



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

2001 Annual Report

Massachusetts Enhanced Emission and Safety Testing Program

December 5, 2005

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2001 Annual Report

Massachusetts Enhanced Inspection and Maintenance Program

1 INTRODUCTION

This document is the 2001 Annual Report to the United States Environmental Protection Agency (EPA) on the Massachusetts Enhanced Inspection and Maintenance Program (I&M Program). This Annual Report is required by EPA under 40 CFR 51.366. This report covers the calendar year January 1 to December 31, 2001, the second full year of operation for the Massachusetts Enhanced Inspection and Maintenance Program.

During 2001, several procedures were modified to ensure that the Program meets its goals. Significant modifications were:

- January 2001: narrowed the exemption from biennial emissions testing for vehicles that are less than four years old to vehicles that are less than two years old (and are still registered to the original owner);
- February 2001: started opacity testing of heavy duty diesel-fueled vehicles (those weighing more than 10,000 pounds);
- March 2001: tightened cutpoints to final levels (the last of three revisions, designed to meet Massachusetts' commitments for pollution reductions in a phased approach, as described in the State Implementation Plan);
- April 2001: test selection software was revised to help ensure that vehicles received the proper emissions test when due, every other year.
- July 2001: replaced the Program's initial conversion factors with "interim" factors designed to more closely approximate test results from U.S. EPA's IM240 equipment and drive trace. This change was based on initial results of an analysis of data from the "Interim Test Effectiveness Evaluation" that commenced in December 2000. Please note that final conversion factors were installed in June 2004, upon completion of a full evaluation. Both studies were described in a report submitted to EPA in July 2003, "Massachusetts Emissions Test Conversion Factor Analysis and Interim Test Effectiveness Evaluation".

These modifications are described in more detail in the Biennial Report for 2000-01 and 2002-03, submitted to EPA on July 20, 2005.

Contents of This Report

This report describes:

- The Massachusetts I&M Program - providing background on the program and information on types of emissions tests;
- Station and Inspector Oversight - providing information on covert and overt performance audits data, hearing results for stations and inspectors and the number of inspection stations and inspectors;
- Compliance and Enforcement - providing information on enforcement activities and on vehicle compliance with the program's testing requirements; and
- Emissions Test Data - including information on the percentage of vehicles failing emissions tests, supplemented by data presented in Appendices B and C.

Please note that, since the Department of Environmental Protection started to conduct routine audits of emission testing equipment in November 2001, data describing this quality control program will be presented with “full year” data for 2002, and is not included in this report.

2 THE MASSACHUSETTS I&M PROGRAM

2.1 Why Does Massachusetts Have an I&M Program?

Massachusetts's air does not meet federal standards for ground-level ozone pollution. On our "bad air" days, there are increases in asthma attacks and hospitalizations for people with severe respiratory ailments. To reduce the number of "bad air" days and to comply with the Federal Clean Air Act and U.S. EPA's regulations, Massachusetts must implement various federally mandated programs. To reduce pollution from motor vehicles, Massachusetts is required to operate an Enhanced Inspection and Maintenance (I&M) program. The U.S. Environmental Protection Agency (EPA) sets minimum standards for I&M programs¹.

States include their I&M programs in a State Implementation Plan (SIP), a federally-enforceable binding commitment from the state to EPA, that lists the programs the state will use to meet federal pollution reduction goals. These programs include reductions from many emission sources, such as power plants, small businesses, factories, construction equipment, and on-road vehicles. For each program, EPA determines the credit for pollution reductions that a state will receive from the group of emission sources that the program addresses. EPA's pollution reduction credit determination is based on the specific details of the program that the state implements. A more stringent state program will receive more credit than a less stringent program. EPA looks at the totality of the state programs to determine if the state will meet its SIP commitment to reduce air pollution.

The current Massachusetts I&M program was authorized by the Legislature by Chapter 210 of the Acts of 1997. The Department of Environmental Protection and the Registry of Motor Vehicles (RMV) jointly administer the Enhanced Emission and Safety Test. The program provides a comprehensive test that identifies the emission reductions needed for the Massachusetts SIP, is convenient to motorists, ensures vehicle safety, and works well in local inspection shops. To maximize customer convenience, the legislation combines emissions and safety testing, and requires that the combined test be delivered in local inspection stations, convenient to where people live and work. In January 1999, the Commonwealth contracted with Keating Technologies, Inc., known since July 2001 as Agbar Technologies, Inc. (and referred to in this report as "Agbar"), to supply the inspection equipment and operate the Massachusetts I&M program. The Enhanced Safety and Emissions Testing Program started operation on October 1, 1999.

Each vehicle registered in Massachusetts must be inspected annually. All vehicles are required to receive a safety inspection every year, and the vast majority are required to receive an emissions test every other year. In 2001, vehicles were exempted from the emissions inspection if they:

¹ 40 CFR Part 51, Subpart S (§51.350 et seq.).

- Were model year 1983 or older;
- Were less than two years old and still registered to the original owner (As established when the program started in October 1999, vehicles less than four years old and still registered to the original owner were exempt from emission testing. On January 18, 2001, this exemption was narrowed to two years); or
- Fit a “Low Emitter profile” (LEP) that DEP established by identifying classes of vehicles that are typically very clean based on Massachusetts test data.

In addition, vehicles are required to receive an emissions inspection within seven days of transfer of ownership or of initial registration when entering the Commonwealth.

2.2 How Does an I&M Emissions Test Work?

Most Massachusetts vehicles receive their inspections at local public stations. The program also allows owners of vehicle fleets to purchase their own testing equipment so they can perform their own tests. The number of public and fleet stations fluctuates as businesses join or leave the program. In 2001, 1,446 stations conducted emissions tests for the public. In addition, approximately 123 fleet stations conducted emissions tests during 2001.

The Massachusetts I&M program used two types of tailpipe tests for gasoline-powered vehicles in 2001: the "transient" test and the Two-Speed Idle (TSI) test. The most common tailpipe test is the transient test. In this test, vehicles are placed on a dynamometer, a treadmill-like device that puts resistance against the tires to simulate on-road driving. The vehicles are accelerated and decelerated according to a prescribed pattern (“drive trace”), and tailpipe emissions are measured and recorded. Readings for hydrocarbons (HC), carbon monoxide (CO) and oxides of nitrogen (NO_x) are compared to each pollutant’s pass/fail points, which are expressed in grams/mile. The pass/fail points vary by vehicle type [car vs. truck], model year, and, for trucks, by weight category.

Vehicles that cannot receive a transient test receive a Two-Speed Idle (TSI) test. This test measures emissions while the engine is operating at 2500 revolutions per minute with the transmission in neutral and the vehicle idling. The pollutant levels and pass/fail points for TSI tests are measured in concentrations (parts per million for HC, and percent-per-standard volume for CO). Since the engine is not under load in this test, it does not produce a measurable amount of NO_x. Therefore, this test does not measure emissions of oxides of nitrogen. Examples of vehicles that receive a TSI test are those with All-Wheel Drive (where the vehicle cannot be shifted back to two wheel drive) and vehicles weighing more than 10,000 pounds.

2.3 Diesel Testing: More Protective Than Required

Although not required by EPA, Massachusetts is one of a few states that routinely tests in-state-registered heavy-duty diesel trucks and buses for excess emissions.

Massachusetts devotes resources to diesel testing because diesel exhaust is linked to significant health problems. Every diesel truck or bus that is repaired through this program results in an improvement in air quality for children who ride school buses, for people living next to busy urban streets, and for the thousands of Commonwealth residents who suffer from asthma. Diesel testing started in February 2001.

3 STATION AND INSPECTOR OVERSIGHT

3.1 Number of Inspection Stations and Inspection Lanes for 2001

40 CFR 51.366 (b)² Quality assurance report. The program shall submit to EPA by July of each year a report providing basic statistics on the quality assurance program for January through December of the previous year, including:

- (1) The number of inspection stations and lanes:
 - (i) Operating throughout the year; and
 - (ii) Operating for only part of the year;

During calendar year 2001, a total of 1,583 inspection stations participated in the Enhanced Emission and Safety Testing Program. Of these, 1,492 stations were open to the public, and another 91 served only vehicle fleets. In 2001, 1,271 stations operated throughout the calendar year, and 312 stations operated for only part of that year.

A small number of stations had more than one set of inspection “workstations”. The number of workstations is equivalent to the number of lanes in a centralized testing program. During calendar year 2001, a total of 1,522 workstations operated, 1,277 throughout the year and 245 for only part of the year.

3.2 Number of Trained and Certified Inspectors

40 CFR 51.366 (b) (5) The number of inspectors licensed or certified to conduct testing;

Between October 1, 2000 and September 30, 2001, there were 3,500 – 4,000 inspectors licensed to conduct testing. Each of the 1,569 licensed inspection stations were required to employ at least one licensed inspector as a condition of their participation in the program.

3.3 Number and Type of Overt Performance Audits

40 CFR 51.366 (b)(2) The number of inspection stations and lanes operating throughout the year:

- (i) Receiving overt performance audits in the year;
- (ii) Not receiving overt performance audits in the year;

The RMV conducts regular site visits/performance audits to determine if the inspectors are correctly performing all tests and the station’s physical conditions continue to meet program requirements. RMV staff typically visit inspection stations once per quarter and

²For all references to 40 CFR 51.366: 57 FR 52987, Nov. 5, 1992, as amended at 61 FR 40945, Aug. 6, 1996; 65 FR 45534, July 24, 2000; 66 FR 18178, Apr. 5, 2001.

performs additional visits to follow up on past problems or to investigate stations or inspectors that are suspected of violating regulations based on consumer complaints or data analysis.

Data analysis used by RMV staff includes monthly “digital audits” that are conducted before site visits to identify areas that may need further investigation. The records of all inspections are maintained by Agbar and its subcontractor in a large computer database. A “digital audit” is a query of that database for information that may indicate issues warranting attention during the site visit. Examples of digital audit items include the station’s inspection failure rate and vehicle characteristics recorded during the inspection that do not match the vehicle information in the registration database.

The RMV site visits cover a wide range of items including:

- Observing inspectors performing an inspection;
- Examining station and inspector licenses;
- Collecting voided inspection stickers and checking to see that stickers are stored in a secure location;
- Examining the inspection equipment and bay;
- Supplementing the inspector’s training; and
- Investigating consumer complaints and/or anomalous digital audit findings.

RMV staff prepare a written report summarizing the results of each inspection. Violations of policies or regulations identified at site visits are forwarded to RMV headquarters for possible enforcement action.

In 2001, RMV conducted 5,227 station audits. All stations that operated throughout the year received at least one audit in 2001, and most stations received an audit each quarter.

3.4 Covert Audits

40 CFR 51.366 (b)(2) The number of inspection stations and lanes operating throughout the year: . . .

- (iii) Receiving covert performance audits in the year;
- (iv) Not receiving covert performance audits in the year;

40 CFR 51.366 (b) (3) The number of covert audits:

- (i) Conducted with the vehicle set to fail per test type;
- (ii) Conducted with the vehicle set to fail any combination of two or more test types;
- (iii) Resulting in a false pass per test type;
- (iv) Resulting in a false pass for any combination of two or more test types;

Two types of covert audits, or "covert performance audits" were employed in 2001. *Covert vehicle audits* were done with vehicles set to fail one or more parts of the emissions test. *Covert visual audits* observe tests being conducted (to the extent possible from a covert location), record any irregularities in the testing process and compare the observed tests to test data recorded in the test database.

Stations are selected for covert audits for five reasons: a specific request from DEP or RMV, analysis of test data (i.e., through digital audits), high volume of inspections conducted, motorist complaints, and random selection.

This section summarizes covert audits performed by Agbar. Registry staff also conduct covert audits as part of their enforcement activities. The Registry's covert audits are not included in the following tables.

Table 1: Covert Audits (November 15, 2000-December 31, 2001)

Type of Covert Audit	Number Performed
Vehicle audits	1,862
Visual audits	303
Total number of covert audits performed	2,165

3.5 Covert Audit Results

40 CFR 51.366 (b) (3) The number of covert audits:
 (i) Conducted with the vehicle set to fail per test type;
 (ii) Conducted with the vehicle set to fail any combination of two or more test types;
 (iii) Resulting in a false pass per test type;
 (iv) Resulting in a false pass for any combination of two or more test types;

40 CFR 51.366 (b) (8) The total number of covert vehicles available for undercover audits over the year;
 40 CFR 51.366 (b) (9) The number of covert auditors available for undercover audits.

Covert audits are under-cover inspections done with vehicles set to fail one or more parts of the emissions test. A “false pass” on a covert audit is an inspection that passes a vehicle that was set to fail. The covert audit does not indicate whether the cause of a false pass was related to the equipment or the inspector. Follow-up investigations conducted by Agbar and the RMV address the cause of any false passes.

The Registry investigates false passes and, as part of their visit, initiates enforcement actions and/or provides supplementary inspector training on proper test procedures. On occasion, when it identifies possible systemic emissions equipment problems, the Registry forwards information to DEP.

Covert vehicles are set up in one of two ways:

- set to fail the tailpipe test, or
- set to fail both tailpipe and gas cap tests.

Between November 15, 2000 and December 31, 2001, there were eight vehicles used for covert audits. Data describing the parts of the emissions test they were set to fail or the results of covert audits conducted in 2001 are not available.

The number of covert auditors employed during 2001 is not available.

