.2278	2138	76.93%	1.1400	10.2573	2.0141	641	23.07%	3.2679	26.6426	2.9403
1993 Total		25478	0.9082	9.7393	1.5962	21872	85.85%	0.6531	7.0174	1.4745	3606	14.15%	2.4555	26.2484	2.3338
1994	LDGV	13448	0.5735	6.7027	1.0842	11892	88.43%	0.3745	4.8992	0.9889	1556	11.57%	2.0937	20.4864	1.8130
	LDGT1	8770	0.8491	9.5324	1.5590	7541	85.99%	0.6050	6.7769	1.3788	1229	14.01%	2.3466	26.4397	2.6650
	LDGT2	3483	1.2378	11.9252	2.0144	2689	77.20%	0.7736	7.8344	1.6726	794	22.80%	2.8098	25.7793	3.1720
1994 Total		25701	0.7575	8.3761	1.3723	22122	86.07%	0.5016	5.8961	1.2049	3579	13.93%	2.3394	23.7049	2.4071
1995	LDGV	21643	0.5105	5.8414	1.0006	19346	89.39%	0.3566	4.3071	0.9170	2297	10.61%	1.8070	18.7632	1.7046
	LDGT1	11963	0.7589	7.7841	1.5687	10357	86.58%	0.5359	5.5557	1.4091	1606	13.42%	2.1972	22.1548	2.5974
	LDGT2	5833	1.2075	11.0506	2.0198	4546	77.94%	0.7806	7.4025	1.7859	1287	22.06%	2.7157	23.9366	2.8457
1995 Total		39439	0.6890	7.2011	1.3237	34249	86.84%	0.4671	5.0956	1.1812	5190	13.16%	2.1531	21.0956	2.2639
1996	LDGV	17469	0.3770	4.8595	0.8411	15706	89.91%	0.2810	3.6455	0.7544	1763	10.09%	1.2327	15.6753	1.6134
	LDGT1	10072	0.4465	5.3662	1.3743	8781	87.18%	0.3272	3.9906	1.2256	1291	12.82%	1.2578	14.7226	2.3857
	LDGT2	3970	0.6128	7.2150	1.4043	3347	84.31%	0.4421	4.9738	1.2314	623	15.69%	1.5302	19.2554	2.3336
1996 Total		31511	0.4289	5.3182	1.0825	27834	88.33%	0.3149	3.9141	0.9604	3677	11.67%	1.2919	15.9474	2.0065
1997	LDGV	27001	0.3400	4.4913	0.7722	24456	90.57%	0.2592	3.5100	0.6995	2545	9.43%	1.1159	13.9211	1.4711
	LDGT1	17555	0.3832	5.3180	1.2263	15248	86.86%	0.2954	3.9310	1.1236	2307	13.14%	0.9642	14.4849	1.9052
	LDGT2	6624	0.5230	6.1956	1.4137	5634	85.05%	0.3839	4.8020	1.2354	990	14.95%	1.3143	14.1262	2.4287
1997 Total		51180	0.3785	4.9954	1.0110	45338	88.59%	0.2869	3.8122	0.9087	5842	11.41%	1.0896	14.1785	1.8048
1998	LDGV	22683	0.2794	4.1080	0.6554	20661	91.09%	0.2186	3.2861	0.5859	2022	8.91%	0.9011	12.5057	1.3659
	LDGT1	16253	0.3192	4.3037	1.0861	14474	89.05%	0.2496	3.3055	0.9583	1779	10.95%	0.8858	12.4253	2.1257
	LDGT2	5593	0.4381	5.2730	1.2795	4785	85.55%	0.2940	3.8921	1.0634	808	14.45%	1.2917	13.4510	2.5594
1998 Total		44529	0.3139	4.3258	0.8910	39920	89.65%	0.2389	3.3658	0.7782	4609	10.35%	0.9637	12.6404	1.8684
1999	LDGV	32508	0.2434	3.6947	0.6156	29672	91.28%	0.1919	3.0131	0.5480	2836	8.72%	0.7832	10.8270	1.3228
	LDGT1	21237	0.2468	3.2228	0.8192	19267	90.72%	0.1988	2.5785	0.7271	1970	9.28%	0.7162	9.5251	1.7192
	LDGT2	10934	0.3876	4.2823	1.0804	9627	88.05%	0.2724	3.1219	0.9014	1307	11.95%	1.2358	12.8288	2.3992
1999 Total		64679	0.2689	3.6391	0.7610	58566	90.55%	0.2074	2.8880	0.6650	6113	9.45%	0.8584	10.8354	1.6807
2000	LDGV	28297	0.2034	3.3809	0.5505	25856	91.37%	0.1518	2.7871	0.4675	2441	8.63%	0.7501	9.6699	1.4291
	LDGT1	17891	0.2041	2.9451	0.7263	16281	91.00%	0.1708	2.3682	0.6463	1610	9.00%	0.5411	8.7796	1.5351
	LDGT2	6821	0.2922	3.7913	0.8181	6120	89.72%	0.1883	2.5375	0.6917	701	10.28%	1.1996	14.7376	1.9215
2000 Total		53009	0.2150	3.2866	0.6442	48257	91.04%	0.1628	2.6141	0.5562	4752	8.96%	0.7456	10.1158	1.5376
2001	LDGV	35758	0.1513	2.8885	0.4293	33727	94.32%	0.1211	2.5189	0.3813	2031	5.68%	0.6537	9.0262	1.2263
	LDGT1	22673	0.1146	2.0506	0.4664	21194	93.48%	0.0969	1.6909	0.4253	1479	6.52%	0.3683	7.2058	1.0563
	LDGT2	9794	0.2171	2.8502	0.6861	8888	90.75%	0.1731	2.4002	0.6191	906	9.25%	0.6483	7.2650	1.3436
2001 Total		68225	0.1486	2.6046	0.4785	63809	93.53%	0.1203	2.2274	0.4290	4416	6.47%	0.5570	8.0552	1.1934
2002	LDGV	25866	0.1358	2.6764	0.3953	24273	93.84%	0.1122	2.3799	0.3449	1593	6.16%	0.4946	7.1950	1.1625
	LDGT1	17238	0.1043	2.1267	0.4237	16265	94.36%	0.0829	1.5702	0.3895	973	5.64%	0.4615	11.4291	0.9958

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
	LDGT2	5632	0.1642	2.3622	0.6497	5154	91.51%	0.1365	1.9416	0.5768	478	8.49%	0.4628	6.8976	1.4360
2002 Total		48736	0.1279	2.4457	0.4347	45692	93.75%	0.1045	2.0422	0.3869	3044	6.25%	0.4790	8.5017	1.1522
2003	LDGV	33616	0.1108	2.3392	0.3376	32143	95.62%	0.0945	2.1685	0.3128	1473	4.38%	0.4659	6.0639	0.8786
	LDGT1	23559	0.0837	1.5613	0.3554	22410	95.12%	0.0708	1.3172	0.3396	1149	4.88%	0.3360	6.3226	0.6640
	LDGT2	9419	0.1302	1.9912	0.4826	8885	94.33%	0.1095	1.5537	0.4453	534	5.67%	0.4748	9.2703	1.1043
2003 Total		66594	0.1040	2.0148	0.3644	63438	95.26%	0.0882	1.7817	0.3408	3156	4.74%	0.4201	6.7006	0.8386
2004	LDGV	19871	0.1061	2.3614	0.3049	18826	94.74%	0.0892	2.1294	0.2799	1045	5.26%	0.4101	6.5403	0.7552
	LDGT1	14865	0.0717	1.3516	0.2761	14268	95.98%	0.0646	1.2042	0.2635	597	4.02%	0.2410	4.8744	0.5775
	LDGT2	6810	0.0903	1.5663	0.2912	6508	95.57%	0.0802	1.3510	0.2657	302	4.43%	0.3070	6.2054	0.8413
2004 Total		41546	0.0912	1.8698	0.2924	39602	95.32%	0.0789	1.6682	0.2717	1944	4.68%	0.3422	5.9767	0.7140
2005	LDGV	33961	0.0910	2.1413	0.2889	32597	95.98%	0.0828	2.0190	0.2751	1364	4.02%	0.2875	5.0632	0.6182
	LDGT1	27352	0.0563	1.0646	0.2221	26606	97.27%	0.0540	1.0116	0.2163	746	2.73%	0.1360	2.9560	0.4311
	LDGT2	9692	0.0875	1.4551	0.2418	9421	97.20%	0.0780	1.2846	0.2277	271	2.80%	0.4176	7.3823	0.7308
2005 Total		71005	0.0772	1.6329	0.2567	68624	96.65%	0.0710	1.5276	0.2458	2381	3.35%	0.2549	4.6669	0.5724
2006	LDGV	20789	0.0881	2.1056	0.2721	20185	97.09%	0.0792	1.9906	0.2509	604	2.91%	0.3839	5.9483	0.9822
	LDGT1	14622	0.0522	1.0132	0.2221	14104	96.46%	0.0512	0.9721	0.2196	518	3.54%	0.0811	2.1324	0.2883
	LDGT2	7218	0.0713	1.1453	0.2136	7011	97.13%	0.0650	1.0587	0.2036	207	2.87%	0.2832	4.0770	0.5533
2006 Total		42629	0.0729	1.5683	0.2450	41300	96.88%	0.0672	1.4846	0.2322	1329	3.12%	0.2502	4.1695	0.6449
2007	LDGV	34859	0.0808	1.9438	0.2546	34167	98.01%	0.0763	1.8826	0.2420	692	1.99%	0.3051	4.9650	0.8752
	LDGT1	28131	0.0456	0.9159	0.1955	27225	96.78%	0.0451	0.8970	0.1932	906	3.22%	0.0608	1.4840	0.2647
	LDGT2	11584	0.0584	0.9860	0.1866	11318	97.70%	0.0547	0.9125	0.1829	266	2.30%	0.2176	4.1148	0.3421
2007 Total		74574	0.0640	1.4073	0.2218	72710	97.50%	0.0612	1.3625	0.2146	1864	2.50%	0.1739	3.1517	0.5024
2008	LDGV	8254	0.0787	1.9569	0.2450	8100	98.13%	0.0749	1.9104	0.2350	154	1.87%	0.2770	4.4012	0.7697
	LDGT1	5788	0.0426	0.8589	0.2003	5604	96.82%	0.0424	0.8436	0.1904	184	3.18%	0.0481	1.3245	0.5022
	LDGT2	3033	0.0484	1.0153	0.1848	2931	96.64%	0.0478	0.9765	0.1841	102	3.36%	0.0638	2.1316	0.2051
2008 Total		17075	0.0611	1.4174	0.2191	16635	97.42%	0.0592	1.3865	0.2110	440	2.58%	0.1319	2.5885	0.5270
2009	LDGV	2368	0.0766	1.9657	0.2417	2332	98.48%	0.0738	1.9329	0.2340	36	1.52%	0.2564	4.0904	0.7419
	LDGT1	1183	0.0421	0.9628	0.1848	1161	98.14%	0.0418	0.9320	0.1855	22	1.86%	0.0604	2.5879	0.1485
	LDGT2	666	0.0431	0.8725	0.1754	653	98.05%	0.0431	0.8743	0.1753	13	1.95%	0.0440	0.7835	0.1775
2009 Total		4217	0.0616	1.5117	0.2153	4146	98.32%	0.0600	1.4859	0.2112	71	1.68%	0.1568	3.0194	0.4547
2010	LDGV	1933	0.0773	2.0196	0.2263	1910	98.81%	0.0743	1.9710	0.2166	23	1.19%	0.3266	6.0553	1.0320
	LDGT1	1039	0.0386	0.8867	0.1704	1024	98.56%	0.0385	0.8869	0.1706	15	1.44%	0.0407	0.8750	0.1574
	LDGT2	774	0.0426	0.8321	0.1629	763	98.58%	0.0425	0.8323	0.1624	11	1.42%	0.0477	0.8171	0.2009
2010 Total		3746	0.0594	1.4600	0.1977	3697	98.69%	0.0578	1.4357	0.1927	49	1.31%	0.1764	3.2936	0.5777
2011	LDGV	509	0.0757	1.9312	0.2170	507	99.61%	0.0751	1.9278	0.2163	2	0.39%	0.2085	2.7908	0.3924
	LDGT1	339	0.0455	0.9922	0.1761	336	99.12%	0.0453	0.9909	0.1751	3	0.88%	0.0695	1.1446	0.2870
	LDGT2	248	0.0447	0.8936	0.1570	244	98.39%	0.0449	0.8938	0.1571	4	1.61%	0.0377	0.8848	0.1533
2011 Total		1096	0.0593	1.4060	0.1908	1087	99.18%	0.0591	1.4061	0.1903	9	0.82%	0.0863	1.3949	0.2510
2012	LDGV	12	0.0894	1.9160	0.2139	12	100.00%	0.0894	1.9160	0.2139	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	11	0.0534	0.9857	0.1524	11	100.00%	0.0534	0.9857	0.1524	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	5	0.0691	1.3273	0.1197	4	80.00%	0.0642	1.1228	0.1217	1	20.00%	0.0887	2.1455	0.1117

Vehicle		All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
Year	Type	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
2012 Total		28	0.0716	1.4454	0.1729	27	96.43%	0.0710	1.4194	0.1752	1	3.57%	0.0887	2.1455	0.1117
Overall Total		853418	0.3407	4.4583	0.7284	782877	91.73%	0.2363	3.2252	0.6369	70541	8.27%	1.4997	18.1445	1.7440

Records 1 - 93 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	All Initial Inspections				Passing Initial Inspections					Failing Initial Inspections				
	Total	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)	Total	Total %	Avg HC (gpm)	Avg CO (gpm)	Avg NOx (gpm)
LDGV	438966	0.2985	4.2912	0.6384	405960	92.48%	0.2139	3.2856	0.5701	33006	7.52%	1.3396	16.6595	1.4790
LDGT1	294843	0.3527	4.4205	0.7818	269958	91.56%	0.2487	3.0964	0.6869	24885	8.44%	1.4806	18.7846	1.8113
LDGT2	119609	0.4661	5.1650	0.9271	106959	89.42%	0.2901	3.3206	0.7644	12650	10.58%	1.9547	20.7600	2.3029
Overall Total	853418	0.3407	4.4583	0.7284	782877	91.73%	0.2363	3.2252	0.6369	70541	8.27%	1.4997	18.1445	1.7440

A-2

I/M240 Initial Failure Report

Initial Failure Report (V1.01)

Vehicle		Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
Year	Type	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	9	2.56%	7.4410	110.2558	1.3245	38	10.80%	7.0488	71.2707	1.9324	9	2.56%	2.0545	21.4161	2.3794
	LDGT1	10	3.36%	6.4765	78.6537	2.4364	50	16.78%	5.9379	93.6517	2.2709	16	5.37%	2.8323	27.6375	2.9097
	LDGT2	3	3.23%	3.7416	95.7710	3.3999	24	25.81%	9.6251	123.7471	2.0916	7	7.53%	2.2985	24.7981	3.1450
1982 Total		22	2.96%	6.4981	93.9160	2.1129	112	15.07%	7.1049	92.5072	2.1176	32	4.31%	2.4968	25.2666	2.8120
1983	LDGV	13	1.61%	5.7938	71.0854	3.3297	121	14.96%	5.1553	74.1597	1.7583	28	3.46%	1.6555	17.0598	2.5799
	LDGT1	17	2.69%	6.0034	90.6535	2.4155	89	14.06%	7.3984	93.6669	2.4832	42	6.64%	3.1780	33.5336	2.9970
	LDGT2	8	3.07%	7.3195	117.4029	2.6277	54	20.69%	8.2571	107.2624	2.8292	9	3.45%	3.2506	40.8001	2.7301
1983 Total		38	2.23%	6.2088	89.5906	2.7729	264	15.50%	6.5460	87.5070	2.2217	79	4.64%	2.6467	28.5226	2.8188
1984	LDGV	20	1.91%	6.5449	74.3408	2.0794	128	12.23%	5.2005	76.5456	1.8270	30	2.87%	1.4703	16.7909	2.3047
	LDGT1	22	2.91%	7.0213	93.0543	2.1988	120	15.87%	5.8105	89.6718	1.9861	32	4.23%	2.6630	25.4814	3.2209
	LDGT2	16	5.35%	8.0919	88.8624	3.6482	69	23.08%	6.9900	102.7258	3.0178	13	4.35%	3.0583	37.5833	3.6633
1984 Total		58	2.76%	7.1524	85.4450	2.5575	317	15.08%	5.8209	87.2130	2.1464	75	3.57%	2.2544	24.1029	2.9311
1985	LDGV	25	1.23%	4.6732	60.1877	2.1368	307	15.15%	4.1774	54.0111	1.8579	31	1.53%	1.4117	13.1850	1.7939
	LDGT1	40	2.56%	6.3478	92.8353	2.4430	254	16.24%	5.4744	83.8884	2.2476	51	3.26%	2.3797	25.0672	3.1204
	LDGT2	28	5.28%	5.4086	88.1789	3.1023	142	26.79%	5.9935	94.2222	2.6365	21	3.96%	2.3090	29.1349	3.3258
1985 Total		93	2.26%	5.6149	82.6571	2.5592	703	17.06%	5.0129	72.9283	2.1560	103	2.50%	2.0740	22.3203	2.7630
1986	LDGV	23	1.19%	4.8938	62.3348	2.3093	224	11.56%	3.4449	45.2047	2.1099	32	1.65%	1.0661	10.1060	1.8837
	LDGT1	15	1.01%	6.2932	77.5638	2.7259	193	12.95%	5.0434	66.1495	2.6820	49	3.29%	1.9308	19.5891	2.7396
	LDGT2	22	5.49%	5.4685	108.6299	3.0302	111	27.68%	5.8842	88.1673	2.8644	11	2.74%	2.8736	25.3857	3.2568
1986 Total		60	1.57%	5.4544	83.1169	2.6778	528	13.79%	4.5420	61.8926	2.4776	92	2.40%	1.7427	16.9837	2.5037
1987	LDGV	18	0.53%	3.9705	60.1146	2.3505	345	10.13%	3.3300	45.6484	2.0956	36	1.06%	1.1576	10.3707	1.8236
	LDGT1	33	1.37%	5.2261	67.0853	2.5019	331	13.75%	4.0831	59.6644	2.3121	51	2.12%	1.8312	15.0381	2.7016
	LDGT2	22	3.19%	5.5615	98.6500	3.1335	97	14.06%	4.6226	59.8423	3.2603	13	1.88%	1.3948	12.7565	3.1126
1987 Total		73	1.12%	5.0176	74.8791	2.6549	773	11.88%	3.8147	53.4312	2.3345	100	1.54%	1.5320	13.0612	2.4389
1988	LDGV	20	0.68%	6.2994	53.6563	1.9515	323	11.06%	3.4238	45.7828	1.9804	36	1.23%	0.8570	10.7438	1.5613
	LDGT1	27	1.25%	7.2209	74.2292	2.8217	303	14.07%	4.5716	51.6849	2.6330	36	1.67%	1.6349	12.4584	2.3777
	LDGT2	12	1.47%	7.5295	52.9026	3.0899	130	15.91%	5.9506	46.5813	3.7924	15	1.84%	1.5981	11.8282	2.6413
1988 Total		59	1.00%	6.9713	62.9177	2.5813	756	12.83%	4.3183	48.2856	2.5535	87	1.48%	1.3067	11.6403	2.0853
1989	LDGV	26	0.46%	4.8087	39.6183	2.4331	473	8.39%	3.6656	46.2553	1.8550	61	1.08%	0.8695	9.2886	1.8406
	LDGT1	36	0.95%	6.5233	53.2287	3.6495	472	12.42%	4.4625	54.6833	2.6422	50	1.32%	1.5465	12.5171	2.6918
	LDGT2	13	0.93%	5.3790	51.0510	5.1546	171	12.25%	5.2735	43.3200	3.6893	26	1.86%	1.5831	12.8689	3.0547
1989 Total		75	0.69%	5.7305	48.1330	3.4887	1116	10.30%	4.2490	49.3701	2.4690	137	1.26%	1.2520	11.1463	2.3817
1990	LDGV	25	0.40%	4.6878	39.3919	2.4000	552	8.87%	3.1795	40.2171	2.4529	45	0.72%	0.8071	8.2117	1.6819
	LDGT1	11	0.38%	7.6600	58.5536	4.1619	326	11.31%	4.2313	46.1742	2.9709	39	1.35%	1.2932	12.3629	2.2182
	LDGT2	11	1.00%	3.6819	49.6976	4.8213	140	12.68%	3.8065	41.4923	3.7102	19	1.72%	1.8020	13.5876	3.2107
1990 Total		47	0.46%	5.1480	46.2886	3.3790	1018	9.97%	3.6026	42.3002	2.7917	103	1.01%	1.1747	10.7752	2.1670
1991	LDGV	42	0.40%	5.1812	36.7165	2.6861	830	7.98%	3.1347	41.1211	2.2140	80	0.77%	0.8005	7.5243	1.7074
	LDGT1	24	0.43%	4.9178	54.3879	3.7591	446	7.95%	3.9490	51.8456	2.4483	49	0.87%	1.1420	11.4417	2.4419
	LDGT2	14	0.94%	7.4992	39.6792	3.7530	176	11.86%	4.6392	45.2671	3.3799	22	1.48%	1.5743	10.8955	2.7125
1991 Total		80	0.46%	5.5078	42.5364	3.1947	1452	8.30%	3.5672	44.9178	2.4273	151	0.86%	1.0241	9.2867	2.0922
1992	LDGV	37	0.40%	3.5754	32.0534	2.5845	925	10.10%	3.0796	38.3594	2.0893	56	0.61%	0.5645	6.0853	1.3756
	LDGT1	15	0.36%	4.3971	37.0523	3.5346	316	7.51%	4.0965	49.6018	2.6996	35	0.83%	0.9995	10.2300	2.1676
	LDGT2	14	0.86%	4.1902	29.5400	5.0592	248	15.29%	4.7692	42.8042	3.5112	10	0.62%	1.1540	10.4450	1.9636
1992 Total		66	0.44%	3.8926	32.6564	3.3254	1489	9.93%	3.5769	41.4856	2.4556	101	0.67%	0.7736	7.9533	1.7083
1993	LDGV	38	0.27%	4.3898	39.8394	3.2187	1173	8.26%	2.8846	35.5805	2.2873	111	0.78%	0.6786	6.1514	1.5474
	LDGT1	33	0.39%	5.4426	41.4530	4.6981	529	6.22%	4.0113	45.7560	2.9925	72	0.85%	1.2381	10.0093	2.3904

Vehicle		Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
Year	Type	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT2	12	0.43%	4.1477	40.4948	3.9272	365	13.13%	4.8248	38.9487	3.5186	38	1.37%	1.3256	10.9599	2.6002
1993 Total		83	0.33%	4.7734	40.5757	3.9093	2067	8.11%	3.5155	38.7795	2.6852	221	0.87%	0.9721	8.2351	2.0031
1994	LDGV	39	0.29%	3.7160	32.1510	2.3954	995	7.40%	2.9009	27.9774	2.1722	71	0.53%	0.5217	5.8776	1.2036
	LDGT1	31	0.35%	5.6374	61.5566	4.1339	762	8.69%	3.1757	36.1969	3.2449	46	0.52%	0.7219	6.4543	1.8758
	LDGT2	11	0.32%	2.6573	37.1460	4.2598	570	16.37%	3.5541	32.2993	3.6385	18	0.52%	0.8857	8.7208	1.6165
1994 Total		81	0.32%	4.3076	44.0833	3.3139	2327	9.05%	3.1509	31.7276	2.8826	135	0.53%	0.6384	6.4532	1.4877
1995	LDGV	69	0.32%	3.9072	32.8964	2.6631	1303	6.02%	2.6854	28.0687	2.1213	143	0.66%	0.5504	5.2252	1.2004
	LDGT1	30	0.25%	3.0922	37.6779	4.7443	875	7.31%	3.4224	34.3640	3.3563	70	0.59%	0.8712	6.7096	2.0950
	LDGT2	30	0.51%	5.7321	36.2554	4.7094	764	13.10%	3.7966	33.9283	3.3611	36	0.62%	1.1273	9.0917	2.4041
1995 Total		129	0.33%	4.1421	34.7895	3.6230	2942	7.46%	3.1932	31.4627	2.8106	249	0.63%	0.7240	6.2015	1.6259
1996	LDGV	48	0.27%	1.8673	20.5420	2.6841	1017	5.82%	1.8324	23.5364	2.1032	94	0.54%	0.3406	3.9710	0.9519
	LDGT1	17	0.17%	1.6486	17.7546	3.6621	633	6.28%	2.1795	24.9019	3.3615	55	0.55%	0.3927	4.7918	1.7474
	LDGT2	16	0.40%	2.7356	36.7642	4.0781	314	7.91%	2.3769	30.7571	3.1488	22	0.55%	0.6640	7.2497	1.9455
1996 Total		81	0.26%	1.9929	23.1614	3.1647	1964	6.23%	2.0313	25.1310	2.6759	171	0.54%	0.3990	4.6568	1.3356
1997	LDGV	71	0.26%	2.8627	23.2110	2.6961	1274	4.72%	1.7861	23.0401	2.0276	165	0.61%	0.4086	4.1637	0.9156
	LDGT1	37	0.21%	2.1845	28.9194	4.0998	966	5.50%	1.7551	27.5418	2.8548	80	0.46%	0.4892	5.6131	1.7256
	LDGT2	26	0.39%	3.6914	21.7008	4.0029	451	6.81%	2.1114	23.2073	3.3827	29	0.44%	0.5627	6.3333	1.9264
1997 Total		134	0.26%	2.8362	24.4942	3.3372	2691	5.26%	1.8295	24.6841	2.5517	274	0.54%	0.4484	4.8165	1.2591
1998	LDGV	26	0.11%	2.4635	26.1170	2.5665	1062	4.68%	1.4454	19.9828	1.9817	106	0.47%	0.2992	3.9744	0.6931
	LDGT1	20	0.12%	1.7732	18.3845	3.1700	949	5.84%	1.3505	19.7139	3.0511	55	0.34%	0.3537	4.2273	1.2506
	LDGT2	16	0.29%	2.1457	23.3084	4.8166	495	8.85%	1.8517	18.4725	3.3089	22	0.39%	0.3642	4.6422	1.2647
1998 Total		62	0.14%	2.1588	22.8978	3.3418	2506	5.63%	1.4897	19.5827	2.6488	183	0.41%	0.3234	4.1307	0.9293
1999	LDGV	58	0.18%	2.7946	20.2770	2.7496	1252	3.85%	1.4010	19.6531	2.1564	141	0.43%	0.2917	3.5712	0.6654
	LDGT1	15	0.07%	1.4416	15.9947	3.8155	838	3.95%	1.3247	18.1221	2.8904	94	0.44%	0.2970	3.1601	0.9486
	LDGT2	12	0.11%	2.4748	24.0644	4.4368	784	7.17%	1.7941	18.3712	3.2036	35	0.32%	0.5085	4.8449	1.5978
1999 Total		85	0.13%	2.5107	20.0560	3.1759	2874	4.44%	1.4860	18.8570	2.6561	270	0.42%	0.3217	3.5932	0.8849
2000	LDGV	53	0.19%	2.0796	26.4858	2.1854	1149	4.06%	1.3105	16.1409	2.3601	125	0.44%	0.2844	3.4627	0.6665
	LDGT1	19	0.11%	1.6810	19.6986	3.6947	588	3.29%	1.0619	19.2469	2.7979	91	0.51%	0.2100	2.3226	0.6653
	LDGT2	10	0.15%	1.9985	19.0436	3.7137	349	5.12%	2.1457	26.1439	2.9865	23	0.34%	0.1780	2.8865	0.8888
2000 Total		82	0.15%	1.9774	24.0056	2.7215	2086	3.94%	1.3801	18.6900	2.5883	239	0.45%	0.2458	2.9732	0.6875
2001	LDGV	28	0.08%	2.3954	19.2051	2.7851	806	2.25%	1.3760	18.1950	2.4169	116	0.32%	0.2043	3.5571	0.5098
	LDGT1	9	0.04%	2.0935	42.0361	2.6083	362	1.60%	1.1050	23.0241	2.7941	47	0.21%	0.2481	3.2181	0.7708
	LDGT2	12	0.12%	2.3039	18.3266	5.5410	226	2.31%	1.8865	19.8112	3.0041	58	0.59%	0.1818	2.9675	0.6388
2001 Total		49	0.07%	2.3176	23.1834	3.4275	1394	2.04%	1.3884	19.7111	2.6100	221	0.32%	0.2077	3.3303	0.5992
2002	LDGV	28	0.11%	2.6819	14.8419	3.3463	532	2.06%	1.1095	16.1966	2.5767	99	0.38%	0.1630	2.9845	0.4528
	LDGT1	10	0.06%	0.6868	12.8405	5.0303	298	1.73%	1.2769	33.4906	2.1236	37	0.21%	0.1471	1.8981	0.5569
	LDGT2	5	0.09%	1.5672	23.2970	3.2332	134	2.38%	1.0996	16.7742	3.2112	13	0.23%	0.3968	4.2273	0.8952
2002 Total		43	0.09%	2.0883	15.3596	3.7248	964	1.98%	1.1599	21.6229	2.5248	149	0.31%	0.1794	2.8232	0.5172
2003	LDGV	34	0.10%	3.2106	29.2741	2.8719	344	1.02%	1.3440	16.0463	2.4239	96	0.29%	0.1599	2.8757	0.4384
	LDGT1	15	0.06%	0.7686	9.4095	3.1145	165	0.70%	1.7937	34.7680	2.0637	39	0.17%	0.1231	1.9858	0.4866
	LDGT2	4	0.04%	1.9798	18.7961	6.4460	113	1.20%	1.6124	34.9440	2.9343	41	0.44%	0.2409	3.0336	0.9336
2003 Total		53	0.08%	2.4266	22.8612	3.2103	622	0.93%	1.5120	24.4458	2.4211	176	0.26%	0.1706	2.7153	0.5645
2004	LDGV	19	0.10%	3.0916	37.1255	3.4555	211	1.06%	1.3921	20.5158	2.3430	48	0.24%	0.0986	2.1987	0.3408
	LDGT1	1	0.01%	1.1184	32.4101	4.4117	100	0.67%	1.0719	22.7109	2.0814	18	0.12%	0.0904	1.2116	0.3000
	LDGT2	5	0.07%	1.6676	16.6452	6.0215	43	0.63%	1.3465	32.2751	3.3252	10	0.15%	0.1046	1.6410	0.3981
2004 Total		25	0.06%	2.7278	32.8408	4.0070	354	0.85%	1.2961	22.5643	2.3884	76	0.18%	0.0974	1.8915	0.3387
2005	LDGV	15	0.04%	1.9426	20.1913	3.3811	216	0.64%	1.2452	20.1146	2.2915	33	0.10%	0.0941	2.4953	0.3005

Vehicle		Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
Year	Type	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT1	2	0.01%	1.0706	20.1036	3.1033	63	0.23%	0.8895	20.8145	2.5055	51	0.19%	0.0749	1.1952	0.2387
	LDGT2	1	0.01%	2.0453	25.2943	3.8015	50	0.52%	1.7963	32.4522	2.8011	10	0.10%	0.1896	3.6858	0.6033
2005 Total		18	0.03%	1.8514	20.4650	3.3736	329	0.46%	1.2609	22.1236	2.4099	94	0.13%	0.0938	1.9166	0.2992
2006	LDGV	15	0.07%	3.2849	29.6446	4.0183	132	0.63%	1.1131	17.1949	3.1487	14	0.07%	0.1486	2.6216	0.3074
	LDGT1	1	0.01%	0.9455	52.8992	0.0741	17	0.12%	0.7920	31.6645	2.1932	17	0.12%	0.0471	1.2572	0.1738
	LDGT2	1	0.01%	1.8740	21.0965	4.6685	25	0.35%	1.8033	25.4724	2.9314	2	0.03%	0.0433	0.7735	0.2321
2006 Total		17	0.04%	3.0643	30.5097	3.8245	174	0.41%	1.1809	19.7979	3.0241	33	0.08%	0.0899	1.8067	0.2340
2007	LDGV	14	0.04%	3.8080	26.9131	3.3652	132	0.38%	0.8805	14.2089	3.3282	23	0.07%	0.1047	3.4903	0.2712
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	32	0.11%	0.3812	13.6453	2.5296	11	0.04%	0.3003	2.2407	0.7090
	LDGT2	1	0.01%	1.8477	22.2772	5.1015	11	0.09%	3.7513	73.0966	3.4732	2	0.02%	0.0576	1.5041	0.0000
2007 Total		15	0.02%	3.6773	26.6041	3.4810	175	0.23%	0.9696	17.8074	3.1913	36	0.05%	0.1619	2.9981	0.3899
2008	LDGV	3	0.04%	2.2568	22.5659	3.7930	20	0.24%	1.2665	17.0303	3.9534	10	0.12%	0.1007	3.0178	0.2657
	LDGT1	6	0.10%	0.0132	0.0187	6.1043	7	0.12%	0.2231	13.9724	3.0209	4	0.07%	0.0322	0.7386	1.8200
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	3	0.10%	0.3180	18.5829	0.5952	3	0.10%	0.0560	1.4465	0.1349
2008 Total		9	0.05%	0.7611	7.5344	5.3339	30	0.18%	0.9282	16.4720	3.4000	17	0.10%	0.0767	2.2042	0.6083
2009	LDGV	0	0.00%	0.0000	0.0000	0.0000	6	0.25%	1.1743	14.5492	3.3477	2	0.08%	0.0779	3.0441	0.2075
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	1	0.08%	0.2297	38.9594	0.0056	2	0.17%	0.0383	0.7012	0.2206
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	3	0.45%	0.0350	0.5002	0.1572
2009 Total		0	0.00%	0.0000	0.0000	0.0000	7	0.17%	1.0393	18.0364	2.8703	7	0.17%	0.0482	1.2845	0.1897
2010	LDGV	1	0.05%	1.9592	21.6616	5.1142	5	0.26%	0.8483	17.0029	3.0166	2	0.10%	0.0676	0.9765	0.2129
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	1	0.10%	0.0448	0.7821	0.1537
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	1	0.13%	0.0744	1.3670	0.3664
2010 Total		1	0.03%	1.9592	21.6616	5.1142	5	0.13%	0.8483	17.0029	3.0166	4	0.11%	0.0636	1.0256	0.2365
2011	LDGV	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	1	0.20%	0.3466	3.6631	0.3038
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2011 Total		0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	1	0.09%	0.3466	3.6631	0.3038
2012	LDGV	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2012 Total		0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
Grand Total		1638	0.19%	4.0720	43.0433	3.1954	32039	3.75%	2.6371	32.4187	2.6093	3616	0.42%	0.7277	7.4282	1.4113

Records 1 - 93 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle	Failure for Both Exhaust and Visual					Failure for Exhaust Only					Failure for Visual Only				
Type	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	817	0.19%	3.6147	34.3182	2.6778	15895	3.62%	2.2984	28.8366	2.1947	1844	0.42%	0.4948	5.4997	1.0352
LDGT1	496	0.17%	4.4892	51.2599	3.4872	10085	3.42%	2.7952	36.7978	2.8474	1240	0.42%	0.9622	9.2904	1.7569
LDGT2	325	0.27%	4.5847	52.4370	4.0514	6059	5.07%	3.2626	34.5271	3.3006	532	0.44%	0.9881	9.7727	1.9092
Grand Total	1638	0.19%	4.0720	43.0433	3.1954	32039	3.75%	2.6371	32.4187	2.6093	3616	0.42%	0.7277	7.4282	1.4113

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I/M240 Initial Exhaust Failure Report

Initial Exhaust Failure Report (V1.01)