3.6 Station and Inspector Hearing Results

40 CFR 51.366 (b) (6) The number of hearings:
 (i) Held to consider adverse actions against inspectors and stations; and
 (ii) Resulting in adverse actions against inspectors and stations;

40 CFR 51.366 (b) (4) The number of inspectors and stations:
 (i) That were suspended, fired, or otherwise prohibited from testing as a result of covert audits;
 (ii) That were suspended, fired, or otherwise prohibited from testing for other causes; and

40 CFR 51.366 (b)(2) The number of inspection stations and lanes operating throughout the year: . . .
 (v) That have been shut down as a result of overt performance audits;

The following table summarizes the results of the Registry’s hearings for stations and inspector, as well as tabulating the written violations issued to stations and inspectors.³

**Table 2: 2001 Audit and Enforcement Statistics
 (12/1/00-9/30/01)**

Type of Action	Total
Stations	
Total Number of Violations	418
Stations Suspended	83
Inspectors	
Total Number of Violations	439
Inspectors Suspended	112
Inspectors Required to Retrain	113
Inspectors’ Privileges Revoked	10

3.7 Fines Collected

40 CFR 51.366 (b) (4) The number of inspectors and stations: . . . (iii) That received fines;
 40 CFR 51.366 (b) (7) The total amount collected in fines from inspectors and stations by type of violation;

Massachusetts does not collect fines from stations or inspectors.

³ A tally is not available of the adverse actions, such as “cease and desist,” that were instituted on-site before the hearings.

4 QUALITY CONTROL REPORT

40 CFR 51.366 (c) Quality control report. The program shall submit to EPA by July of each year a report providing basic statistics on the quality control program for January through December of the previous year, including:

- (1) The number of emission testing sites and lanes in use in the program;
- (2) The number of equipment audits by station and lane;
- (3) The number and percentage of stations that have failed equipment audits; and
- (4) Number and percentage of stations and lanes shut down as a result of equipment audits.

Massachusetts started routine auditing of emission testing equipment at inspection stations in December 2001. Because this effort started so late in the calendar year, results will be presented in the 2002 Annual Report.

5 COMPLIANCE AND ENFORCEMENT

5.1 Vehicles Subject to Inspection and Motorist Compliance

40 CFR 51.366 (d) Enforcement report.

(1) All varieties of enforcement programs shall, at a minimum, submit a report providing basic statistics on the enforcement program for January through December of the previous year, including:

- (i) An estimate of the number of vehicles subject to the inspection program, including the results of an analysis of the registration data base;
- (ii) The percentage of motorist compliance based upon a comparison of the number of valid final tests with the number of subject vehicles;

Massachusetts's vehicles are tested for safety every year and for emissions every two years. The following three types of vehicles were exempt from emissions in 2001:

- Model years before 1984,
- Vehicles purchased new within the last two years (Please note that, in mid-January 2001, this exemption was reduced from four years to two), and
- Vehicles appearing on the table of Low Emitter Profile (LEP) Vehicles.⁴

Table 3 summarizes the analysis of compliance rates. The first calculated compliance rate, “overall testing compliance,” is a comparison of the total number of unique vehicles receiving any I&M test, including safety-only tests, to the number of unique registered vehicles. The number of unique vehicles receiving any type of inspection (including safety only) in 2001 is not available.

The second calculated compliance rate, “compliance with emissions testing commitment,” compares the number of vehicles that received emissions tests to DEP’s target for the number of emissions tests. The target number is based on DEP’s commitment to exempt no more than 40% of all registered vehicles from emissions testing. Since the remaining 60% are tested every two years, emissions testing should occur for at least 30% of the registered vehicles each year. As can be seen in Table 3, this emissions-test target was exceeded by 380,000 vehicles. Thirty-eight percent of the registered fleet received emissions tests.

⁴ Based on very low demonstrated failure rates for particular types of vehicles, the LEP table lists specific registered vehicles that are exempt from emissions testing.

Table 3: 2001 Compliance Rates

	Vehicle Count	Compliance %
Overall Testing Compliance		
Vehicles Subject to 2001 Test (Safety Only or Safety and Emissions)	4,600,000	
Compliance With Emissions Testing Commitment		
Target Number of Emissions Tests (30% emissions tested each year)	1,380,000	30% of Fleet
Unique Vehicles Receiving Emissions Tests In 2001	1,763,000	(38% of Fleet)
Number of Emissions Tested Vehicles as a Percent of the Target Number of Emissions Tests		1.27%

5.2 Compliance Documents Issued - Missing Compliance Documents

40 CFR 51.366 (d) (1) (iii) The total number of compliance documents issued to inspection stations;
(iv) The number of missing compliance documents;

This data is not available for 2001.

5.3 Time Extensions

40 CFR 51.366 (d) (1) (v) The number of time extensions and other exemptions granted to motorists;

No time extensions and other exemptions were granted to motorists, beyond the program's standard exemptions for certain classes of old, new, and/or relatively clean vehicles.

5.4 Compliance Surveys

40 CFR 51.366 (d) (1) (vi) The number of compliance surveys conducted, number of vehicles surveyed in each, and the compliance rates found;

This information is not available for 2001.

5.5 Preventing False Registration

40 CFR 51.366 (d) (2) Registration denial based enforcement programs shall provide the following additional information:

(i) A report of the program's efforts and actions to prevent motorists from falsely registering vehicles out of the program area or falsely changing fuel type or weight class on the vehicle registration, and the results of special studies to investigate the frequency of such activity; and

40 CFR 51.366 (d) (3) (ii) [Computer-matching based enforcement programs shall provide . . .] A report on the program's efforts to detect and enforce against motorists falsely changing vehicle classifications to circumvent program requirements, and the frequency of this type of activity;

40 CFR 51.366 (d) (4)(ii) [Sticker-based enforcement systems shall provide . . .] A report on the program's efforts to detect and enforce against motorists falsely changing vehicle classifications to circumvent program requirements, and the frequency of this type of activity;

The reporting requirements for efforts to prevent false registration are not relevant to Massachusetts because:

- all of Massachusetts is covered by the program;
- all vehicles are required to be inspected annually for either safety or safety and emissions;
- if a motorist falsely reports fuel type or weight in order to avoid an emissions inspection, the inspector enters corrected data based on his or her examination of the fuel cap and based on vehicle information appearing on the vehicle's door label.

5.6 Registration File Audits and Compliance with Deadlines

40 CFR 51.366 (d) (2)(ii) [Registration denial based enforcement programs shall provide . . .] The number of registration file audits, number of registrations reviewed, and compliance rates found in such audits. . . .

40 CFR 51.366 (d) (3) Computer-matching based enforcement programs shall provide the following additional information:

(i) The number and percentage of subject vehicles that were tested by the initial deadline, and by other milestones in the cycle;

Massachusetts did not have a program to perform these analyses in 2001.

5.7 Enforcement System Audits

40 CFR 51.366 (d) (3) (iii) [Computer-matching based enforcement programs shall provide . . .] The number of enforcement system audits, and the error rate found during those audits.

In 2001, enforcement was undertaken by state and local police, who wrote tickets for vehicles with expired (or missing) inspection stickers (See Section 5.8 below).

5.8 Additional Sticker-Related Activities

40 CFR 51.366 (d) (4) Sticker-based enforcement systems shall provide the following additional information:

(i) A report on the program's efforts to prevent, detect, and enforce against sticker theft and counterfeiting, and the frequency of this type of activity;

In 2001, state and local police issued 51,279 inspection sticker motor vehicle violations.

5.9 Parking Lot Surveys

40 CFR 51.366 (d) (4) (iii) [Sticker-based enforcement systems shall provide . . .] The number of parking lot sticker audits conducted, the number of vehicles surveyed in each, and the noncompliance rate found during those audits.

No data is available about these activities in 2001.

6 EMISSIONS TEST DATA

Details of all 2001 emissions test results are included in Attachment B.

In 2001, the Massachusetts I&M program used three different types of tailpipe tests for emissions:

- Transient Test on the Dynamometer
Many vehicles receive this test, which measures emissions during simulated on-road driving. The vehicle is “driven” by the inspector on a dynamometer (a kind of treadmill for cars) and exhaust gases are measured and recorded. Emissions levels for three pollutants HC (hydrocarbons), CO (Carbon Monoxide) and NO_x (Oxides of Nitrogen) are recorded in grams per mile. The drive “trace” that the inspector follows is called “MA31.” It is a shorter and lower speed test than EPA’s standard test, IM240.
- Two Speed Idle (TSI)
Vehicles that cannot be tested on the dynamometer (like All Wheel Drive vehicles) and vehicles with a Gross Vehicle Weight Rating (GVWR) of greater than 10,000 pounds are given the TSI test which measures emissions when the vehicles are operated without a load. In this test, a gasoline vehicle is operated at two different engine speeds, and exhaust gases are collected from the tailpipe. HC emissions levels are recorded in Parts Per Million, and CO emissions levels are recorded in Percent of standard volume. NO_x is not measured on this test because unloaded vehicles produce virtually no NO_x.
- Diesel Snap Acceleration
Diesel vehicles with a GVWR greater than 10,000 pounds are tested using this method. In this test, the engine of a diesel truck or bus is “revved” and exhaust gases are sampled using a probe. The density of the smoke is measured, and expressed as Percent Opacity. EPA does not require this test.

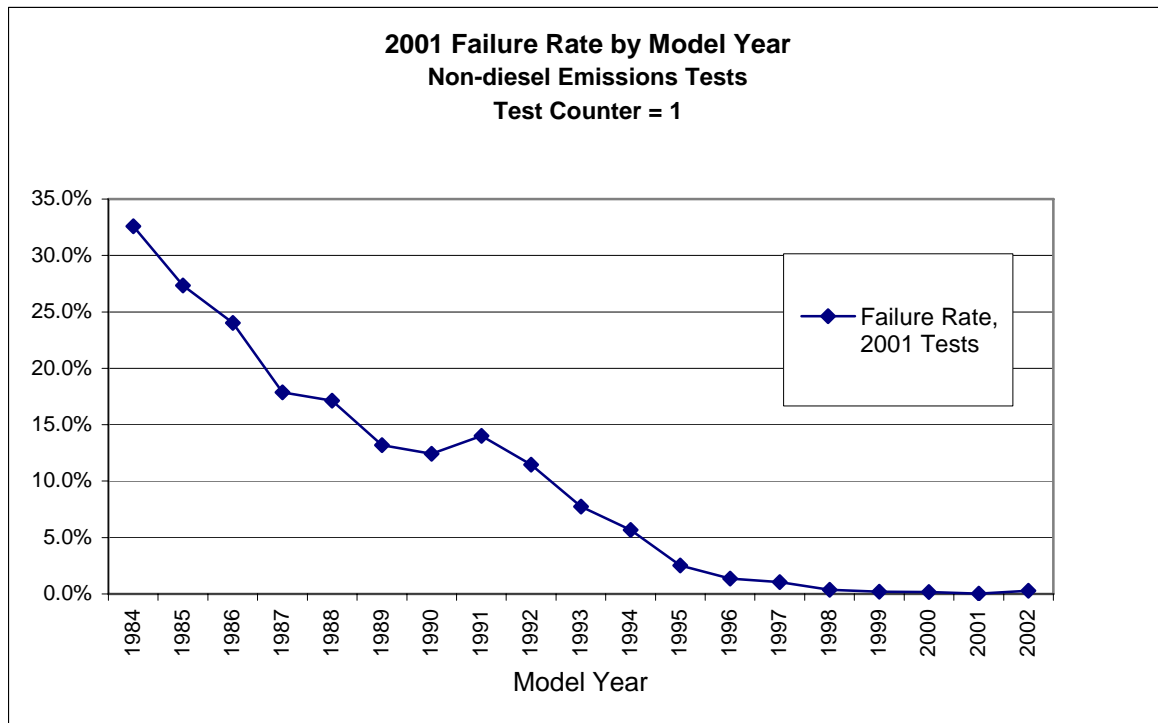
Table 4 summarizes the failure rates for tailpipe tests of emissions in Massachusetts for 2001:

Table 4: 2001 Failure Rate for Tailpipe Tests

	Initial Emissions Failure Rate ⁵
	1984-2002 Model Year Vehicles
Gasoline-Fueled Vehicles	7.0%
Diesel fueled	3.5%
All Initial Emissions Tests	6.9%

Figure 1 shows 2001 emissions failure rates by model year for gasoline-fueled vehicles. As can be seen, the age of the vehicle has a significant impact on failure rate.

Figure 1: 2001 Initial Test Failure Rate by Model Year



The Massachusetts I&M program is not designed to achieve a specific overall failure rate or a specific failure rate for any particular test or type of vehicle.

Visual Test Data

All vehicles receiving a TSI tailpipe emission inspection are also visually inspected to confirm that various emissions components, such as the catalytic converter, are present

⁵ The emissions failure rates only consider tailpipe results, and do not take into account visual or gas cap failures.

with no apparent tampering. If a vehicle fails the visual inspection, it fails the overall emissions test, even if the vehicle passed the tailpipe portion of the test.

Gas Cap Test Data

Gas caps are tested for most gasoline-fueled vehicles. If a vehicle fails the gas cap test, it fails the overall emissions test, even if the vehicle passed the tailpipe portion of the test.

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Attachment A: Index of Report Pages Relevant to EPA Regulation Sections

Massachusetts Enhanced Inspection and Maintenance Program

December 2005

Rules

40 CFR 51.366 (a) (1), (2) & (5) Attachment B
40 CFR 51.366 (a) (3), (4) Attachment C
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40 CFR 51.366 (b) (2) (iii) & (iv)..... 10
40 CFR 51.366 (b) (2) (v)..... 12
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COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Attachment B: Detailed 2001 Emissions Test Data

Massachusetts Enhanced Inspection and Maintenance Program

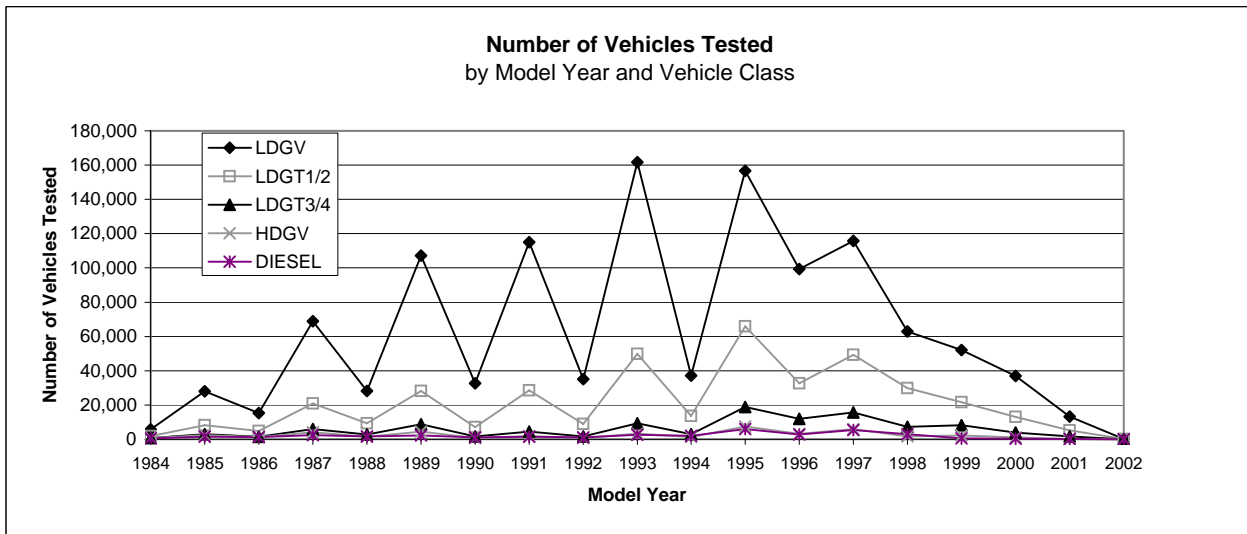
December 2005

2001 Massachusetts I&M Program Test Data

51.366 (a)(1) The number of vehicles tested by model year and vehicle type

This is a count of unique VINs receiving an emissions test in 2001

MODEL YEAR	GASOLINE				GASOLINE TOTAL	DIESEL	TOTAL
	LDGV	LDGT1/2	LDGT3/4	HDGV			
1984	5,729	1,846	749	670	8,994	581	9,575
1985	27,975	8,154	3,062	2,418	41,609	1,567	43,176
1986	15,305	4,908	1,510	1,290	23,013	1,304	24,317
1987	68,941	20,967	6,027	4,056	99,991	2,510	102,501
1988	28,160	9,365	2,710	1,454	41,689	1,728	43,417
1989	107,153	28,210	8,815	4,488	148,666	2,251	150,917
1990	32,643	7,029	1,710	728	42,110	1,091	43,201
1991	115,058	28,562	4,540	1,894	150,054	1,549	151,603
1992	35,093	9,018	1,645	702	46,458	1,110	47,568
1993	161,708	49,816	9,251	3,385	224,160	2,532	226,692
1994	37,231	13,718	2,999	1,250	55,198	2,119	57,317
1995	156,591	65,883	18,796	7,483	248,753	6,029	254,782
1996	99,424	32,753	11,964	3,128	147,269	2,753	150,022
1997	115,759	49,208	15,615	5,964	186,546	5,367	191,913
1998	62,943	29,797	7,331	1,764	101,835	3,046	104,881
1999	52,053	21,572	8,189	2,219	84,033	551	84,584
2000	36,925	13,089	3,971	1,150	55,135	418	55,553
2001	13,304	5,173	1,706	271	20,454	152	20,606
2002	177	160	30	4	371	15	386
TOTAL	1,172,172	399,228	110,620	44,318	1,726,338	36,673	1,763,011



LDGV = Non-diesel fueled passenger cars <= 6,000 lbs. GVWR

LDGT1/2 = Non-diesel fueled trucks, motorhomes, and others <= 6,000 lbs. GVWR

LDGT3/4 = Non-diesel fueled trucks, motorhomes, and others > 6,000 and <= 8,500 lbs. GVWR

HDGV = Non-diesel fueled vehicles > 8,500 lbs. GVWR

DIESEL= Diesel fueled vehicles >10,000 lbs. GVWR

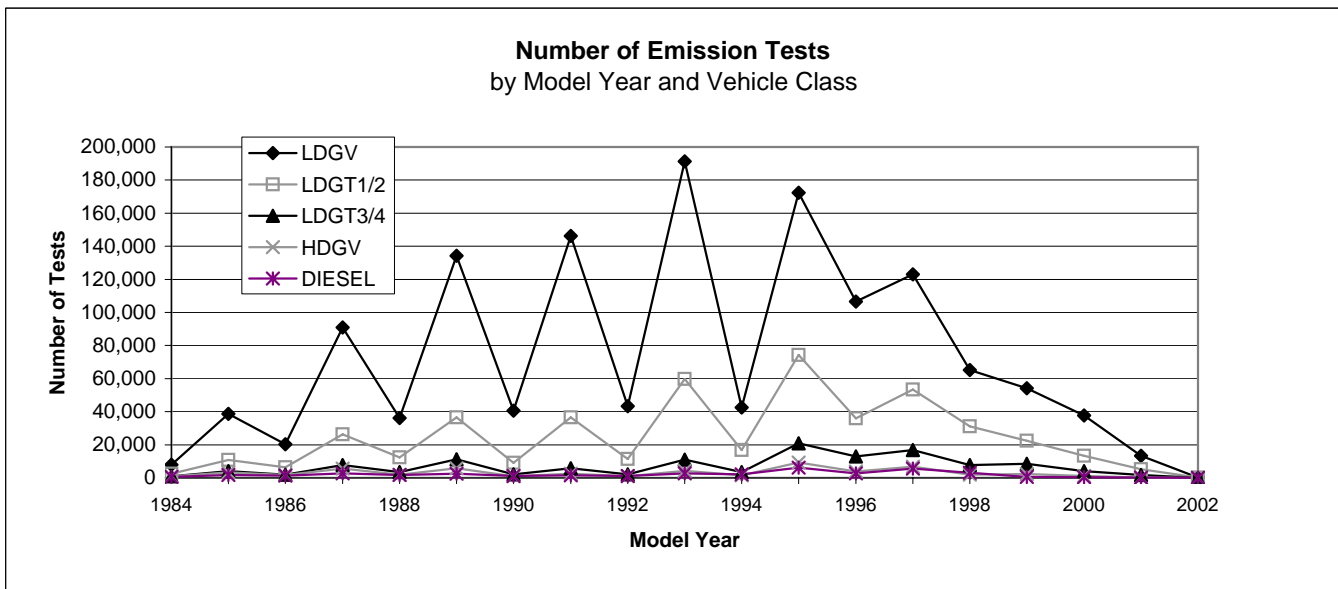
2001 Massachusetts I&M Program Test Data

51.366 (a)(1) The number of vehicles tested by model year and vehicle type

Number of Tests

This is a count of emissions tests performed in 2001

MODEL YEAR	GASOLINE				GASOLINE TOTAL	DIESEL	TOTAL
	LDGV	LDGT1/2	LDGT3/4	HDGV			
1984	7,979	2,462	1,009	933	12,383	599	12,982
1985	38,629	10,797	4,130	3,372	56,928	1,698	58,626
1986	20,382	6,409	2,007	1,734	30,532	1,342	31,874
1987	90,921	26,266	7,691	5,522	130,400	2,700	133,100
1988	36,210	12,398	3,467	1,878	53,953	1,767	55,720
1989	134,197	36,545	11,204	5,736	187,682	2,430	190,112
1990	40,605	9,124	2,111	895	52,735	1,115	53,850
1991	146,224	36,566	5,712	2,471	190,973	1,620	192,593
1992	43,397	11,476	2,085	916	57,874	1,125	58,999
1993	191,276	59,799	11,029	4,285	266,389	2,645	269,034
1994	42,625	16,864	3,440	1,611	64,540	2,165	66,705
1995	172,375	74,370	20,967	9,255	276,967	6,236	283,203
1996	106,605	36,004	13,036	3,847	159,492	2,785	162,277
1997	123,056	53,345	16,785	6,721	199,907	5,526	205,433
1998	65,251	31,106	7,670	1,840	105,867	3,064	108,931
1999	54,201	22,489	8,538	2,324	87,552	558	88,110
2000	37,699	13,389	4,053	1,186	56,327	422	56,749
2001	13,417	5,229	1,729	273	20,648	152	20,800
2002	178	160	31	4	373	15	388
TOTAL	1,365,227	464,798	126,694	54,803	2,011,522	37,964	2,049,486



LDGV = Non-diesel fueled passenger cars <= 6,000 lbs. GVWR

LDGT1/2 = Non-diesel fueled trucks, motorhomes, and others <= 6,000 lbs. GVWR

LDGT3/4 = Non-diesel fueled trucks, motorhomes, and others > 6,000 and <= 8,500 lbs. GVWR

HDGV = Non-diesel fueled vehicles > 8,500 lbs. GVWR

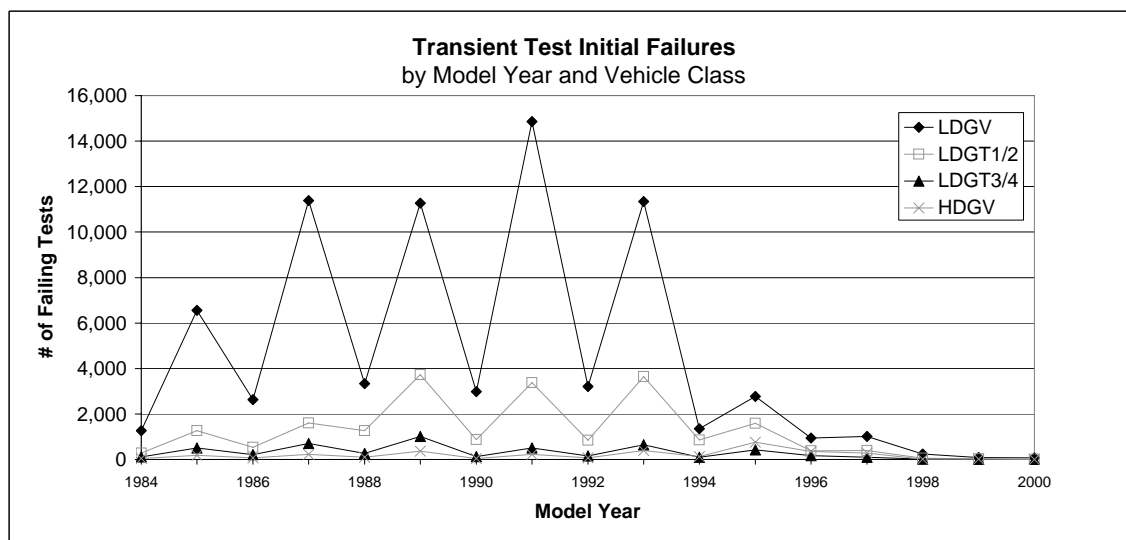
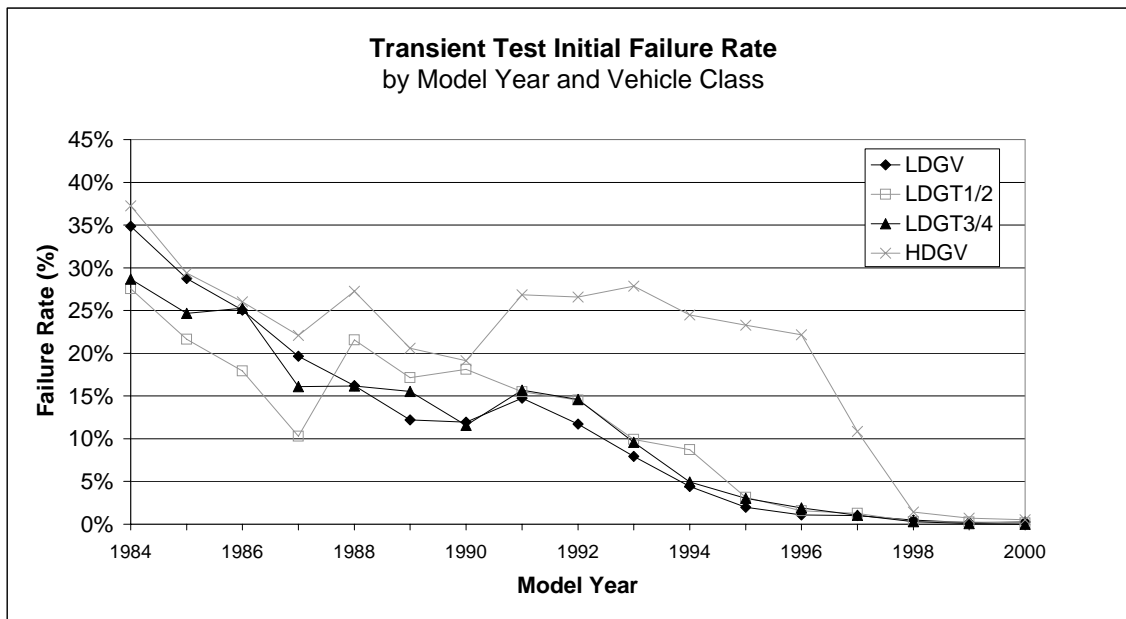
DIESEL= Diesel fueled vehicles >10,000 lbs. GVWR

2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(i) Initial Transient Tests Failing by model year and vehicle type

The transient test is for vehicles model year 1984 and newer, <=10,000 lbs. GVWR, and capable of two-wheel drive operation. Initial tests were considered those tests with Test Counter = 1.