Vehicle		HC Failures					CO Failures					NOX Failures				
Year	Type	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	29	61.70%	10.1208	90.5490	1.8314	36	76.60%	6.5475	96.0480	1.1045	5	10.64%	13.0051	15.7812	6.5046
	LDGT1	17	28.33%	11.0077	106.3133	2.7022	47	78.33%	5.3631	105.6388	1.4794	8	13.33%	7.8168	31.0627	6.8846
	LDGT2	10	37.04%	18.6199	145.1459	2.2527	22	81.48%	9.4816	143.8787	1.3297	3	11.11%	1.6865	9.9266	7.7112
1982 Total		56	41.79%	11.9077	105.0840	2.1710	105	78.36%	6.6321	110.3627	1.3195	16	11.94%	8.2887	22.3242	6.9208
1983	LDGV	67	50.00%	8.3126	95.0019	1.9099	118	88.06%	5.4835	81.9507	1.5607	15	11.19%	3.0963	26.0199	5.9592
	LDGT1	48	45.28%	11.7866	111.4983	2.2364	82	77.36%	7.4396	111.8817	1.4633	13	12.26%	2.3002	19.9988	7.5940
	LDGT2	34	54.84%	11.9731	121.2371	2.7965	51	82.26%	7.9882	126.7579	2.1427	6	9.68%	4.7320	23.6274	7.5648
1983 Total		149	49.34%	10.2670	106.3028	2.2174	251	83.11%	6.6315	100.8332	1.6471	34	11.26%	3.0805	23.2955	6.8676
1984	LDGV	93	62.84%	7.3920	93.0769	1.6205	119	80.41%	5.6289	90.8384	1.2526	21	14.19%	3.2224	15.2005	5.2907
	LDGT1	67	47.18%	9.4058	105.7998	1.9928	121	85.21%	5.9306	101.5730	1.4812	12	8.45%	3.9631	19.3599	7.0642
	LDGT2	40	47.06%	11.8542	127.5742	2.5523	68	80.00%	7.5836	119.0936	2.1998	14	16.47%	2.8968	23.5559	7.5154
1984 Total		200	53.33%	8.9591	104.2386	1.9316	308	82.13%	6.1790	101.2937	1.5515	47	12.53%	3.3145	18.7513	6.4062
1985	LDGV	171	51.51%	6.5703	68.8830	2.0370	273	82.23%	4.3902	63.7508	1.3885	34	10.24%	2.6821	13.2458	5.3765
	LDGT1	128	43.54%	8.8271	99.0071	2.1344	248	84.35%	5.6134	96.7151	1.8461	19	6.46%	2.0462	18.1780	7.3332
	LDGT2	64	37.65%	10.6050	111.5039	2.8041	151	88.82%	5.7549	102.2360	2.2691	18	10.59%	4.5205	36.1443	7.2092
1985 Total		363	45.60%	8.0774	87.0197	2.2066	672	84.42%	5.1483	84.5639	1.7552	71	8.92%	2.9780	20.3709	6.3648
1986	LDGV	140	56.68%	5.1618	58.1389	2.0673	191	77.33%	3.8310	57.4801	1.5370	35	14.17%	1.9356	13.5063	5.2958
	LDGT1	83	39.90%	9.2457	87.2118	2.3676	156	75.00%	5.0930	83.9040	1.5842	35	16.83%	3.5062	11.8110	7.4731
	LDGT2	66	49.62%	8.9331	113.5041	2.3892	108	81.20%	5.9865	107.4842	2.2120	17	12.78%	2.3355	21.8423	7.4285
1986 Total		289	49.15%	7.1959	79.1325	2.2271	455	77.38%	4.7753	78.4088	1.7134	87	14.80%	2.6456	14.4532	6.5884
1987	LDGV	174	47.93%	5.3938	61.3529	1.8863	275	75.76%	3.5638	58.2341	1.4373	67	18.46%	1.5781	11.5877	5.0192
	LDGT1	148	40.66%	7.0756	77.9953	2.2012	301	82.69%	4.0998	69.8234	1.7747	35	9.62%	1.8719	13.6622	6.7616
	LDGT2	66	55.46%	7.0141	88.0166	2.6286	81	68.07%	5.4308	91.6977	2.4400	26	21.85%	2.1883	17.3758	6.5600
1987 Total		388	45.86%	6.3109	72.2366	2.1327	657	77.66%	4.0396	67.6693	1.7155	128	15.13%	1.7824	13.3307	5.8086
1988	LDGV	229	66.76%	4.7717	55.9167	1.8841	246	71.72%	4.0093	60.5611	1.3672	52	15.16%	1.6630	11.7284	4.7726
	LDGT1	184	55.76%	7.1473	67.8148	2.3032	243	73.64%	5.3611	67.4210	1.8046	59	17.88%	2.5564	16.5096	6.2719
	LDGT2	78	54.93%	9.5700	62.9173	3.1946	92	64.79%	5.9762	65.1695	2.9352	45	31.69%	5.0596	20.8348	6.4404
1988 Total		491	60.25%	6.4242	61.4875	2.2493	581	71.29%	4.8861	64.1600	1.7984	156	19.14%	2.9807	16.1635	5.8208
1989	LDGV	317	63.53%	5.0869	54.9644	1.7371	380	76.15%	4.0544	56.9220	1.4341	60	12.02%	1.9924	14.9244	4.9944
	LDGT1	268	52.76%	6.8846	66.9460	2.6335	393	77.36%	4.7551	66.5029	2.0693	81	15.94%	3.0088	19.7652	6.1257
	LDGT2	99	53.80%	8.2242	56.9505	3.2535	104	56.52%	6.1555	67.7435	2.7060	60	32.61%	3.2451	17.7985	6.4960
1989 Total		684	57.43%	6.2453	59.9464	2.3078	877	73.64%	4.6175	62.4987	1.8696	201	16.88%	2.7759	17.7331	5.8986
1990	LDGV	331	57.37%	4.7801	52.4778	2.1144	350	60.66%	3.9506	59.3322	1.4589	193	33.45%	2.4760	13.5414	4.6966
	LDGT1	162	48.07%	6.9283	60.2134	2.6054	239	70.92%	4.8193	59.7255	2.1414	81	24.04%	3.0951	19.0040	6.1697
	LDGT2	74	49.01%	6.0325	61.4991	2.8885	86	56.95%	4.5107	65.9509	2.5428	55	36.42%	1.7338	11.9795	6.4459
1990 Total		567	53.24%	5.5573	55.8653	2.3557	675	63.38%	4.3295	60.3147	1.8387	329	30.89%	2.5043	14.6252	5.3517
1991	LDGV	618	70.87%	4.1229	47.6457	2.0380	525	60.21%	3.9308	61.0172	1.4410	206	23.62%	1.6826	11.3234	4.4585
	LDGT1	256	54.47%	5.9377	65.8743	2.1422	337	71.70%	4.3017	67.1977	1.7116	108	22.98%	2.4990	17.0868	5.6860
	LDGT2	95	50.00%	7.9242	57.7423	2.8119	120	63.16%	5.9094	63.6001	2.5192	56	29.47%	2.1572	15.8956	6.2895
1991 Total		969	63.25%	4.9751	53.4514	2.1414	982	64.10%	4.2999	63.4539	1.6656	370	24.15%	1.9927	13.6977	5.0939
1992	LDGV	656	68.19%	4.1171	45.9677	2.0109	675	70.17%	3.5187	50.5183	1.5884	207	21.52%	1.9693	13.8756	4.4438
	LDGT1	194	58.61%	5.8889	60.5757	2.4420	220	66.47%	4.7332	66.6326	1.7827	81	24.47%	2.4899	18.3554	5.8142
	LDGT2	166	63.36%	6.5012	51.6697	2.9983	154	58.78%	5.9061	60.3825	2.9092	94	35.88%	2.6180	26.0146	5.8814

Vehicle		HC Failures					CO Failures					NOX Failures				
Year	Type	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1992 Total		1,016	65.34%	4.8449	49.6887	2.2545	1,049	67.46%	4.1239	55.3460	1.8231	382	24.57%	2.2393	17.8126	5.0881
1993	LDGV	706	58.30%	4.3760	46.0986	2.0141	786	64.91%	3.5746	50.3158	1.5168	317	26.18%	1.3894	10.5701	4.7230
	LDGT1	292	51.96%	6.3386	58.3924	2.7030	347	61.74%	4.8925	64.4078	1.9861	190	33.81%	2.1482	18.4840	5.7423
	LDGT2	220	58.36%	7.1010	49.6274	2.7140	227	60.21%	5.9910	55.0346	2.6143	130	34.48%	2.3383	20.6005	6.0703
1993 Total		1,218	56.65%	5.3387	49.6833	2.3057	1,360	63.26%	4.3142	54.6990	1.8197	637	29.63%	1.8094	14.9776	5.3020
1994	LDGV	692	66.92%	4.0694	34.4946	1.9676	568	54.93%	3.9444	44.6432	1.3943	323	31.24%	1.7086	9.8500	4.1574
	LDGT1	410	51.70%	5.1690	50.7798	2.9229	483	60.91%	4.2961	53.1681	2.3698	340	42.88%	1.8072	17.3346	5.3365
	LDGT2	353	60.76%	4.9890	39.2846	3.2440	365	62.82%	4.3869	43.5325	2.9364	232	39.93%	2.3583	18.2493	5.8809
1994 Total		1,455	60.42%	4.6024	40.2457	2.5464	1,416	58.80%	4.1784	47.2648	2.1246	895	37.17%	1.9145	14.8706	5.0521
1995	LDGV	881	64.21%	3.9109	35.9828	1.8810	721	52.55%	3.6232	47.0137	1.3022	538	39.21%	1.5625	9.9052	3.7610
	LDGT1	430	47.51%	5.7296	46.2007	2.9789	513	56.69%	4.5530	51.7452	2.3111	378	41.77%	1.9925	14.6871	5.6114
	LDGT2	492	61.96%	5.2996	39.8502	3.2248	568	71.54%	4.5540	41.9246	2.9672	272	34.26%	2.4963	20.6151	5.5361
1995 Total		1,803	58.71%	4.7236	39.4750	2.5096	1,802	58.68%	4.1813	46.7566	2.1142	1,188	38.68%	1.9131	13.8788	4.7562
1996	LDGV	547	51.36%	3.0532	34.3200	1.8400	447	41.97%	2.5786	45.9721	1.2376	558	52.39%	1.1577	9.8906	3.2451
	LDGT1	356	54.77%	3.4209	32.9314	3.4030	331	50.92%	2.9216	39.9297	2.6477	339	52.15%	1.5489	11.8744	4.9594
	LDGT2	203	61.52%	3.3664	39.1650	3.2004	228	69.09%	2.9007	40.5509	2.8790	137	41.52%	1.6974	14.6118	4.8503
1996 Total		1,106	54.08%	3.2290	34.7623	2.5928	1,006	49.19%	2.7644	42.7553	2.0735	1,034	50.56%	1.3575	11.1665	4.0198
1997	LDGV	666	49.52%	3.1771	33.2682	1.7886	566	42.08%	2.5512	45.1292	1.1042	684	50.86%	1.2097	8.9723	3.2467
	LDGT1	386	38.48%	3.4931	41.7752	2.7731	558	55.63%	2.4280	42.7997	2.1202	496	49.45%	1.1469	11.3141	4.2737
	LDGT2	205	42.98%	4.0555	31.2172	3.3492	274	57.44%	2.9376	33.7710	3.1475	261	54.72%	1.5830	13.8949	4.4696
1997 Total		1,257	44.50%	3.4174	35.5460	2.3454	1,398	49.49%	2.5777	41.9733	1.9102	1,441	51.01%	1.2557	10.6700	3.8217
1998	LDGV	440	40.44%	2.8634	32.6430	1.8192	395	36.31%	2.1965	43.1075	1.0465	688	63.24%	1.1145	9.0492	2.7704
	LDGT1	355	36.64%	2.8972	33.8514	3.1046	389	40.14%	2.2222	37.4249	2.3270	685	70.69%	0.9573	11.5885	3.8127
	LDGT2	204	39.92%	3.8435	28.4077	3.5476	252	49.32%	2.9320	29.2947	3.0765	368	72.02%	1.2365	13.6289	4.0551
1998 Total		999	38.90%	3.0755	32.2075	2.6289	1,036	40.34%	2.3851	37.6139	2.0211	1,741	67.80%	1.0784	11.0163	3.4520
1999	LDGV	521	39.77%	2.9944	34.2772	2.0004	415	31.68%	2.5286	47.7736	0.9787	862	65.80%	0.9015	8.3911	2.9558
	LDGT1	259	30.36%	3.2516	33.5699	3.1603	324	37.98%	2.4228	36.9749	2.4039	632	74.09%	0.9627	10.0719	3.5679
	LDGT2	307	38.57%	3.6450	29.3452	3.4538	314	39.45%	3.2284	34.6189	3.4095	623	78.27%	1.4206	12.3661	3.5814
1999 Total		1,087	36.74%	3.2394	32.7157	2.6873	1,053	35.59%	2.7047	40.5282	2.1421	2,117	71.54%	1.0725	10.0627	3.3226
2000	LDGV	411	34.19%	3.1317	29.4159	2.2417	366	30.45%	2.4583	40.2590	1.0961	870	72.38%	0.8992	8.2763	3.0315
	LDGT1	187	30.81%	2.5452	34.9687	2.7574	239	39.37%	1.8130	38.4065	1.9312	420	69.19%	0.7965	10.1702	3.6714
	LDGT2	127	35.38%	5.0955	54.6435	2.8683	126	35.10%	4.5434	58.9669	2.4687	281	78.27%	1.0874	11.2503	3.6064
2000 Total		725	33.44%	3.3244	35.2673	2.4845	731	33.72%	2.6067	42.8780	1.6058	1,571	72.46%	0.9054	9.3146	3.3054
2001	LDGV	297	35.61%	3.1940	31.7511	2.1867	254	30.46%	2.1092	45.3049	0.9945	576	69.06%	0.9602	7.6956	3.2628
	LDGT1	90	24.26%	3.3361	50.3755	1.8670	160	43.13%	1.9312	47.3678	1.1681	227	61.19%	0.6080	7.2369	4.1181
	LDGT2	102	42.86%	3.7133	29.2440	3.4395	100	42.02%	3.2196	36.2869	3.0778	174	73.11%	1.2225	11.3339	3.9596
2001 Total		489	33.89%	3.3285	34.6559	2.3891	514	35.62%	2.2698	44.1926	1.4539	977	67.71%	0.9251	8.2370	3.5856
2002	LDGV	173	30.89%	2.9268	31.4186	2.1886	158	28.21%	2.1414	42.2690	1.0867	405	72.32%	0.7952	7.4972	3.4222
	LDGT1	77	25.00%	3.7076	71.7758	1.6058	167	54.22%	1.7307	56.8016	0.8386	152	49.35%	0.7043	8.1250	3.9847
	LDGT2	34	24.46%	2.8678	35.8447	2.7143	52	37.41%	2.0572	33.2400	2.8303	108	77.70%	0.6959	9.9365	3.9343
2002 Total		284	28.20%	3.1314	42.8904	2.0935	377	37.44%	1.9479	47.4611	1.2173	665	66.04%	0.7583	8.0369	3.6340
2003	LDGV	157	41.53%	3.0411	25.7009	2.4880	122	32.28%	2.2300	39.8646	1.5843	262	69.31%	1.1904	9.2580	3.3546
	LDGT1	48	26.67%	4.8625	66.7221	1.7754	95	52.78%	2.5042	56.7736	0.9531	93	51.67%	0.9752	8.8268	3.7351
	LDGT2	50	42.74%	2.8857	63.9465	2.7102	59	50.43%	2.5013	59.6710	2.8455	80	68.38%	0.8712	12.1157	4.0421

Vehicle		HC Failures					CO Failures					NOX Failures				
Year	Type	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2003 Total		255	37.78%	3.3535	40.9217	2.3974	276	40.89%	2.3824	49.9187	1.6366	435	64.44%	1.0857	9.6914	3.5624
2004	LDGV	93	40.43%	3.1007	36.3711	2.7608	89	38.70%	2.4492	44.9491	1.9462	163	70.87%	1.1466	11.3720	3.2886
	LDGT1	25	24.75%	3.3956	44.9376	2.3432	60	59.41%	1.4857	35.1677	1.1717	49	48.51%	0.6105	10.7884	3.9943
	LDGT2	17	35.42%	3.0832	66.8605	3.7791	25	52.08%	2.2488	52.2782	3.0317	35	72.92%	0.9110	12.2361	4.6592
2004 Total		135	35.62%	3.1531	41.7969	2.8117	174	45.91%	2.0882	42.6293	1.8351	247	65.17%	1.0069	11.3787	3.6228
2005	LDGV	86	37.23%	2.6285	27.7206	2.5800	109	47.19%	1.4094	35.1090	1.6608	144	62.34%	1.1623	12.0400	3.5675
	LDGT1	8	12.31%	3.4681	53.7514	1.2508	24	36.92%	1.2869	46.8222	0.6737	41	63.08%	0.7569	6.8823	3.8794
	LDGT2	16	31.37%	4.4174	74.5084	2.5432	21	41.18%	3.5321	65.1620	2.3024	40	78.43%	0.7663	11.9132	3.3100
2005 Total		110	31.70%	2.9498	36.4193	2.4780	154	44.38%	1.6798	41.0325	1.5944	225	64.84%	1.0180	11.0776	3.5786
2006	LDGV	60	40.82%	2.8557	32.6572	3.2580	55	37.41%	2.2756	40.2537	2.6090	110	74.83%	1.1281	10.5832	4.1602
	LDGT1	5	27.78%	2.0211	63.2900	2.4351	12	66.67%	1.0269	47.8883	0.9428	8	44.44%	0.4523	6.1205	4.3945
	LDGT2	12	46.15%	3.0785	39.8139	3.2516	14	53.85%	2.2099	41.1659	2.8806	18	69.23%	1.1992	15.4591	3.6504
2006 Total		77	40.31%	2.8362	35.7617	3.2035	81	42.41%	2.0792	41.5424	2.4091	136	71.20%	1.0977	10.9660	4.1065
2007	LDGV	53	36.30%	2.5985	26.0525	3.2915	57	39.04%	2.1202	32.1138	2.6643	119	81.51%	1.0206	10.9692	4.0318
	LDGT1	2	6.25%	2.1822	12.8158	2.5077	13	40.63%	0.4170	27.9186	0.7810	21	65.63%	0.2769	5.6601	3.7995
	LDGT2	6	50.00%	6.5266	124.1265	4.4754	9	75.00%	4.5433	89.2844	3.8574	10	83.33%	3.5029	58.4683	4.1732
2007 Total		61	32.11%	2.9712	35.2652	3.3822	79	41.58%	2.1159	37.9366	2.4903	150	78.95%	1.0820	13.3926	4.0087
2008	LDGV	9	39.13%	2.8956	33.7475	3.9789	10	43.48%	2.5872	33.9453	3.4693	21	91.30%	1.4114	13.4020	4.2949
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	3	23.08%	0.5021	32.4172	0.5295	10	76.92%	0.0135	0.0668	5.6184
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	3	100.00%	0.3180	18.5829	0.5952	0	0.00%	0.0000	0.0000	0.0000
2008 Total		9	23.08%	2.8956	33.7475	3.9789	16	41.03%	1.7708	30.7784	2.3792	31	79.49%	0.9605	9.1003	4.7218
2009	LDGV	2	33.33%	2.9447	27.4851	4.5817	3	50.00%	2.0906	29.0440	3.1621	5	83.33%	1.3327	11.0267	3.9527
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	1	100.00%	0.2297	38.9594	0.0056	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2009 Total		2	28.57%	2.9447	27.4851	4.5817	4	57.14%	1.6254	31.5229	2.3730	5	71.43%	1.3327	11.0267	3.9527
2010	LDGV	3	50.00%	1.6255	19.3231	3.9861	3	50.00%	1.2196	27.1732	2.5251	5	83.33%	1.1685	13.9966	4.0025
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2010 Total		3	50.00%	1.6255	19.3231	3.9861	3	50.00%	1.2196	27.1732	2.5251	5	83.33%	1.1685	13.9966	4.0025
2011	LDGV	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2011 Total		0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2012	LDGV	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
2012 Total		0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
Grand Total		16,247	48.24%	4.6110	46.2496	2.4148	18,092	53.72%	3.7250	53.8173	1.8700	15,321	45.49%	1.3796	11.5791	4.0508

Records 1 - 93 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	HC Failures					CO Failures					NOX Failures				
	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	8,622	51.59%	3.9313	41.4314	2.0047	8,312	49.74%	3.3309	50.9716	1.3598	7,545	45.15%	1.2384	9.5886	3.5093
LDGT1	4,485	42.39%	5.2543	54.0663	2.6991	6,106	57.71%	3.8164	57.7753	1.9803	4,613	43.60%	1.3784	12.4153	4.5474
LDGT2	3,140	49.19%	5.5583	48.3147	3.1347	3,674	57.55%	4.4645	53.6774	2.8410	3,163	49.55%	1.7182	15.1077	4.6181
Grand Total	16,247	48.24%	4.6110	46.2496	2.4148	18,092	53.72%	3.7250	53.8173	1.8700	15,321	45.49%	1.3796	11.5791	4.0508

A-4

I/M240 Initial Visual Failure Report
(Mandatory)

Initial Visual Failure Report (Mandatory) (V1.00)

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1982	LDGV	352	334	94.90%	18	5.10%	348	99.10%	3	0.90%	224	97.00%	7	3.00%	252	99.20%	2	0.80%	351	99.70%	1	0.30%	344	97.70%	8	2.30%
	LDGT1	298	272	91.30%	26	8.70%	290	99.00%	3	1.00%	230	93.50%	16	6.50%	61	95.30%	3	4.70%	295	99.30%	2	0.70%	293	98.30%	5	1.70%
	LDGT2	93	83	89.20%	10	10.80%	87	95.60%	4	4.40%	80	95.20%	4	4.80%	11	84.60%	2	15.40%	91	100.00%	0	0.00%	92	98.90%	1	1.10%
1982 Total		743	689	92.70%	54	7.30%	725	98.60%	10	1.40%	534	95.20%	27	4.80%	324	97.90%	7	2.10%	737	99.60%	3	0.40%	729	98.10%	14	1.90%
1983	LDGV	809	768	94.90%	41	5.10%	798	98.90%	9	1.10%	461	97.30%	13	2.70%	614	98.40%	10	1.60%	801	99.80%	2	0.20%	801	99.00%	8	1.00%
	LDGT1	633	574	90.70%	59	9.30%	617	97.60%	15	2.40%	511	93.20%	37	6.80%	173	95.60%	8	4.40%	628	99.70%	2	0.30%	627	99.10%	6	0.90%
	LDGT2	261	244	93.50%	17	6.50%	244	96.80%	8	3.20%	232	95.50%	11	4.50%	36	92.30%	3	7.70%	256	99.60%	1	0.40%	260	99.60%	1	0.40%
1983 Total		1703	1,586	93.10%	117	6.90%	1,659	98.10%	32	1.90%	1,204	95.20%	61	4.80%	823	97.50%	21	2.50%	1,685	99.70%	5	0.30%	1,688	99.10%	15	0.90%
1984	LDGV	1047	997	95.20%	50	4.80%	1,041	99.40%	6	0.60%	605	95.90%	26	4.10%	903	99.30%	6	0.70%	1,036	99.30%	7	0.70%	1,041	99.40%	6	0.60%
	LDGT1	756	702	92.90%	54	7.10%	746	99.10%	7	0.90%	610	95.90%	26	4.10%	317	96.10%	13	3.90%	750	99.70%	2	0.30%	741	98.00%	15	2.00%
	LDGT2	299	270	90.30%	29	9.70%	286	96.60%	10	3.40%	268	94.40%	16	5.60%	61	96.80%	2	3.20%	296	99.00%	3	1.00%	295	98.70%	4	1.30%
1984 Total		2102	1,969	93.70%	133	6.30%	2,073	98.90%	23	1.10%	1,483	95.60%	68	4.40%	1281	98.40%	21	1.60%	2,082	99.40%	12	0.60%	2,077	98.80%	25	1.20%
1985	LDGV	2026	1,970	97.20%	56	2.80%	2,013	99.50%	11	0.50%	1,036	97.50%	27	2.50%	1795	99.30%	13	0.70%	2,015	99.90%	2	0.10%	2,013	99.40%	13	0.60%
	LDGT1	1564	1,473	94.20%	91	5.80%	1,542	98.80%	19	1.20%	967	94.50%	56	5.50%	852	98.50%	13	1.50%	1,549	99.60%	6	0.40%	1,551	99.20%	13	0.80%
	LDGT2	530	481	90.80%	49	9.20%	511	97.70%	12	2.30%	477	93.30%	34	6.70%	118	95.20%	6	4.80%	523	99.20%	4	0.80%	528	99.60%	2	0.40%
1985 Total		4120	3,924	95.20%	196	4.80%	4,066	99.00%	42	1.00%	2,480	95.50%	117	4.50%	2765	98.90%	32	1.10%	4,087	99.70%	12	0.30%	4,092	99.30%	28	0.70%
1986	LDGV	1937	1,882	97.20%	55	2.80%	1,924	99.40%	11	0.60%	807	97.00%	25	3.00%	1787	99.60%	8	0.40%	1,917	99.50%	9	0.50%	1,928	99.50%	9	0.50%
	LDGT1	1490	1,426	95.70%	64	4.30%	1,477	99.40%	9	0.60%	733	94.90%	39	5.10%	1078	98.90%	12	1.10%	1,476	99.50%	7	0.50%	1,483	99.50%	7	0.50%
	LDGT2	401	368	91.80%	33	8.20%	387	97.00%	12	3.00%	360	94.20%	22	5.80%	130	97.70%	3	2.30%	396	99.70%	1	0.30%	397	99.00%	4	1.00%
1986 Total		3828	3,676	96.00%	152	4.00%	3,788	99.20%	32	0.80%	1,900	95.70%	86	4.30%	2995	99.20%	23	0.80%	3,789	99.60%	17	0.40%	3,808	99.50%	20	0.50%
1987	LDGV	3406	3,352	98.40%	54	1.60%	3,390	99.60%	13	0.40%	1,149	98.10%	22	1.90%	3206	99.70%	9	0.30%	3,396	99.90%	5	0.10%	3,399	99.80%	7	0.20%
	LDGT1	2408	2,324	96.50%	84	3.50%	2,380	99.10%	22	0.90%	1,131	96.50%	41	3.50%	1877	99.40%	11	0.60%	2,387	99.50%	12	0.50%	2,401	99.70%	7	0.30%
	LDGT2	690	655	94.90%	35	5.10%	682	99.30%	5	0.70%	615	95.80%	27	4.20%	483	99.00%	5	1.00%	687	99.70%	2	0.30%	687	99.60%	3	0.40%
1987 Total		6504	6,331	97.30%	173	2.70%	6,452	99.40%	40	0.60%	2,895	97.00%	90	3.00%	5566	99.60%	25	0.40%	6,470	99.70%	19	0.30%	6,487	99.70%	17	0.30%
1988	LDGV	2921	2,865	98.10%	56	1.90%	2,906	99.60%	12	0.40%	871	97.60%	21	2.40%	2828	99.60%	11	0.40%	2,902	99.70%	8	0.30%	2,911	99.70%	10	0.30%
	LDGT1	2154	2,091	97.10%	63	2.90%	2,130	99.10%	19	0.90%	1,027	97.50%	26	2.50%	1978	99.70%	5	0.30%	2,133	99.50%	10	0.50%	2,142	99.40%	12	0.60%
	LDGT2	817	790	96.70%	27	3.30%	812	99.60%	3	0.40%	750	97.90%	16	2.10%	731	99.60%	3	0.40%	812	99.80%	2	0.20%	813	99.50%	4	0.50%
1988 Total		5892	5,746	97.50%	146	2.50%	5,848	99.40%	34	0.60%	2,648	97.70%	63	2.30%	5537	99.70%	19	0.30%	5,847	99.70%	20	0.30%	5,866	99.60%	26	0.40%
1989	LDGV	5635	5,548	98.50%	87	1.50%	5,615	99.70%	17	0.30%	1,350	98.50%	21	1.50%	5417	99.70%	15	0.30%	5,600	99.70%	19	0.30%	5,611	99.60%	24	0.40%
	LDGT1	3800	3,714	97.70%	86	2.30%	3,777	99.50%	20	0.50%	1,519	97.10%	45	2.90%	3481	99.70%	12	0.30%	3,775	99.70%	11	0.30%	3,795	99.90%	5	0.10%
	LDGT2	1396	1,357	97.20%	39	2.80%	1,379	98.90%	16	1.10%	692	97.60%	17	2.40%	1256	99.60%	5	0.40%	1,386	99.80%	3	0.20%	1,395	99.90%	1	0.10%
1989 Total		10831	10,619	98.00%	212	2.00%	10,771	99.50%	53	0.50%	3,561	97.70%	83	2.30%	10154	99.70%	32	0.30%	10,761	99.70%	33	0.30%	10,801	99.70%	30	0.30%
1990	LDGV	6226	6,156	98.90%	70	1.10%	6,213	99.80%	11	0.20%	827	98.60%	12	1.40%	6211	99.80%	10	0.20%	6,186	99.80%	15	0.20%	6,201	99.60%	25	0.40%
	LDGT1	2882	2,832	98.30%	50	1.70%	2,868	99.50%	13	0.50%	1,163	98.60%	17	1.40%	2809	99.80%	7	0.20%	2,869	99.80%	7	0.20%	2,873	99.70%	9	0.30%
	LDGT2	1104	1,074	97.30%	30	2.70%	1,095	99.30%	8	0.70%	517	97.70%	12	2.30%	1093	99.50%	6	0.50%	1,096	99.60%	4	0.40%	1,102	99.80%	2	0.20%
1990 Total		10212	10,062	98.50%	150	1.50%	10,176	99.70%	32	0.30%	2,507	98.40%	41	1.60%	10113	99.80%	23	0.20%	10,151	99.70%	26	0.30%	10,176	99.60%	36	0.40%
1991	LDGV	10404	10,282	98.80%	122	1.20%	10,377	99.80%	26	0.20%	943	98.10%	18	1.90%	10370	99.80%	18	0.20%	10,328	99.70%	32	0.30%	10,364	99.60%	40	0.40%
	LDGT1	5608	5,535	98.70%	73	1.30%	5,589	99.70%	17	0.30%	1,598	99.00%	16	1.00%	5574	99.80%	11	0.20%	5,570	99.60%	23	0.40%	5,597	99.80%	11	0.20%
	LDGT2	1484	1,448	97.60%	36	2.40%	1,468	98.90%	16	1.10%	661	98.70%	9	1.30%	1480	99.90%	2	0.10%	1,471	99.50%	7	0.50%	1,480	99.70%	4	0.30%
1991 Total		17496	17,265	98.70%	231	1.30%	17,434	99.70%	59	0.30%	3,202	98.70%	43	1.30%	17424	99.80%	31	0.20%	17,369	99.60%	62	0.40%	17,441	99.70%	55	0.30%
1992	LDGV	9161	9,068	99.00%	93	1.00%	9,143	99.80%	15	0.20%	693	98.70%	9	1.30%	9137	99.90%	11	0.10%	9,094	99.70%	24	0.30%	9,123	99.60%	38	0.40%
	LDGT1	4207	4,157	98.80%	50	1.20%	4,193	99.70%	13	0.30%	1,046	99.50%	5	0.50%	4192	99.80%										

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	LDGT2	2779	2,729	98.20%	50	1.80%	2,753	99.10%	26	0.90%	991	98.70%	13	1.30%	2775	99.90%	3	0.10%	2,755	99.70%	7	0.30%	2,776	99.90%	3	0.10%
1993 Total		25478	25,174	98.80%	304	1.20%	25,396	99.70%	80	0.30%	3,594	98.90%	39	1.10%	25417	99.90%	34	0.10%	25,295	99.70%	80	0.30%	25,397	99.70%	81	0.30%
1994	LDGV	13448	13,338	99.20%	110	0.80%	13,426	99.80%	21	0.20%	913	99.10%	8	0.90%	13431	99.90%	16	0.10%	13,368	99.80%	29	0.20%	13,407	99.70%	41	0.30%
	LDGT1	8770	8,693	99.10%	77	0.90%	8,750	99.80%	20	0.20%	1,624	99.80%	3	0.20%	8759	99.90%	7	0.10%	8,711	99.70%	28	0.30%	8,749	99.80%	21	0.20%
	LDGT2	3483	3,454	99.20%	29	0.80%	3,471	99.70%	11	0.30%	1,180	99.50%	6	0.50%	3477	99.90%	4	0.10%	3,453	99.80%	8	0.20%	3,481	99.90%	2	0.10%
1994 Total		25701	25,485	99.20%	216	0.80%	25,647	99.80%	52	0.20%	3,717	99.50%	17	0.50%	25667	99.90%	27	0.10%	25,532	99.70%	65	0.30%	25,637	99.80%	64	0.20%
1995	LDGV	21643	21,431	99.00%	212	1.00%	21,598	99.80%	39	0.20%	1,262	96.60%	45	3.40%	21593	99.80%	40	0.20%	21,503	99.80%	48	0.20%	21,588	99.70%	55	0.30%
	LDGT1	11963	11,863	99.20%	100	0.80%	11,923	99.70%	37	0.30%	1,484	99.70%	5	0.30%	11948	99.90%	11	0.10%	11,862	99.70%	33	0.30%	11,949	99.90%	14	0.10%
	LDGT2	5833	5,767	98.90%	66	1.10%	5,797	99.40%	36	0.60%	1,844	99.70%	5	0.30%	5821	99.80%	9	0.20%	5,790	99.70%	18	0.30%	5,829	99.90%	4	0.10%
1995 Total		39439	39,061	99.00%	378	1.00%	39,318	99.70%	112	0.30%	4,590	98.80%	55	1.20%	39362	99.80%	60	0.20%	39,155	99.70%	99	0.30%	39,366	99.80%	73	0.20%
1996	LDGV	17469	17,327	99.20%	142	0.80%	10,027	99.80%	21	0.20%	685	97.30%	19	2.70%	10004	99.60%	44	0.40%	17,364	99.90%	33	0.20%	17,437	99.80%	32	0.20%
	LDGT1	10072	10,000	99.30%	72	0.70%	5,505	99.70%	15	0.30%	10	100.00%	0	0.00%	5502	99.70%	18	0.30%	9,986	99.70%	30	0.30%	10,061	99.90%	11	0.10%
	LDGT2	3970	3,932	99.00%	38	1.00%	2,063	99.20%	17	0.80%	417	98.10%	8	1.90%	2074	99.70%	6	0.30%	3,941	99.80%	7	0.20%	3,968	99.90%	2	0.10%
1996 Total		31511	31,259	99.20%	252	0.80%	17,595	99.70%	53	0.30%	1,112	97.60%	27	2.40%	17580	99.60%	68	0.40%	31,291	99.80%	70	0.20%	31,466	99.90%	45	0.10%
1997	LDGV	27001	26,765	99.10%	236	0.90%	12,610	99.70%	42	0.30%	843	96.10%	34	3.90%	12591	99.50%	61	0.50%	26,837	99.70%	68	0.30%	26,953	99.80%	48	0.20%
	LDGT1	17555	17,438	99.30%	117	0.70%	8,452	99.60%	37	0.40%	30	96.80%	1	3.20%	8465	99.70%	24	0.30%	17,425	99.70%	52	0.30%	17,547	100.00%	8	0.00%
	LDGT2	6624	6,569	99.20%	55	0.80%	3,287	99.10%	31	0.90%	6	100.00%	0	0.00%	3308	99.70%	10	0.30%	6,580	99.80%	15	0.20%	6,623	100.00%	1	0.00%
1997 Total		51180	50,772	99.20%	408	0.80%	24,349	99.60%	110	0.40%	879	96.20%	35	3.80%	24364	99.60%	95	0.40%	50,842	99.70%	135	0.30%	51,123	99.90%	57	0.10%
1998	LDGV	22683	22,551	99.40%	132	0.60%	9,426	99.80%	15	0.20%	1,048	98.10%	20	1.90%	9412	99.70%	29	0.30%	22,558	99.80%	50	0.20%	22,661	99.90%	22	0.10%
	LDGT1	16253	16,178	99.50%	75	0.50%	7,197	99.70%	20	0.30%	3	75.00%	1	25.00%	7200	99.80%	17	0.20%	16,160	99.80%	29	0.20%	16,243	99.90%	10	0.10%
	LDGT2	5593	5,555	99.30%	38	0.70%	2,862	99.40%	17	0.60%	41	100.00%	0	0.00%	2868	99.60%	11	0.40%	5,562	99.80%	10	0.20%	5,590	99.90%	3	0.10%
1998 Total		44529	44,284	99.40%	245	0.60%	19,485	99.70%	52	0.30%	1,092	98.10%	21	1.90%	19480	99.70%	57	0.30%	44,280	99.80%	89	0.20%	44,494	99.90%	35	0.10%
1999	LDGV	32508	32,309	99.40%	199	0.60%	11,726	99.80%	23	0.20%	953	96.30%	37	3.70%	11706	99.60%	43	0.40%	32,338	99.90%	45	0.10%	32,451	99.80%	57	0.20%
	LDGT1	21237	21,128	99.50%	109	0.50%	7,336	99.80%	13	0.20%	88	95.70%	4	4.30%	7323	99.60%	26	0.40%	21,110	99.80%	47	0.20%	21,217	99.90%	20	0.10%
	LDGT2	10934	10,887	99.60%	47	0.40%	5,427	99.70%	18	0.30%	92	89.30%	11	10.70%	5432	99.80%	13	0.20%	10,869	99.90%	8	0.10%	10,931	100.00%	3	0.00%
1999 Total		64679	64,324	99.50%	355	0.50%	24,489	99.80%	54	0.20%	1,133	95.60%	52	4.40%	24461	99.70%	82	0.30%	64,317	99.80%	100	0.20%	64,599	99.90%	80	0.10%
2000	LDGV	28297	28,119	99.40%	178	0.60%	11,258	99.80%	20	0.20%	1,530	96.70%	52	3.30%	11241	99.70%	37	0.30%	28,152	99.90%	36	0.10%	28,256	99.90%	41	0.10%
	LDGT1	17891	17,781	99.40%	110	0.60%	6,233	99.70%	16	0.30%	164	94.80%	9	5.20%	6204	99.30%	45	0.70%	17,791	99.80%	27	0.20%	17,878	99.90%	13	0.10%
	LDGT2	6821	6,788	99.50%	33	0.50%	2,976	99.70%	10	0.30%	144	96.00%	6	4.00%	2979	99.80%	7	0.20%	6,777	99.90%	9	0.10%	6,817	99.90%	4	0.10%
2000 Total		53009	52,688	99.40%	321	0.60%	20,467	99.80%	46	0.20%	1,838	96.50%	67	3.50%	20424	99.60%	89	0.40%	52,720	99.90%	72	0.10%	52,951	99.90%	58	0.10%
2001	LDGV	35758	35,614	99.60%	144	0.40%	12,148	99.80%	23	0.20%	2,381	98.10%	46	1.90%	12140	99.70%	31	0.30%	35,588	99.90%	30	0.10%	35,734	99.90%	24	0.10%
	LDGT1	22673	22,617	99.80%	56	0.20%	7,543	99.80%	15	0.20%	649	98.60%	9	1.40%	7547	99.90%	11	0.10%	22,582	99.90%	21	0.10%	22,669	100.00%	4	0.00%
	LDGT2	9794	9,724	99.30%	70	0.70%	3,983	99.70%	11	0.30%	262	90.00%	29	10.00%	3982	99.70%	12	0.30%	9,734	99.80%	21	0.20%	9,792	100.00%	2	0.00%
2001 Total		68225	67,955	99.60%	270	0.40%	23,674	99.80%	49	0.20%	3,292	97.50%	84	2.50%	23669	99.80%	54	0.20%	67,904	99.90%	72	0.10%	68,195	100.00%	30	0.00%
2002	LDGV	25866	25,739	99.50%	127	0.50%	8,034	99.50%	44	0.50%	1,364	98.20%	25	1.80%	8028	99.40%	50	0.60%	25,745	99.90%	20	0.10%	25,853	99.90%	13	0.10%
	LDGT1	17238	17,191	99.70%	47	0.30%	5,282	99.80%	8	0.20%	69	98.60%	1	1.40%	5274	99.70%	16	0.30%	17,159	99.90%	18	0.10%	17,234	100.00%	4	0.00%
	LDGT2	5632	5,614	99.70%	18	0.30%	2,208	99.60%	9	0.40%	96	97.00%	3	3.00%	2215	99.90%	2	0.10%	5,606	99.90%	4	0.10%	5,631	100.00%	1	0.00%
2002 Total		48736	48,544	99.60%	192	0.40%	15,524	99.60%	61	0.40%	1,529	98.10%	29	1.90%	15517	99.60%	68	0.40%	48,510	99.90%	42	0.10%	48,718	100.00%	18	0.00%
2003	LDGV	33616	33,486	99.60%	130	0.40%	7,364	99.30%	51	0.70%	1,257	99.10%	11	0.90%	7359	99.20%	56	0.80%	33,483	99.90%	22	0.10%	33,608	100.00%	8	0.00%
	LDGT1	23559	23,505	99.80%	54	0.20%	5,073	99.70%	17	0.30%	50	98.00%	1	2.00%	5056	99.30%	34	0.70%	23,462	100.00%	10	0.00%	23,558	100.00%	1	0.00%
	LDGT2	9419	9,374	99.50%	45	0.50%	3,297	99.50%</																		

Vehicle		Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
Year	Type	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	LDGT1	27352	27,299	99.80%	53	0.20%	4,544	99.80%	7	0.20%	354	99.70%	1	0.30%	4524	99.40%	27	0.60%	27,253	99.90%	19	0.10%	27,351	100.00%	1	0.00%
	LDGT2	9692	9,681	99.90%	11	0.10%	2,028	99.90%	3	0.10%	80	98.80%	1	1.20%	2027	99.80%	4	0.20%	9,659	100.00%	4	0.00%	9,692	100.00%	0	0.00%
2005 Total		71005	70,893	99.80%	112	0.20%	11,623	99.80%	25	0.20%	896	99.40%	5	0.60%	11602	99.60%	46	0.40%	70,761	99.90%	37	0.10%	71,000	100.00%	5	0.00%
2006	LDGV	20789	20,760	99.90%	29	0.10%	3,150	99.50%	16	0.50%	250	99.60%	1	0.40%	3155	99.70%	11	0.30%	20,663	100.00%	6	0.00%	20,788	100.00%	1	0.00%
	LDGT1	14622	14,604	99.90%	18	0.10%	2,348	99.70%	6	0.30%	172	100.00%	0	0.00%	2345	99.60%	9	0.40%	14,539	100.00%	1	0.00%	14,620	100.00%	2	0.00%
	LDGT2	7218	7,215	100.00%	3	0.00%	1,256	99.90%	1	0.10%	84	100.00%	0	0.00%	1257	100.00%	0	0.00%	7,171	100.00%	2	0.00%	7,218	100.00%	0	0.00%
2006 Total		42629	42,579	99.90%	50	0.10%	6,754	99.70%	23	0.30%	506	99.80%	1	0.20%	6757	99.70%	20	0.30%	42,373	100.00%	9	0.00%	42,626	100.00%	3	0.00%
2007	LDGV	34859	34,822	99.90%	37	0.10%	3,652	99.60%	16	0.40%	278	99.30%	2	0.70%	3653	99.60%	15	0.40%	34,756	100.00%	5	0.00%	34,857	100.00%	2	0.00%
	LDGT1	28131	28,120	100.00%	11	0.00%	2,568	100.00%	1	0.00%	288	100.00%	0	0.00%	2569	100.00%	0	0.00%	28,057	100.00%	7	0.00%	28,128	100.00%	3	0.00%
	LDGT2	11584	11,581	100.00%	3	0.00%	1,397	99.90%	1	0.10%	57	100.00%	0	0.00%	1397	99.90%	1	0.10%	11,535	100.00%	1	0.00%	11,584	100.00%	0	0.00%
2007 Total		74574	74,523	99.90%	51	0.10%	7,617	99.80%	18	0.20%	623	99.70%	2	0.30%	7619	99.80%	16	0.20%	74,348	100.00%	13	0.00%	74,569	100.00%	5	0.00%
2008	LDGV	8254	8,241	99.80%	13	0.20%	1,133	99.60%	4	0.40%	110	98.20%	2	1.80%	1131	99.50%	6	0.50%	8,230	100.00%	1	0.00%	8,254	100.00%	0	0.00%
	LDGT1	5788	5,778	99.80%	10	0.20%	713	100.00%	0	0.00%	40	100.00%	0	0.00%	705	98.90%	8	1.10%	5,773	100.00%	2	0.00%	5,788	100.00%	0	0.00%
	LDGT2	3033	3,030	99.90%	3	0.10%	449	100.00%	0	0.00%	29	100.00%	0	0.00%	449	100.00%	0	0.00%	3,023	99.90%	3	0.10%	3,033	100.00%	0	0.00%
2008 Total		17075	17,049	99.80%	26	0.20%	2,295	99.80%	4	0.20%	179	98.90%	2	1.10%	2285	99.40%	14	0.60%	17,026	100.00%	6	0.00%	17,075	100.00%	0	0.00%
2009	LDGV	2368	2,366	99.90%	2	0.10%	272	100.00%	0	0.00%	17	100.00%	0	0.00%	272	100.00%	0	0.00%	2,356	100.00%	0	0.00%	2,366	99.90%	2	0.10%
	LDGT1	1183	1,181	99.80%	2	0.20%	109	99.10%	1	0.90%	3	100.00%	0	0.00%	110	100.00%	0	0.00%	1,177	99.90%	1	0.10%	1,183	100.00%	0	0.00%
	LDGT2	666	663	99.50%	3	0.50%	83	100.00%	0	0.00%	4	100.00%	0	0.00%	83	100.00%	0	0.00%	662	99.50%	3	0.50%	666	100.00%	0	0.00%
2009 Total		4217	4,210	99.80%	7	0.20%	464	99.80%	1	0.20%	24	100.00%	0	0.00%	465	100.00%	0	0.00%	4,195	99.90%	4	0.10%	4,215	100.00%	2	0.00%
2010	LDGV	1933	1,930	99.80%	3	0.20%	161	99.40%	1	0.60%	13	100.00%	0	0.00%	162	100.00%	0	0.00%	1,929	99.90%	2	0.10%	1,933	100.00%	0	0.00%
	LDGT1	1039	1,038	99.90%	1	0.10%	102	100.00%	0	0.00%	1	100.00%	0	0.00%	102	100.00%	0	0.00%	1,039	100.00%	0	0.00%	1,038	99.90%	1	0.10%
	LDGT2	774	773	99.90%	1	0.10%	67	100.00%	0	0.00%	1	100.00%	0	0.00%	67	100.00%	0	0.00%	769	99.90%	1	0.10%	774	100.00%	0	0.00%
2010 Total		3746	3,741	99.90%	5	0.10%	330	99.70%	1	0.30%	15	100.00%	0	0.00%	331	100.00%	0	0.00%	3,737	99.90%	3	0.10%	3,745	100.00%	1	0.00%
2011	LDGV	509	508	99.80%	1	0.20%	54	98.20%	1	1.80%	6	100.00%	0	0.00%	55	100.00%	0	0.00%	508	100.00%	0	0.00%	509	100.00%	0	0.00%
	LDGT1	339	339	100.00%	0	0.00%	46	100.00%	0	0.00%	1	100.00%	0	0.00%	46	100.00%	0	0.00%	339	100.00%	0	0.00%	339	100.00%	0	0.00%
	LDGT2	248	248	100.00%	0	0.00%	25	100.00%	0	0.00%	3	100.00%	0	0.00%	25	100.00%	0	0.00%	246	100.00%	0	0.00%	248	100.00%	0	0.00%
2011 Total		1096	1,095	99.90%	1	0.10%	125	99.20%	1	0.80%	10	100.00%	0	0.00%	126	100.00%	0	0.00%	1,093	100.00%	0	0.00%	1,096	100.00%	0	0.00%
2012	LDGV	12	12	100.00%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	1	100.00%	0	0.00%	12	100.00%	0	0.00%	12	100.00%	0	0.00%
	LDGT1	11	11	100.00%	0	0.00%	4	100.00%	0	0.00%	1	100.00%	0	0.00%	4	100.00%	0	0.00%	11	100.00%	0	0.00%	11	100.00%	0	0.00%
	LDGT2	5	5	100.00%	0	0.00%	2	100.00%	0	0.00%	0	0.00%	0	0.00%	2	100.00%	0	0.00%	5	100.00%	0	0.00%	5	100.00%	0	0.00%
2012 Total		28	28	100.00%	0	0.00%	7	100.00%	0	0.00%	1	100.00%	0	0.00%	7	100.00%	0	0.00%	28	100.00%	0	0.00%	28	100.00%	0	0.00%
Grand Total		853418	848,164	99.40%	5,254	0.60%	368,154	99.70%	1,243	0.30%	52,252	97.80%	1,155	2.20%	362,069	99.70%	1,140	0.30%	848,909	99.90%	1,224	0.10%	852,533	99.90%	885	0.10%

Summary by Vehicle Type (V1.01)

Vehicle Type	Visual Overall					CAT				AIS				O2				Gas Cap				Opacity			
	Total	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
LDGV	438966	436305	99.40%	2661	0.60%	193319	99.70%	518	0.30%	23762	97.80%	524	2.20%	191914	99.70%	633	0.30%	436740	99.90%	581	0.10%	438365	99.90%	601	0.10%
LDGT1	294843	293107	99.40%	1736	0.60%	120796	99.70%	409	0.30%	17592	97.90%	371	2.10%	117551	99.70%	372	0.30%	293264	99.80%	469	0.20%	294614	99.90%	229	0.10%
LDGT2	119609	118752	99.30%	857	0.70%	54039	99.40%	316	0.60%	10898	97.70%	260	2.30%	52604	99.70%	135	0.30%	118905	99.90%	174	0.10%	119554	100.00%	55	0.00%
Grand Total	853418	848164	99.40%	5254	0.60%	368154	99.70%	1243	0.30%	52252	97.80%	1,155	2.20%	362069	99.70%	1,140	0.30%	848909	99.90%	1224	0.10%	852533	99.90%	885	0.10%

A-5

I/M240 Initial Visual Failure Report
(Advisory)

Initial Visual Failure Report (Advisory) (V1.01)

Vehicle		Cap Pressure				Eng Light				OBD				Evap System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
1982	LDGV	286	91.67%	26	8.33%	170	80.95%	40	19.05%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	229	85.77%	38	14.23%	44	73.33%	16	26.67%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	67	77.01%	20	22.99%	12	70.59%	5	29.41%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1982 Total		582	87.39%	84	12.61%	226	78.75%	61	21.25%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1983	LDGV	671	92.55%	54	7.45%	409	84.68%	74	15.32%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	469	79.22%	123	20.78%	79	66.39%	40	33.61%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	185	76.45%	57	23.55%	28	68.29%	13	31.71%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1983 Total		1325	84.99%	234	15.01%	516	80.25%	127	19.75%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1984	LDGV	891	89.46%	105	10.54%	604	83.43%	120	16.57%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	588	83.64%	115	16.36%	159	71.62%	63	28.38%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	235	81.03%	55	18.97%	34	69.39%	15	30.61%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1984 Total		1714	86.17%	275	13.83%	797	80.10%	198	19.90%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1985	LDGV	1830	93.65%	124	6.35%	1,200	84.75%	216	15.25%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	1282	86.62%	198	13.38%	585	78.00%	165	22.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	386	76.59%	118	23.41%	99	80.49%	24	19.51%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1985 Total		3498	88.83%	440	11.17%	1,884	82.31%	405	17.69%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1986	LDGV	1771	94.60%	101	5.40%	1,132	81.61%	255	18.39%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	1278	89.18%	155	10.82%	761	82.90%	157	17.10%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	330	85.94%	54	14.06%	89	76.72%	27	23.28%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1986 Total		3379	91.60%	310	8.40%	1,982	81.87%	439	18.13%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1987	LDGV	3159	95.29%	156	4.71%	2,093	80.75%	499	19.25%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	2095	90.22%	227	9.78%	1,212	81.29%	279	18.71%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	585	86.28%	93	13.72%	492	91.62%	45	8.38%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1987 Total		5839	92.46%	476	7.54%	3,797	82.19%	823	17.81%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1988	LDGV	2687	94.48%	157	5.52%	2,136	84.56%	390	15.44%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	1960	92.85%	151	7.15%	1,600	86.58%	248	13.42%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	710	88.75%	90	11.25%	704	92.75%	55	7.25%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1988 Total		5357	93.08%	398	6.92%	4,440	86.50%	693	13.50%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1989	LDGV	5235	94.53%	303	5.47%	4,705	89.48%	553	10.52%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	3397	91.29%	324	8.71%	2,852	87.59%	404	12.41%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	1229	89.32%	147	10.68%	1,275	94.37%	76	5.63%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1989 Total		9861	92.72%	774	7.28%	8,832	89.53%	1,033	10.47%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1990	LDGV	5836	95.50%	275	4.50%	5,562	90.84%	561	9.16%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	2572	91.34%	244	8.66%	2,194	84.29%	409	15.71%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	1001	91.83%	89	8.17%	1,029	94.84%	56	5.16%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1990 Total		9409	93.93%	608	6.07%	8,785	89.54%	1,026	10.46%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1991	LDGV	9736	95.03%	509	4.97%	9,538	92.11%	817	7.89%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	5107	92.40%	420	7.60%	4,935	91.12%	481	8.88%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	1319	90.22%	143	9.78%	1,386	93.90%	90	6.10%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1991 Total		16162	93.78%	1,072	6.22%	15,859	91.95%	1,388	8.05%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1992	LDGV	8642	95.66%	392	4.34%	8,341	91.70%	755	8.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	3844	92.65%	305	7.35%	3,814	92.35%	316	7.65%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	1468	91.52%	136	8.48%	1,517	93.70%	102	6.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1992 Total		13954	94.37%	833	5.63%	13,672	92.10%	1,173	7.90%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1993	LDGV	13391	95.61%	615	4.39%	13,174	93.19%	963	6.81%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	7754	92.81%	601	7.19%	8,038	94.93%	429	5.07%	0	0.00%	0	0.00%	0	0.00%	0	0.00%

Vehicle		Cap Pressure				Eng Light				OBD				Evap System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	LDGT2	2457	90.00%	273	10.00%	2,622	94.52%	152	5.48%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1993 Total		23602	94.07%	1,489	5.93%	23,834	93.92%	1,544	6.08%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1994	LDGV	12725	95.97%	535	4.03%	12,272	91.31%	1,168	8.69%	370	75.82%	118	24.18%	0	0.00%	0	0.00%
	LDGT1	8187	94.47%	479	5.53%	8,036	91.78%	720	8.22%	6	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	3169	92.12%	271	7.88%	3,315	95.18%	168	4.82%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
1994 Total		24081	94.93%	1,285	5.07%	23,623	91.99%	2,056	8.01%	376	76.11%	118	23.89%	0	0.00%	0	0.00%
1995	LDGV	20432	95.70%	917	4.30%	19,213	88.82%	2,419	11.18%	2,512	77.82%	716	22.18%	0	0.00%	0	0.00%
	LDGT1	11060	93.83%	727	6.17%	10,646	89.03%	1,312	10.97%	1,479	70.83%	609	29.17%	0	0.00%	0	0.00%
	LDGT2	5165	90.00%	574	10.00%	5,573	95.61%	256	4.39%	57	69.51%	25	30.49%	0	0.00%	0	0.00%
1995 Total		36657	94.29%	2,218	5.71%	35,432	89.89%	3,987	10.11%	4,048	74.99%	1,350	25.01%	0	0.00%	0	0.00%
1996	LDGV	16517	95.99%	690	4.01%	13,604	77.88%	3,865	22.12%	11,618	77.47%	3,379	22.53%	0	0.00%	0	0.00%
	LDGT1	9273	93.26%	670	6.74%	7,674	76.19%	2,398	23.81%	6,947	74.40%	2,390	25.60%	0	0.00%	0	0.00%
	LDGT2	3586	91.85%	318	8.15%	2,980	75.06%	990	24.94%	2,620	74.50%	897	25.50%	0	0.00%	0	0.00%
1996 Total		29376	94.60%	1,678	5.40%	24,258	76.98%	7,253	23.02%	21,185	76.07%	6,666	23.93%	0	0.00%	0	0.00%
1997	LDGV	25415	95.51%	1,195	4.49%	21,612	80.04%	5,389	19.96%	19,326	79.33%	5,034	20.67%	0	0.00%	0	0.00%
	LDGT1	15920	92.03%	1,379	7.97%	13,937	79.39%	3,618	20.61%	12,772	78.38%	3,524	21.62%	0	0.00%	0	0.00%
	LDGT2	5986	91.73%	540	8.27%	5,047	76.19%	1,577	23.81%	4,523	74.39%	1,557	25.61%	0	0.00%	0	0.00%
1997 Total		47321	93.83%	3,114	6.17%	40,596	79.32%	10,584	20.68%	36,621	78.36%	10,115	21.64%	0	0.00%	0	0.00%
1998	LDGV	21444	95.79%	942	4.21%	18,566	81.85%	4,117	18.15%	16,906	81.58%	3,817	18.42%	0	0.00%	0	0.00%
	LDGT1	15216	94.67%	857	5.33%	13,240	81.46%	3,013	18.54%	12,165	80.96%	2,861	19.04%	0	0.00%	0	0.00%
	LDGT2	5207	94.13%	325	5.87%	4,436	79.31%	1,157	20.69%	3,970	78.85%	1,065	21.15%	0	0.00%	0	0.00%
1998 Total		41867	95.17%	2,124	4.83%	36,242	81.39%	8,287	18.61%	33,041	81.01%	7,743	18.99%	0	0.00%	0	0.00%
1999	LDGV	30541	95.26%	1,521	4.74%	27,614	84.95%	4,894	15.05%	25,277	85.53%	4,278	14.47%	0	0.00%	0	0.00%
	LDGT1	19864	94.56%	1,142	5.44%	18,439	86.82%	2,798	13.18%	17,125	87.03%	2,552	12.97%	0	0.00%	0	0.00%
	LDGT2	10235	94.77%	565	5.23%	9,009	82.39%	1,925	17.61%	8,033	82.36%	1,720	17.64%	0	0.00%	0	0.00%
1999 Total		60640	94.95%	3,228	5.05%	55,062	85.13%	9,617	14.87%	50,435	85.50%	8,550	14.50%	0	0.00%	0	0.00%
2000	LDGV	26652	95.55%	1,242	4.45%	23,566	83.28%	4,731	16.72%	21,472	84.25%	4,014	15.75%	0	0.00%	0	0.00%
	LDGT1	16703	94.44%	983	5.56%	15,546	86.89%	2,345	13.11%	14,383	87.58%	2,040	12.42%	0	0.00%	0	0.00%
	LDGT2	6365	94.55%	367	5.45%	5,863	85.96%	958	14.04%	5,244	87.23%	768	12.77%	0	0.00%	0	0.00%
2000 Total		49720	95.05%	2,592	4.95%	44,975	84.84%	8,034	15.16%	41,099	85.76%	6,822	14.24%	0	0.00%	0	0.00%
2001	LDGV	34108	96.74%	1,149	3.26%	30,256	84.61%	5,502	15.39%	28,325	86.03%	4,601	13.97%	0	0.00%	0	0.00%
	LDGT1	21338	95.07%	1,106	4.93%	19,405	85.59%	3,268	14.41%	18,073	85.47%	3,073	14.53%	0	0.00%	0	0.00%
	LDGT2	9003	93.11%	666	6.89%	8,419	85.96%	1,375	14.04%	7,563	86.57%	1,173	13.43%	0	0.00%	0	0.00%
2001 Total		64449	95.66%	2,921	4.34%	58,080	85.13%	10,145	14.87%	53,961	85.91%	8,847	14.09%	0	0.00%	0	0.00%
2002	LDGV	24508	96.14%	985	3.86%	22,321	86.29%	3,545	13.71%	21,265	87.70%	2,982	12.30%	0	0.00%	0	0.00%
	LDGT1	16291	96.11%	660	3.89%	15,103	87.61%	2,135	12.39%	14,069	87.07%	2,090	12.93%	0	0.00%	0	0.00%
	LDGT2	5216	93.85%	342	6.15%	4,872	86.51%	760	13.49%	4,310	87.09%	639	12.91%	0	0.00%	0	0.00%
2002 Total		46015	95.86%	1,987	4.14%	42,296	86.79%	6,440	13.21%	39,644	87.41%	5,711	12.59%	0	0.00%	0	0.00%
2003	LDGV	32145	96.88%	1,036	3.12%	30,725	91.40%	2,891	8.60%	29,432	92.12%	2,517	7.88%	0	0.00%	0	0.00%
	LDGT1	22291	95.92%	949	4.08%	21,762	92.37%	1,797	7.63%	20,648	92.22%	1,743	7.78%	0	0.00%	0	0.00%
	LDGT2	8901	95.66%	404	4.34%	8,474	89.97%	945	10.03%	7,585	90.91%	758	9.09%	0	0.00%	0	0.00%
2003 Total		63337	96.37%	2,389	3.63%	60,961	91.54%	5,633	8.46%	57,665	91.99%	5,018	8.01%	0	0.00%	0	0.00%
2004	LDGV	18759	95.94%	794	4.06%	18,443	92.81%	1,428	7.19%	17,514	93.17%	1,283	6.83%	0	0.00%	0	0.00%
	LDGT1	14176	96.68%	487	3.32%	13,955	93.88%	910	6.12%	13,178	93.97%	846	6.03%	0	0.00%	0	0.00%
	LDGT2	6463	96.23%	253	3.77%	6,364	93.45%	446	6.55%	5,655	93.81%	373	6.19%	0	0.00%	0	0.00%
2004 Total		39398	96.25%	1,534	3.75%	38,762	93.30%	2,784	6.70%	36,347	93.56%	2,502	6.44%	0	0.00%	0	0.00%
2005	LDGV	32375	96.66%	1,119	3.34%	32,514	95.74%	1,447	4.26%	31,254	96.05%	1,284	3.95%	0	0.00%	0	0.00%

Vehicle		Cap Pressure				Eng Light				OBD				Evap System			
Year	Type	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
	LDGT1	26371	97.59%	651	2.41%	26,191	95.76%	1,161	4.24%	25,033	95.93%	1,063	4.07%	0	0.00%	0	0.00%
	LDGT2	9362	97.73%	217	2.27%	9,230	95.23%	462	4.77%	8,422	96.02%	349	3.98%	0	0.00%	0	0.00%
2005 Total		68108	97.17%	1,987	2.83%	67,935	95.68%	3,070	4.32%	64,709	96.00%	2,696	4.00%	0	0.00%	0	0.00%
2006	LDGV	20003	97.79%	452	2.21%	20,041	96.40%	748	3.60%	19,235	96.57%	683	3.43%	0	0.00%	0	0.00%
	LDGT1	13954	96.64%	485	3.36%	14,173	96.93%	449	3.07%	13,651	97.24%	387	2.76%	0	0.00%	0	0.00%
	LDGT2	6934	97.44%	182	2.56%	6,996	96.92%	222	3.08%	6,587	97.28%	184	2.72%	0	0.00%	0	0.00%
2006 Total		40891	97.34%	1,119	2.66%	41,210	96.67%	1,419	3.33%	39,473	96.92%	1,254	3.08%	0	0.00%	0	0.00%
2007	LDGV	33821	98.45%	533	1.55%	34,263	98.29%	596	1.71%	33,093	98.39%	541	1.61%	0	0.00%	0	0.00%
	LDGT1	26970	96.87%	872	3.13%	27,677	98.39%	454	1.61%	26,802	98.60%	381	1.40%	0	0.00%	0	0.00%
	LDGT2	11182	97.79%	253	2.21%	11,379	98.23%	205	1.77%	10,929	98.28%	191	1.72%	0	0.00%	0	0.00%
2007 Total		71973	97.75%	1,658	2.25%	73,319	98.32%	1,255	1.68%	70,824	98.45%	1,113	1.55%	0	0.00%	0	0.00%
2008	LDGV	7989	98.48%	123	1.52%	8,153	98.78%	101	1.22%	7,905	98.81%	95	1.19%	0	0.00%	0	0.00%
	LDGT1	5556	97.05%	169	2.95%	5,727	98.95%	61	1.05%	5,604	98.87%	64	1.13%	0	0.00%	0	0.00%
	LDGT2	2842	96.60%	100	3.40%	2,998	98.85%	35	1.15%	2,924	98.85%	34	1.15%	0	0.00%	0	0.00%
2008 Total		16387	97.66%	392	2.34%	16,878	98.85%	197	1.15%	16,433	98.84%	193	1.16%	0	0.00%	0	0.00%
2009	LDGV	2294	98.79%	28	1.21%	2,341	98.86%	27	1.14%	2,282	99.13%	20	0.87%	0	0.00%	0	0.00%
	LDGT1	1096	98.21%	20	1.79%	1,177	99.49%	6	0.51%	1,152	99.40%	7	0.60%	0	0.00%	0	0.00%
	LDGT2	574	97.79%	13	2.21%	664	99.70%	2	0.30%	648	99.39%	4	0.61%	0	0.00%	0	0.00%
2009 Total		3964	98.48%	61	1.52%	4,182	99.17%	35	0.83%	4,082	99.25%	31	0.75%	0	0.00%	0	0.00%
2010	LDGV	1767	99.05%	17	0.95%	1,920	99.33%	13	0.67%	1,875	99.47%	10	0.53%	0	0.00%	0	0.00%
	LDGT1	915	98.49%	14	1.51%	1,033	99.42%	6	0.58%	1,016	99.61%	4	0.39%	0	0.00%	0	0.00%
	LDGT2	542	98.01%	11	1.99%	768	99.22%	6	0.78%	757	99.47%	4	0.53%	0	0.00%	0	0.00%
2010 Total		3224	98.71%	42	1.29%	3,721	99.33%	25	0.67%	3,648	99.51%	18	0.49%	0	0.00%	0	0.00%
2011	LDGV	434	99.77%	1	0.23%	504	99.02%	5	0.98%	493	99.00%	5	1.00%	0	0.00%	0	0.00%
	LDGT1	288	98.97%	3	1.03%	339	100.00%	0	0.00%	332	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	202	98.06%	4	1.94%	248	100.00%	0	0.00%	241	100.00%	0	0.00%	0	0.00%	0	0.00%
2011 Total		924	99.14%	8	0.86%	1,091	99.54%	5	0.46%	1,066	99.53%	5	0.47%	0	0.00%	0	0.00%
2012	LDGV	9	100.00%	0	0.00%	12	100.00%	0	0.00%	12	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	11	100.00%	0	0.00%	11	100.00%	0	0.00%	11	100.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	3	75.00%	1	25.00%	5	100.00%	0	0.00%	5	100.00%	0	0.00%	0	0.00%	0	0.00%
2012 Total		23	95.83%	1	4.17%	28	100.00%	0	0.00%	28	100.00%	0	0.00%	0	0.00%	0	0.00%
Grand Total		803037	95.56%	37,331	4.44%	753,275	89.36%	89,736	10.64%	574,685	89.31%	68,752	10.69%	0	0.00%	0	0.00%

Records 1 - 93 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	Cap Pressure				Eng Light				OBD				Evap System			
	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%	Pass	Pass%	Fail	Fail%
LDGV	416073	96.28%	16096	3.72%	387004	88.94%	48129	11.06%	290166	89.13%	35377	10.87%	0	0.00%	0	0.00%
LDGT1	276055	94.99%	14554	5.01%	260344	89.84%	29458	10.16%	204446	89.64%	23634	10.36%	0	0.00%	0	0.00%
LDGT2	110909	94.32%	6681	5.68%	105927	89.71%	12149	10.29%	80073	89.15%	9741	10.85%	0	0.00%	0	0.00%
Grand Total	803037	95.56%	37331	4.44%	753275	89.36%	89736	10.64%	574685	89.31%	68752	10.69%	0	0.00%	0	0.00%

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I/M240 Retest Pass Reduction Report

Retest Pass Reduction Report (V1.01)

Vehicle		Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
1982	LDGV	115	6.9652	72.7536	2.0778	51	44.35%	1.5274	18.5434	2.1076	2.4994	62.07%	22.3010	54.60%	-0.0377	-1.82%	245.00
	LDGT1	153	4.5269	73.9683	2.1584	89	58.17%	2.6583	29.3295	2.3742	1.5832	37.33%	30.3292	50.84%	-0.0123	-0.52%	513.33
	LDGT2	74	6.2965	89.7113	1.9835	34	45.95%	2.1530	28.5588	2.9933	4.2777	66.52%	47.1908	62.30%	-0.3287	-12.33%	259.67
1982 Total		342	5.7297	76.9663	2.0935	174	50.88%	2.2281	26.0175	2.4170	2.3783	51.63%	31.2709	54.59%	-0.0816	-3.49%	366.29
1983	LDGV	324	4.5155	65.1420	1.8803	152	46.91%	1.3199	14.1891	1.9666	1.9020	59.03%	33.4046	70.19%	0.0553	2.74%	297.80
	LDGT1	305	5.2939	72.3722	2.4590	191	62.62%	2.6598	28.9696	2.6306	1.4846	35.82%	22.9010	44.15%	0.1295	4.69%	319.20
	LDGT2	175	6.7853	89.8170	2.8566	100	57.14%	2.4700	31.3311	3.1287	3.2536	56.84%	41.5052	56.98%	-0.1588	-5.35%	344.00
1983 Total		804	5.3048	73.2556	2.3123	443	55.10%	2.1572	24.4312	2.5152	2.0271	48.45%	30.7046	55.69%	0.0390	1.53%	314.70
1984	LDGV	388	4.0134	58.5479	1.8663	195	50.26%	1.3398	12.5671	2.0313	1.4375	51.76%	27.3128	68.49%	-0.0642	-3.26%	390.50
	LDGT1	424	4.8552	72.6772	2.5237	222	52.36%	2.1245	24.2148	2.6889	1.5250	41.79%	32.7144	57.47%	-0.1500	-5.91%	259.78
	LDGT2	208	7.2738	91.6027	3.0094	89	42.79%	2.3084	25.8340	3.1582	2.9899	56.43%	45.3587	63.71%	0.1853	5.54%	376.50
1984 Total		1020	5.0282	71.1619	2.3727	506	49.61%	1.8544	20.0109	2.5181	1.7490	48.54%	32.8568	62.15%	-0.0580	-2.36%	327.11
1985	LDGV	723	3.4398	45.2685	1.9677	329	45.50%	1.0615	9.3917	1.9012	1.8168	63.12%	27.2289	74.35%	0.0382	1.97%	213.81
	LDGT1	713	4.2756	70.3803	2.4757	383	53.72%	1.9631	21.5562	2.7793	1.6429	45.56%	32.1451	59.86%	-0.2207	-8.62%	315.10
	LDGT2	393	6.2289	83.7461	2.6336	198	50.38%	1.8468	23.5891	3.1440	3.2275	63.60%	39.0652	62.35%	-0.1291	-4.28%	327.86
1985 Total		1829	4.3649	63.3256	2.3088	910	49.75%	1.6118	17.6006	2.5412	2.0506	55.99%	31.8734	64.42%	-0.1072	-4.40%	279.67
1986	LDGV	516	3.1742	38.8179	2.1717	267	51.74%	1.0178	8.7244	1.8767	1.6121	61.30%	23.6274	73.03%	0.2612	12.22%	315.89
	LDGT1	550	4.2492	55.2504	2.6479	304	55.27%	1.7337	17.9986	2.6185	1.5311	46.90%	22.5303	55.59%	0.0733	2.72%	173.95
	LDGT2	304	5.7382	81.8080	2.8384	135	44.41%	1.7983	20.7401	2.6661	2.9950	62.48%	45.2464	68.57%	0.1443	5.14%	368.33
1986 Total		1370	4.1747	54.9543	2.5108	706	51.53%	1.4753	15.0154	2.3471	1.8417	55.52%	27.2889	64.51%	0.1580	6.31%	248.50
1987	LDGV	751	3.1132	42.6906	2.0194	405	53.93%	0.9421	8.1671	1.7282	1.5421	62.08%	23.0355	73.83%	0.2996	14.77%	315.65
	LDGT1	853	3.5020	51.0578	2.3282	485	56.86%	1.3855	13.8360	2.2782	1.6214	53.92%	24.4258	63.84%	0.0938	3.96%	383.78
	LDGT2	309	4.2318	48.2106	3.3358	173	55.99%	1.6054	12.9952	2.9483	1.5914	49.78%	21.2114	62.01%	0.1573	5.06%	249.47
1987 Total		1913	3.4672	47.3131	2.3697	1063	55.57%	1.2523	11.5393	2.1777	1.5863	55.88%	23.3730	66.95%	0.1825	7.73%	320.06
1988	LDGV	739	2.9200	37.1273	1.9448	395	53.45%	0.8787	8.1169	1.7394	1.5960	64.49%	22.3763	73.38%	0.1754	9.16%	263.58
	LDGT1	781	3.7695	42.3217	2.5742	406	51.98%	1.3137	12.0290	2.1707	1.9830	60.15%	23.1046	65.76%	0.3439	13.67%	364.38
	LDGT2	356	3.8615	37.6668	3.4235	179	50.28%	1.4339	12.2230	2.6117	2.1512	60.00%	16.8676	57.98%	0.5385	17.09%	362.79
1988 Total		1876	3.4523	39.3922	2.4874	980	52.24%	1.1604	10.4876	2.0774	1.8577	61.55%	21.6718	67.39%	0.3115	13.04%	326.11
1989	LDGV	1146	2.7943	35.9705	1.8791	663	57.85%	0.8434	8.1935	1.6790	1.4648	63.46%	22.0445	72.90%	0.0535	3.09%	325.97
	LDGT1	1151	3.7831	45.4045	2.6077	639	55.52%	1.3490	12.3274	2.2691	1.7886	57.00%	22.8290	64.94%	0.2653	10.47%	382.80
	LDGT2	478	4.2576	36.1455	3.5047	281	58.79%	1.5109	11.7529	2.8741	1.6892	52.79%	17.2081	59.42%	0.4566	13.71%	353.57
1989 Total		2775	3.4565	39.9136	2.4613	1583	57.05%	1.1660	10.4940	2.1294	1.6353	58.38%	21.5026	67.20%	0.2106	9.00%	355.30
1990	LDGV	1306	2.7252	33.0965	2.3531	700	53.60%	0.7863	7.8781	1.6938	1.4257	64.45%	18.5700	70.21%	0.4046	19.28%	397.09
	LDGT1	861	3.3738	36.5650	2.7847	489	56.79%	1.2742	11.6602	2.3163	1.5257	54.49%	17.3034	59.74%	0.3990	14.70%	287.32
	LDGT2	355	3.5493	38.7230	3.2664	198	55.77%	1.4738	12.5902	2.7320	1.4538	49.66%	15.0534	54.46%	0.5207	16.01%	362.83
1990 Total		2522	3.0626	35.0726	2.6290	1387	55.00%	1.0564	9.8842	2.0615	1.4650	58.10%	17.6215	64.06%	0.4192	16.90%	353.42
1991	LDGV	2004	2.5799	31.2314	2.1391	1122	55.99%	0.7282	7.2935	1.6678	1.2910	63.94%	17.7046	70.82%	0.2664	13.77%	319.28
	LDGT1	1176	2.8414	36.5350	2.4720	757	64.37%	1.0587	10.5618	1.9246	1.2755	54.64%	18.6295	63.82%	0.2544	11.68%	325.26
	LDGT2	482	4.1999	39.5852	2.9424	281	58.30%	1.2908	11.1645	2.5155	1.5931	55.24%	17.8341	61.50%	0.3225	11.37%	355.92
1991 Total		3662	2.8771	34.0341	2.3517	2160	58.98%	0.9172	8.9425	1.8681	1.3249	59.09%	18.0456	66.87%	0.2695	12.61%	326.76
1992	LDGV	2065	2.5264	32.0194	2.1257	1076	52.11%	0.6657	6.3846	1.5028	1.2767	65.73%	20.3465	76.12%	0.3674	19.64%	302.23
	LDGT1	880	2.7648	33.2670	2.6718	550	62.50%	0.9863	10.2774	2.0399	1.2683	56.25%	16.4059	61.48%	0.3316	13.98%	290.50
	LDGT2	652	4.1803	37.9171	3.3119	345	52.91%	1.3969	12.5387	2.4987	1.8312	56.73%	17.9683	58.90%	0.6766	21.31%	237.13
1992 Total		3597	2.8845	33.3936	2.4743	1971	54.80%	0.8831	8.5481	1.8270	1.3714	60.83%	18.8306	68.78%	0.4115	18.38%	284.75