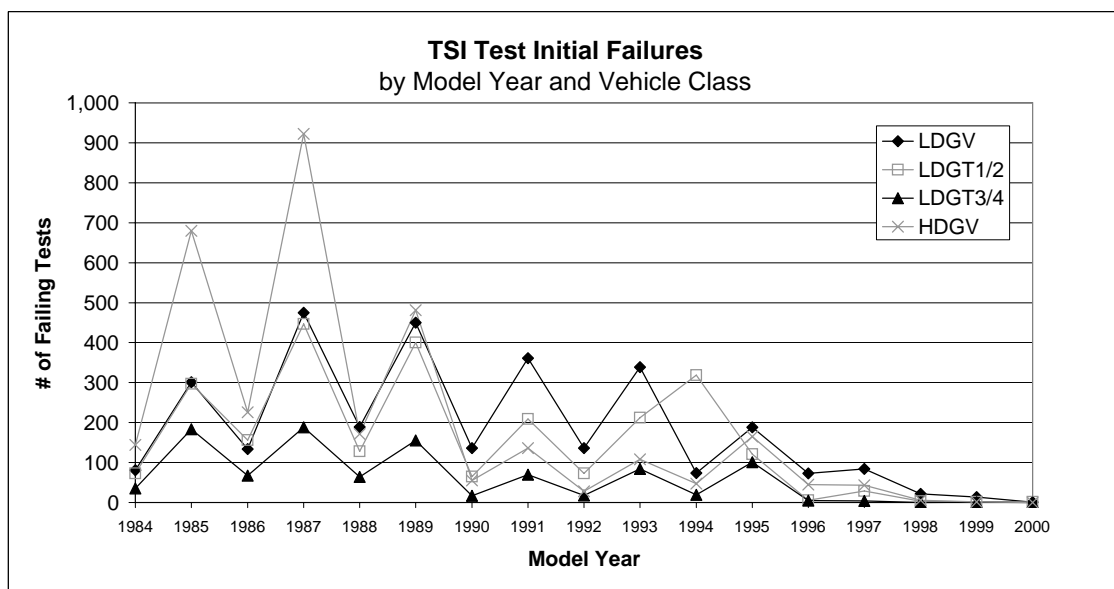
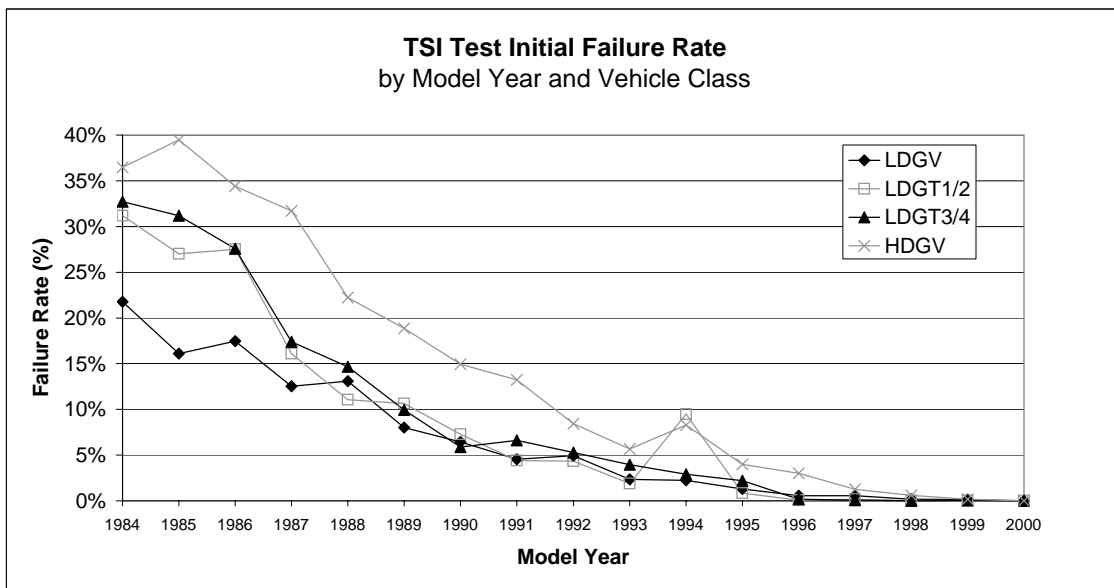
MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate
1984	1,270	3,642	34.9%	285	1,034	27.6%	107	373	28.7%	38	102	37.3%	1,700	5,151	33.0%
1985	6,560	22,813	28.8%	1,269	5,861	21.7%	511	2,071	24.7%	179	609	29.4%	8,519	31,354	27.2%
1986	2,632	10,514	25.0%	528	2,945	17.9%	215	851	25.3%	77	296	26.0%	3,452	14,606	23.6%
1987	11,384	57,956	19.6%	1,604	15,558	10.3%	705	4,384	16.1%	226	1,023	22.1%	13,919	78,921	17.6%
1988	3,340	20,610	16.2%	1,263	5,853	21.6%	266	1,643	16.2%	96	352	27.3%	4,965	28,458	17.4%
1989	11,273	92,356	12.2%	3,736	21,779	17.2%	1,017	6,552	15.5%	361	1,752	20.6%	16,387	122,439	13.4%
1990	2,990	25,011	12.0%	870	4,804	18.1%	131	1,131	11.6%	49	256	19.1%	4,040	31,202	12.9%
1991	14,863	100,686	14.8%	3,381	21,795	15.5%	512	3,263	15.7%	220	820	26.8%	18,976	126,564	15.0%
1992	3,213	27,439	11.7%	850	5,847	14.5%	156	1,068	14.6%	67	252	26.6%	4,286	34,606	12.4%
1993	11,343	142,597	8.0%	3,645	36,802	9.9%	653	6,810	9.6%	395	1,418	27.9%	16,036	187,627	8.5%
1994	1,355	30,801	4.4%	860	9,848	8.7%	103	2,088	4.9%	120	490	24.5%	2,438	43,227	5.6%
1995	2,769	139,327	2.0%	1,587	50,370	3.2%	426	14,021	3.0%	765	3,286	23.3%	5,547	207,004	2.7%
1996	941	85,405	1.1%	380	24,095	1.6%	171	8,895	1.9%	356	1,605	22.2%	1,848	120,000	1.5%
1997	1,020	100,879	1.0%	399	31,012	1.3%	105	10,043	1.0%	275	2,536	10.8%	1,799	144,470	1.2%
1998	246	49,603	0.5%	54	17,948	0.3%	14	4,520	0.3%	11	774	1.4%	325	72,845	0.4%
1999	86	41,856	0.2%	34	12,495	0.3%	4	4,658	0.1%	8	1,101	0.7%	132	60,110	0.2%
2000	76	29,797	0.3%	11	7,851	0.1%	0	1,987	0.0%	3	580	0.5%	90	40,215	0.2%
2001	2	10,204	0.0%	2	2,895	0.1%	2	909	0.2%	0	134	0.0%	6	14,142	0.0%
2002	1	105	1.0%	0	32	0.0%	0	10	0.0%	0	1	0.0%	1	148	0.7%
TOTAL	75,364	991,601	7.6%	20,758	278,824	7.4%	5,098	75,277	6.8%	3,246	17,387	18.7%	104,466	1,363,089	7.7%



2001 Massachusetts I&M Program Test Data
 51.366 (a)(2)(i) Initial TSI Tests Failing by model year and vehicle type

The two-speed idle (TSI) test is for vehicles model year 1984 and newer >10,000 lbs. GVWR and for any vehicles <=10,000 lbs. GVWR that could not be tested on the dynamometer. Initial tests were considered those tests with Test Counter = 1.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate
1984	81	372	21.8%	73	234	31.2%	35	107	32.7%	144	395	36.5%	333	1,108	30.1%
1985	301	1,871	16.1%	297	1,100	27.0%	183	587	31.2%	680	1,722	39.5%	1,461	5,280	27.7%
1986	134	768	17.4%	156	567	27.5%	67	243	27.6%	226	657	34.4%	583	2,235	26.1%
1987	475	3,794	12.5%	447	2,775	16.1%	188	1,080	17.4%	922	2,907	31.7%	2,032	10,556	19.2%
1988	189	1,444	13.1%	128	1,158	11.1%	64	436	14.7%	171	769	22.2%	552	3,807	14.5%
1989	450	5,612	8.0%	400	3,762	10.6%	155	1,559	9.9%	481	2,552	18.8%	1,486	13,485	11.0%
1990	136	2,115	6.4%	65	893	7.3%	17	290	5.9%	55	368	14.9%	273	3,666	7.4%
1991	361	7,907	4.6%	209	4,747	4.4%	70	1,058	6.6%	136	1,029	13.2%	776	14,741	5.3%
1992	136	2,747	5.0%	73	1,682	4.3%	18	341	5.3%	28	332	8.4%	255	5,102	5.0%
1993	339	14,437	2.3%	212	11,133	1.9%	84	2,116	4.0%	108	1,900	5.7%	743	29,586	2.5%
1994	74	3,290	2.2%	319	3,362	9.5%	19	654	2.9%	47	567	8.3%	459	7,873	5.8%
1995	188	14,672	1.3%	121	14,380	0.8%	101	4,608	2.2%	165	4,137	4.0%	575	37,797	1.5%
1996	73	12,914	0.6%	6	8,154	0.1%	5	3,086	0.2%	45	1,491	3.0%	129	25,645	0.5%
1997	84	14,843	0.6%	29	18,362	0.2%	4	5,641	0.1%	43	3,413	1.3%	160	42,259	0.4%
1998	22	13,167	0.2%	3	11,834	0.0%	0	2,830	0.0%	6	982	0.6%	31	28,813	0.1%
1999	14	10,664	0.1%	2	9,321	0.0%	1	3,636	0.0%	2	1,140	0.2%	19	24,761	0.1%
2000	1	7,354	0.0%	2	5,311	0.0%	0	2,019	0.0%	0	587	0.0%	3	15,271	0.0%
2001	0	3,146	0.0%	0	2,301	0.0%	0	802	0.0%	0	139	0.0%	0	6,388	0.0%
2002	0	72	0.0%	0	128	0.0%	0	20	0.0%	0	3	0.0%	0	223	0.0%
TOTAL	3,058	121,189	2.5%	2,542	101,204	2.5%	1,011	31,113	3.2%	3,259	25,090	13.0%	9,870	278,596	3.5%

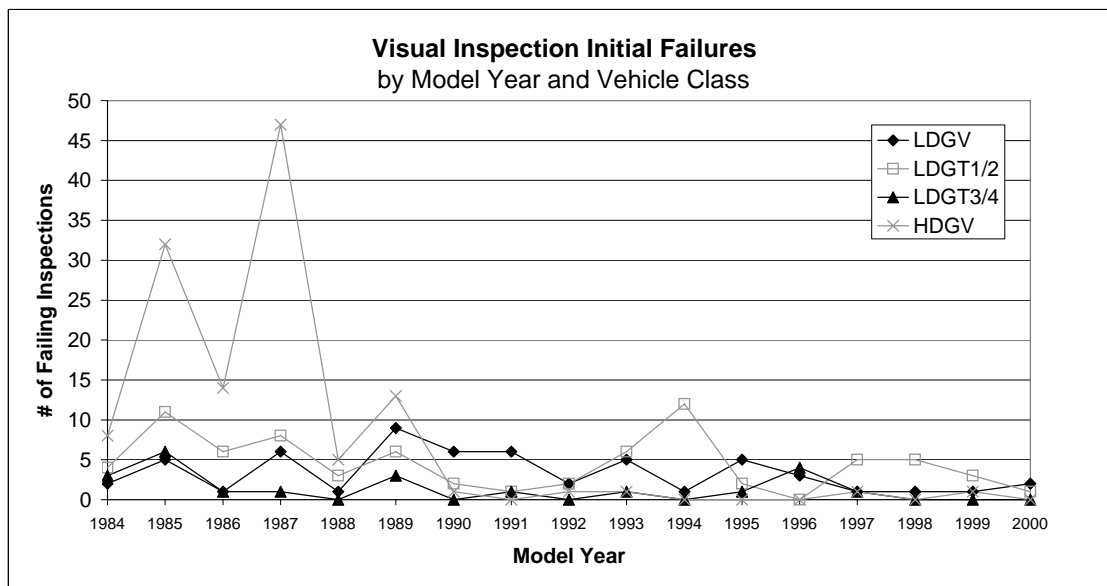
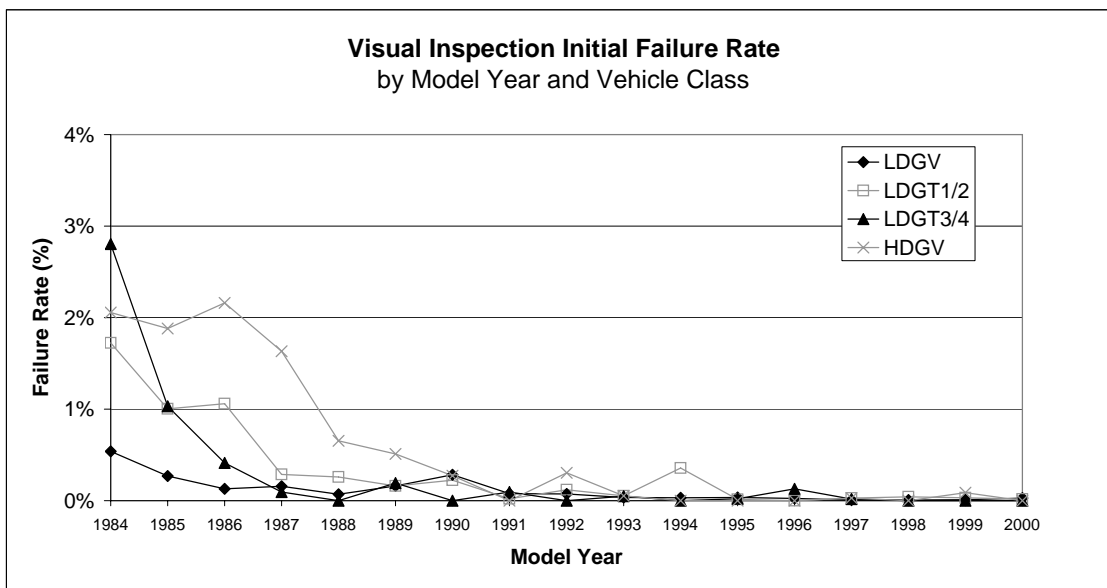