Vehicle		Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
1993	LDGV	2676	2.3645	26.6702	2.2808	1505	56.24%	0.6666	6.3670	1.6009	1.2232	64.73%	16.5353	72.20%	0.3774	19.08%	276.14
	LDGT1	1434	3.0047	31.8575	2.6649	987	68.83%	1.0164	9.7738	2.0784	1.1576	53.25%	14.2943	59.39%	0.3875	15.71%	372.48
	LDGT2	1042	3.9505	31.8430	3.2534	553	53.07%	1.3033	11.2908	2.4056	1.7007	56.61%	14.0046	55.36%	0.5068	17.40%	322.19
1993 Total		5152	2.8635	29.1602	2.5844	3045	59.10%	0.8956	8.3655	1.9018	1.2887	59.00%	15.3493	64.72%	0.4042	17.53%	313.76
1994	LDGV	2245	2.2137	22.7246	2.0632	1294	57.64%	0.5265	5.4738	1.3035	1.1639	68.85%	12.9498	70.29%	0.4576	25.98%	294.31
	LDGT1	1769	2.4459	28.3106	2.9805	1047	59.19%	0.8052	8.6456	1.8595	1.2658	61.12%	14.7869	63.10%	0.7847	29.68%	276.64
	LDGT2	1342	3.1972	27.5794	3.4433	656	48.88%	0.9878	9.3397	2.0297	1.6214	62.14%	15.4860	62.38%	0.9859	32.69%	324.55
1994 Total		5356	2.5368	25.7860	2.7119	2997	55.96%	0.7248	7.4280	1.6567	1.2997	64.20%	14.1467	65.57%	0.6875	29.33%	295.41
1995	LDGV	3230	1.9660	19.9652	1.9847	1967	60.90%	0.4941	4.9106	1.2102	1.0234	67.44%	11.8039	70.62%	0.4252	26.00%	307.45
	LDGT1	2410	2.4238	25.0319	2.9688	1461	60.62%	0.7660	8.0029	1.8863	1.2466	61.94%	11.9849	59.96%	0.6885	26.74%	294.83
	LDGT2	2159	3.2307	27.6107	3.0805	1145	53.03%	1.0337	9.7109	2.0940	1.3869	57.29%	12.1191	55.52%	0.6633	24.06%	345.61
1995 Total		7799	2.4576	23.6474	2.5921	4573	58.64%	0.7161	7.1005	1.6475	1.1857	62.35%	11.9407	62.71%	0.5690	25.67%	315.11
1996	LDGV	2495	1.3482	17.4573	1.8658	1474	59.08%	0.3599	4.1237	0.9603	0.6677	64.98%	10.4094	71.63%	0.5186	35.07%	292.41
	LDGT1	1692	1.3630	16.6209	2.7241	1150	67.97%	0.4052	5.2331	1.5485	0.7385	64.57%	8.5399	62.00%	0.7199	31.74%	350.25
	LDGT2	900	1.8801	22.1646	2.6816	551	61.22%	0.5672	6.1062	1.5376	0.8571	60.18%	12.5111	67.20%	0.7112	31.62%	499.86
1996 Total		5087	1.4472	18.0119	2.2956	3175	62.41%	0.4123	4.8696	1.2736	0.7262	63.79%	10.0970	67.46%	0.6249	32.92%	347.34
1997	LDGV	3366	1.3065	16.1546	1.7006	2217	65.86%	0.3245	3.9545	0.8736	0.6225	65.74%	9.3152	70.20%	0.5043	36.60%	306.16
	LDGT1	3049	1.1885	17.4730	2.2792	2102	68.94%	0.3816	5.3761	1.3557	0.5335	58.30%	8.9546	62.49%	0.4867	26.41%	309.68
	LDGT2	1332	1.8142	16.7189	2.7887	885	66.44%	0.4974	6.0186	1.5690	0.6968	58.35%	6.9812	53.70%	0.7847	33.34%	425.52
1997 Total		7747	1.3474	16.7705	2.1154	5204	67.17%	0.3770	4.8797	1.1866	0.5992	61.38%	8.7726	64.26%	0.5448	31.47%	326.95
1998	LDGV	2842	1.0171	14.7163	1.6640	1795	63.16%	0.2574	3.6691	0.6910	0.5592	68.48%	8.5457	69.96%	0.6147	47.08%	317.77
	LDGT1	2365	0.9678	13.3059	2.4506	1611	68.12%	0.3309	4.3959	1.2556	0.4915	59.76%	6.9824	61.37%	0.7909	38.65%	323.93
	LDGT2	1225	1.6213	17.7060	2.9569	716	58.45%	0.3671	5.1453	1.3408	0.7061	65.79%	8.2824	61.68%	1.1150	45.40%	439.60
1998 Total		6432	1.1140	14.7671	2.1995	4122	64.09%	0.3052	4.2096	1.0245	0.5583	64.66%	7.8890	65.21%	0.7705	42.92%	340.54
1999	LDGV	3670	0.9226	12.3858	1.5947	2569	70.00%	0.2173	3.1498	0.6641	0.4968	69.57%	6.9325	68.76%	0.5911	47.09%	351.95
	LDGT1	2558	0.8298	11.5136	2.0797	1843	72.05%	0.2741	3.5881	0.9753	0.3604	56.80%	5.2637	59.46%	0.7176	42.39%	343.78
	LDGT2	1907	1.6051	13.7023	2.8188	1130	59.26%	0.3797	4.2000	1.2512	0.7517	66.44%	7.8888	65.26%	1.0356	45.29%	311.28
1999 Total		8135	1.0534	12.4201	2.0342	5542	68.13%	0.2693	3.5097	0.8873	0.5034	65.15%	6.5725	65.19%	0.7238	44.93%	341.98
2000	LDGV	3200	0.8898	11.8576	1.6924	2185	68.28%	0.1787	2.8652	0.5479	0.5000	73.67%	6.2333	68.51%	0.7980	59.29%	420.69
	LDGT1	1983	0.6149	10.5904	1.8824	1466	73.93%	0.2265	3.1919	0.8437	0.2584	53.29%	4.7003	59.56%	0.6239	42.51%	310.50
	LDGT2	1025	1.9682	24.5680	2.4154	613	59.80%	0.2716	3.6025	0.9499	0.9516	77.80%	11.8745	76.72%	0.8898	48.37%	415.40
2000 Total		6208	0.9800	13.5514	1.8725	4264	68.69%	0.2085	3.0835	0.7074	0.4819	69.80%	6.5173	67.88%	0.7513	51.51%	384.85
2001	LDGV	2473	0.7206	10.4261	1.5011	1853	74.93%	0.1294	2.2765	0.3846	0.4448	77.46%	5.8622	72.03%	0.7354	65.66%	319.43
	LDGT1	1645	0.4696	8.9784	1.3538	1365	82.98%	0.1263	2.4418	0.4740	0.2223	63.78%	4.1715	63.08%	0.5217	52.40%	442.55
	LDGT2	1022	0.6679	8.4267	1.7865	818	80.04%	0.2248	3.2539	0.7761	0.3170	58.51%	3.8935	54.47%	0.5474	41.36%	274.40
2001 Total		5140	0.6298	9.5652	1.5107	4036	78.52%	0.1477	2.5305	0.4942	0.3436	69.94%	4.8914	65.91%	0.6250	55.84%	355.24
2002	LDGV	1870	0.6563	8.6843	1.4733	1456	77.86%	0.1085	1.8674	0.3258	0.3701	77.33%	5.2799	73.87%	0.7510	69.75%	356.97
	LDGT1	1126	0.5485	14.4956	1.2084	912	80.99%	0.1051	2.5092	0.4042	0.3297	75.82%	8.6119	77.44%	0.5043	55.51%	301.56
	LDGT2	539	0.5084	8.3953	1.6635	441	81.82%	0.1969	2.8211	0.7873	0.2431	55.25%	3.4512	55.02%	0.5613	41.62%	151.88
2002 Total		3535	0.5994	10.4913	1.4179	2809	79.46%	0.1213	2.2255	0.4237	0.3371	73.54%	6.0746	73.19%	0.6411	60.21%	314.35
2003	LDGV	1632	0.6874	7.8932	1.0202	1364	83.58%	0.0843	1.5869	0.2513	0.3917	82.29%	4.4022	73.50%	0.5354	68.06%	342.35
	LDGT1	1152	0.4021	8.5626	0.7003	1057	91.75%	0.0844	1.7524	0.3058	0.2075	71.08%	3.8702	68.83%	0.2912	48.78%	152.31
	LDGT2	572	0.6047	11.5761	1.3036	490	85.66%	0.1596	2.5331	0.5059	0.2902	64.51%	6.0801	70.59%	0.5626	52.65%	422.00
2003 Total		3356	0.5754	8.7507	0.9587	2911	86.74%	0.0970	1.8063	0.3139	0.3077	76.02%	4.4915	71.32%	0.4513	58.98%	288.37

Vehicle		Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
2004	LDGV	1108	0.4823	8.1177	0.9324	955	86.19%	0.0697	1.4568	0.1823	0.2968	80.97%	4.8948	77.06%	0.5142	73.83%	327.73
	LDGT1	640	0.2829	6.5008	0.7101	573	89.53%	0.0667	1.9445	0.1995	0.1496	69.16%	2.5949	57.16%	0.3398	63.01%	306.33
	LDGT2	326	0.3790	6.6663	1.1437	289	88.65%	0.1079	2.0286	0.3077	0.1575	59.34%	3.0972	60.42%	0.5397	63.69%	287.50
2004 Total		2074	0.4045	7.3906	0.8970	1817	87.61%	0.0749	1.7015	0.2077	0.2282	75.30%	3.8836	69.53%	0.4633	69.05%	313.00
2005	LDGV	1393	0.3399	5.4745	0.7194	1267	90.95%	0.0517	1.0488	0.1448	0.2153	80.65%	3.4111	76.48%	0.4293	74.78%	227.00
	LDGT1	740	0.1391	3.4774	0.4915	709	95.81%	0.0492	1.3389	0.1373	0.0687	58.27%	1.7202	56.23%	0.2618	65.60%	348.64
	LDGT2	283	0.4106	8.2508	0.9119	247	87.28%	0.1044	1.9739	0.2939	0.2560	71.04%	5.4354	73.36%	0.3608	55.11%	142.75
2005 Total		2416	0.2867	5.1880	0.6721	2223	92.01%	0.0567	1.2441	0.1590	0.1731	75.31%	3.0967	71.34%	0.3683	69.85%	254.81
2006	LDGV	663	0.5487	9.9656	1.1526	579	87.33%	0.0486	1.0772	0.1323	0.2685	84.67%	4.5292	80.79%	0.8697	86.80%	171.57
	LDGT1	517	0.0875	2.1569	0.3624	507	98.07%	0.0391	0.9263	0.1215	0.0435	52.61%	1.2101	56.64%	0.2058	62.88%	96.83
	LDGT2	204	0.3557	5.4118	0.6998	190	93.14%	0.0723	1.2420	0.1669	0.2016	73.59%	2.8721	69.81%	0.3085	64.89%	21.00
2006 Total		1384	0.3480	6.3774	0.7907	1276	92.20%	0.0484	1.0418	0.1331	0.1691	77.76%	2.9636	73.99%	0.5224	79.69%	128.79
2007	LDGV	687	0.3134	5.0438	0.9408	651	94.76%	0.0484	1.2048	0.0877	0.1935	79.98%	3.1863	72.56%	0.7552	89.59%	147.81
	LDGT1	904	0.0665	1.6389	0.2901	879	97.23%	0.0282	0.9197	0.0695	0.0325	53.56%	0.5483	37.35%	0.1943	73.64%	34.25
	LDGT2	267	0.3286	5.9812	0.4168	257	96.25%	0.0580	1.1797	0.1164	0.1567	73.00%	2.8715	70.88%	0.1934	62.42%	237.20
2007 Total		1858	0.1955	3.5219	0.5489	1787	96.18%	0.0398	1.0609	0.0829	0.1090	73.24%	1.8434	63.47%	0.3985	82.78%	147.52
2008	LDGV	141	0.2252	3.7038	0.8029	129	91.49%	0.0362	0.9971	0.0621	0.1424	79.75%	1.9821	66.53%	0.6400	91.15%	2.00
	LDGT1	169	0.0511	1.2689	0.1921	167	98.82%	0.0212	0.5186	0.0339	0.0281	56.97%	0.6452	55.44%	0.1568	82.24%	12.00
	LDGT2	95	0.0639	2.2059	0.2000	95	100.00%	0.0556	2.1259	0.1033	0.0083	13.05%	0.0800	3.63%	0.0967	48.34%	0.00
2008 Total		405	0.1147	2.3364	0.4066	391	96.54%	0.0345	1.0670	0.0601	0.0610	63.88%	0.9489	47.07%	0.3016	83.39%	7.00
2009	LDGV	34	0.1527	3.8689	0.6226	32	94.12%	0.0248	0.7820	0.0659	0.1087	81.42%	2.6273	77.06%	0.4895	88.14%	0.00
	LDGT1	21	0.0525	0.8697	0.1551	21	100.00%	0.0105	0.4376	0.0234	0.0419	79.93%	0.4322	49.69%	0.1317	84.90%	90.00
	LDGT2	12	0.0449	0.8488	0.1795	12	100.00%	0.0388	1.2346	0.0512	0.0061	13.55%	-0.3858	-45.45%	0.1283	71.46%	0.00
2009 Total		67	0.1020	2.3880	0.3967	65	97.01%	0.0228	0.7543	0.0495	0.0682	74.96%	1.3619	64.36%	0.3072	86.13%	90.00
2010	LDGV	21	0.2473	3.8532	0.8780	20	95.24%	0.0235	1.1937	0.0141	0.1574	87.02%	2.1951	64.78%	0.6794	97.97%	0.00
	LDGT1	12	0.0410	0.9638	0.1329	12	100.00%	0.0112	0.3788	0.0191	0.0298	72.61%	0.5850	60.70%	0.1138	85.65%	0.00
	LDGT2	8	0.0477	0.7753	0.2154	8	100.00%	0.0183	0.4709	0.0439	0.0294	61.65%	0.3044	39.26%	0.1715	79.62%	0.00
2010 Total		41	0.1480	2.4070	0.5306	40	97.56%	0.0188	0.8047	0.0215	0.0935	83.29%	1.3339	62.37%	0.4082	94.99%	0.00
2011	LDGV	1	0.0703	1.9184	0.4809	1	100.00%	0.0153	0.7718	0.2784	0.0550	78.24%	1.1466	59.77%	0.2025	42.11%	0.00
	LDGT1	5	0.0577	1.0095	0.2336	5	100.00%	0.0207	0.6478	0.0260	0.0370	64.08%	0.3617	35.83%	0.2076	88.89%	0.00
	LDGT2	3	0.0386	0.9025	0.1534	3	100.00%	0.0065	0.4245	0.0166	0.0321	83.07%	0.4780	52.96%	0.1368	89.20%	0.00
2011 Total		9	0.0527	1.0748	0.2343	9	100.00%	0.0154	0.5871	0.0509	0.0373	70.81%	0.4877	45.37%	0.1835	78.29%	0.00
2012	LDGT2	1	0.0887	2.1455	0.1117	1	100.00%	0.0471	0.7041	0.1089	0.0416	46.90%	1.4414	67.18%	0.0028	2.51%	0.00
2012 Total		1	0.0887	2.1455	0.1117	1	100.00%	0.0471	0.7041	0.1089	0.0416	46.90%	1.4414	67.18%	0.0028	2.51%	0.00
Grand Total		93912	1.8447	22.2743	2.0560	62170	66.20%	0.4987	5.5243	1.1394	0.7936	61.41%	10.5227	65.57%	0.5265	31.60%	320.49

Records 1 - 91 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	Initial Exhaust Emissions				Passing Retest Exhaust Emissions					Emission Reductions						Average Repair Costs
	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total%	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Avg HC(gpm)	Avg HC%(gpm)	Avg CO(gpm)	Avg CO%(gpm)	Avg NOx(gpm)	Avg NOx%(gpm)	
LDGV	43824	1.5946	19.8513	1.7394	28668	65.42%	0.3683	4.1511	0.8758	0.7544	67.19%	10.4858	71.64%	0.5181	37.17%	315.18
LDGT1	32038	1.7794	23.3257	2.1344	22389	69.88%	0.5633	6.3902	1.2703	0.7196	56.09%	10.0964	61.24%	0.4731	27.14%	317.43
LDGT2	18050	2.5679	26.2907	2.6854	11113	61.57%	0.7049	7.3220	1.5557	1.0438	59.69%	11.4768	61.05%	0.6556	29.65%	340.12
Grand Total	93912	1.8447	22.2743	2.0560	62170	66.20%	0.4987	5.5243	1.1394	0.7936	61.41%	10.5227	65.57%	0.5265	31.60%	320.49

A-7

I/M240 Retest Frequency Report

Retest Frequency Report (V1.01)

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
1982	LDGV	115	1.5	66	57.39%	35	53.03%	30	26.09%	8	26.67%	15	13.04%	7	46.67%	3	2.61%	1	33.33%	1	0.87%	0	0.00%
	LDGT1	153	1.7	95	62.09%	63	66.32%	29	18.95%	9	31.03%	16	10.46%	8	50.00%	7	4.58%	4	57.14%	6	3.92%	5	83.33%
	LDGT2	74	1.7	43	58.11%	20	46.51%	20	27.03%	8	40.00%	7	9.46%	3	42.86%	3	4.05%	2	66.67%	1	1.35%	1	100.00%
1982 Total		342	1.6	204	59.65%	118	57.84%	79	23.10%	25	31.65%	38	11.11%	18	47.37%	13	3.80%	7	53.85%	8	2.34%	6	75.00%
1983	LDGV	324	1.7	185	57.10%	99	53.51%	75	23.15%	28	37.33%	37	11.42%	15	40.54%	16	4.94%	7	43.75%	11	3.40%	3	27.27%
	LDGT1	305	1.4	206	67.54%	149	72.33%	52	17.05%	24	46.15%	22	7.21%	7	31.82%	11	3.61%	5	45.45%	14	4.59%	6	42.86%
	LDGT2	175	1.7	102	58.29%	66	64.71%	37	21.14%	14	37.84%	18	10.29%	8	44.44%	10	5.71%	7	70.00%	8	4.57%	5	62.50%
1983 Total		804	1.6	493	61.32%	314	63.69%	164	20.40%	66	40.24%	77	9.58%	30	38.96%	37	4.60%	19	51.35%	33	4.10%	14	42.42%
1984	LDGV	388	1.9	215	55.41%	128	59.53%	71	18.30%	28	39.44%	41	10.57%	16	39.02%	21	5.41%	7	33.33%	40	10.31%	16	40.00%
	LDGT1	424	1.6	234	55.19%	149	63.68%	86	20.28%	41	47.67%	43	10.14%	17	39.53%	25	5.90%	6	24.00%	36	8.49%	9	25.00%
	LDGT2	208	1.9	98	47.12%	50	51.02%	50	24.04%	20	40.00%	27	12.98%	8	29.63%	18	8.65%	7	38.89%	15	7.21%	4	26.67%
1984 Total		1020	1.8	547	53.63%	327	59.78%	207	20.29%	89	43.00%	111	10.88%	41	36.94%	64	6.27%	20	31.25%	91	8.92%	29	31.87%
1985	LDGV	723	1.8	400	55.33%	216	54.00%	140	19.36%	48	34.29%	81	11.20%	33	40.74%	44	6.09%	13	29.55%	58	8.02%	19	32.76%
	LDGT1	713	1.7	438	61.43%	271	61.87%	132	18.51%	59	44.70%	62	8.70%	24	38.71%	34	4.77%	14	41.18%	53	7.43%	18	33.96%
	LDGT2	393	1.8	217	55.22%	115	53.00%	92	23.41%	49	53.26%	39	9.92%	18	46.15%	20	5.09%	8	40.00%	25	6.36%	8	32.00%
1985 Total		1829	1.7	1055	57.68%	602	57.06%	364	19.90%	156	42.86%	182	9.95%	75	41.21%	98	5.36%	35	35.71%	136	7.44%	45	33.09%
1986	LDGV	516	1.6	313	60.66%	184	58.79%	105	20.35%	45	42.86%	49	9.50%	19	38.78%	26	5.04%	10	38.46%	23	4.46%	9	39.13%
	LDGT1	550	1.6	341	62.00%	219	64.22%	101	18.36%	42	41.58%	45	8.18%	23	51.11%	20	3.64%	9	45.00%	43	7.82%	11	25.58%
	LDGT2	304	2.0	148	48.68%	83	56.08%	61	20.07%	24	39.34%	31	10.20%	4	12.90%	27	8.88%	11	40.74%	37	12.17%	13	35.14%
1986 Total		1370	1.7	802	58.54%	486	60.60%	267	19.49%	111	41.57%	125	9.12%	46	36.80%	73	5.33%	30	41.10%	103	7.52%	33	32.04%
1987	LDGV	751	1.5	467	62.18%	277	59.31%	162	21.57%	78	48.15%	65	8.66%	30	46.15%	30	3.99%	10	33.33%	27	3.60%	10	37.04%
	LDGT1	853	1.5	537	62.95%	359	66.85%	159	18.64%	66	41.51%	71	8.32%	30	42.25%	42	4.92%	16	38.10%	44	5.16%	14	31.82%
	LDGT2	309	1.5	196	63.43%	129	65.82%	55	17.80%	25	45.45%	22	7.12%	12	54.55%	11	3.56%	3	27.27%	25	8.09%	4	16.00%
1987 Total		1913	1.5	1200	62.73%	765	63.75%	376	19.65%	169	44.95%	158	8.26%	72	45.57%	83	4.34%	29	34.94%	96	5.02%	28	29.17%
1988	LDGV	739	1.6	447	60.49%	256	57.27%	167	22.60%	83	49.70%	69	9.34%	29	42.03%	31	4.19%	14	45.16%	25	3.38%	13	52.00%
	LDGT1	781	1.7	439	56.21%	258	58.77%	165	21.13%	69	41.82%	89	11.40%	37	41.57%	50	6.40%	24	48.00%	38	4.87%	18	47.37%
	LDGT2	356	1.6	208	58.43%	121	58.17%	73	20.51%	35	47.95%	34	9.55%	10	29.41%	17	4.78%	5	29.41%	24	6.74%	8	33.33%
1988 Total		1876	1.7	1094	58.32%	635	58.04%	405	21.59%	187	46.17%	192	10.23%	76	39.58%	98	5.22%	43	43.88%	87	4.64%	39	44.83%
1989	LDGV	1146	1.6	721	62.91%	470	65.19%	219	19.11%	102	46.58%	103	8.99%	47	45.63%	47	4.10%	21	44.68%	56	4.89%	23	41.07%
	LDGT1	1151	1.6	706	61.34%	447	63.31%	231	20.07%	110	47.62%	100	8.69%	46	46.00%	51	4.43%	17	33.33%	63	5.47%	19	30.16%
	LDGT2	478	1.5	299	62.55%	201	67.22%	96	20.08%	44	45.83%	44	9.21%	21	47.73%	20	4.18%	7	35.00%	19	3.97%	8	42.11%
1989 Total		2775	1.6	1726	62.20%	1118	64.77%	546	19.68%	256	46.89%	247	8.90%	114	46.15%	118	4.25%	45	38.14%	138	4.97%	50	36.23%
1990	LDGV	1306	1.6	759	58.12%	475	62.58%	267	20.44%	117	43.82%	127	9.72%	49	38.58%	73	5.59%	31	42.47%	80	6.13%	28	35.00%
	LDGT1	861	1.6	523	60.74%	334	63.86%	162	18.82%	72	44.44%	92	10.69%	44	47.83%	42	4.88%	21	50.00%	42	4.88%	18	42.86%
	LDGT2	355	1.6	211	59.44%	136	64.45%	66	18.59%	32	48.48%	34	9.58%	16	47.06%	17	4.79%	7	41.18%	27	7.61%	7	25.93%
1990 Total		2522	1.6	1493	59.20%	945	63.30%	495	19.63%	221	44.65%	253	10.03%	109	43.08%	132	5.23%	59	44.70%	149	5.91%	53	35.57%
1991	LDGV	2004	1.6	1244	62.08%	802	64.47%	361	18.01%	158	43.77%	185	9.23%	78	42.16%	103	5.14%	39	37.86%	111	5.54%	45	40.54%
	LDGT1	1176	1.5	799	67.94%	563	70.46%	201	17.09%	109	54.23%	93	7.91%	40	43.01%	46	3.91%	27	58.70%	37	3.15%	18	48.65%
	LDGT2	482	1.6	298	61.83%	196	65.77%	101	20.95%	45	44.55%	48	9.96%	21	43.75%	19	3.94%	11	57.89%	16	3.32%	8	50.00%
1991 Total		3662	1.6	2341	63.93%	1561	66.68%	663	18.10%	312	47.06%	326	8.90%	139	42.64%	168	4.59%	77	45.83%	164	4.48%	71	43.29%
1992	LDGV	2065	1.7	1188	57.53%	712	59.93%	425	20.58%	193	45.41%	214	10.36%	82	38.32%	115	5.57%	41	35.65%	123	5.96%	48	39.02%
	LDGT1	880	1.4	605	68.75%	435	71.90%	138	15.68%	58	42.03%	70	7.95%	30	42.86%	36	4.09%	16	44.44%	31	3.52%	11	35.48%
	LDGT2	652	1.8	358	54.91%	207	57.82%	148	22.70%	77	52.03%	66	10.12%	28	42.42%	40	6.13%	18	45.00%	40	6.13%	15	37.50%
1992 Total		3597	1.6	2151	59.80%	1354	62.95%	711	19.77%	328	46.13%	350	9.73%	140	40.00%	191	5.31%	75	39.27%	194	5.39%	74	38.14%
1993	LDGV	2676	1.6	1641	61.32%	1050	63.99%	516	19.28%	251	48.64%	236	8.82%	113	47.88%	110	4.11%	42	38.18%	173	6.46%	49	28.32%
	LDGT1	1434	1.3	1061	73.99%	788	74.27%	228	15.90%	125	54.82%	79	5.51%	37	46.84%	41	2.86%	24	58.54%	25	1.74%	13	52.00%
	LDGT2	1042	1.7	600	57.58%	380	63.33%	209	20.06%	89	42.58%	99	9.50%	36	36.36%	56	5.37%	15	26.79%	78	7.49%	33	42.31%
1993 Total		5152	1.5	3302	64.09%	2218	67.17%	953	18.50%	465	48.79%	414	8.04%	186	44.93%	207	4.02%	81					

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
	LDGT2	2159	1.7	1227	56.83%	764	62.27%	428	19.82%	184	42.99%	222	10.28%	92	41.44%	120	5.56%	55	45.83%	162	7.50%	50	30.86%
1995 Total		7799	1.6	4874	62.50%	3281	67.32%	1453	18.63%	700	48.18%	667	8.55%	267	40.03%	364	4.67%	161	44.23%	441	5.65%	164	37.19%
1996	LDGV	2495	1.5	1599	64.09%	1099	68.73%	444	17.80%	209	47.07%	216	8.66%	85	39.35%	99	3.97%	40	40.40%	137	5.49%	41	29.93%
	LDGT1	1692	1.4	1207	71.34%	927	76.80%	251	14.83%	135	53.78%	100	5.91%	44	44.00%	55	3.25%	17	30.91%	79	4.67%	27	34.18%
	LDGT2	900	1.6	564	62.67%	399	70.74%	158	17.56%	70	44.30%	79	8.78%	39	49.37%	39	4.33%	14	35.90%	60	6.67%	29	48.33%
1996 Total		5087	1.5	3370	66.25%	2425	71.96%	853	16.77%	414	48.53%	395	7.76%	168	42.53%	193	3.79%	71	36.79%	276	5.43%	97	35.14%
1997	LDGV	3366	1.4	2359	70.08%	1748	74.10%	541	16.07%	279	51.57%	238	7.07%	98	41.18%	117	3.48%	51	43.59%	111	3.30%	41	36.94%
	LDGT1	3049	1.4	2187	71.73%	1686	77.09%	466	15.28%	236	50.64%	199	6.53%	92	46.23%	101	3.31%	45	44.55%	96	3.15%	43	44.79%
	LDGT2	1332	1.4	930	69.82%	694	74.62%	211	15.84%	104	49.29%	97	7.28%	48	49.48%	43	3.23%	21	48.84%	51	3.83%	18	35.29%
1997 Total		7747	1.4	5476	70.69%	4128	75.38%	1218	15.72%	619	50.82%	534	6.89%	238	44.57%	261	3.37%	117	44.83%	258	3.33%	102	39.53%
1998	LDGV	2842	1.5	1893	66.61%	1369	72.32%	483	17.00%	218	45.13%	237	8.34%	115	48.52%	107	3.76%	42	39.25%	122	4.29%	51	41.80%
	LDGT1	2365	1.4	1684	71.21%	1263	75.00%	373	15.77%	207	55.50%	157	6.64%	79	50.32%	70	2.96%	25	35.71%	81	3.42%	37	45.68%
	LDGT2	1225	1.6	758	61.88%	505	66.62%	229	18.69%	112	48.91%	109	8.90%	49	44.95%	60	4.90%	22	36.67%	69	5.63%	28	40.58%
1998 Total		6432	1.5	4335	67.40%	3137	72.36%	1085	16.87%	537	49.49%	503	7.82%	243	48.31%	237	3.68%	89	37.55%	272	4.23%	116	42.65%
1999	LDGV	3670	1.4	2669	72.72%	2080	77.93%	534	14.55%	280	52.43%	233	6.35%	112	48.07%	106	2.89%	54	50.94%	128	3.49%	43	33.59%
	LDGT1	2558	1.3	1899	74.24%	1512	79.62%	346	13.53%	193	55.78%	144	5.63%	69	47.92%	76	2.97%	34	44.74%	93	3.64%	35	37.63%
	LDGT2	1907	1.5	1213	63.61%	836	68.92%	335	17.57%	167	49.85%	151	7.92%	59	39.07%	82	4.30%	31	37.80%	126	6.61%	37	29.37%
1999 Total		8135	1.4	5781	71.06%	4428	76.60%	1215	14.94%	640	52.67%	528	6.49%	240	45.45%	264	3.25%	119	45.08%	347	4.27%	115	33.14%
2000	LDGV	3200	1.4	2279	71.22%	1765	77.45%	467	14.59%	240	51.39%	204	6.38%	83	40.69%	108	3.38%	46	42.59%	142	4.44%	51	35.92%
	LDGT1	1983	1.3	1512	76.25%	1231	81.42%	256	12.91%	137	53.52%	108	5.45%	55	50.93%	48	2.42%	23	47.92%	59	2.98%	20	33.90%
	LDGT2	1025	1.5	653	63.71%	475	72.74%	157	15.32%	61	38.85%	86	8.39%	36	41.86%	46	4.49%	15	32.61%	83	8.10%	26	31.33%
2000 Total		6208	1.4	4444	71.59%	3471	78.11%	880	14.18%	438	49.77%	398	6.41%	174	43.72%	202	3.25%	84	41.58%	284	4.57%	97	34.15%
2001	LDGV	2473	1.3	1908	77.15%	1582	82.91%	299	12.09%	157	52.51%	124	5.01%	51	41.13%	66	2.67%	33	50.00%	76	3.07%	30	39.47%
	LDGT1	1645	1.2	1392	84.62%	1230	88.36%	150	9.12%	83	55.33%	63	3.83%	35	55.56%	24	1.46%	12	50.00%	16	0.97%	5	31.25%
	LDGT2	1022	1.2	836	81.80%	730	87.32%	95	9.30%	48	50.53%	46	4.50%	21	45.65%	22	2.15%	12	54.55%	23	2.25%	7	30.43%
2001 Total		5140	1.2	4136	80.47%	3542	85.64%	544	10.58%	288	52.94%	233	4.53%	107	45.92%	112	2.18%	57	50.89%	115	2.24%	42	36.52%
2002	LDGV	1870	1.2	1494	79.89%	1255	84.00%	218	11.66%	119	54.59%	85	4.55%	45	52.94%	41	2.19%	22	53.66%	32	1.71%	15	46.88%
	LDGT1	1126	1.2	927	82.33%	799	86.19%	122	10.83%	65	53.28%	49	4.35%	27	55.10%	22	1.95%	18	81.82%	6	0.53%	3	50.00%
	LDGT2	539	1.2	457	84.79%	395	86.43%	50	9.28%	30	60.00%	20	3.71%	9	45.00%	8	1.48%	5	62.50%	4	0.74%	2	50.00%
2002 Total		3535	1.2	2878	81.41%	2449	85.09%	390	11.03%	214	54.87%	154	4.36%	81	52.60%	71	2.01%	45	63.38%	42	1.19%	20	47.62%
2003	LDGV	1632	1.2	1377	84.38%	1235	89.69%	128	7.84%	77	60.16%	55	3.37%	25	45.45%	30	1.84%	15	50.00%	42	2.57%	12	28.57%
	LDGT1	1152	1.1	1064	92.36%	1008	94.74%	51	4.43%	39	76.47%	11	0.95%	4	36.36%	8	0.69%	1	12.50%	18	1.56%	5	27.78%
	LDGT2	572	1.2	494	86.36%	445	90.08%	46	8.04%	26	56.52%	18	3.15%	10	55.56%	8	1.40%	5	62.50%	6	1.05%	4	66.67%
2003 Total		3356	1.1	2935	87.46%	2688	91.58%	225	6.70%	142	63.11%	84	2.50%	39	46.43%	46	1.37%	21	45.65%	66	1.97%	21	31.82%
2004	LDGV	1108	1.1	968	87.36%	871	89.98%	91	8.21%	61	67.03%	25	2.26%	9	36.00%	15	1.35%	9	60.00%	9	0.81%	5	55.56%
	LDGT1	640	1.1	571	89.22%	530	92.82%	44	6.88%	30	68.18%	14	2.19%	5	35.71%	8	1.25%	6	75.00%	3	0.47%	2	66.67%
	LDGT2	326	1.1	291	89.26%	275	94.50%	16	4.91%	7	43.75%	6	1.84%	1	16.67%	6	1.84%	3	50.00%	7	2.15%	3	42.86%
2004 Total		2074	1.1	1830	88.24%	1676	91.58%	151	7.28%	98	64.90%	45	2.17%	15	33.33%	29	1.40%	18	62.07%	19	0.92%	10	52.63%
2005	LDGV	1393	1.1	1277	91.67%	1196	93.66%	71	5.10%	43	60.56%	28	2.01%	17	60.71%	11	0.79%	7	63.64%	6	0.43%	4	66.67%
	LDGT1	740	1.0	714	96.49%	690	96.64%	18	2.43%	13	72.22%	6	0.81%	4	66.67%	2	0.27%	2	100.00%	0	0.00%	0	0.00%
	LDGT2	283	1.1	254	89.75%	229	90.16%	20	7.07%	12	60.00%	6	2.12%	4	66.67%	2	0.71%	1	50.00%	1	0.35%	1	100.00%
2005 Total		2416	1.1	2245	92.92%	2115	94.21%	109	4.51%	68	62.39%	40	1.66%	25	62.50%	15	0.62%	10	66.67%	7	0.29%	5	71.43%
2006	LDGV	663	1.1	588	88.69%	533	90.65%	47	7.09%	37	78.72%	9	1.36%	4	44.44%	6	0.90%	2	33.33%	13	1.96%	3	23.08%
	LDGT1	517	1.0	507	98.07%	500	98.62%	7	1.35%	6	85.71%	1	0.19%	0	0.00%	1	0.19%	0	0.00%	1	0.19%	1	100.00%
	LDGT2	204	1.1	192	94.12%	183	95.31%	8	3.92%	4	50.00%	3	1.47%	2	66.67%	1	0.49%	1	100.00%	0	0.00%	0	0.00%
2006 Total		1384	1.1	1287	92.99%	1216	94.48%	62	4.48%	47	75.81%	13	0.94%	6	46.15%	8	0.58%	3	37.50%	14	1.01%	4	28.57%
2007	LDGV	687	1.0	656	95.49%	629	95.88%	22	3.20%	15	68.18%	6	0.87%	4	66.67%	3	0.44%	3	100.00%	0	0.00%	0	0.00%
	LDGT1	904	1.0	878	97.12%	856	97.49%	23	2.54%	20	86.96%	3	0.33%	3	100.00%	0	0.00%						

Vehicle			Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5			
Year	Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%
	LDGT1	21	1.0	21	100.00%	21	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	12	1.0	12	100.00%	12	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2009 Total		67	1.0	66	98.51%	64	96.97%	1	1.49%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2010	LDGV	21	1.0	21	100.00%	20	95.24%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	12	1.0	12	100.00%	12	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	8	1.0	8	100.00%	8	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2010 Total		41	1.0	41	100.00%	40	97.56%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2011	LDGV	1	1.0	1	100.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT1	5	1.0	5	100.00%	5	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
	LDGT2	3	1.0	3	100.00%	3	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2011 Total		9	1.0	9	100.00%	9	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2012	LDGT2	1	1.0	1	100.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
2012 Total		1	1.0	1	100.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Overall Total		93912	1.4	65545	69.79%	49273	75.17%	14554	15.50%	7157	49.18%	6578	7.00%	2875	43.71%	3,342	3.56%	1,429	42.76%	3899	4.15%	1,439	36.91%

Records 1 - 91 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle		Avg Retest #	Retest #1				Retest #2				Retest #3				Retest #4				Retest >= #5				
Type	Total		Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt %	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	Cnt	Cnt%	Goal	Goal%	
LDGV	43824	1.4	30423	69.42%	22624	74.36%	6907	15.76%	3371	48.81%	3121	7.12%	1342	43.00	1,560	3.56%	672	43.08%	1813	4.14%	659	36.35%	
LDGT1	32038	1.3	23381	72.98%	18263	78.11%	4576	14.28%	2354	51.44%	1991	6.21%	911	45.76	1,007	3.14%	440	43.69%	1089	3.40%	424	38.93%	
LDGT2	18050	1.5	11741	65.05%	8386	71.42%	3071	17.01%	1432	46.63%	1466	8.12%	622	42.43	775	4.29%	317	40.90%	997	5.52%	356	35.71%	
Overall Total		93912	1.4	65545	69.79%	49273	75.17%	14554	15.50%	7157	49.18%	6578	7.00%	2875	43.71	3,342	3.56%	1,429	42.76%	3899	4.15%	1,439	36.91%

A-8

I/M240 Fleet Characterization Summary Report
Initial Inspection Component

IM240 Fleet Initial Inspection Report (V1.01)

Vehicle		Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	328	2.0035	22.8894	2.0629	277	84.45%	1.6309	19.5835	2.0616	51	15.55%	4.0268	40.8445	2.0699
	LDGT1	284	3.2991	40.1692	2.6168	195	68.66%	2.8690	31.2740	2.7331	89	31.34%	4.2415	59.6587	2.3619
	LDGT2	81	4.1616	51.8538	2.6398	47	58.02%	2.5201	34.5674	2.6218	34	41.98%	6.4307	75.7496	2.6646
1982 Total		693	2.7867	33.3563	2.3573	519	74.89%	2.1766	25.3328	2.3646	174	25.11%	4.6064	57.2884	2.3355
1983	LDGV	769	1.7845	23.4951	1.9606	611	79.45%	1.2986	16.4682	1.9549	158	20.55%	3.6634	50.6688	1.9828
	LDGT1	583	3.2290	37.2801	2.7180	391	67.07%	2.7891	30.2417	2.6781	192	32.93%	4.1248	51.6134	2.7993
	LDGT2	248	3.9171	49.2631	2.8761	148	59.68%	2.6965	33.3353	2.8127	100	40.32%	5.7236	72.8363	2.9699
1983 Total		1600	2.6414	32.5121	2.3785	1150	71.88%	1.9853	23.3219	2.3112	450	28.13%	4.3181	55.9980	2.5505
1984	LDGV	990	1.5886	19.6996	1.9884	792	80.00%	1.2861	14.5454	1.9946	198	20.00%	2.7987	40.3165	1.9636
	LDGT1	723	2.6794	35.4171	2.6087	498	68.88%	2.2506	25.6688	2.6402	225	31.12%	3.6283	56.9932	2.5390
	LDGT2	264	3.2403	43.2237	3.1027	172	65.15%	2.1593	28.2627	2.9735	92	34.85%	5.2613	71.1942	3.3443
1984 Total		1977	2.2081	28.5889	2.3641	1462	73.95%	1.7174	19.9481	2.3297	515	26.05%	3.6011	53.1185	2.4616
1985	LDGV	1915	1.3743	16.0449	1.9367	1573	82.14%	1.0484	11.5678	1.9382	342	17.86%	2.8733	36.6373	1.9297
	LDGT1	1475	2.4470	30.5690	2.6692	1083	73.42%	1.9946	21.8315	2.6999	392	26.58%	3.6966	54.7086	2.5844
	LDGT2	475	3.2792	40.1718	2.9113	277	58.32%	1.9961	24.1012	2.8372	198	41.68%	5.0742	62.6543	3.0149
1985 Total		3865	2.0178	24.5529	2.3360	2933	75.89%	1.4873	16.5413	2.3044	932	24.11%	3.6872	49.7653	2.4356
1986	LDGV	1856	1.1264	13.2444	1.8415	1586	85.45%	0.8680	10.0076	1.7912	270	14.55%	2.6442	32.2578	2.1374
	LDGT1	1427	2.0541	22.0615	2.6663	1121	78.56%	1.7275	17.0086	2.6635	306	21.44%	3.2505	40.5724	2.6766
	LDGT2	361	2.8846	36.7653	2.8361	225	62.33%	1.7431	19.1149	2.8504	136	37.67%	4.7732	65.9663	2.8125
1986 Total		3644	1.6639	19.0274	2.2631	2932	80.46%	1.2638	13.3832	2.2060	712	19.54%	3.3114	42.2699	2.4981
1987	LDGV	3295	1.0371	12.0921	1.7443	2884	87.53%	0.8296	9.2754	1.7061	411	12.47%	2.4935	31.8568	2.0124
	LDGT1	2311	1.6907	19.0822	2.2166	1819	78.71%	1.3302	13.7142	2.1735	492	21.29%	3.0238	38.9285	2.3758
	LDGT2	656	1.9840	18.8663	2.8638	479	73.02%	1.5201	12.7941	2.7786	177	26.98%	3.2396	35.2991	3.0946
1987 Total		6262	1.3775	15.3814	2.0359	5182	82.75%	1.0691	11.1587	1.9693	1080	17.25%	2.8573	35.6425	2.3553
1988	LDGV	2826	1.0052	12.0556	1.6323	2427	85.88%	0.7638	9.0068	1.5868	399	14.12%	2.4734	30.6008	1.9087
	LDGT1	2092	1.6530	17.1827	2.0877	1682	80.40%	1.2469	12.6825	1.9827	410	19.60%	3.3189	35.6443	2.5182
	LDGT2	776	1.8444	15.9579	2.5371	593	76.42%	1.3183	11.8284	2.3474	183	23.58%	3.5493	29.3391	3.1518
1988 Total		5694	1.3575	14.4711	1.9229	4702	82.58%	1.0065	10.6775	1.8244	992	17.42%	3.0213	32.4525	2.3899
1989	LDGV	5501	0.8657	10.9098	1.5089	4828	87.77%	0.6657	8.2031	1.4777	673	12.23%	2.3010	30.3275	1.7331
	LDGT1	3660	1.5057	16.0162	2.0124	3010	82.24%	1.1362	11.5659	1.9019	650	17.76%	3.2168	36.6246	2.5239
	LDGT2	1364	1.6970	14.9220	2.6303	1078	79.03%	1.2545	11.1692	2.4376	286	20.97%	3.3651	29.0672	3.3566
1989 Total		10525	1.1960	13.2055	1.8293	8916	84.71%	0.8957	9.6970	1.7370	1609	15.29%	2.8601	32.6474	2.3411
1990	LDGV	6090	0.8287	9.9719	1.5160	5382	88.37%	0.6466	7.7877	1.4379	708	11.63%	2.2132	26.5752	2.1096
	LDGT1	2806	1.3303	13.8520	2.0551	2315	82.50%	1.0186	10.6050	1.9164	491	17.50%	2.8002	29.1610	2.7092
	LDGT2	1073	1.5504	14.1153	2.5492	873	81.36%	1.2339	10.9352	2.3876	200	18.64%	2.9324	27.9966	3.2542
1990 Total		9969	1.0476	11.5100	1.7789	8570	85.97%	0.8069	8.8694	1.6639	1399	14.03%	2.5220	27.6859	2.4837
1991	LDGV	10166	0.7179	8.8660	1.4085	9039	88.91%	0.5518	6.8241	1.3430	1127	11.09%	2.0495	25.2428	1.9337
	LDGT1	5499	1.0530	12.0555	1.6584	4739	86.18%	0.8443	9.2864	1.5747	760	13.82%	2.3539	29.3219	2.1803
	LDGT2	1440	1.4119	13.7759	2.2868	1158	80.42%	1.0538	10.0805	2.1489	282	19.58%	2.8820	28.9508	2.8528
1991 Total		17105	0.8840	10.3047	1.5628	14936	87.32%	0.6836	7.8578	1.4790	2169	12.68%	2.2644	27.1542	2.1396
1992	LDGV	8913	0.6825	8.7645	1.3489	7829	87.84%	0.5058	6.2574	1.2770	1084	12.16%	1.9593	26.8717	1.8679

Vehicle		Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT1	4130	0.9802	11.2603	1.7214	3578	86.63%	0.7830	8.8674	1.6212	552	13.37%	2.2584	26.7713	2.3715
	LDGT2	1595	1.5840	15.4425	2.4217	1243	77.93%	1.1131	11.0423	2.2016	352	22.07%	3.2468	30.9804	3.1991
1992 Total		14638	0.8647	10.1963	1.5709	12650	86.42%	0.6439	7.4658	1.4652	1988	13.58%	2.2703	27.5713	2.2434
1993	LDGV	13880	0.6416	7.5778	1.3451	12364	89.08%	0.4875	5.6885	1.2669	1516	10.92%	1.8983	22.9864	1.9831
	LDGT1	8365	0.9612	10.2250	1.7619	7370	88.11%	0.7896	8.3071	1.6664	995	11.89%	2.2321	24.4312	2.4693
	LDGT2	2697	1.5278	13.3924	2.2055	2138	79.27%	1.1400	10.2573	2.0141	559	20.73%	3.0112	25.3833	2.9374
1993 Total		24942	0.8446	9.0943	1.5779	21872	87.69%	0.6531	7.0174	1.4745	3070	12.31%	2.2091	23.8911	2.3144
1994	LDGV	13197	0.5054	6.2351	1.0662	11892	90.11%	0.3745	4.8992	0.9889	1305	9.89%	1.6978	18.4082	1.7708
	LDGT1	8592	0.7860	8.8184	1.5336	7541	87.77%	0.6050	6.7769	1.3788	1051	12.23%	2.0845	23.4659	2.6446
	LDGT2	3351	1.1354	11.2055	1.9409	2689	80.24%	0.7736	7.8344	1.6726	662	19.76%	2.6052	24.8987	3.0306
1994 Total		25140	0.6853	7.7805	1.3425	22122	88.00%	0.5016	5.8961	1.2049	3018	12.00%	2.0315	21.5932	2.3514
1995	LDGV	21323	0.4651	5.4675	0.9839	19346	90.73%	0.3566	4.3071	0.9170	1977	9.27%	1.5271	16.8227	1.6380
	LDGT1	11825	0.7202	7.3683	1.5535	10357	87.59%	0.5359	5.5557	1.4091	1468	12.41%	2.0205	20.1562	2.5722
	LDGT2	5696	1.1132	10.3298	1.9824	4546	79.81%	0.7806	7.4025	1.7859	1150	20.19%	2.4280	21.9015	2.7589
1995 Total		38844	0.6378	6.7592	1.3037	34249	88.17%	0.4671	5.0956	1.1812	4595	11.83%	1.9102	19.1588	2.2170
1996	LDGV	17187	0.3462	4.5971	0.8168	15706	91.38%	0.2810	3.6455	0.7544	1481	8.62%	1.0377	14.6895	1.4792
	LDGT1	9936	0.4220	5.1362	1.3472	8781	88.38%	0.3272	3.9906	1.2256	1155	11.62%	1.1427	13.8457	2.2718
	LDGT2	3901	0.5836	6.9789	1.3756	3347	85.80%	0.4421	4.9738	1.2314	554	14.20%	1.4386	19.0924	2.2469
1996 Total		31024	0.4003	5.0693	1.0569	27834	89.72%	0.3149	3.9141	0.9604	3190	10.28%	1.1453	15.1486	1.8995
1997	LDGV	26685	0.3175	4.3280	0.7567	24456	91.65%	0.2592	3.5100	0.6995	2229	8.35%	0.9565	13.3025	1.3848
	LDGT1	17365	0.3714	5.2117	1.2118	15248	87.81%	0.2954	3.9310	1.1236	2117	12.19%	0.9188	14.4362	1.8468
	LDGT2	6523	0.4956	5.9298	1.3886	5634	86.37%	0.3839	4.8020	1.2354	889	13.63%	1.2034	13.0768	2.3593
1997 Total		50573	0.3590	4.8380	0.9945	45338	89.65%	0.2869	3.8122	0.9087	5235	10.35%	0.9832	13.7227	1.7371
1998	LDGV	22470	0.2669	4.0062	0.6449	20661	91.95%	0.2186	3.2861	0.5859	1809	8.05%	0.8183	12.2305	1.3187
	LDGT1	16096	0.3077	4.1277	1.0691	14474	89.92%	0.2496	3.3055	0.9583	1622	10.08%	0.8258	11.4653	2.0576
	LDGT2	5504	0.3959	5.1410	1.2462	4785	86.94%	0.2940	3.8921	1.0634	719	13.06%	1.0738	13.4526	2.4627
1998 Total		44070	0.2979	4.1923	0.8749	39920	90.58%	0.2389	3.3658	0.7782	4150	9.42%	0.8655	12.1432	1.8057
1999	LDGV	32247	0.2349	3.5875	0.6046	29672	92.01%	0.1919	3.0131	0.5480	2575	7.99%	0.7306	10.2069	1.2564
	LDGT1	21124	0.2377	3.1376	0.8124	19267	91.21%	0.1988	2.5785	0.7271	1857	8.79%	0.6415	8.9391	1.6970
	LDGT2	10767	0.3650	4.0700	1.0491	9627	89.41%	0.2724	3.1219	0.9014	1140	10.59%	1.1475	12.0757	2.2960
1999 Total		64138	0.2577	3.5203	0.7476	58566	91.31%	0.2074	2.8880	0.6650	5572	8.69%	0.7862	10.1667	1.6159
2000	LDGV	28059	0.1934	3.2857	0.5374	25856	92.15%	0.1518	2.7871	0.4675	2203	7.85%	0.6824	9.1372	1.3581
	LDGT1	17754	0.1971	2.8322	0.7151	16281	91.70%	0.1708	2.3682	0.6463	1473	8.30%	0.4878	7.9615	1.4758
	LDGT2	6736	0.2842	3.7723	0.7964	6120	90.86%	0.1883	2.5375	0.6917	616	9.14%	1.2378	16.0406	1.8370
2000 Total		52549	0.2063	3.1949	0.6307	48257	91.83%	0.1628	2.6141	0.5562	4292	8.17%	0.6953	9.7245	1.4672
2001	LDGV	35583	0.1447	2.8115	0.4201	33727	94.78%	0.1211	2.5189	0.3813	1856	5.22%	0.5734	8.1276	1.1248
	LDGT1	22565	0.1123	1.9903	0.4607	21194	93.92%	0.0969	1.6909	0.4253	1371	6.08%	0.3497	6.6195	1.0094
	LDGT2	9709	0.2045	2.8130	0.6789	8888	91.54%	0.1731	2.4002	0.6191	821	8.46%	0.5444	7.2824	1.3260
2001 Total		67857	0.1425	2.5386	0.4707	63809	94.03%	0.1203	2.2274	0.4290	4048	5.97%	0.4917	7.4454	1.1265
2002	LDGV	25732	0.1330	2.6497	0.3870	24273	94.33%	0.1122	2.3799	0.3449	1459	5.67%	0.4784	7.1390	1.0871
	LDGT1	17177	0.1016	2.0773	0.4171	16265	94.69%	0.0829	1.5702	0.3895	912	5.31%	0.4349	11.1211	0.9084

Vehicle		Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
	LDGT2	5595	0.1604	2.2829	0.6376	5154	92.12%	0.1365	1.9416	0.5768	441	7.88%	0.4400	6.2723	1.3486
2002 Total		48504	0.1250	2.4047	0.4265	45692	94.20%	0.1045	2.0422	0.3869	2812	5.80%	0.4583	8.2946	1.0702
2003	LDGV	33507	0.1100	2.3240	0.3321	32143	95.93%	0.0945	2.1685	0.3128	1364	4.07%	0.4760	5.9891	0.7866
	LDGT1	23469	0.0809	1.5122	0.3515	22410	95.49%	0.0708	1.3172	0.3396	1059	4.51%	0.2951	5.6371	0.6045
	LDGT2	9375	0.1273	1.9227	0.4778	8885	94.77%	0.1095	1.5537	0.4453	490	5.23%	0.4498	8.6131	1.0685
2003 Total		66351	0.1022	1.9801	0.3596	63438	95.61%	0.0882	1.7817	0.3408	2913	4.39%	0.4058	6.3025	0.7678
2004	LDGV	19781	0.1026	2.3333	0.3000	18826	95.17%	0.0892	2.1294	0.2799	955	4.83%	0.3665	6.3516	0.6965
	LDGT1	14841	0.0705	1.3329	0.2741	14268	96.14%	0.0646	1.2042	0.2635	573	3.86%	0.2163	4.5393	0.5394
	LDGT2	6797	0.0881	1.5115	0.2904	6508	95.75%	0.0802	1.3510	0.2657	289	4.25%	0.2654	5.1258	0.8474
2004 Total		41419	0.0887	1.8400	0.2892	39602	95.61%	0.0789	1.6682	0.2717	1817	4.39%	0.3031	5.5851	0.6709
2005	LDGV	33864	0.0897	2.1103	0.2863	32597	96.26%	0.0828	2.0190	0.2751	1267	3.74%	0.2670	4.4599	0.5741
	LDGT1	27315	0.0557	1.0647	0.2210	26606	97.40%	0.0540	1.0116	0.2163	709	2.60%	0.1179	3.0591	0.3991
	LDGT2	9669	0.0852	1.4420	0.2390	9421	97.44%	0.0780	1.2846	0.2277	248	2.56%	0.3615	7.4182	0.6655
2005 Total		70848	0.0760	1.6160	0.2547	68624	96.86%	0.0710	1.5276	0.2458	2224	3.14%	0.2300	4.3432	0.5285
2006	LDGV	20765	0.0859	2.0918	0.2720	20185	97.21%	0.0792	1.9906	0.2509	580	2.79%	0.3189	5.6113	1.0052
	LDGT1	14611	0.0523	1.0125	0.2234	14104	96.53%	0.0512	0.9721	0.2196	507	3.47%	0.0826	2.1364	0.3273
	LDGT2	7201	0.0705	1.1394	0.2107	7011	97.36%	0.0650	1.0587	0.2036	190	2.64%	0.2739	4.1141	0.4755
2006 Total		42577	0.0718	1.5603	0.2449	41300	97.00%	0.0672	1.4846	0.2322	1277	3.00%	0.2184	4.0090	0.6572
2007	LDGV	34818	0.0794	1.9295	0.2533	34167	98.13%	0.0763	1.8826	0.2420	651	1.87%	0.2419	4.3911	0.8430
	LDGT1	28104	0.0455	0.9148	0.1954	27225	96.87%	0.0451	0.8970	0.1932	879	3.13%	0.0607	1.4681	0.2638
	LDGT2	11575	0.0582	0.9822	0.1857	11318	97.78%	0.0547	0.9125	0.1829	257	2.22%	0.2147	4.0512	0.3098
2007 Total		74497	0.0633	1.3995	0.2210	72710	97.60%	0.0612	1.3625	0.2146	1787	2.40%	0.1488	2.9044	0.4814
2008	LDGV	8229	0.0766	1.9271	0.2423	8100	98.43%	0.0749	1.9104	0.2350	129	1.57%	0.1786	2.9792	0.7021
	LDGT1	5771	0.0426	0.8529	0.1904	5604	97.11%	0.0424	0.8436	0.1904	167	2.89%	0.0493	1.1637	0.1907
	LDGT2	3026	0.0483	1.0151	0.1846	2931	96.86%	0.0478	0.9765	0.1841	95	3.14%	0.0639	2.2059	0.2000
2008 Total		17026	0.0600	1.4009	0.2145	16635	97.70%	0.0592	1.3865	0.2110	391	2.30%	0.0955	2.0159	0.3617
2009	LDGV	2364	0.0746	1.9529	0.2383	2332	98.65%	0.0738	1.9329	0.2340	32	1.35%	0.1336	3.4093	0.5554
	LDGT1	1182	0.0420	0.9309	0.1850	1161	98.22%	0.0418	0.9320	0.1855	21	1.78%	0.0525	0.8697	0.1551
	LDGT2	665	0.0431	0.8739	0.1754	653	98.20%	0.0431	0.8743	0.1753	12	1.80%	0.0449	0.8488	0.1795
2009 Total		4211	0.0605	1.4956	0.2134	4146	98.46%	0.0600	1.4859	0.2112	65	1.54%	0.0910	2.1161	0.3567
2010	LDGV	1930	0.0754	1.9857	0.2216	1910	98.96%	0.0743	1.9710	0.2166	20	1.04%	0.1809	3.3887	0.6935
	LDGT1	1036	0.0386	0.8878	0.1702	1024	98.84%	0.0385	0.8869	0.1706	12	1.16%	0.0410	0.9638	0.1329
	LDGT2	771	0.0426	0.8317	0.1629	763	98.96%	0.0425	0.8323	0.1624	8	1.04%	0.0477	0.7753	0.2154
2010 Total		3737	0.0584	1.4432	0.1952	3697	98.93%	0.0578	1.4357	0.1927	40	1.07%	0.1123	2.1386	0.4297
2011	LDGV	508	0.0751	1.9278	0.2168	507	99.80%	0.0751	1.9278	0.2163	1	0.20%	0.0703	1.9184	0.4809
	LDGT1	341	0.0455	0.9912	0.1759	336	98.53%	0.0453	0.9909	0.1751	5	1.47%	0.0577	1.0095	0.2336
	LDGT2	247	0.0448	0.8939	0.1571	244	98.79%	0.0449	0.8938	0.1571	3	1.21%	0.0386	0.9025	0.1534
2011 Total		1096	0.0591	1.4034	0.1906	1087	99.18%	0.0591	1.4061	0.1903	9	0.82%	0.0527	1.0748	0.2343
2012	LDGV	12	0.0894	1.9160	0.2139	12	100.00%	0.0894	1.9160	0.2139	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	11	0.0534	0.9857	0.1524	11	100.00%	0.0534	0.9857	0.1524	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	5	0.0691	1.3273	0.1197	4	80.00%	0.0642	1.1228	0.1217	1	20.00%	0.0887	2.1455	0.1117

Vehicle		Overall Initial Exhaust Emissions			Pass Initial Test Exhaust Emissions					Initial Exhaust Emissions					
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2012 Total		28	0.0716	1.4454	0.1729	27	96.43%	0.0710	1.4194	0.1752	1	3.57%	0.0887	2.1455	0.1117
Grand Total		845403	0.3153	4.1850	0.7135	782877	92.60%	0.2363	3.2252	0.6369	62526	7.40%	1.3050	16.2031	1.6721

Records 1 - 93 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle	Overall Initial Exhaust Emissions				Pass Initial Test Exhaust Emissions					Pass or Waived Retest Initial Exhaust Emissions				
Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	434790	0.2750	4.0465	0.6250	405960	93.37%	0.2139	3.2856	0.5701	28830	6.63%	1.1348	14.7607	1.3991
LDGT1	292470	0.3293	4.1418	0.7687	269958	92.30%	0.2487	3.0964	0.6869	22512	7.70%	1.2959	16.6780	1.7492
LDGT2	118143	0.4294	4.8016	0.9023	106959	90.53%	0.2901	3.3206	0.7644	11184	9.47%	1.7622	18.9651	2.2205
Grand Total	845403	0.3153	4.1850	0.7135	782877	92.60%	0.2363	3.2252	0.6369	62526	7.40%	1.3050	16.2031	1.6721

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I/M240 Fleet Characterization Summary Report
Final Inspection Component

IM240 Fleet Final Inspection Report (V1.01)

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1982	LDGV	328	1.6148	19.4218	2.0687	51	15.55%	1.5274	18.5434	2.1076	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	284	2.8030	30.6646	2.6206	89	31.34%	2.6583	29.3295	2.3742	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	81	2.3660	32.0453	2.7777	34	41.98%	2.1530	28.5588	2.9933	0	0.00%	0.0000	0.0000	0.0000
1982 Total		693	2.1896	25.5047	2.3778	174	25.11%	2.2281	26.0175	2.4170	0	0.00%	0.0000	0.0000	0.0000
1983	LDGV	769	1.3718	16.9555	1.9490	152	19.77%	1.3199	14.1891	1.9666	6	0.78%	10.1376	136.6518	0.9035
	LDGT1	583	2.7446	29.7912	2.6746	191	32.76%	2.6598	28.9696	2.6306	1	0.17%	1.5195	10.5809	9.7127
	LDGT2	248	2.6052	32.5271	2.9401	100	40.32%	2.4700	31.3311	3.1287	0	0.00%	0.0000	0.0000	0.0000
1983 Total		1600	2.0632	24.0461	2.3670	443	27.69%	2.1572	24.4312	2.5152	7	0.44%	8.9064	118.6417	2.1619
1984	LDGV	990	1.3087	14.3298	2.0011	195	19.70%	1.3398	12.5671	2.0313	3	0.30%	5.2443	72.0057	1.7537
	LDGT1	723	2.2152	25.4450	2.6554	222	30.71%	2.1245	24.2148	2.6889	3	0.41%	3.0613	79.3286	2.7105
	LDGT2	264	2.2346	28.0921	3.0389	89	33.71%	2.3084	25.8340	3.1582	3	1.14%	4.3668	85.3029	3.2518
1984 Total		1977	1.7639	20.2325	2.3790	506	25.59%	1.8544	20.0109	2.5181	9	0.46%	4.2241	78.8791	2.5720
1985	LDGV	1915	1.0689	11.5509	1.9279	329	17.18%	1.0615	9.3917	1.9012	13	0.68%	3.7431	64.1568	1.3565
	LDGT1	1475	2.0130	22.1174	2.7231	383	25.97%	1.9631	21.5562	2.7793	9	0.61%	6.3535	80.3974	3.1343
	LDGT2	475	1.9339	23.8878	2.9651	198	41.68%	1.8468	23.5891	3.1440	0	0.00%	0.0000	0.0000	0.0000
1985 Total		3865	1.5355	17.0996	2.3589	910	23.54%	1.6118	17.6006	2.5412	22	0.57%	4.8110	70.8007	2.0837
1986	LDGV	1856	0.8923	9.8630	1.8035	267	14.39%	1.0178	8.7244	1.8767	3	0.16%	2.5167	34.7717	1.8197
	LDGT1	1427	1.7279	17.2618	2.6507	304	21.30%	1.7337	17.9986	2.6185	2	0.14%	1.0721	47.1852	0.3609
	LDGT2	361	1.7633	19.7973	2.7789	135	37.40%	1.7983	20.7401	2.6661	1	0.28%	1.5972	46.0714	1.9222
1986 Total		3644	1.3058	13.7446	2.2319	706	19.37%	1.4753	15.0154	2.3471	6	0.16%	1.8819	40.7928	1.3505
1987	LDGV	3295	0.8476	9.2563	1.7082	405	12.29%	0.9421	8.1671	1.7282	6	0.18%	3.1654	73.6339	1.4045
	LDGT1	2311	1.3499	13.9888	2.1912	485	20.99%	1.3855	13.8360	2.2782	7	0.30%	3.9993	95.9349	0.7582
	LDGT2	656	1.5618	13.1153	2.8172	173	26.37%	1.6054	12.9952	2.9483	4	0.61%	4.6702	56.7814	1.7761
1987 Total		6262	1.1078	11.4071	2.0027	1063	16.98%	1.2523	11.5393	2.1777	17	0.27%	3.8628	78.8514	1.2258
1988	LDGV	2826	0.7811	8.9163	1.6076	395	13.98%	0.8787	8.1169	1.7394	4	0.14%	1.6723	32.9478	1.1990
	LDGT1	2092	1.2644	12.7263	2.0206	406	19.41%	1.3137	12.0290	2.1707	4	0.19%	3.6236	101.9241	2.7077
	LDGT2	776	1.3515	12.1458	2.4058	179	23.07%	1.4339	12.2230	2.6117	4	0.52%	2.5955	55.7402	1.8503
1988 Total		5694	1.0364	10.7562	1.8681	980	17.21%	1.1604	10.4876	2.0774	12	0.21%	2.6304	63.5373	1.9190
1989	LDGV	5501	0.6905	8.2702	1.5020	663	12.05%	0.8434	8.1935	1.6790	10	0.18%	2.5339	45.7759	1.4832
	LDGT1	3660	1.1794	11.8915	1.9655	639	17.46%	1.3490	12.3274	2.2691	11	0.30%	3.1224	75.6563	1.7422
	LDGT2	1364	1.3347	11.3890	2.5318	281	20.60%	1.5109	11.7529	2.8741	5	0.37%	8.7182	38.3145	3.5912
1989 Total		10525	0.9440	9.9337	1.7966	1583	15.04%	1.1660	10.4940	2.1294	26	0.25%	3.9722	56.9827	1.9982
1990	LDGV	6090	0.6645	7.8286	1.4687	700	11.49%	0.7863	7.8781	1.6938	8	0.13%	2.1061	31.0061	2.5256
	LDGT1	2806	1.0653	10.8269	1.9859	489	17.43%	1.2742	11.6602	2.3163	2	0.07%	4.0310	63.8827	1.6651
	LDGT2	1073	1.2820	11.3395	2.4488	198	18.45%	1.4738	12.5902	2.7320	2	0.19%	3.2884	64.0204	1.1036
1990 Total		9969	0.8438	9.0504	1.7198	1387	13.91%	1.0564	9.8842	2.0615	12	0.12%	2.6240	41.9879	2.1452
1991	LDGV	10166	0.5728	6.8976	1.3792	1122	11.04%	0.7282	7.2935	1.6678	5	0.05%	3.5482	50.8342	2.0987
	LDGT1	5499	0.8762	9.4753	1.6229	757	13.77%	1.0587	10.5618	1.9246	3	0.05%	5.2087	33.6822	1.5336
	LDGT2	1440	1.1010	10.2958	2.2238	281	19.51%	1.2908	11.1645	2.5155	1	0.07%	2.3680	15.5007	7.0050

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
1991 Total		17105	0.7148	8.0124	1.5287	2160	12.63%	0.9172	8.9425	1.8681	9	0.05%	3.9706	41.1909	2.4555
1992	LDGV	8913	0.5284	6.2888	1.3047	1076	12.07%	0.6657	6.3846	1.5028	8	0.09%	4.2119	24.1235	1.7591
	LDGT1	4130	0.8101	9.0546	1.6789	550	13.32%	0.9863	10.2774	2.0399	2	0.05%	0.9227	7.8402	5.7319
	LDGT2	1595	1.1851	11.5165	2.2711	345	21.63%	1.3969	12.5387	2.4987	7	0.44%	3.5258	45.3361	3.4074
1992 Total		14638	0.6794	7.6388	1.5156	1971	13.46%	0.8831	8.5481	1.8270	17	0.12%	3.5424	30.9424	2.9052
1993	LDGV	13880	0.5100	5.7824	1.3037	1505	10.84%	0.6666	6.3670	1.6009	11	0.08%	4.3185	31.4207	2.0385
	LDGT1	8365	0.8236	8.5385	1.7163	987	11.80%	1.0164	9.7738	2.0784	8	0.10%	8.4046	69.3551	2.9745
	LDGT2	2697	1.1770	10.5127	2.0966	553	20.50%	1.3033	11.2908	2.4056	6	0.22%	2.7330	29.7822	3.0250
1993 Total		24942	0.6873	7.2182	1.5278	3045	12.21%	0.8956	8.3655	1.9018	25	0.10%	5.2455	43.1665	2.5748
1994	LDGV	13197	0.3914	4.9648	1.0215	1294	9.81%	0.5265	5.4738	1.3035	11	0.08%	2.7672	15.9752	3.1377
	LDGT1	8592	0.6319	7.0161	1.4382	1047	12.19%	0.8052	8.6456	1.8595	4	0.05%	5.9893	31.3341	3.2372
	LDGT2	3351	0.8175	8.1717	1.7489	656	19.58%	0.9878	9.3397	2.0297	6	0.18%	1.8950	31.6412	5.2523
1994 Total		25140	0.5304	6.0933	1.2609	2997	11.92%	0.7248	7.4280	1.6567	21	0.08%	3.1317	23.3767	3.7608
1995	LDGV	21323	0.3704	4.3759	0.9447	1967	9.22%	0.4941	4.9106	1.2102	10	0.05%	2.7389	32.2227	2.1946
	LDGT1	11825	0.5664	5.8740	1.4689	1461	12.36%	0.7660	8.0029	1.8863	7	0.06%	4.0609	32.3602	2.6821
	LDGT2	5696	0.8340	7.8898	1.8493	1145	20.10%	1.0337	9.7109	2.0940	5	0.09%	3.6615	33.8802	3.4164
1995 Total		38844	0.4980	5.3472	1.2369	4573	11.77%	0.7161	7.1005	1.6475	22	0.06%	3.3692	32.6432	2.6274
1996	LDGV	17187	0.2885	3.6940	0.7722	1474	8.58%	0.3599	4.1237	0.9603	7	0.04%	2.0433	22.0932	1.2872
	LDGT1	9936	0.3365	4.1459	1.2634	1150	11.57%	0.4052	5.2331	1.5485	5	0.05%	0.8466	26.8766	2.0585
	LDGT2	3901	0.4626	5.2029	1.2754	551	14.12%	0.5672	6.1062	1.5376	3	0.08%	4.1813	94.9304	2.2578
1996 Total		31024	0.3257	4.0285	0.9928	3175	10.23%	0.4123	4.8696	1.2736	15	0.05%	2.0720	38.2551	1.7384
1997	LDGV	26685	0.2658	3.5539	0.7151	2217	8.31%	0.3245	3.9545	0.8736	12	0.04%	2.7630	18.9119	3.2656
	LDGT1	17365	0.3066	4.1255	1.1524	2102	12.10%	0.3816	5.3761	1.3557	15	0.09%	1.2195	26.5137	1.9571
	LDGT2	6523	0.4011	4.9819	1.2819	885	13.57%	0.4974	6.0186	1.5690	4	0.06%	3.2356	29.0017	3.2562
1997 Total		50573	0.2972	3.9343	0.9384	5204	10.29%	0.3770	4.8797	1.1866	31	0.06%	2.0771	23.8921	2.6313
1998	LDGV	22470	0.2222	3.3245	0.5956	1795	7.99%	0.2574	3.6691	0.6910	14	0.06%	1.0393	15.7794	2.8086
	LDGT1	16096	0.2582	3.4250	0.9899	1611	10.01%	0.3309	4.3959	1.2556	11	0.07%	0.9678	18.5555	3.6295
	LDGT2	5504	0.3038	4.0582	1.1008	716	13.01%	0.3671	5.1453	1.3408	3	0.05%	0.7805	9.4623	3.4639
1998 Total		44070	0.2455	3.4529	0.8027	4122	9.35%	0.3052	4.2096	1.0245	28	0.06%	0.9835	16.1932	3.2013
1999	LDGV	32247	0.1942	3.0284	0.5576	2569	7.97%	0.2173	3.1498	0.6641	6	0.02%	2.0054	26.6921	2.5515
	LDGT1	21124	0.2063	2.6785	0.7502	1843	8.72%	0.2741	3.5881	0.9753	14	0.07%	1.6069	20.5856	2.8819
	LDGT2	10767	0.2850	3.2416	0.9403	1130	10.50%	0.3797	4.2000	1.2512	10	0.09%	1.7024	10.1496	3.2835
1999 Total		64138	0.2134	2.9489	0.6853	5542	8.64%	0.2693	3.5097	0.8873	30	0.05%	1.7184	18.3283	2.9497
2000	LDGV	28059	0.1544	2.7963	0.4758	2185	7.79%	0.1787	2.8652	0.5479	18	0.06%	1.0776	7.6574	3.5926
	LDGT1	17754	0.1755	2.4413	0.6634	1466	8.26%	0.2265	3.1919	0.8437	7	0.04%	0.6388	15.3264	2.8354
	LDGT2	6736	0.1966	2.6723	0.7153	613	9.10%	0.2716	3.6025	0.9499	3	0.04%	1.9354	87.7399	1.0291
2000 Total		52549	0.1670	2.6605	0.5699	4264	8.11%	0.2085	3.0835	0.7074	28	0.05%	1.0598	18.1549	3.1286
2001	LDGV	35583	0.1215	2.5062	0.3819	1853	5.21%	0.1294	2.2765	0.3846	3	0.01%	0.0750	0.6326	5.0780
	LDGT1	22565	0.0989	1.7380	0.4293	1365	6.05%	0.1263	2.4418	0.4740	6	0.03%	0.7857	8.1666	4.4040
	LDGT2	9709	0.1783	2.4947	0.6328	818	8.43%	0.2248	3.2539	0.7761	3	0.03%	2.7357	75.4450	2.1287