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(i) Initial Visual Inspection Failing by model year and vehicle type

The Visual Inspection is performed on a vehicle any time there is a Two-Speed Idle (TSI) test. The Visual Inspections checks for that key emission control equipment is present and there are no signs of tampering. The Visual Inspection includes checks for catalyst, PCV valve, EGR system, and air pump or air injection systems. Initial tests were considered those tests with Test Counter = 1.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate
1984	2	371	0.5%	4	232	1.7%	3	107	2.8%	8	389	2.1%	17	1,099	1.5%
1985	5	1,869	0.3%	11	1,097	1.0%	6	582	1.0%	32	1,700	1.9%	54	5,248	1.0%
1986	1	767	0.1%	6	567	1.1%	1	242	0.4%	14	648	2.2%	22	2,224	1.0%
1987	6	3,792	0.2%	8	2,774	0.3%	1	1,078	0.1%	47	2,877	1.6%	62	10,521	0.6%
1988	1	1,443	0.1%	3	1,157	0.3%	0	435	0.0%	5	765	0.7%	9	3,800	0.2%
1989	9	5,610	0.2%	6	3,758	0.2%	3	1,559	0.2%	13	2,539	0.5%	31	13,466	0.2%
1990	6	2,112	0.3%	2	893	0.2%	0	290	0.0%	1	365	0.3%	9	3,660	0.2%
1991	6	7,904	0.1%	1	4,743	0.0%	1	1,057	0.1%	0	1,017	0.0%	8	14,721	0.1%
1992	2	2,745	0.1%	2	1,680	0.1%	0	341	0.0%	1	327	0.3%	5	5,093	0.1%
1993	5	14,424	0.0%	6	11,124	0.1%	1	2,116	0.0%	1	1,883	0.1%	13	29,547	0.0%
1994	1	3,289	0.0%	12	3,355	0.4%	0	654	0.0%	0	561	0.0%	13	7,859	0.2%
1995	5	14,668	0.0%	2	14,371	0.0%	1	4,606	0.0%	0	4,098	0.0%	8	37,743	0.0%
1996	3	12,908	0.0%	0	8,147	0.0%	4	3,081	0.1%	0	1,483	0.0%	7	25,619	0.0%
1997	1	14,836	0.0%	5	18,349	0.0%	1	5,625	0.0%	1	3,399	0.0%	8	42,209	0.0%
1998	1	13,164	0.0%	5	11,822	0.0%	0	2,826	0.0%	0	974	0.0%	6	28,786	0.0%
1999	1	10,653	0.0%	3	9,310	0.0%	0	3,631	0.0%	1	1,140	0.1%	5	24,734	0.0%
2000	2	7,350	0.0%	1	5,310	0.0%	0	2,016	0.0%	0	587	0.0%	3	15,263	0.0%
2001	0	3,144	0.0%	0	2,298	0.0%	0	802	0.0%	0	139	0.0%	0	6,383	0.0%
2002	0	72	0.0%	0	128	0.0%	0	20	0.0%	0	3	0.0%	0	223	0.0%
TOTAL	57	121,121	0.0%	77	101,115	0.1%	22	31,068	0.1%	124	24,894	0.5%	280	278,198	0.1%

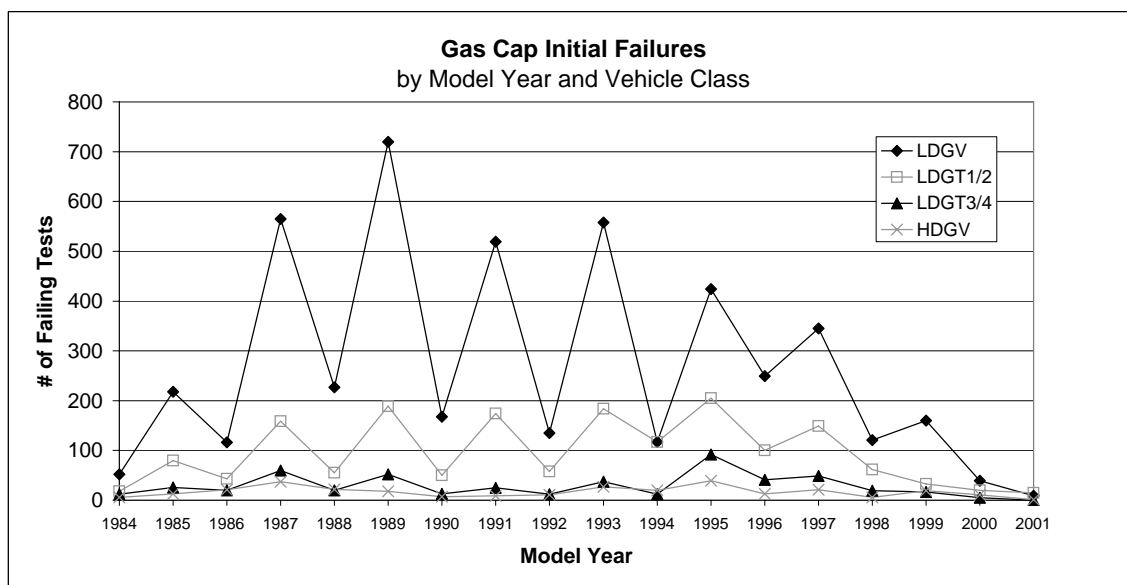
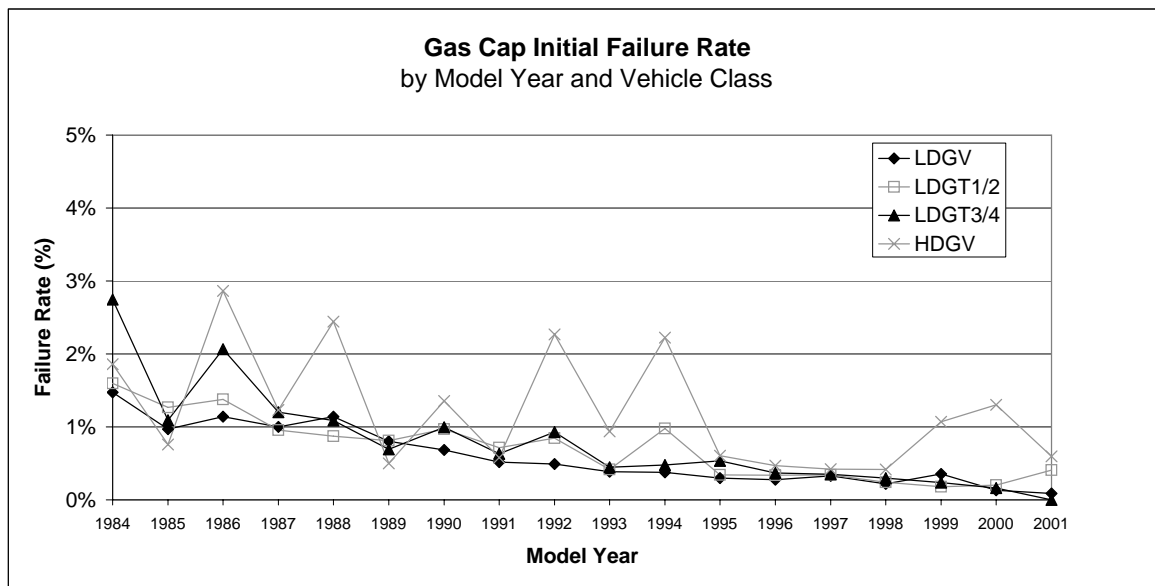


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(i) Initial Gas Cap Tests Failing by model year and vehicle type

The gas cap functional test is performed on all vehicles receiving an emissions test that have gas caps compatible with the 10 different style gas cap adaptors in the I&M program. The gas cap fails if it leaks more than 60 cubic centimeters per minute (cc/min) at a pressure of 30 inches of water. Initial tests were considered those tests with Test Counter = 1.

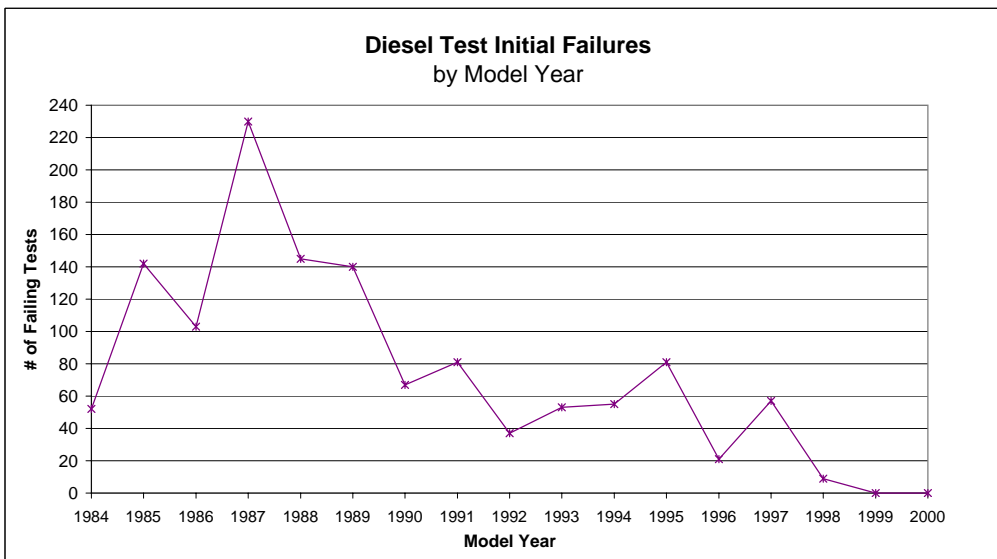
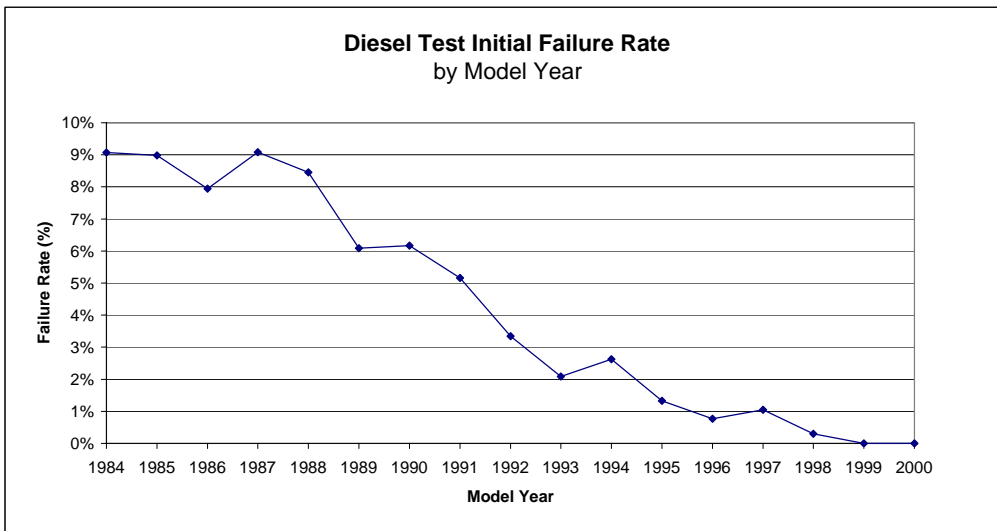
MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate
1984	52	3,532	1.5%	18	1,126	1.6%	12	437	2.7%	6	323	1.9%	88	5,418	1.6%
1985	218	22,457	1.0%	80	6,304	1.3%	26	2,376	1.1%	13	1,709	0.8%	337	32,846	1.0%
1986	116	10,177	1.1%	43	3,126	1.4%	20	969	2.1%	21	733	2.9%	200	15,005	1.3%
1987	565	56,486	1.0%	159	16,612	1.0%	60	4,992	1.2%	37	3,004	1.2%	821	81,094	1.0%
1988	227	19,892	1.1%	55	6,316	0.9%	20	1,842	1.1%	22	901	2.4%	324	28,951	1.1%
1989	720	89,659	0.8%	189	23,288	0.8%	52	7,486	0.7%	18	3,606	0.5%	979	124,039	0.8%
1990	168	24,519	0.7%	50	5,168	1.0%	13	1,307	1.0%	7	516	1.4%	238	31,510	0.8%
1991	519	99,971	0.5%	174	24,360	0.7%	25	3,972	0.6%	9	1,558	0.6%	727	129,861	0.6%
1992	135	27,579	0.5%	58	6,838	0.8%	12	1,293	0.9%	11	485	2.3%	216	36,195	0.6%
1993	558	144,879	0.4%	184	44,029	0.4%	37	8,242	0.4%	27	2,872	0.9%	806	200,022	0.4%
1994	117	31,091	0.4%	117	11,971	1.0%	12	2,516	0.5%	20	900	2.2%	266	46,478	0.6%
1995	424	142,142	0.3%	205	59,577	0.3%	92	17,213	0.5%	39	6,442	0.6%	760	225,374	0.3%
1996	249	90,655	0.3%	100	29,615	0.3%	41	11,087	0.4%	13	2,771	0.5%	403	134,128	0.3%
1997	345	105,476	0.3%	149	43,798	0.3%	49	13,895	0.4%	21	5,008	0.4%	564	168,177	0.3%
1998	121	55,322	0.2%	62	25,871	0.2%	19	6,396	0.3%	6	1,436	0.4%	208	89,025	0.2%
1999	160	45,245	0.4%	33	18,242	0.2%	17	7,127	0.2%	19	1,774	1.1%	229	72,388	0.3%
2000	39	29,269	0.1%	20	9,939	0.2%	5	3,064	0.2%	11	845	1.3%	75	43,117	0.2%
2001	9	10,473	0.1%	15	3,679	0.4%	0	1,171	0.0%	1	168	0.6%	25	15,491	0.2%
2002	0	143	0.0%	0	98	0.0%	1	25	4.0%	3	4	75.0%	4	270	1.5%
TOTAL	4,742	1,008,967	0.5%	1,711	339,957	0.5%	513	95,410	0.5%	304	35,055	0.9%	7,270	1,479,389	0.5%