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2001 Total		67857	0.1221	2.2491	0.4336	4036	5.95%	0.1477	2.5305	0.4942	12	0.02%	1.0955	23.1027	4.0037
2002	LDGV	25732	0.1120	2.3509	0.3443	1456	5.66%	0.1085	1.8674	0.3258	3	0.01%	0.3165	2.8909	4.2716
	LDGT1	17177	0.0841	1.6201	0.3903	912	5.31%	0.1051	2.5092	0.4042	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	5595	0.1412	2.0109	0.5934	441	7.88%	0.1969	2.8211	0.7873	0	0.00%	0.0000	0.0000	0.0000
2002 Total		48504	0.1055	2.0529	0.3893	2809	5.79%	0.1213	2.2255	0.4237	3	0.01%	0.3165	2.8909	4.2716
2003	LDGV	33507	0.0941	2.1448	0.3103	1364	4.07%	0.0843	1.5869	0.2513	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	23469	0.0715	1.3378	0.3384	1057	4.50%	0.0844	1.7524	0.3058	2	0.01%	1.2986	13.0789	4.1500
	LDGT2	9375	0.1121	1.6049	0.4484	490	5.23%	0.1596	2.5331	0.5059	0	0.00%	0.0000	0.0000	0.0000
2003 Total		66351	0.0886	1.7831	0.3398	2911	4.39%	0.0970	1.8063	0.3139	2	0.00%	1.2986	13.0789	4.1500
2004	LDGV	19781	0.0883	2.0970	0.2752	955	4.83%	0.0697	1.4568	0.1823	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	14841	0.0647	1.2327	0.2610	573	3.86%	0.0667	1.9445	0.1995	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	6797	0.0814	1.3798	0.2675	289	4.25%	0.1079	2.0286	0.3077	0	0.00%	0.0000	0.0000	0.0000
2004 Total		41419	0.0787	1.6696	0.2688	1817	4.39%	0.0749	1.7015	0.2077	0	0.00%	0.0000	0.0000	0.0000
2005	LDGV	33864	0.0816	1.9827	0.2702	1267	3.74%	0.0517	1.0488	0.1448	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	27315	0.0539	1.0201	0.2142	709	2.60%	0.0492	1.3389	0.1373	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	9669	0.0787	1.3031	0.2297	247	2.55%	0.1044	1.9739	0.2939	1	0.01%	0.6113	9.4516	3.3223
2005 Total		70848	0.0706	1.5188	0.2431	2223	3.14%	0.0567	1.2441	0.1590	1	0.00%	0.6113	9.4516	3.3223
2006	LDGV	20765	0.0785	1.9658	0.2478	579	2.79%	0.0486	1.0772	0.1323	1	0.00%	1.8108	14.7632	3.8999
	LDGT1	14611	0.0508	0.9705	0.2162	507	3.47%	0.0391	0.9263	0.1215	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	7201	0.0652	1.0636	0.2026	190	2.64%	0.0723	1.2420	0.1669	0	0.00%	0.0000	0.0000	0.0000
2006 Total		42577	0.0667	1.4716	0.2293	1276	3.00%	0.0484	1.0418	0.1331	1	0.00%	1.8108	14.7632	3.8999
2007	LDGV	34818	0.0758	1.8699	0.2391	651	1.87%	0.0484	1.2048	0.0877	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	28104	0.0445	0.8977	0.1894	879	3.13%	0.0282	0.9197	0.0695	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	11575	0.0548	0.9184	0.1814	257	2.22%	0.0580	1.1797	0.1164	0	0.00%	0.0000	0.0000	0.0000
2007 Total		74497	0.0607	1.3553	0.2114	1787	2.40%	0.0398	1.0609	0.0829	0	0.00%	0.0000	0.0000	0.0000
2008	LDGV	8229	0.0743	1.8961	0.2323	129	1.57%	0.0362	0.9971	0.0621	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	5771	0.0418	0.8342	0.1858	167	2.89%	0.0212	0.5186	0.0339	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	3026	0.0481	1.0126	0.1816	95	3.14%	0.0556	2.1259	0.1033	0	0.00%	0.0000	0.0000	0.0000
2008 Total		17026	0.0586	1.3791	0.2075	391	2.30%	0.0345	1.0670	0.0601	0	0.00%	0.0000	0.0000	0.0000
2009	LDGV	2364	0.0732	1.9173	0.2317	32	1.35%	0.0248	0.7820	0.0659	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	1182	0.0412	0.9232	0.1826	21	1.78%	0.0105	0.4376	0.0234	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	665	0.0430	0.8808	0.1731	12	1.80%	0.0388	1.2346	0.0512	0	0.00%	0.0000	0.0000	0.0000
2009 Total		4211	0.0594	1.4746	0.2087	65	1.54%	0.0228	0.7543	0.0495	0	0.00%	0.0000	0.0000	0.0000
2010	LDGV	1930	0.0737	1.9629	0.2145	20	1.04%	0.0235	1.1937	0.0141	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	1036	0.0382	0.8810	0.1689	12	1.16%	0.0112	0.3788	0.0191	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	771	0.0423	0.8285	0.1611	8	1.04%	0.0183	0.4709	0.0439	0	0.00%	0.0000	0.0000	0.0000
2010 Total		3737	0.0574	1.4290	0.1908	40	1.07%	0.0188	0.8047	0.0215	0	0.00%	0.0000	0.0000	0.0000
2011	LDGV	508	0.0750	1.9256	0.2164	1	0.20%	0.0153	0.7718	0.2784	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	341	0.0449	0.9859	0.1729	5	1.47%	0.0207	0.6478	0.0260	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	247	0.0444	0.8881	0.1554	3	1.21%	0.0065	0.4245	0.0166	0	0.00%	0.0000	0.0000	0.0000

Vehicle		Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Year	Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
2011 Total		1096	0.0588	1.3994	0.1891	9	0.82%	0.0154	0.5871	0.0509	0	0.00%	0.0000	0.0000	0.0000
2012	LDGV	12	0.0894	1.9160	0.2139	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT1	11	0.0534	0.9857	0.1524	0	0.00%	0.0000	0.0000	0.0000	0	0.00%	0.0000	0.0000	0.0000
	LDGT2	5	0.0608	1.0391	0.1191	1	20.00%	0.0471	0.7041	0.1089	0	0.00%	0.0000	0.0000	0.0000
2012 Total		28	0.0701	1.3939	0.1728	1	3.57%	0.0471	0.7041	0.1089	0	0.00%	0.0000	0.0000	0.0000
Grand Total		845403	0.2567	3.4092	0.6747	62170	7.35%	0.4987	5.5243	1.1394	356	0.04%	2.9209	38.7034	2.6297

Records 1 - 93 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle	Overall Final Exhaust Emissions				Pass Retest Exhaust Emissions					Waived Exhaust Emissions				
Type	Total	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)	Total	Total %	Avg HC(gpm)	Avg CO(gpm)	Avg NOx(gpm)
LDGV	434790	0.2250	3.3540	0.5909	28668	6.59%	0.3683	4.1511	0.8758	162	0.04%	2.8014	33.7670	2.3761
LDGT1	292470	0.2739	3.3655	0.7324	22389	7.66%	0.5633	6.3902	1.2703	123	0.04%	2.9225	43.3822	2.6950
LDGT2	118143	0.3308	3.7201	0.8403	11113	9.41%	0.7049	7.3220	1.5557	71	0.06%	3.1905	41.8614	3.0954
Grand Total	845403	0.2567	3.4092	0.6747	62170	7.35%	0.4987	5.5243	1.1394	356	0.04%	2.9209	38.7034	2.6297

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I/M240 Fleet Characterization Summary Report
Emissions Reduction Component

IM240 Fleet Emission Reduction Report (V1.01)

Vehicle		Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Year	Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
1982	LDGV	328	2.0035	22.8894	2.0629	328	1.6148	19.4218	2.0687	0.3886	19.40%	3.4675	15.15%	-0.0059	-0.28%
	LDGT1	284	3.2991	40.1692	2.6168	284	2.8030	30.6646	2.6206	0.4961	15.04%	9.5046	23.66%	-0.0039	-0.15%
	LDGT2	81	4.1616	51.8538	2.6398	81	2.3660	32.0453	2.7777	1.7956	43.15%	19.8085	38.20%	-0.1380	-5.23%
1982 Total		693	2.7867	33.3563	2.3573	693	2.1896	25.5047	2.3778	0.5971	21.43%	7.8516	23.54%	-0.0205	-0.87%
1983	LDGV	769	1.7845	23.4951	1.9606	769	1.3718	16.9555	1.9490	0.4127	23.13%	6.5397	27.83%	0.0116	0.59%
	LDGT1	583	3.2290	37.2801	2.7180	583	2.7446	29.7912	2.6746	0.4844	15.00%	7.4889	20.09%	0.0434	1.60%
	LDGT2	248	3.9171	49.2631	2.8761	248	2.6052	32.5271	2.9401	1.3119	33.49%	16.7360	33.97%	-0.0640	-2.23%
1983 Total		1600	2.6414	32.5121	2.3785	1600	2.0632	24.0461	2.3670	0.5782	21.89%	8.4660	26.04%	0.0115	0.48%
1984	LDGV	990	1.5886	19.6996	1.9884	990	1.3087	14.3298	2.0011	0.2800	17.62%	5.3698	27.26%	-0.0127	-0.64%
	LDGT1	723	2.6794	35.4171	2.6087	723	2.2152	25.4450	2.6554	0.4641	17.32%	9.9721	28.16%	-0.0468	-1.79%
	LDGT2	264	3.2403	43.2237	3.1027	264	2.2346	28.0921	3.0389	1.0056	31.04%	15.1315	35.01%	0.0638	2.06%
1984 Total		1977	2.2081	28.5889	2.3641	1977	1.7639	20.2325	2.3790	0.4442	20.12%	8.3564	29.23%	-0.0149	-0.63%
1985	LDGV	1915	1.3743	16.0449	1.9367	1915	1.0689	11.5509	1.9279	0.3054	22.22%	4.4940	28.01%	0.0088	0.45%
	LDGT1	1475	2.4470	30.5690	2.6692	1475	2.0130	22.1174	2.7231	0.4339	17.73%	8.4517	27.65%	-0.0540	-2.02%
	LDGT2	475	3.2792	40.1718	2.9113	475	1.9339	23.8878	2.9651	1.3453	41.03%	16.2840	40.54%	-0.0538	-1.85%
1985 Total		3865	2.0178	24.5529	2.3360	3865	1.5355	17.0996	2.3589	0.4822	23.90%	7.4533	30.36%	-0.0229	-0.98%
1986	LDGV	1856	1.1264	13.2444	1.8415	1856	0.8923	9.8630	1.8035	0.2342	20.79%	3.3814	25.53%	0.0380	2.06%
	LDGT1	1427	2.0541	22.0615	2.6663	1427	1.7279	17.2618	2.6507	0.3262	15.88%	4.7997	21.76%	0.0156	0.59%
	LDGT2	361	2.8846	36.7653	2.8361	361	1.7633	19.7973	2.7789	1.1213	38.87%	16.9679	46.15%	0.0572	2.02%
1986 Total		3644	1.6639	19.0274	2.2631	3644	1.3058	13.7446	2.2319	0.3581	21.52%	5.2828	27.76%	0.0311	1.38%
1987	LDGV	3295	1.0371	12.0921	1.7443	3295	0.8476	9.2563	1.7082	0.1895	18.27%	2.8357	23.45%	0.0360	2.07%
	LDGT1	2311	1.6907	19.0822	2.2166	2311	1.3499	13.9888	2.1912	0.3409	20.16%	5.0934	26.69%	0.0254	1.15%
	LDGT2	656	1.9840	18.8663	2.8638	656	1.5618	13.1153	2.8172	0.4223	21.28%	5.7510	30.48%	0.0466	1.63%
1987 Total		6262	1.3775	15.3814	2.0359	6262	1.1078	11.4071	2.0027	0.2697	19.58%	3.9743	25.84%	0.0332	1.63%
1988	LDGV	2826	1.0052	12.0556	1.6323	2826	0.7811	8.9163	1.6076	0.2240	22.29%	3.1393	26.04%	0.0247	1.51%
	LDGT1	2092	1.6530	17.1827	2.0877	2092	1.2644	12.7263	2.0206	0.3886	23.51%	4.4563	25.94%	0.0671	3.21%
	LDGT2	776	1.8444	15.9579	2.5371	776	1.3515	12.1458	2.4058	0.4929	26.72%	3.8121	23.89%	0.1313	5.18%
1988 Total		5694	1.3575	14.4711	1.9229	5694	1.0364	10.7562	1.8681	0.3211	23.65%	3.7149	25.67%	0.0548	2.85%
1989	LDGV	5501	0.8657	10.9098	1.5089	5501	0.6905	8.2702	1.5020	0.1753	20.24%	2.6396	24.19%	0.0070	0.46%
	LDGT1	3660	1.5057	16.0162	2.0124	3660	1.1794	11.8915	1.9655	0.3264	21.68%	4.1247	25.75%	0.0468	2.33%
	LDGT2	1364	1.6970	14.9220	2.6303	1364	1.3347	11.3890	2.5318	0.3624	21.35%	3.5330	23.68%	0.0985	3.75%
1989 Total		10525	1.1960	13.2055	1.8293	10525	0.9440	9.9337	1.7966	0.2521	21.07%	3.2718	24.78%	0.0327	1.79%
1990	LDGV	6090	0.8287	9.9719	1.5160	6090	0.6645	7.8286	1.4687	0.1642	19.81%	2.1433	21.49%	0.0472	3.12%
	LDGT1	2806	1.3303	13.8520	2.0551	2806	1.0653	10.8269	1.9859	0.2651	19.92%	3.0251	21.84%	0.0692	3.37%
	LDGT2	1073	1.5504	14.1153	2.5492	1073	1.2820	11.3395	2.4488	0.2685	17.32%	2.7758	19.67%	0.1004	3.94%
1990 Total		9969	1.0476	11.5100	1.7789	9969	0.8438	9.0504	1.7198	0.2038	19.45%	2.4596	21.37%	0.0591	3.32%
1991	LDGV	10166	0.7179	8.8660	1.4085	10166	0.5728	6.8976	1.3792	0.1451	20.21%	1.9684	22.20%	0.0293	2.08%
	LDGT1	5499	1.0530	12.0555	1.6584	5499	0.8762	9.4753	1.6229	0.1767	16.78%	2.5802	21.40%	0.0356	2.14%
	LDGT2	1440	1.4119	13.7759	2.2868	1440	1.1010	10.2958	2.2238	0.3109	22.02%	3.4801	25.26%	0.0629	2.75%
1991 Total		17105	0.8840	10.3047	1.5628	17105	0.7148	8.0124	1.5287	0.1692	19.14%	2.2924	22.25%	0.0341	2.18%
1992	LDGV	8913	0.6825	8.7645	1.3489	8913	0.5284	6.2888	1.3047	0.1541	22.58%	2.4757	28.25%	0.0442	3.28%
	LDGT1	4130	0.9802	11.2603	1.7214	4130	0.8101	9.0546	1.6789	0.1701	17.35%	2.2057	19.59%	0.0425	2.47%

Vehicle		Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Year	Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
	LDGT2	1595	1.5840	15.4425	2.4217	1595	1.1851	11.5165	2.2711	0.3989	25.18%	3.9260	25.42%	0.1506	6.22%
1992 Total		14638	0.8647	10.1963	1.5709	14638	0.6794	7.6388	1.5156	0.1853	21.43%	2.5576	25.08%	0.0553	3.52%
1993	LDGV	13880	0.6416	7.5778	1.3451	13880	0.5100	5.7824	1.3037	0.1316	20.52%	1.7953	23.69%	0.0414	3.08%
	LDGT1	8365	0.9612	10.2250	1.7619	8365	0.8236	8.5385	1.7163	0.1375	14.31%	1.6865	16.49%	0.0456	2.59%
	LDGT2	2697	1.5278	13.3924	2.2055	2697	1.1770	10.5127	2.0966	0.3508	22.96%	2.8798	21.50%	0.1089	4.94%
1993 Total		24942	0.8446	9.0943	1.5779	24942	0.6873	7.2182	1.5278	0.1573	18.63%	1.8761	20.63%	0.0501	3.18%
1994	LDGV	13197	0.5054	6.2351	1.0662	13197	0.3914	4.9648	1.0215	0.1140	22.55%	1.2703	20.37%	0.0447	4.19%
	LDGT1	8592	0.7860	8.8184	1.5336	8592	0.6319	7.0161	1.4382	0.1541	19.60%	1.8023	20.44%	0.0954	6.22%
	LDGT2	3351	1.1354	11.2055	1.9409	3351	0.8175	8.1717	1.7489	0.3179	28.00%	3.0338	27.07%	0.1920	9.89%
1994 Total		25140	0.6853	7.7805	1.3425	25140	0.5304	6.0933	1.2609	0.1549	22.60%	1.6872	21.68%	0.0816	6.08%
1995	LDGV	21323	0.4651	5.4675	0.9839	21323	0.3704	4.3759	0.9447	0.0947	20.37%	1.0916	19.97%	0.0392	3.98%
	LDGT1	11825	0.7202	7.3683	1.5535	11825	0.5664	5.8740	1.4689	0.1538	21.35%	1.4943	20.28%	0.0847	5.45%
	LDGT2	5696	1.1132	10.3298	1.9824	5696	0.8340	7.8898	1.8493	0.2792	25.08%	2.4400	23.62%	0.1331	6.71%
1995 Total		38844	0.6378	6.7592	1.3037	38844	0.4980	5.3472	1.2369	0.1398	21.91%	1.4120	20.89%	0.0668	5.12%
1996	LDGV	17187	0.3462	4.5971	0.8168	17187	0.2885	3.6940	0.7722	0.0577	16.67%	0.9031	19.65%	0.0446	5.46%
	LDGT1	9936	0.4220	5.1362	1.3472	9936	0.3365	4.1459	1.2634	0.0855	20.26%	0.9903	19.28%	0.0838	6.22%
	LDGT2	3901	0.5836	6.9789	1.3756	3901	0.4626	5.2029	1.2754	0.1210	20.73%	1.7759	25.45%	0.1002	7.28%
1996 Total		31024	0.4003	5.0693	1.0569	31024	0.3257	4.0285	0.9928	0.0746	18.63%	1.0408	20.53%	0.0641	6.07%
1997	LDGV	26685	0.3175	4.3280	0.7567	26685	0.2658	3.5539	0.7151	0.0517	16.28%	0.7741	17.89%	0.0416	5.50%
	LDGT1	17365	0.3714	5.2117	1.2118	17365	0.3066	4.1255	1.1524	0.0648	17.44%	1.0863	20.84%	0.0593	4.90%
	LDGT2	6523	0.4956	5.9298	1.3886	6523	0.4011	4.9819	1.2819	0.0945	19.07%	0.9478	15.98%	0.1067	7.68%
1997 Total		50573	0.3590	4.8380	0.9945	50573	0.2972	3.9343	0.9384	0.0617	17.19%	0.9037	18.68%	0.0561	5.64%
1998	LDGV	22470	0.2669	4.0062	0.6449	22470	0.2222	3.3245	0.5956	0.0447	16.74%	0.6817	17.02%	0.0492	7.63%
	LDGT1	16096	0.3077	4.1277	1.0691	16096	0.2582	3.4250	0.9899	0.0494	16.07%	0.7027	17.02%	0.0792	7.41%
	LDGT2	5504	0.3959	5.1410	1.2462	5504	0.3038	4.0582	1.1008	0.0921	23.27%	1.0829	21.06%	0.1454	11.67%
1998 Total		44070	0.2979	4.1923	0.8749	44070	0.2455	3.4529	0.8027	0.0523	17.57%	0.7395	17.64%	0.0722	8.25%
1999	LDGV	32247	0.2349	3.5875	0.6046	32247	0.1942	3.0284	0.5576	0.0407	17.31%	0.5591	15.59%	0.0469	7.77%
	LDGT1	21124	0.2377	3.1376	0.8124	21124	0.2063	2.6785	0.7502	0.0314	13.22%	0.4591	14.63%	0.0622	7.65%
	LDGT2	10767	0.3650	4.0700	1.0491	10767	0.2850	3.2416	0.9403	0.0801	21.93%	0.8283	20.35%	0.1087	10.36%
1999 Total		64138	0.2577	3.5203	0.7476	64138	0.2134	2.9489	0.6853	0.0442	17.17%	0.5714	16.23%	0.0623	8.34%
2000	LDGV	28059	0.1934	3.2857	0.5374	28059	0.1544	2.7963	0.4758	0.0390	20.15%	0.4894	14.89%	0.0617	11.47%
	LDGT1	17754	0.1971	2.8322	0.7151	17754	0.1755	2.4413	0.6634	0.0215	10.92%	0.3909	13.80%	0.0517	7.22%
	LDGT2	6736	0.2842	3.7723	0.7964	6736	0.1966	2.6723	0.7153	0.0876	30.83%	1.1000	29.16%	0.0811	10.18%
2000 Total		52549	0.2063	3.1949	0.6307	52549	0.1670	2.6605	0.5699	0.0393	19.06%	0.5344	16.73%	0.0608	9.64%
2001	LDGV	35583	0.1447	2.8115	0.4201	35583	0.1215	2.5062	0.3819	0.0232	16.01%	0.3053	10.86%	0.0382	9.09%
	LDGT1	22565	0.1123	1.9903	0.4607	22565	0.0989	1.7380	0.4293	0.0134	11.94%	0.2523	12.68%	0.0315	6.83%
	LDGT2	9709	0.2045	2.8130	0.6789	9709	0.1783	2.4947	0.6328	0.0262	12.83%	0.3184	11.32%	0.0461	6.79%
2001 Total		67857	0.1425	2.5386	0.4707	67857	0.1221	2.2491	0.4336	0.0204	14.29%	0.2896	11.41%	0.0371	7.88%
2002	LDGV	25732	0.1330	2.6497	0.3870	25732	0.1120	2.3509	0.3443	0.0209	15.75%	0.2988	11.28%	0.0427	11.04%
	LDGT1	17177	0.1016	2.0773	0.4171	17177	0.0841	1.6201	0.3903	0.0175	17.23%	0.4572	22.01%	0.0268	6.42%
	LDGT2	5595	0.1604	2.2829	0.6376	5595	0.1412	2.0109	0.5934	0.0192	11.95%	0.2720	11.92%	0.0442	6.94%
2002 Total		48504	0.1250	2.4047	0.4265	48504	0.1055	2.0529	0.3893	0.0195	15.62%	0.3518	14.63%	0.0372	8.73%

Vehicle		Overall Initial Exhaust Emissions				Overall Final Exhaust Emissions				Emission Reduction					
Year	Type	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
2003	LDGV	33507	0.1100	2.3240	0.3321	33507	0.0941	2.1448	0.3103	0.0159	14.49%	0.1792	7.71%	0.0218	6.56%
	LDGT1	23469	0.0809	1.5122	0.3515	23469	0.0715	1.3378	0.3384	0.0094	11.62%	0.1743	11.53%	0.0132	3.74%
	LDGT2	9375	0.1273	1.9227	0.4778	9375	0.1121	1.6049	0.4484	0.0152	11.92%	0.3178	16.53%	0.0294	6.15%
2003 Total		66351	0.1022	1.9801	0.3596	66351	0.0886	1.7831	0.3398	0.0135	13.23%	0.1971	9.95%	0.0198	5.51%
2004	LDGV	19781	0.1026	2.3333	0.3000	19781	0.0883	2.0970	0.2752	0.0143	13.96%	0.2363	10.13%	0.0248	8.27%
	LDGT1	14841	0.0705	1.3329	0.2741	14841	0.0647	1.2327	0.2610	0.0058	8.19%	0.1002	7.52%	0.0131	4.79%
	LDGT2	6797	0.0881	1.5115	0.2904	6797	0.0814	1.3798	0.2675	0.0067	7.60%	0.1317	8.71%	0.0229	7.90%
2004 Total		41419	0.0887	1.8400	0.2892	41419	0.0787	1.6696	0.2688	0.0100	11.28%	0.1704	9.26%	0.0203	7.03%
2005	LDGV	33864	0.0897	2.1103	0.2863	33864	0.0816	1.9827	0.2702	0.0081	8.98%	0.1276	6.05%	0.0161	5.61%
	LDGT1	27315	0.0557	1.0647	0.2210	27315	0.0539	1.0201	0.2142	0.0018	3.20%	0.0446	4.19%	0.0068	3.08%
	LDGT2	9669	0.0852	1.4420	0.2390	9669	0.0787	1.3031	0.2297	0.0065	7.68%	0.1389	9.63%	0.0092	3.86%
2005 Total		70848	0.0760	1.6160	0.2547	70848	0.0706	1.5188	0.2431	0.0054	7.15%	0.0972	6.01%	0.0116	4.54%
2006	LDGV	20765	0.0859	2.0918	0.2720	20765	0.0785	1.9658	0.2478	0.0075	8.69%	0.1260	6.02%	0.0242	8.90%
	LDGT1	14611	0.0523	1.0125	0.2234	14611	0.0508	0.9705	0.2162	0.0015	2.88%	0.0420	4.15%	0.0071	3.20%
	LDGT2	7201	0.0705	1.1394	0.2107	7201	0.0652	1.0636	0.2026	0.0053	7.54%	0.0758	6.65%	0.0081	3.86%
2006 Total		42577	0.0718	1.5603	0.2449	42577	0.0667	1.4716	0.2293	0.0051	7.05%	0.0887	5.68%	0.0156	6.38%
2007	LDGV	34818	0.0794	1.9295	0.2533	34818	0.0758	1.8699	0.2391	0.0036	4.56%	0.0596	3.09%	0.0141	5.58%
	LDGT1	28104	0.0455	0.9148	0.1954	28104	0.0445	0.8977	0.1894	0.0010	2.23%	0.0172	1.87%	0.0061	3.11%
	LDGT2	11575	0.0582	0.9822	0.1857	11575	0.0548	0.9184	0.1814	0.0035	5.98%	0.0638	6.49%	0.0043	2.31%
2007 Total		74497	0.0633	1.3995	0.2210	74497	0.0607	1.3553	0.2114	0.0026	4.13%	0.0442	3.16%	0.0096	4.33%
2008	LDGV	8229	0.0766	1.9271	0.2423	8229	0.0743	1.8961	0.2323	0.0022	2.92%	0.0311	1.61%	0.0100	4.14%
	LDGT1	5771	0.0426	0.8529	0.1904	5771	0.0418	0.8342	0.1858	0.0008	1.91%	0.0187	2.19%	0.0045	2.38%
	LDGT2	3026	0.0483	1.0151	0.1846	3026	0.0481	1.0126	0.1816	0.0003	0.54%	0.0025	0.25%	0.0030	1.64%
2008 Total		17026	0.0600	1.4009	0.2145	17026	0.0586	1.3791	0.2075	0.0014	2.33%	0.0218	1.56%	0.0069	3.23%
2009	LDGV	2364	0.0746	1.9529	0.2383	2364	0.0732	1.9173	0.2317	0.0015	1.97%	0.0356	1.82%	0.0066	2.78%
	LDGT1	1182	0.0420	0.9309	0.1850	1182	0.0412	0.9232	0.1826	0.0007	1.78%	0.0077	0.82%	0.0023	1.26%
	LDGT2	665	0.0431	0.8739	0.1754	665	0.0430	0.8808	0.1731	0.0001	0.25%	-0.0070	-0.80%	0.0023	1.32%
2009 Total		4211	0.0605	1.4956	0.2134	4211	0.0594	1.4746	0.2087	0.0011	1.74%	0.0210	1.41%	0.0047	2.22%
2010	LDGV	1930	0.0754	1.9857	0.2216	1930	0.0737	1.9629	0.2145	0.0016	2.16%	0.0227	1.15%	0.0070	3.18%
	LDGT1	1036	0.0386	0.8878	0.1702	1036	0.0382	0.8810	0.1689	0.0003	0.89%	0.0068	0.76%	0.0013	0.77%
	LDGT2	771	0.0426	0.8317	0.1629	771	0.0423	0.8285	0.1611	0.0003	0.72%	0.0032	0.38%	0.0018	1.09%
2010 Total		3737	0.0584	1.4432	0.1952	3737	0.0574	1.4290	0.1908	0.0010	1.71%	0.0143	0.99%	0.0044	2.24%
2011	LDGV	508	0.0751	1.9278	0.2168	508	0.0750	1.9256	0.2164	0.0001	0.14%	0.0023	0.12%	0.0004	0.18%
	LDGT1	341	0.0455	0.9912	0.1759	341	0.0449	0.9859	0.1729	0.0005	1.19%	0.0053	0.54%	0.0030	1.73%
	LDGT2	247	0.0448	0.8939	0.1571	247	0.0444	0.8881	0.1554	0.0004	0.87%	0.0058	0.65%	0.0017	1.06%
2011 Total		1096	0.0591	1.4034	0.1906	1096	0.0588	1.3994	0.1891	0.0003	0.52%	0.0040	0.29%	0.0015	0.79%
2012	LDGV	12	0.0894	1.9160	0.2139	12	0.0894	1.9160	0.2139	0.0000	0.00%	0.0000	0.00%	0.0000	0.00%
	LDGT1	11	0.0534	0.9857	0.1524	11	0.0534	0.9857	0.1524	0.0000	0.00%	0.0000	0.00%	0.0000	0.00%
	LDGT2	5	0.0691	1.3273	0.1197	5	0.0608	1.0391	0.1191	0.0083	12.04%	0.2883	21.72%	0.0006	0.47%
2012 Total		28	0.0716	1.4454	0.1729	28	0.0701	1.3939	0.1728	0.0015	2.07%	0.0515	3.56%	0.0001	0.06%
Grand Total		845403	0.3153	4.1850	0.7135	845403	0.2567	3.4092	0.6747	0.0586	18.59%	0.7758	18.54%	0.0388	5.43%

Records 1 - 93 (All Records)

Summary by Vehicle Type (V1.01)

Vehicle Type	Overall Initial Exhaust Emissions			Overall Final Exhaust Emissions				Emission Reduction						
	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Total	Avg HC (gpm)	Avg CO(gpm)	Avg NOx (gpm)	Avg HC (gpm)	% Improvement	Avg CO (gpm)	% Improvement	Avg NOx(gpm)	% Improvement
LDGV	434790	0.2750	4.0465	0.6250	434790	0.2250	3.3540	0.5909	0.0499	18.15%	0.6925	17.11%	0.0341	5.46%
LDGT1	292470	0.3293	4.1418	0.7687	292470	0.2739	3.3655	0.7324	0.0554	16.82%	0.7763	18.74%	0.0363	4.72%
LDGT2	118143	0.4294	4.8016	0.9023	118143	0.3308	3.7201	0.8403	0.0986	22.96%	1.0814	22.52%	0.0620	6.87%
Grand Total	845403	0.3153	4.1850	0.7135	845403	0.2567	3.4092	0.6747	0.0586	18.59%	0.7758	18.54%	0.0388	5.43%

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Valid Initial Idle Inspections
Enhanced Area

Idle Initial Inspection Report (V1.01)

Vehicle		All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
1974	LDGV	2,255	467.72	2.63	404.62	3.10	1476	65.45%	292.10	1.39	276.47	2.37	779	34.55%	800.48	4.99	647.42	4.50
	LDGT	1,264	425.49	2.40	372.31	2.83	867	68.59%	273.89	1.32	288.44	2.35	397	31.41%	756.57	4.76	555.48	3.89
	HDGT	1,225	414.22	2.37	406.59	2.61	1056	86.20%	303.48	2.00	322.53	2.43	169	13.80%	1106.18	4.70	931.80	3.74
1974 Total		4,744	442.65	2.50	396.52	2.90	3399	71.65%	290.99	1.56	293.84	2.38	1,345	28.35%	825.93	4.89	656.01	4.22
1975	LDGV	126	213.91	1.42	175.21	1.98	92	73.02%	129.48	0.72	139.62	1.66	34	26.98%	442.36	3.33	271.53	2.85
	LDGT	71	327.29	1.75	224.52	1.90	29	40.85%	133.66	0.57	93.01	1.05	42	59.15%	460.98	2.56	315.33	2.49
	HDGT	302	397.94	2.37	331.37	2.45	251	83.11%	267.02	1.93	260.74	2.12	51	16.89%	1042.25	4.54	678.99	4.08
1975 Total		499	341.42	2.04	276.74	2.26	372	74.55%	222.61	1.53	217.71	1.92	127	25.45%	689.42	3.56	449.64	3.22
1976	LDGV	435	255.52	1.64	229.12	1.89	273	62.76%	122.41	0.56	140.65	1.21	162	37.24%	479.83	3.46	378.21	3.02
	LDGT	224	305.26	1.60	282.38	2.02	103	45.98%	154.90	0.65	165.96	1.37	121	54.02%	433.25	2.41	381.47	2.57
	HDGT	874	356.28	2.20	295.17	2.49	744	85.13%	254.39	1.70	234.30	2.21	130	14.87%	939.39	5.09	643.51	4.09
1976 Total		1,533	320.23	1.95	274.56	2.25	1120	73.06%	213.07	1.32	205.19	1.89	413	26.94%	610.84	3.66	462.67	3.22
1977	LDGV	524	218.23	1.17	195.63	1.53	308	58.78%	99.36	0.36	99.20	0.86	216	41.22%	387.73	2.32	333.13	2.48
	LDGT	182	305.49	1.62	260.90	1.99	88	48.35%	125.14	0.47	145.43	1.42	94	51.65%	474.33	2.70	369.01	2.53
	HDGT	1,234	371.29	2.08	327.78	2.21	1054	85.41%	281.92	1.66	258.98	1.97	180	14.59%	894.65	4.52	730.64	3.63
1977 Total		1,940	323.78	1.79	285.81	2.01	1450	74.74%	233.62	1.31	218.15	1.70	490	25.26%	590.56	3.20	486.04	2.91
1978	LDGV	712	251.15	1.42	223.57	1.94	420	58.99%	109.89	0.39	117.16	1.20	292	41.01%	454.34	2.90	376.62	3.02
	LDGT	294	242.02	1.36	222.61	1.90	165	56.12%	110.41	0.49	118.58	1.40	129	43.88%	410.37	2.48	355.68	2.54
	HDGT	1,334	354.14	1.99	292.67	2.12	1148	86.06%	261.93	1.64	234.82	1.94	166	13.94%	923.27	4.10	649.70	3.26
1978 Total		2,340	308.72	1.74	262.84	2.04	1733	74.06%	210.65	1.23	195.24	1.71	607	25.94%	588.69	3.18	455.85	2.99
1979	LDGV	830	199.25	0.95	182.83	1.57	559	67.35%	103.19	0.28	107.69	1.00	271	32.65%	397.40	2.33	337.82	2.73
	LDGT	1,160	264.95	1.30	233.70	1.80	631	54.40%	118.85	0.37	142.67	1.18	529	45.60%	439.22	2.41	342.28	2.53
	HDGT	379	329.80	1.56	274.42	1.67	297	78.36%	199.73	1.06	192.21	1.48	82	21.64%	800.88	3.35	572.18	2.36
1979 Total		2,369	252.31	1.22	222.39	1.70	1487	62.77%	129.12	0.48	139.42	1.18	882	37.23%	459.99	2.47	362.28	2.58
1980	LDGV	607	154.02	0.73	154.73	1.37	456	75.12%	83.06	0.24	96.92	0.94	151	24.88%	368.32	2.23	329.32	2.65
	LDGT	608	237.14	0.93	215.79	1.69	361	59.38%	96.40	0.26	110.71	1.20	247	40.63%	442.85	1.90	369.37	2.41
	HDGT	177	260.78	1.22	180.28	1.53	141	79.66%	164.03	0.75	129.86	1.24	36	20.34%	639.74	3.06	377.73	2.64
1980 Total		1,392	203.90	0.88	184.65	1.53	958	68.82%	100.00	0.32	106.96	1.08	434	31.18%	433.25	2.11	356.13	2.51
1981	LDGV	590	140.56	0.69	150.68	1.27	354	60.00%	56.58	0.16	50.54	0.29	236	40.00%	266.53	1.48	300.89	2.74
	LDGT	702	207.81	0.93	188.07	1.24	326	46.44%	70.38	0.16	58.37	0.33	376	53.56%	326.97	1.61	300.53	2.02
	HDGT	321	213.46	1.22	168.28	1.24	255	79.44%	126.33	0.76	117.92	0.91	66	20.56%	550.10	3.01	362.87	2.50
1981 Total		1,613	184.34	0.90	170.46	1.25	935	57.97%	80.41	0.32	71.65	0.47	678	42.03%	327.65	1.70	306.72	2.32
1982	LDGV	2	5.90	0.00	3.00	0.04	2	100.00%	5.90	0.00	3.00	0.04	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	5	252.24	0.78	280.06	2.37	1	20.00%	14.10	0.00	28.60	0.06	4	80.00%	311.78	0.97	342.93	2.95
	HDGT	174	214.99	1.29	158.06	1.30	148	85.06%	145.98	0.81	124.42	1.01	26	14.94%	607.81	3.98	349.53	2.94
1982 Total		181	213.71	1.26	159.72	1.31	151	83.43%	143.25	0.80	122.18	0.99	30	16.57%	568.34	3.58	348.65	2.94
1983	LDGV	8	250.50	2.53	228.10	2.64	3	37.50%	48.33	0.15	45.70	0.14	5	62.50%	371.80	3.95	337.54	4.14
	LDGT	7	215.89	1.03	323.99	0.25	6	85.71%	61.12	0.24	60.20	0.25	1	14.29%	1144.50	5.75	1906.70	0.21
	HDGT	296	217.40	1.13	174.81	1.15	240	81.08%	120.72	0.73	103.99	0.83	56	18.92%	631.75	2.87	478.31	2.53
1983 Total		311	218.22	1.17	179.54	1.17	249	80.06%	118.41	0.71	102.23	0.81	62	19.94%	619.05	3.00	490.00	2.63
1984	LDGV	4	62.20	0.41	60.00	0.40	4	100.00%	62.20	0.41	60.00	0.40	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	8	210.61	1.04	224.33	1.97	3	37.50%	110.13	0.47	84.70	0.57	5	62.50%	270.90	1.37	308.10	2.80
	HDGT	380	215.04	0.94	163.00	0.94	319	83.95%	133.10	0.74	115.92	0.85	61	16.05%	643.52	1.96	409.18	1.45
1984 Total		392	213.39	0.94	163.20	0.96	326	83.16%	132.02	0.74	114.95	0.84	66	16.84%	615.29	1.92	401.52	1.55
1985	LDGV	13	96.52	0.31	106.76	0.93	10	76.92%	42.81	0.25	42.75	0.37	3	23.08%	275.57	0.50	320.13	2.80
	LDGT	10	108.40	0.65	108.73	0.42	5	50.00%	58.14	0.16	72.72	0.23	5	50.00%	158.66	1.13	144.74	0.60
	HDGT	607	212.69	1.04	168.17	1.04	503	82.87%	144.80	0.70	116.41	0.78	104	17.13%	541.06	2.70	418.53	2.28
1985 Total		630	208.64	1.02	165.96	1.02	518	82.22%	141.99	0.69	114.57	0.77	112	17.78%	516.88	2.57	403.67	2.22
1986	LDGV	8	261.69	1.63	281.14	1.46	6	75.00%	43.23	0.25	40.40	0.41	2	25.00%	917.05	5.75	1003.35	4.61
	LDGT	7	97.33	0.12	110.60	0.49	5	71.43%	50.70	0.16	48.30	0.23	2	28.57%	213.90	0.01	266.35	1.15
	HDGT	427	191.41	1.04	133.50	0.92	338	79.16%	92.71	0.59	77.32	0.60	89	20.84%	566.27	2.78	346.88	2.11
1986 Total		442	191.20	1.04	135.81	0.92	349	78.96%	91.26	0.57	76.27	0.59	93	21.04%	566.24	2.79	359.26	2.15
1987	LDGV	22	119.45	0.40	128.10	0.53	16	72.73%	77.99	0.26	51.04	0.35	6	27.27%	230.00	0.76	333.62	1.02
	LDGT	31	218.84	0.57	201.10	0.87	26	83.87%	113.33	0.19	117.35	0.44	5	16.13%	767.44	2.54	636.58	3.11
	HDGT	525	171.61	0.75	141.11	0.70	405	77.14%	84.20	0.42	78.51	0.50	120	22.86%	466.61	1.87	352.40	1.38
1987 Total		578	172.15	0.73	143.83	0.70	447	77.34%	85.67	0.40	79.78							

Vehicle		All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
	LDGT	73	179.03	0.27	142.12	0.41	65	89.04%	158.87	0.26	116.55	0.40	8	10.96%	342.85	0.37	349.86	0.49
	HDGT	501	135.22	0.65	115.50	0.70	410	81.84%	72.05	0.32	64.85	0.45	91	18.16%	419.80	2.13	343.70	1.81
1988 Total		596	140.66	0.58	120.23	0.65	494	82.89%	84.24	0.30	71.92	0.44	102	17.11%	413.92	1.94	354.22	1.67
1989	LDGV	41	125.12	0.32	140.12	0.66	29	70.73%	54.31	0.12	47.87	0.22	12	29.27%	296.24	0.79	363.07	1.73
	LDGT	102	173.39	0.39	125.09	0.47	54	52.94%	84.20	0.24	84.95	0.37	48	47.06%	273.73	0.55	170.26	0.58
	HDGT	1,121	118.70	0.53	100.79	0.65	978	87.24%	73.48	0.31	64.10	0.45	143	12.76%	427.96	2.05	351.69	2.07
1989 Total		1,264	123.32	0.51	104.02	0.64	1061	83.94%	73.50	0.30	64.72	0.44	203	16.06%	383.70	1.62	309.47	1.70
1990	LDGV	47	99.96	0.40	80.11	0.53	37	78.72%	65.88	0.22	50.91	0.35	10	21.28%	226.09	1.05	188.14	1.21
	LDGT	131	172.96	0.32	139.91	0.44	82	62.60%	110.47	0.22	92.66	0.37	49	37.40%	277.53	0.48	218.98	0.57
	HDGT	704	114.67	0.57	97.05	0.66	614	87.22%	72.46	0.29	60.67	0.45	90	12.78%	402.65	2.47	345.25	2.05
1990 Total		882	122.54	0.53	102.51	0.62	733	83.11%	76.38	0.28	63.76	0.44	149	16.89%	349.66	1.72	293.18	1.50
1991	LDGV	66	62.77	0.14	55.15	0.23	59	89.39%	45.58	0.11	41.94	0.21	7	10.61%	207.63	0.35	166.43	0.46
	LDGT	126	160.65	0.38	108.55	0.50	96	76.19%	105.10	0.21	82.83	0.37	30	23.81%	338.41	0.92	190.86	0.91
	HDGT	882	109.95	0.57	86.41	0.71	774	87.76%	68.58	0.29	54.81	0.48	108	12.24%	406.43	2.61	312.82	2.39
1991 Total		1,074	113.00	0.52	87.08	0.66	929	86.50%	70.89	0.27	56.89	0.45	145	13.50%	382.76	2.15	280.52	1.99
1992	LDGV	92	76.09	0.19	77.29	0.30	81	88.04%	38.43	0.09	46.57	0.14	11	11.96%	353.46	0.93	303.49	1.47
	LDGT	169	113.89	0.32	85.55	0.36	143	84.62%	86.59	0.25	68.76	0.29	26	15.38%	264.04	0.72	177.86	0.76
	HDGT	774	96.74	0.56	82.21	0.71	694	89.66%	65.68	0.30	53.05	0.48	80	10.34%	366.11	2.74	335.17	2.64
1992 Total		1,035	97.70	0.49	82.32	0.62	918	88.70%	66.54	0.28	54.93	0.42	117	11.30%	342.24	2.12	297.23	2.11
1993	LDGV	51	144.03	0.37	136.87	0.41	40	78.43%	49.96	0.13	48.81	0.23	11	21.57%	486.07	1.25	457.08	1.06
	LDGT	53	132.88	0.29	76.38	0.35	42	79.25%	91.65	0.26	59.80	0.31	11	20.75%	290.27	0.44	139.68	0.47
	HDGT	1,264	93.47	0.49	70.09	0.58	1153	91.22%	62.95	0.28	49.97	0.45	111	8.78%	410.49	2.71	279.08	1.93
1993 Total		1,368	96.88	0.48	72.82	0.56	1235	90.28%	63.50	0.27	50.27	0.44	133	9.72%	406.80	2.40	282.27	1.73
1994	LDGV	65	61.85	0.21	75.16	0.30	57	87.69%	37.92	0.09	40.04	0.18	8	12.31%	232.29	1.07	325.38	1.15
	LDGT	144	95.89	0.30	96.30	0.59	128	88.89%	74.71	0.23	75.97	0.45	16	11.11%	265.35	0.87	258.88	1.73
	HDGT	1,266	95.23	0.51	63.26	0.60	1110	87.68%	56.65	0.25	41.86	0.38	156	12.32%	369.68	2.34	215.56	2.15
1994 Total		1,475	93.82	0.47	67.01	0.58	1295	87.80%	57.61	0.24	45.15	0.38	180	12.20%	354.30	2.15	224.29	2.07
1995	LDGV	99	50.35	0.13	51.31	0.18	92	92.93%	31.19	0.08	33.65	0.14	7	7.07%	302.23	0.76	283.36	0.78
	LDGT	51	78.79	0.19	49.18	0.26	47	92.16%	66.48	0.17	48.79	0.24	4	7.84%	223.38	0.50	53.85	0.40
	HDGT	2,177	93.81	0.52	65.51	0.68	1910	87.74%	56.79	0.25	41.59	0.43	267	12.26%	358.69	2.41	236.68	2.46
1995 Total		2,327	91.63	0.49	64.55	0.65	2049	88.05%	55.86	0.24	41.40	0.41	278	11.95%	355.32	2.34	235.22	2.39
1996	LDGV	47	40.52	0.09	24.64	0.10	44	93.62%	13.45	0.04	19.19	0.08	3	6.38%	437.53	0.93	104.60	0.54
	LDGT	44	36.25	0.07	20.99	0.18	42	95.45%	30.91	0.06	20.83	0.17	2	4.55%	148.25	0.29	24.50	0.27
	HDGT	1,478	70.70	0.34	51.37	0.38	1376	93.10%	50.57	0.21	39.77	0.28	102	6.90%	342.29	2.13	207.89	1.70
1996 Total		1,569	68.83	0.33	49.72	0.37	1462	93.18%	48.89	0.20	38.61	0.27	107	6.82%	341.33	2.07	201.57	1.64
1997	LDGV	80	28.62	0.13	33.20	0.13	75	93.75%	20.19	0.04	23.92	0.07	5	6.25%	155.16	1.41	172.46	1.00
	LDGT	94	49.07	0.17	39.33	0.29	88	93.62%	39.59	0.11	31.26	0.18	6	6.38%	188.23	0.96	157.63	1.93
	HDGT	2,457	56.98	0.22	40.44	0.24	2370	96.46%	47.95	0.18	34.67	0.22	87	3.54%	303.03	1.39	197.57	0.95
1997 Total		2,631	55.83	0.22	40.18	0.24	2533	96.28%	46.83	0.17	34.24	0.21	98	3.72%	288.45	1.36	193.85	1.01
1998	LDGV	79	27.07	0.11	35.00	0.21	78	98.73%	23.11	0.03	27.11	0.08	1	1.27%	336.30	6.02	650.60	10.38
	LDGT	119	61.87	0.17	52.93	0.27	115	96.64%	49.12	0.10	34.15	0.19	4	3.36%	428.20	2.05	592.75	2.69
	HDGT	1,272	89.79	0.26	59.21	0.27	1185	93.16%	58.35	0.18	39.20	0.23	87	6.84%	518.04	1.40	331.78	0.93
1998 Total		1,470	84.16	0.25	57.40	0.27	1378	93.74%	55.58	0.17	38.10	0.21	92	6.26%	512.15	1.48	346.59	1.11
1999	LDGV	159	14.73	0.02	17.99	0.07	155	97.48%	12.10	0.02	16.32	0.05	4	2.52%	116.75	0.25	82.78	0.87
	LDGT	1,305	34.54	0.14	24.36	0.11	1225	93.87%	32.59	0.13	22.37	0.10	80	6.13%	64.33	0.39	54.83	0.30
	HDGT	3,446	57.54	0.19	39.06	0.20	3310	96.05%	41.87	0.13	31.04	0.17	136	3.95%	438.81	1.49	234.32	0.96
1999 Total		4,910	50.04	0.17	34.47	0.17	4690	95.52%	38.47	0.13	28.29	0.14	220	4.48%	296.78	1.07	166.29	0.72
2000	LDGV	148	12.87	0.03	16.45	0.08	140	94.59%	10.69	0.03	12.84	0.05	8	5.41%	51.03	0.13	79.50	0.62
	LDGT	1,525	28.76	0.11	24.93	0.09	1425	93.44%	24.46	0.08	20.50	0.08	100	6.56%	90.04	0.42	87.98	0.33
	HDGT	2,429	50.61	0.14	38.07	0.17	2354	96.91%	37.20	0.10	26.44	0.12	75	3.09%	471.53	1.47	402.98	1.58
2000 Total		4,102	41.13	0.12	32.40	0.14	3919	95.54%	31.62	0.09	23.80	0.10	183	4.46%	244.68	0.84	216.71	0.86
2001	LDGV	277	20.82	0.07	18.29	0.10	266	96.03%	12.00	0.03	12.91	0.05	11	3.97%	234.22	1.12	148.25	1.36
	LDGT	2,941	19.03	0.08	16.05	0.05	2807	95.44%	17.86	0.06	14.87	0.05	134	4.56%	43.73	0.44	40.80	0.25
	HDGT	3,560	35.43	0.10	25.02	0.11	3519	98.85%	32.49	0.09	22.43	0.10	41	1.15%	287.69	0.95	247.97	1.17
2001 Total		6,778	27.72	0.09	20.86	0.09	6592	97.26%	25.43	0.08	18.83	0.07	186	2.74%	108.77	0.59	92.82	0.52
2002	LDGV	217	10.69	0.04	10.17	0.07	211	97.24%	7.64	0.01	8.46	0.03	6	2.76%	118.03	0.96	70.07	1.4

Vehicle		All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
Year	Type	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
2002 Total		3,918	30.93	0.12	23.03	0.12	3778	96.43%	27.82	0.09	20.77	0.10	140	3.57%	115.05	0.79	84.00	0.69
2003	LDGV	387	9.43	0.03	10.05	0.07	380	98.19%	8.27	0.02	8.57	0.03	7	1.81%	72.34	0.58	90.60	1.82
	LDGT	2,542	18.86	0.10	14.30	0.07	2403	94.53%	16.13	0.07	12.60	0.05	139	5.47%	66.06	0.67	43.70	0.33
	HDGT	3,119	25.74	0.08	17.68	0.10	3091	99.10%	23.58	0.07	16.43	0.09	28	0.90%	264.73	1.25	155.54	1.33
2003 Total		6,048	21.81	0.09	15.77	0.09	5874	97.12%	19.54	0.07	14.35	0.07	174	2.88%	98.28	0.76	63.58	0.55
2004	LDGV	294	8.77	0.03	9.95	0.06	288	97.96%	7.17	0.02	8.20	0.04	6	2.04%	85.58	0.54	93.93	1.25
	LDGT	1,502	12.86	0.07	12.50	0.05	1431	95.27%	11.29	0.05	11.87	0.04	71	4.73%	44.53	0.37	25.22	0.20
	HDGT	1,566	19.23	0.06	14.06	0.09	1552	99.11%	18.02	0.05	12.89	0.07	14	0.89%	153.44	1.57	143.16	1.67
2004 Total		3,362	15.47	0.06	13.00	0.07	3271	97.29%	14.12	0.05	12.03	0.06	91	2.71%	63.99	0.56	47.89	0.50
2005	LDGV	395	10.61	0.05	12.84	0.08	387	97.97%	8.14	0.03	9.65	0.05	8	2.03%	129.86	1.24	167.00	1.54
	LDGT	2,200	11.38	0.04	12.05	0.04	2129	96.77%	10.66	0.03	11.21	0.03	71	3.23%	32.80	0.22	37.45	0.32
	HDGT	2,557	16.11	0.04	12.43	0.05	2544	99.49%	15.18	0.04	11.73	0.05	13	0.51%	197.51	0.26	148.92	0.29
2005 Total		5,152	13.67	0.04	12.30	0.05	5060	98.21%	12.74	0.04	11.35	0.04	92	1.79%	64.52	0.32	64.46	0.42
2006	LDGV	419	8.89	0.05	12.17	0.10	414	98.81%	7.98	0.02	10.08	0.04	5	1.19%	84.20	2.04	185.50	4.60
	LDGT	1,155	6.09	0.02	7.81	0.04	1115	96.54%	6.10	0.02	7.66	0.04	40	3.46%	5.82	0.02	11.78	0.09
	HDGT	1,811	15.16	0.04	11.28	0.05	1806	99.72%	14.40	0.04	10.85	0.05	5	0.28%	291.24	1.04	167.60	0.86
2006 Total		3,385	11.29	0.04	10.20	0.05	3335	98.52%	10.83	0.03	9.69	0.04	50	1.48%	42.20	0.32	44.73	0.62
2007	LDGV	541	5.69	0.01	9.94	0.03	537	99.26%	5.60	0.01	7.42	0.02	4	0.74%	17.72	0.04	347.85	0.28
	LDGT	2,475	3.68	0.01	6.33	0.02	2428	98.10%	3.57	0.01	6.26	0.02	47	1.90%	9.17	0.09	9.97	0.13
	HDGT	2,249	8.52	0.02	7.32	0.03	2244	99.78%	7.98	0.02	7.23	0.03	5	0.22%	249.86	0.31	46.74	0.33
2007 Total		5,265	5.95	0.02	7.12	0.03	5209	98.94%	5.68	0.01	6.80	0.02	56	1.06%	31.27	0.11	37.39	0.16
2008	LDGV	387	3.95	0.01	6.33	0.02	384	99.22%	3.20	0.01	5.51	0.01	3	0.78%	99.63	0.44	112.13	1.40
	LDGT	477	4.03	0.02	5.89	0.03	471	98.74%	3.98	0.02	5.89	0.03	6	1.26%	8.62	0.03	6.07	0.05
	HDGT	462	7.03	0.02	7.77	0.05	461	99.78%	6.08	0.02	6.61	0.05	1	0.22%	445.00	0.09	541.00	0.47
2008 Total		1,326	5.06	0.02	6.67	0.03	1316	99.25%	4.49	0.02	6.03	0.03	10	0.75%	79.56	0.16	91.38	0.50
2009	LDGV	114	2.27	0.01	3.52	0.01	113	99.12%	1.48	0.01	2.75	0.01	1	0.88%	91.20	0.41	90.70	0.46
	LDGT	144	21.93	0.04	23.81	0.05	140	97.22%	1.72	0.01	3.59	0.02	4	2.78%	729.03	1.24	731.40	1.26
	HDGT	184	26.64	0.03	25.81	0.08	183	99.46%	25.89	0.03	25.51	0.07	1	0.54%	163.00	0.08	80.00	0.76
2009 Total		442	18.82	0.03	19.41	0.05	436	98.64%	11.81	0.02	12.57	0.04	6	1.36%	528.38	0.91	516.05	1.04
2010	LDGV	67	3.33	0.02	4.83	0.02	67	100.00%	3.33	0.02	4.83	0.02	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	96	3.18	0.01	4.41	0.02	94	97.92%	3.23	0.01	4.48	0.02	2	2.08%	0.80	0.01	1.10	0.00
	HDGT	239	39.94	0.01	38.77	0.03	238	99.58%	38.30	0.01	38.67	0.03	1	0.42%	431.00	0.00	62.00	0.00
2010 Total		402	25.06	0.01	24.91	0.02	399	99.25%	24.16	0.01	24.93	0.03	3	0.75%	144.20	0.00	21.40	0.00
2011	LDGV	5	0.80	0.00	1.14	0.00	5	100.00%	0.80	0.00	1.14	0.00	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	15	1.33	0.01	4.61	0.01	15	100.00%	1.33	0.01	4.61	0.01	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	51	8.33	0.01	6.42	0.07	51	100.00%	8.33	0.01	6.42	0.07	0	0.00%	0.00	0.00	0.00	0.00
2011 Total		71	6.32	0.01	5.67	0.06	71	100.00%	6.32	0.01	5.67	0.06	0	0.00%	0.00	0.00	0.00	0.00
2012	LDGV	1	2.70	0.01	6.80	0.01	1	100.00%	2.70	0.01	6.80	0.01	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	1	2.90	0.00	2.40	0.00	1	100.00%	2.90	0.00	2.40	0.00	0	0.00%	0.00	0.00	0.00	0.00
2012 Total		2	2.80	0.01	4.60	0.01	2	100.00%	2.80	0.01	4.60	0.01	0	0.00%	0.00	0.00	0.00	0.00
Grand Total		79,818	104.01	0.52	87.58	0.62	71533	89.62%	60.69	0.28	54.52	0.41	8,285	10.38%	478.09	2.60	372.93	2.44

Records 1 - 116 (All Records)

Summary by Vehicle (V1.01)

Vehicle Type	All Initial Inspections					Passing Initial Inspections						Failing Initial Inspections					
	Total	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm
LDGV	10236	187.01	1.01	168.45	1.33	7938	77.55%	90.47	0.38	90.20	0.76	2298	22.45%	520.52	3.22	438.75	3.28
LDGT	23941	75.44	0.36	65.94	0.45	20981	87.64%	36.21	0.14	35.46	0.24	2960	12.36%	353.49	1.93	282.03	1.91
HDGT	45641	100.39	0.49	80.78	0.55	42614	93.37%	67.19	0.33	57.27	0.42	3027	6.63%	567.71	2.78	411.85	2.33
Grand Total	79818	104.01	0.52	87.58	0.62	71533	89.62%	60.69	0.28	54.52	0.41	8285	10.38%	478.09	2.60	372.93	2.44

A-12

Valid Initial Idle Failure Report Inspections
Enhanced Area

Idle Initial Failure Report (V1.02)

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
1974	LDGV	8	0.35%	1586.53	5.72	1466.33	4.97	765	33.92%	796.37	5.01	638.60	4.50	6	0.27%	275.98	1.70	679.15	3.76
	LDGT	8	0.63%	1193.19	4.92	1310.53	7.00	387	30.62%	748.59	4.78	540.03	3.84	2	0.16%	554.35	0.31	524.75	1.16
	HDGT	4	0.33%	1679.45	4.78	2137.50	6.19	156	12.73%	1141.45	4.89	944.22	3.73	9	0.73%	239.93	1.42	180.71	2.90
1974 Total		20	0.42%	1447.78	5.21	1538.24	6.03	1,308	27.57%	823.39	4.93	645.89	4.21	17	0.36%	289.65	1.39	397.11	3.00
1975	LDGV	5	3.97%	666.90	4.01	524.66	3.69	20	15.87%	490.51	4.39	277.51	3.22	3	2.38%	274.97	0.67	92.70	1.66
	LDGT	3	4.23%	242.00	4.29	129.50	2.02	25	35.21%	610.49	3.31	416.24	2.85	6	8.45%	306.73	0.87	218.18	2.45
	HDGT	1	0.33%	789.50	8.75	197.10	4.90	45	14.90%	1122.62	4.73	704.97	4.31	5	1.66%	369.52	1.96	541.52	1.88
1975 Total		9	1.80%	538.89	4.63	356.54	3.27	90	18.04%	839.89	4.26	529.78	3.66	14	2.81%	322.35	1.22	306.77	2.08
1976	LDGV	13	2.99%	727.70	5.12	546.19	3.76	108	24.83%	577.03	4.30	446.59	3.58	23	5.29%	193.05	0.73	185.57	1.66
	LDGT	15	6.70%	868.17	3.46	761.13	2.67	62	27.68%	494.33	3.31	429.76	3.35	17	7.59%	218.85	0.83	172.74	1.81
	HDGT	10	1.14%	1327.39	6.02	1023.42	6.46	105	12.01%	1006.59	5.50	663.40	4.18	15	1.72%	210.28	1.56	251.03	1.84
1976 Total		38	2.48%	940.96	4.70	756.62	4.04	275	17.94%	722.40	4.54	525.58	3.76	55	3.59%	205.72	0.99	199.46	1.76
1977	LDGV	23	4.39%	603.03	2.43	578.15	2.39	143	27.29%	439.14	3.00	369.09	2.99	23	4.39%	198.19	0.44	143.62	1.47
	LDGT	9	4.95%	493.62	3.63	369.54	2.47	66	36.26%	569.81	3.22	416.60	2.91	5	2.75%	142.98	0.58	206.56	2.68
	HDGT	10	0.81%	1467.82	5.40	1260.65	4.84	131	10.62%	1010.50	5.33	799.25	4.00	39	3.16%	358.55	1.57	364.28	2.04
1977 Total		42	2.16%	785.49	3.39	695.95	2.99	340	17.53%	684.65	3.94	544.05	3.37	67	3.45%	287.41	1.11	276.76	1.89
1978	LDGV	30	4.21%	767.80	3.99	620.39	3.67	216	30.34%	481.45	3.27	391.35	3.22	18	2.53%	156.43	0.55	201.11	2.53
	LDGT	17	5.78%	485.20	2.16	416.15	1.80	85	28.91%	477.05	3.16	412.16	3.12	9	3.06%	244.23	0.46	170.06	0.78
	HDGT	10	0.75%	1315.38	3.60	1205.22	2.94	137	10.27%	1058.65	4.81	709.12	3.55	39	2.92%	347.19	1.72	298.51	2.32
1978 Total		57	2.44%	779.58	3.38	662.08	2.99	438	18.72%	661.13	3.73	494.78	3.30	66	2.82%	281.12	1.23	254.43	2.17
1979	LDGV	27	3.25%	547.38	2.80	431.14	3.13	199	23.98%	438.92	2.72	360.19	2.97	12	1.45%	119.18	0.14	115.18	1.65
	LDGT	92	7.93%	616.42	3.25	467.76	2.93	304	26.21%	524.79	3.05	392.69	2.98	44	3.79%	139.37	0.48	170.28	1.79
	HDGT	5	1.32%	587.82	5.22	336.80	2.97	57	15.04%	1013.21	4.02	743.48	2.63	20	5.28%	248.98	0.98	142.82	1.43
1979 Total		124	5.23%	600.23	3.23	454.51	2.98	560	23.64%	543.99	3.03	416.84	2.94	76	3.21%	165.03	0.56	154.36	1.67
1980	LDGV	22	3.62%	667.32	3.33	508.91	3.81	81	13.34%	444.37	3.11	413.75	3.29	26	4.28%	124.23	0.30	126.84	1.40
	LDGT	33	5.43%	685.54	3.44	590.03	3.73	139	22.86%	555.22	2.31	426.14	2.50	21	3.45%	161.91	0.50	234.42	2.52
	HDGT	3	1.69%	581.20	3.42	270.90	2.26	26	14.69%	736.77	3.59	426.48	2.97	7	3.95%	304.44	0.93	242.40	1.56
1980 Total		58	4.17%	673.23	3.40	542.76	3.68	246	17.67%	537.91	2.71	422.09	2.81	54	3.88%	162.25	0.46	183.66	1.86
1981	LDGV	29	4.92%	430.46	3.41	443.39	3.94	176	29.83%	275.57	1.39	319.43	2.96	8	1.36%	79.91	0.30	71.06	0.44
	LDGT	55	7.83%	483.53	2.41	482.47	2.94	278	39.60%	335.47	1.67	301.41	2.09	11	1.57%	110.85	0.28	82.21	0.51
	HDGT	12	3.74%	563.50	4.31	391.78	2.51	40	12.46%	681.75	3.26	405.86	2.71	14	4.36%	162.49	1.18	215.26	1.88
1981 Total		96	5.95%	477.50	2.95	459.33	3.19	494	30.63%	342.17	1.70	316.29	2.45	33	2.05%	125.25	0.67	135.95	1.07
1982	LDGV	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	1	20.00%	815.90	2.05	901.20	1.57	3	60.00%	143.73	0.61	156.83	3.41	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	8	4.60%	816.88	5.29	333.78	3.83	14	8.05%	600.20	4.02	412.36	2.63	4	2.30%	216.30	1.23	161.13	2.22
1982 Total		9	4.97%	816.77	4.93	396.82	3.58	17	9.39%	519.65	3.42	367.27	2.77	4	2.21%	216.30	1.23	161.13	2.22
1983	LDGV	1	12.50%	710.00	7.16	516.80	7.11	4	50.00%	287.25	3.15	292.73	3.39	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	1	14.29%	1144.50	5.75	1906.70	0.21	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	12	4.05%	856.00	3.94	844.82	4.04	30	10.14%	742.57	3.25	464.43	2.22	14	4.73%	202.05	1.13	193.93	1.91
1983 Total		13	4.18%	844.77	4.18	819.58	4.28	35	11.25%	702.02	3.31	486.01	2.30	14	4.50%	202.05	1.13	193.93	1.91
1984	LDGV	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	1	12.50%	42.90	0.01	105.50	2.41	4	50.00%	327.90	1.72	358.75	2.90	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	8	2.11%	849.68	3.09	735.28	3.03	39	10.26%	762.44	2.09	446.07	1.37	14	3.68%	194.44	0.95	120.06	0.76
1984 Total		9	2.30%	760.03	2.75	665.30	2.96	43	10.97%	722.02	2.06	437.95	1.51	14	3.57%	194.44	0.95	120.06	0.76
1985	LDGV	0	0.00%	0.00	0.00	0.00	0.00	2	15.38%	340.60	0.66	419.70	4.09	1	7.69%	145.50	0.18	121.00	0.22
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	3	30.00%	237.83	1.88	213.90	0.87	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	15	2.47%	690.65	4.06	401.48	2.60	52	8.57%	736.48	3.47	601.41	2.57	37	6.10%	205.78	1.07	168.41	1.74
1985 Total		15	2.38%	690.65	4.06	401.48	2.60	57	9.05%	696.35	3.28	574.64	2.53	38	6.03%	204.19	1.05	167.16	1.70
1986	LDGV	1	12.50%	454.60	1.05	1091.80	1.94	1	12.50%	1379.50	10.45	914.90	7.28	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	2	28.57%	213.90	0.01	266.35	1.15	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	18	4.22%	702.72	4.08	429.73	2.53	65	15.22%	568.66	2.59	347.00	2.10	6	1.41%	131.08	0.96	96.97	1.08
1986 Total		19	4.30%	689.66	3.92	464.58	2.50	68	15.38%	570.15	2.63	352.98	2.14	6	1.36%	131.08	0.96	96.97	1.08
1987	LDGV	0	0.00%	0.00	0.00	0.00	0.00	6	27.27%	230.00	0.76	333.62	1.02	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	5	16.13%	767.44	2.54	636.58	3.11	0	0.00%	0.00	0.00	0.00	0

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	7	9.59%	388.11	0.42	394.27	0.54	1	1.37%	26.00	0.00	39.00	0.17
	HDGT	8	1.60%	705.08	2.73	586.06	2.67	64	12.77%	479.05	2.58	387.88	2.05	19	3.79%	100.11	0.36	92.84	0.65
1988 Total		8	1.34%	705.08	2.73	586.06	2.67	74	12.42%	468.25	2.28	400.52	1.85	20	3.36%	96.41	0.35	90.15	0.62
1989	LDGV	0	0.00%	0.00	0.00	0.00	0.00	12	29.27%	296.24	0.79	363.07	1.73	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	48	47.06%	273.73	0.55	170.26	0.58	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	8	0.71%	659.81	2.24	560.28	1.92	109	9.72%	483.52	2.43	380.12	2.25	26	2.32%	123.66	0.39	168.35	1.34
1989 Total		8	0.63%	659.81	2.24	560.28	1.92	169	13.37%	410.64	1.78	319.30	1.74	26	2.06%	123.66	0.39	168.35	1.34
1990	LDGV	2	4.26%	312.85	0.84	224.95	0.79	7	14.89%	226.13	1.23	199.20	1.46	1	2.13%	52.30	0.16	37.10	0.26
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	49	37.40%	277.53	0.48	218.98	0.57	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	2	0.28%	387.60	2.93	809.60	4.02	75	10.65%	456.18	2.82	372.15	2.17	13	1.85%	96.17	0.38	118.63	1.02
1990 Total		4	0.45%	350.23	1.88	517.28	2.40	131	14.85%	377.06	1.86	305.62	1.53	14	1.59%	93.04	0.36	112.81	0.96
1991	LDGV	0	0.00%	0.00	0.00	0.00	0.00	4	6.06%	312.20	0.40	245.68	0.56	1	1.52%	135.00	0.81	148.70	0.93
	LDGT	1	0.79%	271.00	0.59	109.00	0.80	28	22.22%	351.44	0.95	195.64	0.93	1	0.79%	41.00	0.33	139.00	0.39
	HDGT	4	0.45%	353.73	2.73	168.58	1.97	93	10.54%	446.63	2.87	351.74	2.66	11	1.25%	85.70	0.37	36.28	0.23
1991 Total		5	0.47%	337.18	2.30	156.66	1.73	125	11.64%	421.00	2.36	313.38	2.20	13	1.21%	86.05	0.40	52.83	0.29
1992	LDGV	0	0.00%	0.00	0.00	0.00	0.00	9	9.78%	406.08	1.08	339.18	1.70	2	2.17%	116.70	0.25	142.90	0.45
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	25	14.79%	270.64	0.74	182.09	0.77	1	0.59%	99.00	0.17	72.00	0.39
	HDGT	1	0.13%	395.30	5.81	209.70	3.61	65	8.40%	423.90	3.18	395.45	3.10	14	1.81%	95.69	0.49	64.26	0.46
1992 Total		1	0.10%	395.30	5.81	209.70	3.61	99	9.57%	383.58	2.37	336.46	2.38	17	1.64%	98.35	0.44	73.97	0.45
1993	LDGV	1	1.96%	3174.00	5.21	3180.00	5.19	10	19.61%	217.28	0.86	184.79	0.64	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	10	18.87%	318.50	0.48	151.60	0.50	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	2	0.16%	326.75	3.33	477.85	4.37	90	7.12%	476.85	3.16	320.40	2.16	19	1.50%	104.95	0.52	62.41	0.55
1993 Total		3	0.22%	1275.83	3.96	1378.57	4.64	110	8.04%	438.86	2.70	292.73	1.87	19	1.39%	104.95	0.52	62.41	0.55
1994	LDGV	0	0.00%	0.00	0.00	0.00	0.00	8	12.31%	232.29	1.07	325.38	1.15	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	13	9.03%	304.00	0.98	288.05	2.01	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	2	0.16%	298.80	2.31	109.45	2.10	128	10.11%	427.22	2.72	242.22	2.47	26	2.05%	91.85	0.48	92.47	0.62
1994 Total		2	0.14%	298.80	2.31	109.45	2.10	149	10.10%	406.01	2.48	250.68	2.36	26	1.76%	91.85	0.48	92.47	0.62
1995	LDGV	0	0.00%	0.00	0.00	0.00	0.00	5	5.05%	364.70	0.88	335.30	0.88	2	2.02%	146.05	0.45	153.50	0.53
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	3	5.88%	294.63	0.66	69.10	0.52	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	9	0.41%	504.57	3.16	306.82	2.41	212	9.74%	413.85	2.79	267.93	2.87	46	2.11%	75.93	0.51	78.95	0.56
1995 Total		9	0.39%	504.57	3.16	306.82	2.41	220	9.45%	411.11	2.72	266.75	2.79	48	2.06%	78.86	0.51	82.06	0.56
1996	LDGV	0	0.00%	0.00	0.00	0.00	0.00	1	2.13%	1259.00	2.60	223.00	1.19	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	1	2.27%	281.00	0.57	30.00	0.51	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	7	0.47%	449.13	2.28	629.30	2.56	69	4.67%	427.39	2.77	218.48	2.01	26	1.76%	87.67	0.42	66.33	0.64
1996 Total		7	0.45%	449.13	2.28	629.30	2.56	71	4.53%	437.04	2.73	215.89	1.98	26	1.66%	87.67	0.42	66.33	0.64
1997	LDGV	1	1.25%	359.20	5.03	241.00	1.34	3	3.75%	103.33	0.60	168.77	1.08	1	1.25%	106.60	0.22	115.00	0.44
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	4	4.26%	255.93	1.41	218.25	2.88	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	4	0.16%	678.65	1.08	487.68	0.52	55	2.24%	402.19	1.95	245.62	1.29	28	1.14%	54.58	0.34	61.74	0.33
1997 Total		5	0.19%	614.76	1.87	438.34	0.68	62	2.36%	378.29	1.85	240.14	1.38	29	1.10%	56.38	0.33	63.58	0.33
1998	LDGV	0	0.00%	0.00	0.00	0.00	0.00	1	1.27%	336.30	6.02	650.60	10.38	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	4	3.36%	428.20	2.05	592.75	2.69	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	3	0.24%	1027.93	4.25	1256.97	4.85	74	5.82%	562.02	1.45	333.87	0.87	10	0.79%	39.55	0.18	38.73	0.18
1998 Total		3	0.20%	1027.93	4.25	1256.97	4.85	79	5.37%	552.39	1.54	350.99	1.09	10	0.68%	39.55	0.18	38.73	0.18
1999	LDGV	0	0.00%	0.00	0.00	0.00	0.00	2	1.26%	219.75	0.50	150.00	1.69	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	1	0.08%	423.00	0.96	374.20	0.90	20	1.53%	134.37	1.10	133.11	0.86	4	0.31%	73.38	0.49	48.93	0.21
	HDGT	2	0.06%	577.75	0.77	455.75	1.96	117	3.40%	485.00	1.67	245.36	1.01	17	0.49%	104.56	0.32	132.26	0.52
1999 Total		3	0.06%	526.17	0.83	428.57	1.60	139	2.83%	430.74	1.57	227.84	1.00	21	0.43%	98.62	0.35	116.39	0.46
2000	LDGV	0	0.00%	0.00	0.00	0.00	0.00	3	2.03%	59.50	0.12	114.60	1.35	1	0.68%	175.00	0.57	185.00	0.52
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	25	1.64%	267.58	1.39	276.25	1.10	4	0.26%	36.08	0.07	25.38	0.05
	HDGT	2	0.08%	859.45	0.92	462.90	0.89	57	2.35%	572.06	1.83	500.36	1.98	15	0.62%	63.99	0.27	47.67	0.23
2000 Total		2	0.05%	859.45	0.92	462.90	0.89	85	2.07%	464.41	1.64	420.83	1.70	20	0.49%	63.96	0.24	50.08	0.21
2001	LDGV	0	0.00%	0.00	0.00	0.00	0.00	7	2.53%	359.46	1.76	222.03	2.13	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	37	1.26%	113.32	1.39	114.62	0.80	3	0.10%	13.57	0.10	10.77	0.05
	HDGT	1	0.03%	388.10	0.56	387.60	0.49	18	0.51%	556.03	1.83	493.11	2.37	22	0.62%	63.57	0.24	41.06	0.21
2001 Total		1	0.01%	388.10	0.56	387.60	0.49	62	0.91%	269.64	1.56								