2001 Massachusetts I&M Program Test Data
51.366 (a)(2)(i) Initial Diesel Tests Failing by Model Year

The diesel test is for diesel fueled vehicles with model years >1983 and >10,000 lbs. GVWR. Initial tests were considered those tests with Test Counter = 1.

MODEL YEAR	TOTAL INITIAL DIESEL		
	Failed	Tested	Fail Rate
1984	52	573	9.1%
1985	142	1,581	9.0%
1986	103	1,297	7.9%
1987	230	2,532	9.1%
1988	145	1,715	8.5%
1989	140	2,299	6.1%
1990	67	1,086	6.2%
1991	81	1,569	5.2%
1992	37	1,106	3.3%
1993	53	2,544	2.1%
1994	55	2,099	2.6%
1995	81	6,084	1.3%
1996	21	2,744	0.8%
1997	57	5,420	1.1%
1998	9	3,030	0.3%
1999	0	552	0.0%
2000	0	417	0.0%
2001	0	152	0.0%
2002	0	15	0.0%
TOTAL	1,273	36,815	3.5%

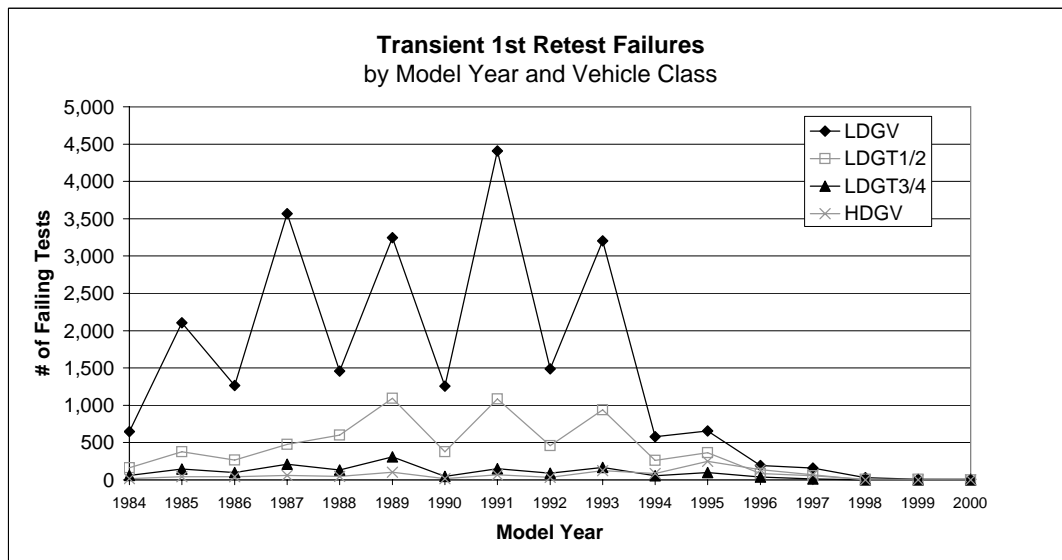
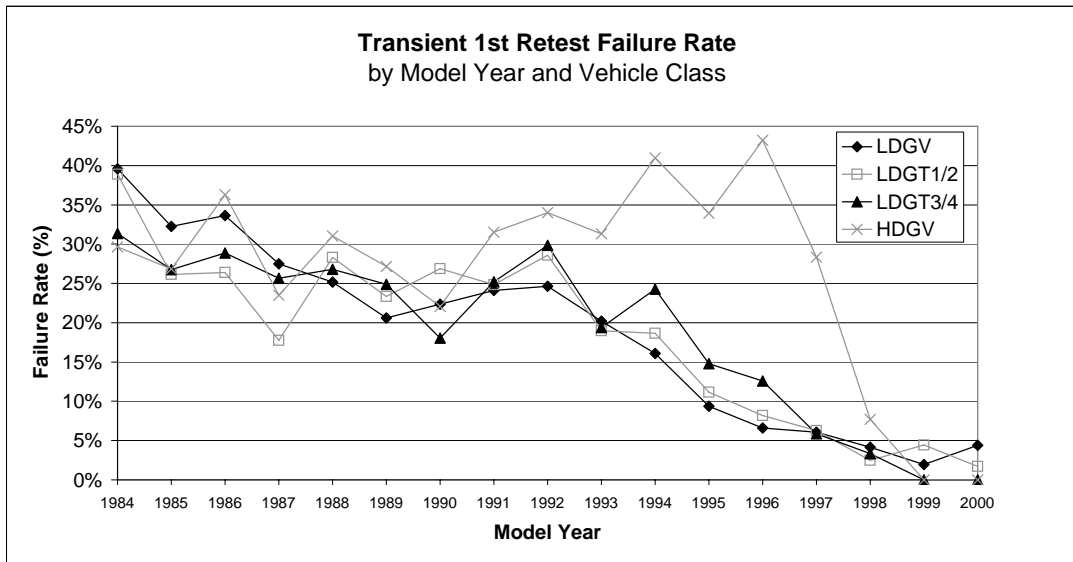


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(ii) Transient 1st Retests Failing by model year and vehicle type

Any vehicles receiving a transient test with test counter = 2 were considered 1st transient retests. This would include those vehicles that failed the initial test (test counter = 1) for a safety item that made the vehicle unsafe to test on the dynamometer. This is why there are more transient 1st retests than initial transient failures.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate
1984	646	1,632	39.6%	161	414	38.9%	58	185	31.4%	16	54	29.6%	881	2,285	38.6%
1985	2,106	6,526	32.3%	377	1,441	26.2%	146	546	26.7%	44	164	26.8%	2,673	8,677	30.8%
1986	1,264	3,756	33.7%	268	1,015	26.4%	99	343	28.9%	41	113	36.3%	1,672	5,227	32.0%
1987	3,569	12,983	27.5%	475	2,674	17.8%	210	819	25.6%	62	264	23.5%	4,316	16,740	25.8%
1988	1,456	5,784	25.2%	602	2,126	28.3%	135	504	26.8%	49	158	31.0%	2,242	8,572	26.2%
1989	3,248	15,759	20.6%	1,095	4,689	23.4%	307	1,233	24.9%	101	372	27.2%	4,751	22,053	21.5%
1990	1,255	5,612	22.4%	378	1,406	26.9%	46	255	18.0%	17	77	22.1%	1,696	7,350	23.1%
1991	4,408	18,289	24.1%	1,087	4,373	24.9%	149	591	25.2%	69	219	31.5%	5,713	23,472	24.3%
1992	1,486	6,027	24.7%	458	1,603	28.6%	88	295	29.8%	34	100	34.0%	2,066	8,025	25.7%
1993	3,203	15,864	20.2%	937	4,942	19.0%	167	862	19.4%	124	396	31.3%	4,431	22,064	20.1%
1994	581	3,613	16.1%	262	1,404	18.7%	57	235	24.3%	86	210	41.0%	986	5,462	18.1%
1995	658	7,038	9.3%	366	3,282	11.2%	99	670	14.8%	247	728	33.9%	1,370	11,718	11.7%
1996	192	2,917	6.6%	84	1,026	8.2%	37	294	12.6%	137	317	43.2%	450	4,554	9.9%
1997	159	2,625	6.1%	56	895	6.3%	14	238	5.9%	70	247	28.3%	299	4,005	7.5%
1998	32	771	4.2%	7	282	2.5%	2	60	3.3%	1	13	7.7%	42	1,126	3.7%
1999	10	514	1.9%	7	157	4.5%	0	34	0.0%	0	16	0.0%	17	721	2.4%
2000	8	182	4.4%	1	58	1.7%	0	10	0.0%	0	5	0.0%	9	255	3.5%
2001	0	10	0.0%	0	1	0.0%	1	3	33.3%	0	0	NA	1	14	7.1%
2002	1	1	100.0%	0	0	NA	0	0	NA	0	0	NA	1	1	100.0%
TOTAL	24,282	109,903	22.1%	6,621	31,788	20.8%	1,615	7,177	22.5%	1,098	3,453	31.8%	33,616	152,321	22.1%

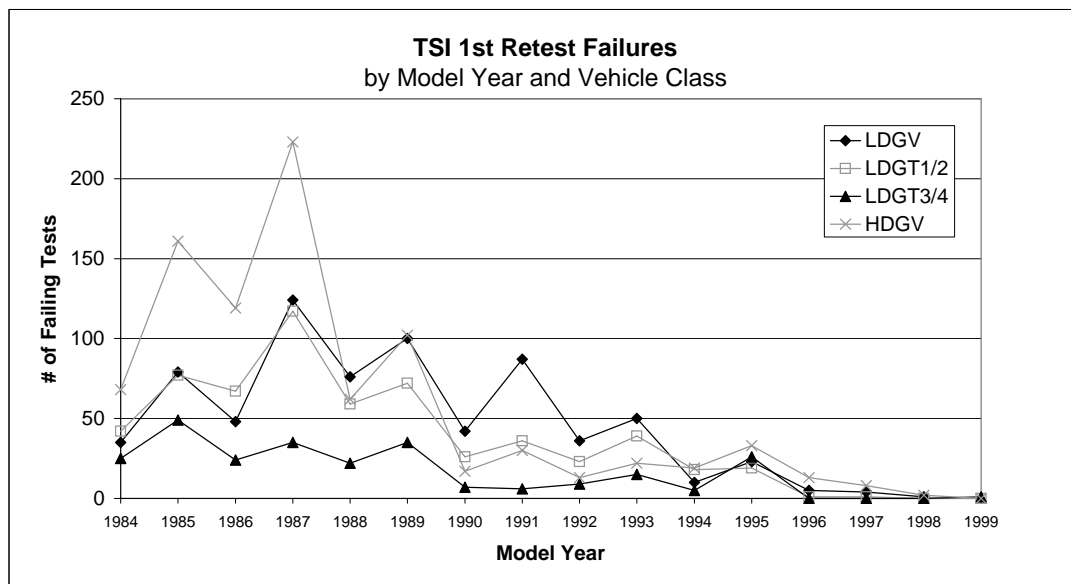
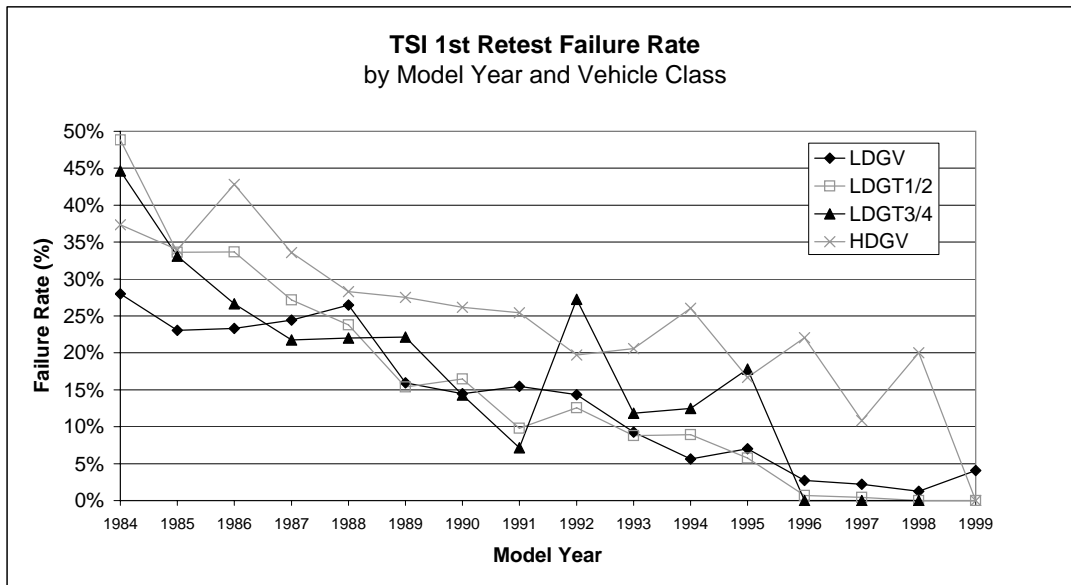


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(ii) TSI 1st Retests Failing by model year and vehicle type

Any vehicles receiving a TSI test with test counter = 2 were considered 1st TSI retests.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate
1984	35	125	28.0%	42	86	48.8%	25	56	44.6%	68	182	37.4%	170	449	37.9%
1985	79	343	23.0%	77	229	33.6%	49	148	33.1%	161	474	34.0%	366	1,194	30.7%
1986	48	206	23.3%	67	199	33.7%	24	90	26.7%	119	278	42.8%	258	773	33.4%
1987	124	507	24.5%	117	431	27.1%	35	161	21.7%	223	664	33.6%	499	1,763	28.3%
1988	76	287	26.5%	59	248	23.8%	22	100	22.0%	62	219	28.3%	219	854	25.6%
1989	100	627	15.9%	72	468	15.4%	35	158	22.2%	102	371	27.5%	309	1,624	19.0%
1990	42	290	14.5%	26	158	16.5%	7	49	14.3%	17	65	26.2%	92	562	16.4%
1991	87	562	15.5%	36	368	9.8%	6	84	7.1%	30	118	25.4%	159	1,132	14.0%
1992	36	251	14.3%	23	183	12.6%	9	33	27.3%	13	66	19.7%	81	533	15.2%
1993	50	540	9.3%	39	444	8.8%	15	127	11.8%	22	107	20.6%	126	1,218	10.3%
1994	10	177	5.6%	18	202	8.9%	5	40	12.5%	19	73	26.0%	52	492	10.6%
1995	23	328	7.0%	19	330	5.8%	26	146	17.8%	33	198	16.7%	101	1,002	10.1%
1996	5	184	2.7%	1	147	0.7%	0	45	0.0%	13	59	22.0%	19	435	4.4%
1997	4	180	2.2%	1	224	0.4%	0	69	0.0%	8	74	10.8%	13	547	2.4%
1998	1	79	1.3%	0	62	0.0%	0	16	0.0%	2	10	20.0%	3	167	1.8%
1999	2	49	4.1%	0	33	0.0%	1	20	5.0%	0	6	0.0%	3	108	2.8%
2000	0	10	0.0%	0	6	0.0%	0	2	0.0%	0	0	NA	0	18	0.0%
2001	0	0	NA	0	3	0.0%	0	1	0.0%	0	0	NA	0	4	0.0%
2002	0	0	NA	0	0	NA	0	0	NA	0	0	NA	0	0	NA
TOTAL	722	4,745	15.2%	597	3,821	15.6%	259	1,345	19.3%	892	2,964	30.1%	2,470	12,875	19.2%

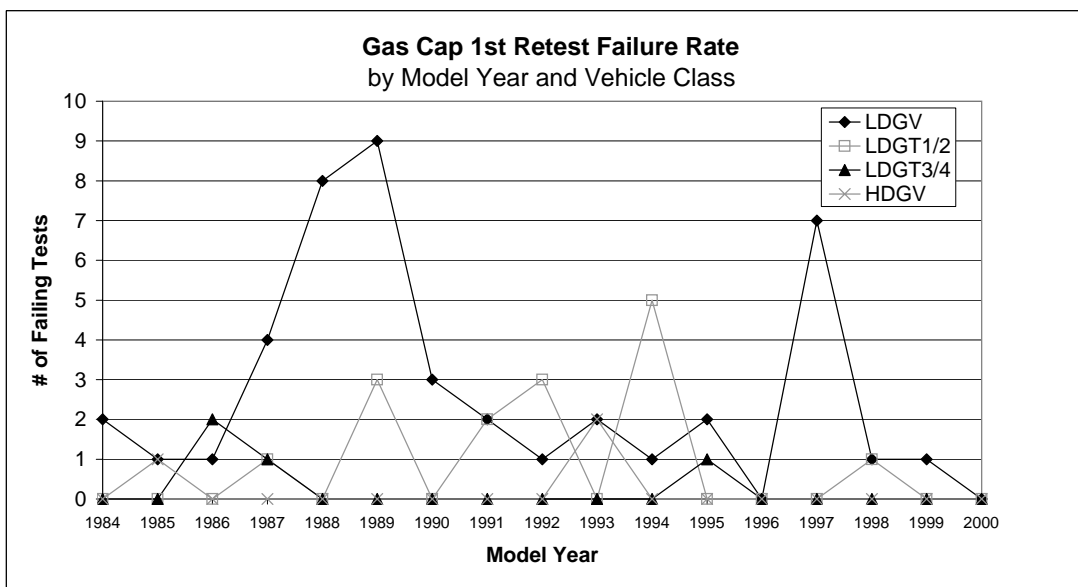
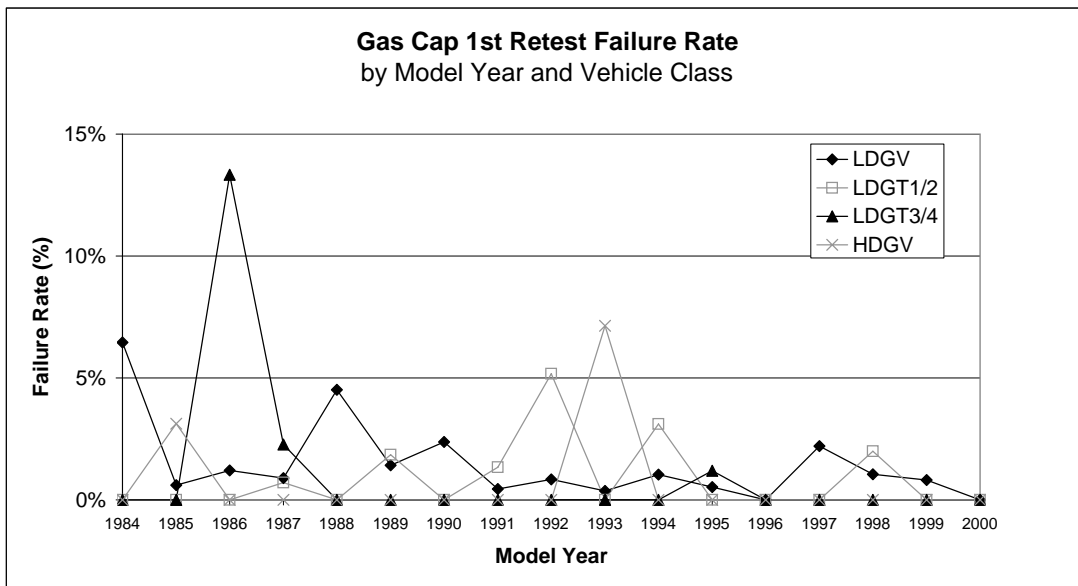


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(ii) Gas Cap 1st Retests Failing by model year and vehicle type

Any vehicles receiving a Gas Cap test with test counter = 2 were considered 1st Gas Cap retests.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate	Failed	Tested	Fail Rate
1984	2	31	6.5%	0	10	0.0%	0	7	0.0%	0	8	0.0%	2	56	3.6%
1985	1	164	0.6%	0	64	0.0%	0	20	0.0%	1	32	3.1%	2	280	0.7%
1986	1	83	1.2%	0	31	0.0%	2	15	13.3%	0	12	0.0%	3	141	2.1%
1987	4	445	0.9%	1	140	0.7%	1	44	2.3%	0	56	0.0%	6	685	0.9%
1988	8	177	4.5%	0	40	0.0%	0	14	0.0%	0	13	0.0%	8	244	3.3%
1989	9	633	1.4%	3	162	1.9%	0	45	0.0%	0	34	0.0%	12	874	1.4%
1990	3	126	2.4%	0	36	0.0%	0	12	0.0%	0	3	0.0%	3	177	1.7%
1991	2	446	0.4%	2	149	1.3%	0	23	0.0%	0	13	0.0%	4	631	0.6%
1992	1	119	0.8%	3	58	5.2%	0	9	0.0%	0	3	0.0%	4	189	2.1%
1993	2	538	0.4%	0	159	0.0%	0	33	0.0%	2	28	7.1%	4	758	0.5%
1994	1	96	1.0%	5	161	3.1%	0	10	0.0%	0	8	0.0%	6	275	2.2%
1995	2	385	0.5%	0	191	0.0%	1	84	1.2%	0	55	0.0%	3	715	0.4%
1996	0	210	0.0%	0	79	0.0%	0	32	0.0%	0	15	0.0%	0	336	0.0%
1997	7	317	2.2%	0	158	0.0%	0	40	0.0%	0	24	0.0%	7	539	1.3%
1998	1	95	1.1%	1	50	2.0%	0	16	0.0%	0	5	0.0%	2	166	1.2%
1999	1	123	0.8%	0	25	0.0%	0	14	0.0%	0	5	0.0%	1	167	0.6%
2000	0	26	0.0%	0	16	0.0%	0	1	0.0%	0	1	0.0%	0	44	0.0%
2001	0	5	0.0%	0	13	0.0%	0	0	NA	0	0	NA	0	18	0.0%
2002	0	0	NA	0	0	NA	0	0	NA	0	0	NA	0	0	NA
TOTAL	45	4,019	1.1%	15	1,542	1.0%	4	419	1.0%	3	315	1.0%	67	6,295	1.1%

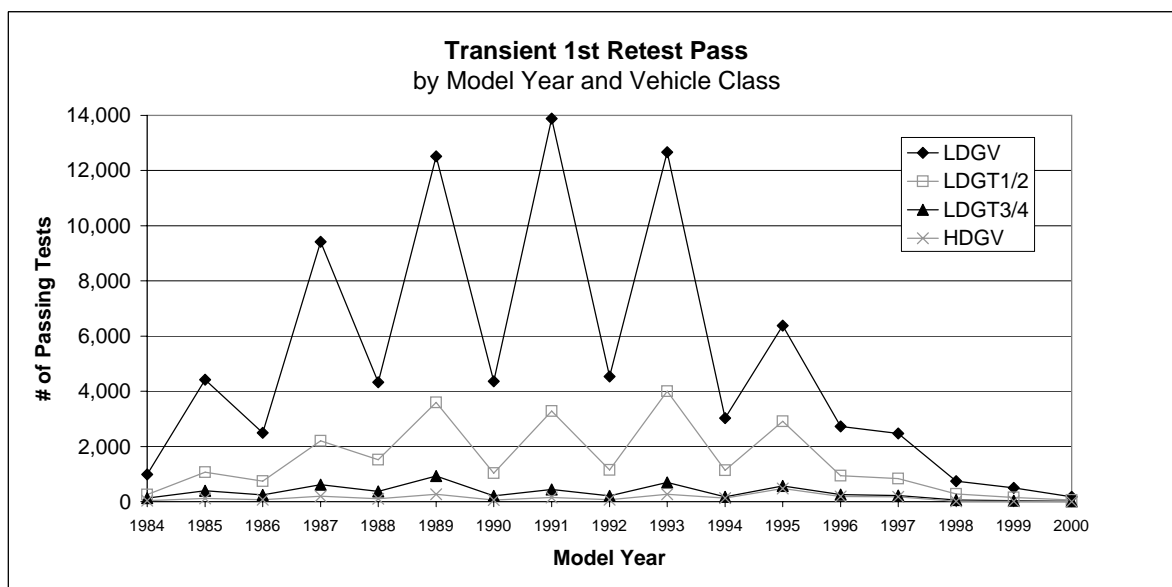
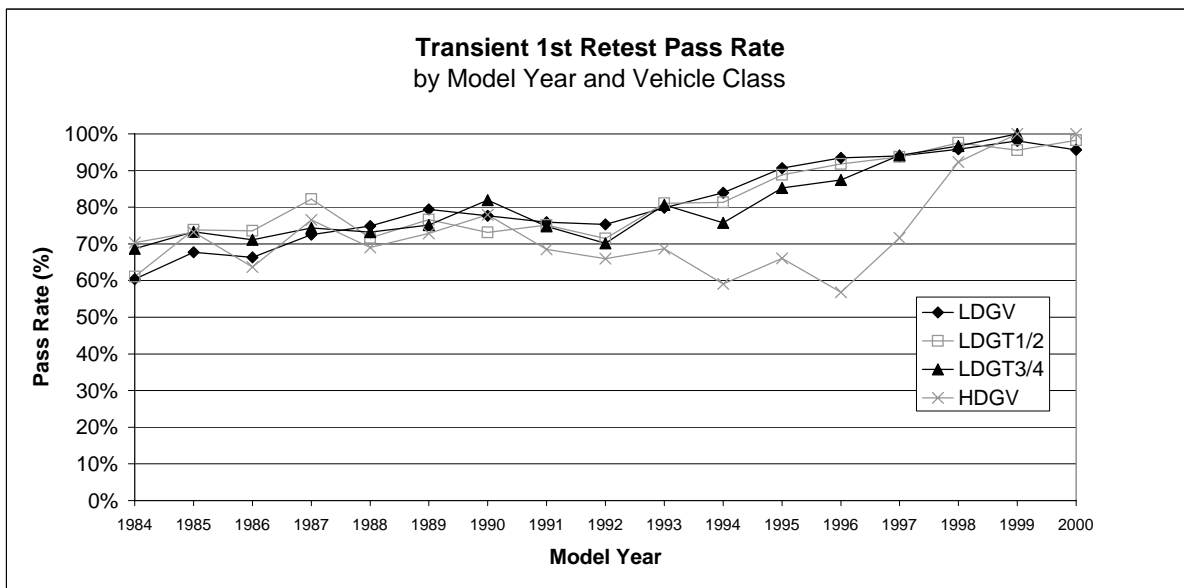


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(iii) Transient 1st Retests Passing by model year and vehicle type

Any vehicles receiving a transient test with test counter = 2 were considered 1st transient retests. This would include those vehicles that failed the initial test (test counter = 1) for a safety item that made the vehicle unsafe to test on the dynamometer. This is why there are more transient 1st retests than initial transient failures.