Vehicle		Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
Year	Type	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
2002 Total		0	0.00%	0.00	0.00	0.00	0.00	66	1.68%	212.01	1.55	154.76	1.34	15	0.38%	58.95	0.16	36.38	0.18
2003	LDGV	0	0.00%	0.00	0.00	0.00	0.00	4	1.03%	113.05	1.00	146.80	3.16	1	0.26%	51.00	0.01	37.00	0.03
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	45	1.77%	151.70	1.79	97.15	0.83	3	0.12%	41.77	0.61	36.60	0.31
	HDGT	1	0.03%	647.60	3.87	428.70	7.88	19	0.61%	326.64	1.51	186.54	1.40	8	0.26%	69.84	0.28	47.76	0.35
2003 Total		1	0.02%	647.60	3.87	428.70	7.88	68	1.12%	198.31	1.67	125.05	1.13	12	0.20%	61.25	0.34	44.07	0.31
2004	LDGV	0	0.00%	0.00	0.00	0.00	0.00	3	1.02%	92.53	0.87	128.53	1.90	2	0.68%	117.00	0.30	86.85	0.84
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	17	1.13%	129.90	1.26	58.19	0.70	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	4	0.26%	459.70	5.28	371.83	5.47	10	0.64%	30.94	0.08	51.70	0.15
2004 Total		0	0.00%	0.00	0.00	0.00	0.00	24	0.71%	180.20	1.88	119.26	1.64	12	0.36%	45.28	0.12	57.56	0.26
2005	LDGV	1	0.25%	349.30	0.87	380.10	0.64	5	1.27%	133.60	1.79	183.48	2.32	1	0.25%	17.90	0.04	32.40	0.10
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	7	0.32%	233.53	1.93	277.79	2.81	2	0.09%	5.55	0.01	9.60	0.03
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	3	0.12%	738.77	0.84	568.73	0.82	10	0.39%	35.13	0.09	22.97	0.13
2005 Total		1	0.02%	349.30	0.87	380.10	0.64	15	0.29%	301.27	1.67	304.54	2.25	13	0.25%	29.25	0.07	21.64	0.11
2006	LDGV	0	0.00%	0.00	0.00	0.00	0.00	4	0.95%	104.98	2.55	231.75	5.76	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	2	0.17%	9.90	0.02	82.70	1.39	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	3	0.17%	480.93	1.72	277.37	1.43	2	0.11%	6.70	0.02	2.95	0.01
2006 Total		0	0.00%	0.00	0.00	0.00	0.00	9	0.27%	209.17	1.71	213.83	3.34	2	0.06%	6.70	0.02	2.95	0.01
2007	LDGV	0	0.00%	0.00	0.00	0.00	0.00	1	0.18%	64.00	0.15	1382.00	1.12	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	3	0.12%	90.13	1.23	77.97	1.70	2	0.08%	3.05	0.00	4.65	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	1	0.04%	1211.30	1.52	180.70	1.60	4	0.18%	9.50	0.01	13.25	0.01
2007 Total		0	0.00%	0.00	0.00	0.00	0.00	5	0.09%	309.14	1.07	359.32	1.56	6	0.11%	7.35	0.01	10.38	0.01
2008	LDGV	0	0.00%	0.00	0.00	0.00	0.00	2	0.52%	144.35	0.66	161.60	2.11	1	0.26%	10.20	0.00	13.20	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	1	0.22%	445.00	0.09	541.00	0.47	0	0.00%	0.00	0.00	0.00	0.00
2008 Total		0	0.00%	0.00	0.00	0.00	0.00	3	0.23%	244.57	0.47	288.07	1.56	1	0.08%	10.20	0.00	13.20	0.00
2009	LDGV	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	1	0.88%	91.20	0.41	90.70	0.46
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	1	0.69%	2910.00	4.93	2910.00	4.94	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
2009 Total		0	0.00%	0.00	0.00	0.00	0.00	1	0.23%	2910.00	4.93	2910.00	4.94	1	0.23%	91.20	0.41	90.70	0.46
2010	LDGV	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	1	0.42%	431.00	0.00	62.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
2010 Total		0	0.00%	0.00	0.00	0.00	0.00	1	0.25%	431.00	0.00	62.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
2011	LDGV	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	LDGT	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
2011 Total		0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
2012	LDGV	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
	HDGT	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
2012 Total		0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00	0	0.00%	0.00	0.00	0.00	0.00
Grand Total		579	0.73%	686.79	3.41	578.01	3.21	5,844	7.32%	577.98	3.22	439.78	2.90	852	1.07%	152.71	0.66	146.73	1.20

Records 1 - 116 (All Records)

Summary by Vehicle Type (V1.02)

Vehicle Type	Failure For Both Exhaust And Visual						Failure For Exhaust Only						Failure For Visual Only					
	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg CO 2500 rpm	Total	Total%	Avg HC Idle	Avg CO Idle	Avg HC 2500 rpm	Avg HC 2500 rpm
LDGV	164	1.60%	670.78	3.52	578.77	3.49	1,818	17.76%	577.31	3.68	479.83	3.63	135	1.32%	157.18	0.49	166.06	1.57
LDGT	236	0.99%	607.91	3.06	522.12	3.03	1,758	7.34%	478.83	2.72	368.80	2.54	139	0.58%	152.58	0.48	157.92	1.50
HDGT	179	0.39%	805.47	3.76	650.98	3.19	2,268	4.97%	655.36	3.23	462.68	2.59	578	1.27%	151.69	0.74	139.52	1.04
Grand Total	579	0.73%	686.79	3.41	578.01	3.21	5,844	7.32%	577.98	3.22	439.78	2.90	852	1.07%	152.71	0.66	146.73	1.20

A-13

I/M Eligible Vehicle Report
Evaluated Vehicles

Colorado

I/M Eligible Vehicle Report, Evaluated Vehicles

Monday, 12-March-2012

Report Start: **Jan, 2011** Report Period: **Year**

County: **All Counties**

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1982															
	P	31	0	16	0	0	15	Clean:	2	13.33%	0.0800	8.9750	285.9500	0.05	
			0.00%	51.61%	0.00%	0.00%	48.39%	Not Clean:	13	86.67%	1.7142	182.9500	1,399.4692	0.56	48.39%
	T	63	0	30	2	0	31	Clean:	1	3.23%	0.1450	30.0500	822.6500	0.95	
			0.00%	47.62%	3.17%	0.00%	49.21%	Not Clean:	30	96.77%	2.1398	272.9900	1,648.7283	0.82	49.21%
	U	653	653	0	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			100.00%	0.00%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1982		747	653	46	2	0	46	Clean:	3	6.52%	0.1017	16.0000	464.8500	0.35	
			87.42%	6.16%	0.27%	0.00%	6.16%	Not Clean:	43	93.48%	2.0112	245.7686	1,573.3709	0.74	6.16%
1983															
	P	147	0	79	0	2	66	Clean:	12	17.65%	0.1704	41.8958	501.9125	0.80	
			0.00%	53.74%	0.00%	1.36%	44.90%	Not Clean:	56	82.35%	1.9436	426.2268	1,208.7920	0.65	46.26%
	T	145	0	83	0	0	62	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			0.00%	57.24%	0.00%	0.00%	42.76%	Not Clean:	62	100.00%	2.3217	475.2032	1,727.0774	0.58	42.76%
	U	1,731	1,724	4	0	0	3	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.60%	0.23%	0.00%	0.00%	0.17%	Not Clean:	3	100.00%	0.6883	117.6333	1,573.8499	0.58	0.17%
Total For 1983		2,023	1,724	166	0	2	131	Clean:	12	9.02%	0.1704	41.8958	501.9125	0.80	
			85.22%	8.21%	0.00%	0.10%	6.48%	Not Clean:	121	90.98%	2.1062	443.6711	1,483.4107	0.61	6.57%
1984															
	P	154	0	69	0	3	82	Clean:	13	15.29%	0.0608	14.5808	374.6346	0.03	
			0.00%	44.81%	0.00%	1.95%	53.25%	Not Clean:	72	84.71%	0.9167	229.3931	1,295.6146	0.40	55.19%
	T	148	0	78	1	0	69	Clean:	2	2.90%	0.2350	10.7500	574.9500	-0.33	
			0.00%	52.70%	0.68%	0.00%	46.62%	Not Clean:	67	97.10%	2.1972	612.8911	1,736.5478	0.78	46.62%
	U	1,516	1,505	8	0	0	3	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.27%	0.53%	0.00%	0.00%	0.20%	Not Clean:	3	100.00%	0.0950	490.1833	1,878.8499	0.82	0.20%
Total For 1984		1,818	1,505	155	1	3	154	Clean:	15	9.55%	0.0840	14.0700	401.3433	-0.01	
			82.78%	8.53%	0.06%	0.17%	8.47%	Not Clean:	142	90.45%	1.5035	415.8490	1,515.9824	0.59	8.64%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria						Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1985															
P	375	0	175	1	5	194	Clean:	35	17.59%	0.0909	24.8514	364.3686	0.41		
			0.00%	46.67%	0.27%	1.33%	51.73%	Not Clean:	164	82.41%	1.1484	256.0564	1,226.3180	0.74	53.07%
T	429	0	239	4	0	186	Clean:	9	4.84%	0.1317	37.1778	407.3056	0.79		
			0.00%	55.71%	0.93%	0.00%	43.36%	Not Clean:	177	95.16%	2.4831	318.7068	1,412.5718	0.70	43.36%
U	3,969	3,958	6	0	0	5	Clean:	1	20.00%	0.3500	67.8500	455.2500	1.05		
			99.72%	0.15%	0.00%	0.00%	0.13%	Not Clean:	4	80.00%	0.2588	152.4375	2,103.9750	0.70	0.13%
Total For 1985	4,773	3,958	420	5	5	385	Clean:	45	11.54%	0.1048	28.2722	374.9756	0.50		
			82.92%	8.80%	0.10%	0.10%	8.07%	Not Clean:	345	88.46%	1.8228	286.9974	1,332.0500	0.72	8.17%
1986															
P	388	0	180	1	3	204	Clean:	35	16.91%	0.1043	27.4357	320.0086	0.41		
			0.00%	46.39%	0.26%	0.77%	52.58%	Not Clean:	172	83.09%	1.0830	202.6462	1,323.4654	0.73	53.35%
T	339	0	178	1	2	158	Clean:	12	7.50%	0.1029	19.5167	375.1542	0.36		
			0.00%	52.51%	0.29%	0.59%	46.61%	Not Clean:	148	92.50%	1.5557	247.3804	1,564.0601	0.75	47.20%
U	2,476	2,474	0	0	0	2	Clean:	1	50.00%	0.0400	52.4500	479.9500	0.30		
			99.92%	0.00%	0.00%	0.00%	0.08%	Not Clean:	1	50.00%	0.5200	302.2000	2,350.8999	-0.30	0.08%
Total For 1986	3,203	2,474	358	2	5	364	Clean:	48	13.01%	0.1026	25.9771	337.1271	0.39		
			77.24%	11.18%	0.06%	0.16%	11.36%	Not Clean:	321	86.99%	1.2992	223.5815	1,437.5945	0.74	11.52%
1987															
P	805	0	415	0	4	386	Clean:	90	23.08%	0.1153	33.5428	318.9056	0.65		
			0.00%	51.55%	0.00%	0.50%	47.95%	Not Clean:	300	76.92%	0.9034	159.9690	1,283.7468	0.90	48.45%
T	692	0	367	1	7	317	Clean:	38	11.73%	0.1129	31.6947	386.0197	0.63		
			0.00%	53.03%	0.14%	1.01%	45.81%	Not Clean:	286	88.27%	1.5684	308.6198	1,311.2899	0.74	46.82%
U	5,475	5,472	2	0	0	1	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00		
			99.95%	0.04%	0.00%	0.00%	0.02%	Not Clean:	1	100.00%	0.3600	144.2500	804.2500	1.50	0.02%
Total For 1987	6,972	5,472	784	1	11	704	Clean:	128	17.90%	0.1146	32.9941	338.8301	0.65		
			78.49%	11.24%	0.01%	0.16%	10.10%	Not Clean:	587	82.10%	1.2264	232.3683	1,296.3496	0.82	10.26%
1988															
P	635	0	304	1	6	324	Clean:	85	25.76%	0.1040	30.3871	310.1318	0.59		
			0.00%	47.87%	0.16%	0.94%	51.02%	Not Clean:	245	74.24%	0.9397	163.4506	1,306.7896	0.74	51.97%
T	578	0	268	7	0	303	Clean:	46	15.18%	0.1215	40.3174	381.9739	0.69		
			0.00%	46.37%	1.21%	0.00%	52.42%	Not Clean:	257	84.82%	1.0689	240.0749	1,425.8082	0.73	52.42%
U	3,551	3,548	0	0	0	3	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00		
			99.92%	0.00%	0.00%	0.00%	0.08%	Not Clean:	3	100.00%	1.0083	208.7667	1,049.3334	0.12	0.08%
Total For 1988	4,764	3,548	572	8	6	630	Clean:	131	20.60%	0.1102	33.8740	335.3588	0.62		
			74.48%	12.01%	0.17%	0.13%	13.22%	Not Clean:	505	79.40%	1.0058	202.7148	1,365.8300	0.73	13.35%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1989															
P	1,462	1,462	0	683	7	29	743	Clean:	197	25.52%	0.1075	29.0853	296.3533	0.64	
			0.00%	46.72%	0.48%	1.98%	50.82%	Not Clean:	575	74.48%	1.0667	176.1582	1,153.2151	0.89	52.80%
T	1,387	1,387	0	656	12	11	708	Clean:	107	14.88%	0.1344	36.9411	364.5963	0.59	
			0.00%	47.30%	0.87%	0.79%	51.05%	Not Clean:	612	85.12%	1.1363	308.7953	1,370.6775	0.81	51.84%
U	8,716	8,716	8,715	1	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.99%	0.01%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1989		11,565	8,715	1,340	19	40	1,451	Clean:	304	20.39%	0.1170	31.8503	320.3730	0.62	
			75.36%	11.59%	0.16%	0.35%	12.55%	Not Clean:	1,187	79.61%	1.1026	244.5439	1,265.3356	0.85	12.89%
1990															
P	1,469	1,469	0	649	2	14	804	Clean:	230	28.12%	0.1105	25.1902	345.6626	0.64	
			0.00%	44.18%	0.14%	0.95%	54.73%	Not Clean:	588	71.88%	0.9174	138.2125	1,210.8177	0.82	55.68%
T	881	881	0	399	9	0	473	Clean:	83	17.55%	0.1271	31.1765	311.0211	0.62	
			0.00%	45.29%	1.02%	0.00%	53.69%	Not Clean:	390	82.45%	0.8770	180.5409	1,405.3009	0.66	53.69%
U	5,511	5,506	5,506	1	0	0	4	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			99.91%	0.02%	0.00%	0.00%	0.07%	Not Clean:	4	100.00%	3.9600	586.9125	1,111.4875	0.60	0.07%
Total For 1990		7,861	5,506	1,049	11	14	1,281	Clean:	313	24.17%	0.1149	26.7776	336.4765	0.63	
			70.04%	13.34%	0.14%	0.18%	16.30%	Not Clean:	982	75.83%	0.9137	156.8509	1,287.6518	0.76	16.47%
1991															
P	3,071	3,071	0	1384	4	29	1,654	Clean:	549	32.62%	0.1244	24.6950	333.5964	0.70	
			0.00%	45.07%	0.13%	0.94%	53.86%	Not Clean:	1,134	67.38%	1.0293	159.8260	1,138.8708	0.94	54.80%
T	2,013	2,013	0	887	14	17	1,095	Clean:	287	25.81%	0.1267	33.9686	333.1932	0.64	
			0.00%	44.06%	0.70%	0.84%	54.40%	Not Clean:	825	74.19%	1.0258	185.7610	1,253.2770	0.90	55.24%
U	12,118	12,114	12,114	1	0	0	3	Clean:	1	33.33%	0.2050	26.2500	142.0000	-0.20	
			99.97%	0.01%	0.00%	0.00%	0.02%	Not Clean:	2	66.67%	4.0825	202.8000	1,065.9500	1.67	0.02%
Total For 1991		17,202	12,114	2,272	18	46	2,752	Clean:	837	29.91%	0.1253	27.8767	333.2293	0.68	
			70.42%	13.21%	0.10%	0.27%	16.00%	Not Clean:	1,961	70.09%	1.0309	170.7808	1,186.9275	0.92	16.27%
1992															
P	2,246	2,246	0	970	3	7	1,266	Clean:	453	35.59%	0.1184	24.1555	333.9524	0.64	
			0.00%	43.19%	0.13%	0.31%	56.37%	Not Clean:	820	64.41%	0.8315	132.3681	1,101.2410	0.81	56.68%
T	1,545	1,545	0	698	18	1	828	Clean:	160	19.30%	0.1197	32.0337	353.0853	0.43	
			0.00%	45.18%	1.17%	0.06%	53.59%	Not Clean:	669	80.70%	0.9286	145.5841	1,257.6307	0.80	53.66%
U	7,549	7,549	7,549	0	0	0	0	Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	
			100.00%	0.00%	0.00%	0.00%	0.00%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.00%
Total For 1992		11,340	7,549	1,668	21	8	2,094	Clean:	613	29.16%	0.1188	26.2118	338.9463	0.58	
			66.57%	14.71%	0.19%	0.07%	18.47%	Not Clean:	1,489	70.84%	0.8751	138.3060	1,171.5061	0.81	18.54%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1993															
P	4,323	0	1865	18	13	2,427	Clean:	864	35.41%	0.1181	24.2580	355.7168	0.77		
			0.00%	43.14%	0.42%	0.30%	56.14%	Not Clean:	1,576	64.59%	0.8036	132.8162	1,137.7641	0.95	56.44%
T	3,509	0	1583	28	10	1,888	Clean:	409	21.55%	0.1226	34.0318	363.0590	0.68		
			0.00%	45.11%	0.80%	0.28%	53.80%	Not Clean:	1,489	78.45%	0.8137	153.6814	1,248.4373	0.81	54.09%
U	16,516	16,506	6	0	0	4	Clean:	1	25.00%	0.4000	0.4500	669.3500	0.15		
			99.94%	0.04%	0.00%	0.00%	0.02%	Not Clean:	3	75.00%	1.7433	4,850.1333	2,618.7167	0.38	0.02%
Total For 1993		24,348	16,506	3,454	46	23	4,319	Clean:	1,274	29.34%	0.1198	27.3770	358.3201	0.74	
			67.79%	14.19%	0.19%	0.09%	17.74%	Not Clean:	3,068	70.66%	0.8094	147.5555	1,192.9256	0.88	17.83%
1994															
P	3,641	0	1517	4	43	2,077	Clean:	949	44.76%	0.1131	24.3402	292.5677	0.68		
			0.00%	41.66%	0.11%	1.18%	57.04%	Not Clean:	1,171	55.24%	0.7026	118.0317	1,018.5799	0.92	58.23%
T	3,456	0	1495	25	8	1,928	Clean:	458	23.66%	0.1116	32.0510	370.8074	0.59		
			0.00%	43.26%	0.72%	0.23%	55.79%	Not Clean:	1,478	76.34%	0.7772	132.5794	1,188.9472	0.76	56.02%
U	13,175	13,166	2	0	0	7	Clean:	2	28.57%	0.0875	15.5250	615.6000	0.80		
			99.93%	0.02%	0.00%	0.00%	0.05%	Not Clean:	5	71.43%	0.4770	69.7800	1,590.9700	1.09	0.05%
Total For 1994		20,272	13,166	3,014	29	51	4,012	Clean:	1,409	34.68%	0.1126	26.8341	318.4583	0.65	
			64.95%	14.87%	0.14%	0.25%	19.79%	Not Clean:	2,654	65.32%	0.7437	126.0424	1,114.5350	0.83	20.04%
1995															
P	7,346	0	2872	17	245	4,212	Clean:	2,227	49.97%	0.1011	20.5215	248.4431	0.71		
			0.00%	39.10%	0.23%	3.34%	57.34%	Not Clean:	2,230	50.03%	0.7297	136.3937	933.4825	1.01	60.67%
T	6,451	0	2694	58	5	3,694	Clean:	1,112	30.06%	0.1164	27.6641	352.1567	0.72		
			0.00%	41.76%	0.90%	0.08%	57.26%	Not Clean:	2,587	69.94%	0.7071	123.0585	1,187.8132	0.87	57.34%
U	23,976	23,967	4	0	0	5	Clean:	3	60.00%	0.0500	3.3500	269.4167	0.72		
			99.96%	0.02%	0.00%	0.00%	0.02%	Not Clean:	2	40.00%	0.2925	134.2750	1,351.1000	0.95	0.02%
Total For 1995		37,773	23,967	5,570	75	250	7,911	Clean:	3,342	40.95%	0.1062	22.8827	282.9711	0.72	
			63.45%	14.75%	0.20%	0.66%	20.94%	Not Clean:	4,819	59.05%	0.7174	129.2341	1,070.1891	0.93	21.61%
1996															
P	5,423	0	1625	6	498	3,294	Clean:	2,315	61.05%	0.0835	15.6086	199.7269	0.58		
			0.00%	29.96%	0.11%	9.18%	60.74%	Not Clean:	1,477	38.95%	0.7234	112.6017	806.9830	0.92	69.92%
T	4,821	0	1907	19	18	2,877	Clean:	1,431	49.43%	0.1114	23.4417	296.5036	0.65		
			0.00%	39.56%	0.39%	0.37%	59.68%	Not Clean:	1,464	50.57%	0.5361	96.1624	1,033.4845	0.79	60.05%
U	14,568	14,557	4	0	0	7	Clean:	3	42.86%	0.0300	20.1667	413.1000	1.05		
			99.92%	0.03%	0.00%	0.00%	0.05%	Not Clean:	4	57.14%	0.4762	29.4000	520.3750	0.81	0.05%
Total For 1996		24,812	14,557	3,536	25	516	6,178	Clean:	3,749	56.01%	0.0941	18.6021	236.8375	0.61	
			58.67%	14.25%	0.10%	2.08%	24.90%	Not Clean:	2,945	43.99%	0.6299	104.3165	919.1907	0.86	26.98%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
1997															
P	10,667	0	3337	24	1,005	6,301	Clean:	4,868	66.63%	0.0833	15.2132	176.0124	0.69		
			0.00%	31.28%	0.22%	9.42%	59.07%	Not Clean:	2,438	33.37%	0.8204	98.0439	787.0292	1.05	68.49%
T	10,580	0	3391	63	668	6,458	Clean:	4,108	57.65%	0.0876	16.7149	229.7311	0.63		
			0.00%	32.05%	0.60%	6.31%	61.04%	Not Clean:	3,018	42.35%	0.5278	90.2459	1,047.8919	0.94	67.35%
U	30,038	30,023	8	0	0	7	Clean:	5	71.43%	0.1050	6.0200	183.8600	0.93		
			99.95%	0.03%	0.00%	0.00%	0.02%	Not Clean:	2	28.57%	0.8525	46.0500	642.9750	-0.30	0.02%
Total For 1997		51,285	30,023	6,736	87	1,673	12,766	Clean:	8,981	62.20%	0.0853	15.8950	200.5883	0.66	
			58.54%	13.13%	0.17%	3.26%	24.89%	Not Clean:	5,458	37.80%	0.6586	93.7129	931.2204	0.99	28.15%
1998															
P	7,831	0	2736	20	214	4,861	Clean:	3,458	68.14%	0.0910	15.8685	196.4068	0.72		
			0.00%	34.94%	0.26%	2.73%	62.07%	Not Clean:	1,617	31.86%	0.8389	82.3100	671.8590	1.00	64.81%
T	8,486	0	2798	57	282	5,349	Clean:	3,472	61.66%	0.0849	15.9267	237.3592	0.61		
			0.00%	32.97%	0.67%	3.32%	63.03%	Not Clean:	2,159	38.34%	0.5082	63.2321	982.7184	0.87	66.36%
U	18,999	18,992	3	0	0	4	Clean:	3	75.00%	0.1333	14.6333	185.7667	1.12		
			99.96%	0.02%	0.00%	0.00%	0.02%	Not Clean:	1	25.00%	0.4850	37.8000	452.6500	0.00	0.02%
Total For 1998		35,316	18,992	5,537	77	496	10,214	Clean:	6,933	64.73%	0.0880	15.8971	216.9109	0.66	
			53.78%	15.68%	0.22%	1.40%	28.92%	Not Clean:	3,777	35.27%	0.6498	71.3929	849.4937	0.92	30.33%
1999															
P	14,301	0	3569	33	1,947	8,752	Clean:	8,001	74.78%	0.0647	11.7350	141.2195	0.70		
			0.00%	24.96%	0.23%	13.61%	61.20%	Not Clean:	2,698	25.22%	0.7654	84.3992	712.4001	1.10	74.81%
T	18,155	0	4851	141	1,822	11,341	Clean:	10,001	75.98%	0.0627	12.3529	159.0866	0.65		
			0.00%	26.72%	0.78%	10.04%	62.47%	Not Clean:	3,162	24.02%	0.5176	82.6592	903.1415	0.95	72.50%
U	37,591	37,566	8	0	0	17	Clean:	8	47.06%	0.0544	17.6687	121.6938	0.32		
			99.93%	0.02%	0.00%	0.00%	0.05%	Not Clean:	9	52.94%	1.3367	171.0778	975.6556	1.07	0.05%
Total For 1999		70,047	37,566	8,428	174	3,769	20,110	Clean:	18,010	75.42%	0.0636	12.0807	151.1325	0.67	
			53.63%	12.03%	0.25%	5.38%	28.71%	Not Clean:	5,869	24.58%	0.6328	83.5947	815.5682	1.02	34.09%
2000															
P	10,765	0	2883	24	1,025	6,833	Clean:	6,085	77.44%	0.0613	11.9526	126.1004	0.68		
			0.00%	26.78%	0.22%	9.52%	63.47%	Not Clean:	1,773	22.56%	0.7471	78.6330	639.8893	1.00	73.00%
T	12,654	0	2082	88	2,032	8,452	Clean:	8,365	79.79%	0.0530	11.1889	131.8618	0.57		
			0.00%	16.45%	0.70%	16.06%	66.79%	Not Clean:	2,119	20.21%	0.5801	58.8785	817.7610	0.91	82.85%
U	23,126	23,106	7	0	0	13	Clean:	9	69.23%	0.0756	10.8111	156.6389	0.27		
			99.91%	0.03%	0.00%	0.00%	0.06%	Not Clean:	4	30.77%	0.7587	29.6250	1,080.1125	0.95	0.06%
Total For 2000		46,545	23,106	4,972	112	3,057	15,298	Clean:	14,459	78.77%	0.0565	11.5101	129.4526	0.61	
			49.64%	10.68%	0.24%	6.57%	32.87%	Not Clean:	3,896	21.23%	0.6563	67.8384	737.0841	0.95	39.43%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
2001															
P	18,598	0	1932	53	4,630	11,983	Clean:	14,183	85.37%	0.0429	8.5455	68.1548	0.64		
			0.00%	10.39%	0.28%	24.90%	64.43%	Not Clean:	2,430	14.63%	0.7822	85.0436	560.8384	1.16	89.33%
T	23,949	0	2263	182	5,755	15,749	Clean:	18,937	88.06%	0.0461	9.5724	83.8571	0.62		
			0.00%	9.45%	0.76%	24.03%	65.76%	Not Clean:	2,567	11.94%	0.6701	64.2351	620.9788	1.05	89.79%
U	42,291	42,253	8	1	0	29	Clean:	16	55.17%	0.0919	20.9875	201.2813	0.72		
			99.91%	0.02%	0.00%	0.00%	0.07%	Not Clean:	13	44.83%	0.5804	57.1269	1,223.6885	1.30	0.07%
Total For 2001	84,838	42,253	4,203	236	10,385	27,761	Clean:	33,136	86.87%	0.0447	9.1384	77.1928	0.62		
			49.80%	4.95%	0.28%	12.24%	32.72%	Not Clean:	5,010	13.13%	0.7242	74.3094	593.3729	1.10	44.96%
2002															
P	11,282	0	597	21	3,122	7,542	Clean:	9,277	86.99%	0.0385	8.4371	61.7524	0.58		
			0.00%	5.29%	0.19%	27.67%	66.85%	Not Clean:	1,387	13.01%	0.7404	72.1846	538.8767	1.09	94.52%
T	13,392	0	821	72	3,284	9,215	Clean:	11,171	89.38%	0.0422	8.9882	81.7365	0.58		
			0.00%	6.13%	0.54%	24.52%	68.81%	Not Clean:	1,328	10.62%	0.6401	58.3283	634.0938	0.91	93.33%
U	20,795	20,773	10	0	0	12	Clean:	8	66.67%	0.0631	10.8375	123.8125	0.71		
			99.89%	0.05%	0.00%	0.00%	0.06%	Not Clean:	4	33.33%	0.8137	43.4250	554.0750	0.90	0.06%
Total For 2002	45,469	20,773	1,428	93	6,406	16,769	Clean:	20,456	88.27%	0.0405	8.7390	72.6900	0.58		
			45.69%	3.14%	0.20%	14.09%	36.88%	Not Clean:	2,719	11.73%	0.6915	65.3747	585.4045	1.00	50.97%
2003															
P	21,015	0	1349	51	6,010	13,605	Clean:	17,764	90.56%	0.0357	7.8429	51.0907	0.66		
			0.00%	6.42%	0.24%	28.60%	64.74%	Not Clean:	1,851	9.44%	0.7422	62.4714	452.5652	1.18	93.34%
T	29,416	0	1927	129	7,609	19,751	Clean:	25,313	92.52%	0.0393	8.3733	56.0462	0.64		
			0.00%	6.55%	0.44%	25.87%	67.14%	Not Clean:	2,047	7.48%	0.6692	63.3694	521.0319	1.00	93.01%
U	42,050	42,017	17	0	0	16	Clean:	13	81.25%	0.0812	28.3308	153.5269	0.86		
			99.92%	0.04%	0.00%	0.00%	0.04%	Not Clean:	3	18.75%	0.4467	40.8833	1,082.3166	0.88	0.04%
Total For 2003	92,481	42,017	3,293	180	13,619	33,372	Clean:	43,090	91.70%	0.0378	8.1607	54.0327	0.65		
			45.43%	3.56%	0.19%	14.73%	36.09%	Not Clean:	3,901	8.30%	0.7037	62.9260	488.9765	1.08	50.81%
2004															
P	8,071	0	572	19	2,072	5,408	Clean:	6,817	91.14%	0.0384	8.0961	48.9042	0.64		
			0.00%	7.09%	0.24%	25.67%	67.01%	Not Clean:	663	8.86%	0.6513	64.6052	447.8760	1.11	92.68%
T	11,925	0	900	52	2,618	8,355	Clean:	10,284	93.72%	0.0343	8.6885	45.2977	0.66		
			0.00%	7.55%	0.44%	21.95%	70.06%	Not Clean:	689	6.28%	0.6590	62.9369	378.5263	0.96	92.02%
U	14,223	14,213	3	0	0	7	Clean:	7	100.00%	0.0643	10.3786	40.6857	0.61		
			99.93%	0.02%	0.00%	0.00%	0.05%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.05%
Total For 2004	34,219	14,213	1,475	71	4,690	13,770	Clean:	17,108	92.68%	0.0360	8.4531	46.7328	0.65		
			41.54%	4.31%	0.21%	13.71%	40.24%	Not Clean:	1,352	7.32%	0.6553	63.7550	412.5344	1.04	53.95%

Model Year	Veh. Type	Emis. Due Veh.	Meet Time and Location Criteria					Total	Percent	CO	HC	NOX	Accel	Emis. Due Veh. Evaluated	
			No			Yes									
			0 Hits	1 Hit	2+ Hits	1 Hit	2+ Hits								
2005															
P	23,559	0	2721	49	5,335	15,454	Clean:	19,374	93.19%	0.0338	8.1355	37.4716	0.72		
			0.00%	11.55%	0.21%	22.65%	65.60%	Not Clean:	1,415	6.81%	0.6751	89.7535	351.0753	1.29	88.24%
T	36,592	0	3232	208	7,907	25,245	Clean:	31,674	95.54%	0.0319	8.0592	37.2408	0.71		
			0.00%	8.83%	0.57%	21.61%	68.99%	Not Clean:	1,478	4.46%	0.6192	65.5918	403.3682	1.08	90.60%
U	44,277	44,245	13	0	0	19	Clean:	16	84.21%	0.0794	7.9375	155.6156	1.09		
			99.93%	0.03%	0.00%	0.00%	0.04%	Not Clean:	3	15.79%	0.1833	2,744.9333	546.3667	1.63	0.04%
Total For 2005		104,428	44,245	5,966	257	13,242	40,718	Clean:	51,064	94.63%	0.0326	8.0881	37.3655	0.71	
			42.37%	5.71%	0.25%	12.68%	38.99%	Not Clean:	2,896	5.37%	0.6461	80.1729	377.9658	1.19	51.67%
2006															
P	8,546	0	1311	10	1,584	5,641	Clean:	6,734	93.20%	0.0386	8.0406	38.0761	0.88		
			0.00%	15.34%	0.12%	18.53%	66.01%	Not Clean:	491	6.80%	0.6709	78.2445	345.2383	1.42	84.54%
T	12,023	0	1418	87	2,356	8,162	Clean:	10,074	95.78%	0.0340	7.8509	36.6396	0.83		
			0.00%	11.79%	0.72%	19.60%	67.89%	Not Clean:	444	4.22%	0.5940	78.4921	393.3357	1.13	87.48%
U	14,789	14,775	5	0	0	9	Clean:	8	88.89%	0.1013	8.9500	89.0688	0.92		
			99.91%	0.03%	0.00%	0.00%	0.06%	Not Clean:	1	11.11%	0.4350	60.3000	241.6500	1.20	0.06%
Total For 2006		35,358	14,775	2,734	97	3,940	13,812	Clean:	16,816	94.73%	0.0359	7.9274	37.2398	0.85	
			41.79%	7.73%	0.27%	11.14%	39.06%	Not Clean:	936	5.27%	0.6342	78.3428	367.9431	1.28	50.21%
2007															
P	25,159	0	5013	52	3,631	16,463	Clean:	18,957	94.34%	0.0357	8.9797	34.2639	0.84		
			0.00%	19.93%	0.21%	14.43%	65.44%	Not Clean:	1,137	5.66%	0.6292	83.9467	292.7721	1.27	79.87%
T	40,907	0	5323	252	6,499	28,833	Clean:	33,857	95.83%	0.0329	8.5166	32.7175	0.79		
			0.00%	13.01%	0.62%	15.89%	70.48%	Not Clean:	1,475	4.17%	0.6552	70.9135	229.0561	1.19	86.37%
U	43,896	43,849	16	0	0	31	Clean:	31	100.00%	0.0373	10.3016	64.3290	1.15		
			99.89%	0.04%	0.00%	0.00%	0.07%	Not Clean:	0	0.00%	0.0000	0.0000	0.0000	0.00	0.07%
Total For 2007		109,962	43,849	10,352	304	10,130	45,327	Clean:	52,845	95.29%	0.0339	8.6838	33.2908	0.80	
			39.88%	9.41%	0.28%	9.21%	41.22%	Not Clean:	2,612	4.71%	0.6439	76.5869	256.7916	1.23	50.43%
Overall Total		889,421	453,226	79,528	1,951	72,387	282,329	Clean:	295,121	83.20%	0.0449	9.8547	77.6870	0.69	
			50.96%	8.94%	0.22%	8.14%	31.74%	Not Clean:	59,595	16.80%	0.7339	103.3397	826.3026	0.98	39.88%