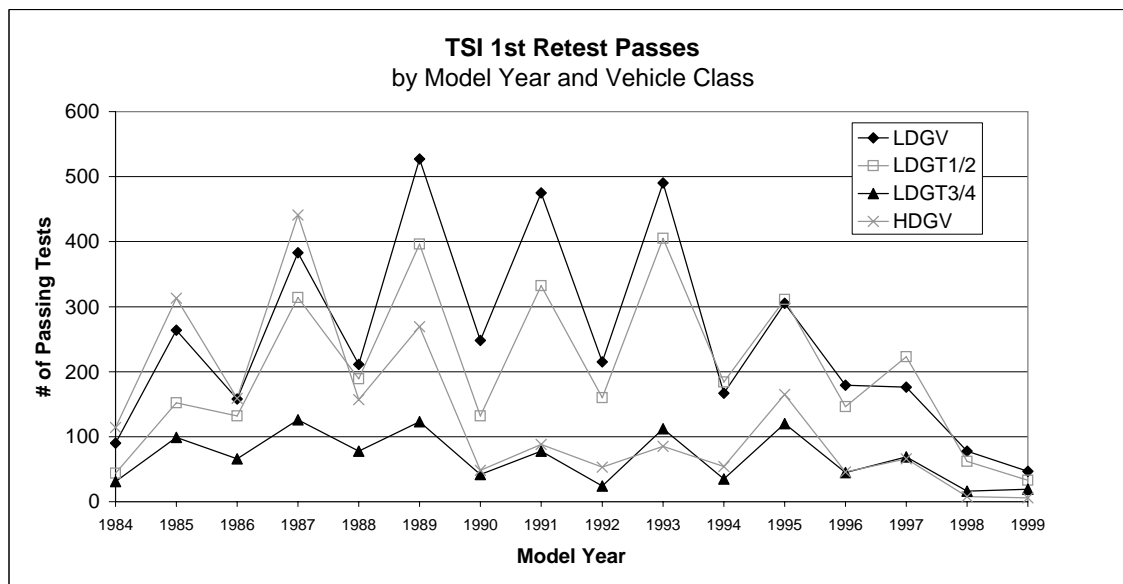
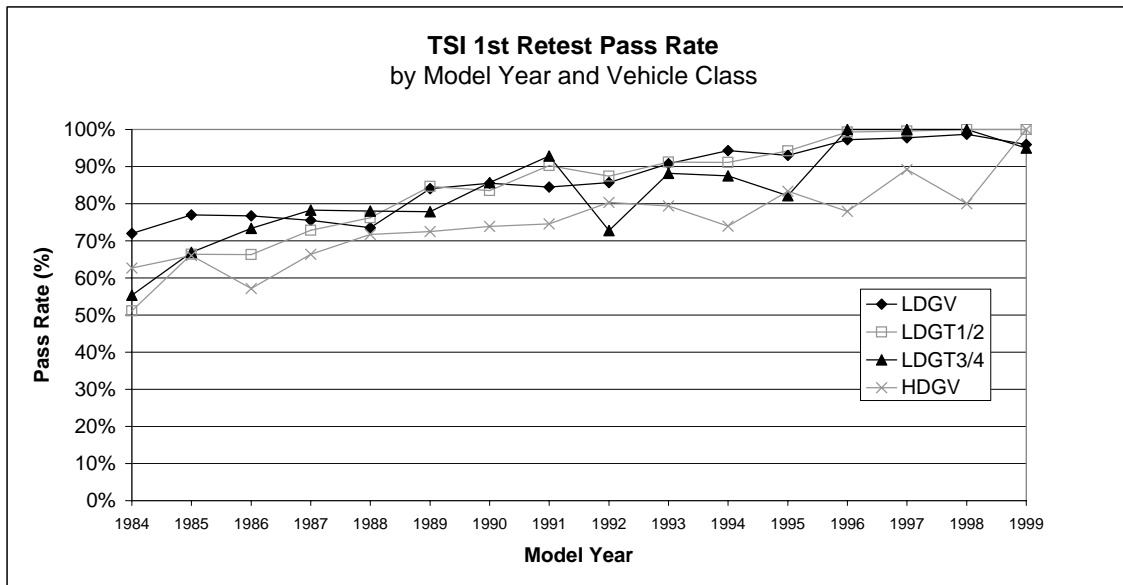
MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
YEAR	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate
1984	986	1,632	60.4%	253	414	61.1%	127	185	68.6%	38	54	70.4%	1,404	2,285	61.4%
1985	4,420	6,526	67.7%	1,064	1,441	73.8%	400	546	73.3%	120	164	73.2%	6,004	8,677	69.2%
1986	2,492	3,756	66.3%	747	1,015	73.6%	244	343	71.1%	72	113	63.7%	3,555	5,227	68.0%
1987	9,414	12,983	72.5%	2,199	2,674	82.2%	609	819	74.4%	202	264	76.5%	12,424	16,740	74.2%
1988	4,328	5,784	74.8%	1,524	2,126	71.7%	369	504	73.2%	109	158	69.0%	6,330	8,572	73.8%
1989	12,511	15,759	79.4%	3,594	4,689	76.6%	926	1,233	75.1%	271	372	72.8%	17,302	22,053	78.5%
1990	4,357	5,612	77.6%	1,028	1,406	73.1%	209	255	82.0%	60	77	77.9%	5,654	7,350	76.9%
1991	13,881	18,289	75.9%	3,286	4,373	75.1%	442	591	74.8%	150	219	68.5%	17,759	23,472	75.7%
1992	4,541	6,027	75.3%	1,145	1,603	71.4%	207	295	70.2%	66	100	66.0%	5,959	8,025	74.3%
1993	12,661	15,864	79.8%	4,005	4,942	81.0%	695	862	80.6%	272	396	68.7%	17,633	22,064	79.9%
1994	3,032	3,613	83.9%	1,142	1,404	81.3%	178	235	75.7%	124	210	59.0%	4,476	5,462	81.9%
1995	6,380	7,038	90.7%	2,916	3,282	88.8%	571	670	85.2%	481	728	66.1%	10,348	11,718	88.3%
1996	2,725	2,917	93.4%	942	1,026	91.8%	257	294	87.4%	180	317	56.8%	4,104	4,554	90.1%
1997	2,466	2,625	93.9%	839	895	93.7%	224	238	94.1%	177	247	71.7%	3,706	4,005	92.5%
1998	739	771	95.8%	275	282	97.5%	58	60	96.7%	12	13	92.3%	1,084	1,126	96.3%
1999	504	514	98.1%	150	157	95.5%	34	34	100.0%	16	16	100.0%	704	721	97.6%
2000	174	182	95.6%	57	58	98.3%	10	10	100.0%	5	5	100.0%	246	255	96.5%
2001	10	10	100.0%	1	1	100.0%	2	3	66.7%	0	0	NA	13	14	92.9%
2002	1	1	100.0%	0	0	NA	0	0	NA	0	0	NA	1	1	100.0%
TOTAL	85,622	109,903	77.9%	25,167	31,788	79.2%	5,562	7,177	77.5%	2,355	3,453	68.2%	118,706	152,321	77.9%



2001 Massachusetts I&M Program Test Data
51.366 (a)(2)(iii) TSI 1st Retests Passing by model year and vehicle type

Any vehicles receiving a TSI test with test counter = 2 were considered 1st TSI retests.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate
1984	90	125	72.0%	44	86	51.2%	31	56	55.4%	114	182	62.6%	279	449	62.1%
1985	264	343	77.0%	152	229	66.4%	99	148	66.9%	313	474	66.0%	828	1,194	69.3%
1986	158	206	76.7%	132	199	66.3%	66	90	73.3%	159	278	57.2%	515	773	66.6%
1987	383	507	75.5%	314	431	72.9%	126	161	78.3%	441	664	66.4%	1,264	1,763	71.7%
1988	211	287	73.5%	189	248	76.2%	78	100	78.0%	157	219	71.7%	635	854	74.4%
1989	527	627	84.1%	396	468	84.6%	123	158	77.8%	269	371	72.5%	1,315	1,624	81.0%
1990	248	290	85.5%	132	158	83.5%	42	49	85.7%	48	65	73.8%	470	562	83.6%
1991	475	562	84.5%	332	368	90.2%	78	84	92.9%	88	118	74.6%	973	1,132	86.0%
1992	215	251	85.7%	160	183	87.4%	24	33	72.7%	53	66	80.3%	452	533	84.8%
1993	490	540	90.7%	405	444	91.2%	112	127	88.2%	85	107	79.4%	1,092	1,218	89.7%
1994	167	177	94.4%	184	202	91.1%	35	40	87.5%	54	73	74.0%	440	492	89.4%
1995	305	328	93.0%	311	330	94.2%	120	146	82.2%	165	198	83.3%	901	1,002	89.9%
1996	179	184	97.3%	146	147	99.3%	45	45	100.0%	46	59	78.0%	416	435	95.6%
1997	176	180	97.8%	223	224	99.6%	69	69	100.0%	66	74	89.2%	534	547	97.6%
1998	78	79	98.7%	62	62	100.0%	16	16	100.0%	8	10	80.0%	164	167	98.2%
1999	47	49	95.9%	33	33	100.0%	19	20	95.0%	6	6	100.0%	105	108	97.2%
2000	10	10	100.0%	6	6	100.0%	2	2	100.0%	0	0	NA	18	18	100.0%
2001	0	0	NA	3	3	100.0%	1	1	0.0%	0	0	NA	4	4	100.0%
2002	0	0	NA	0	0	NA	0	0	NA	0	0	NA	0	0	NA
TOTAL	4,023	4,745	84.8%	3,224	3,821	84.4%	1,086	1,345	80.7%	2,072	2,964	69.9%	10,405	12,875	80.8%

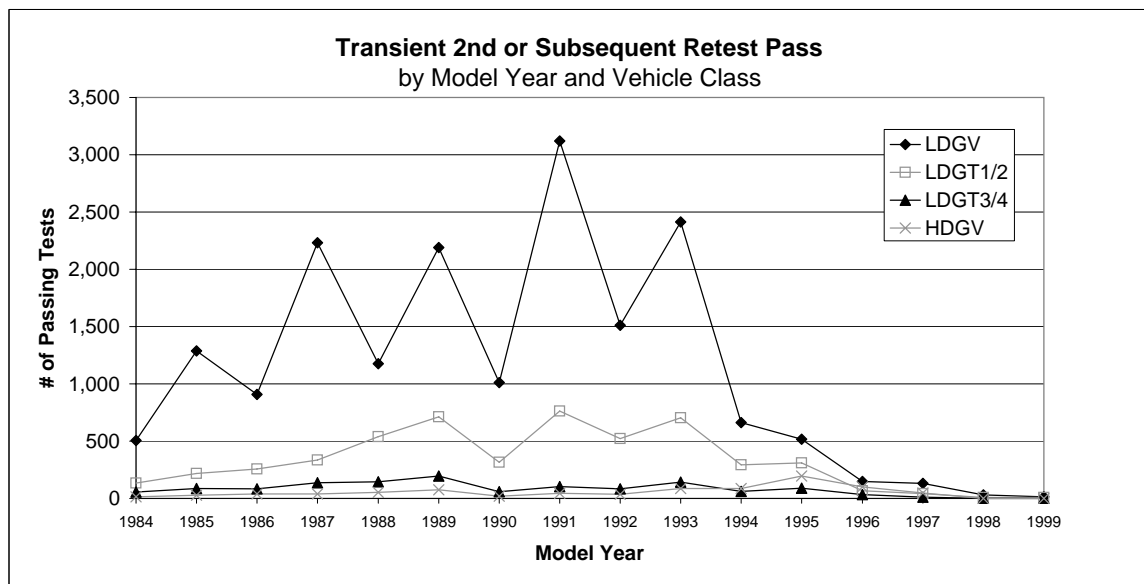
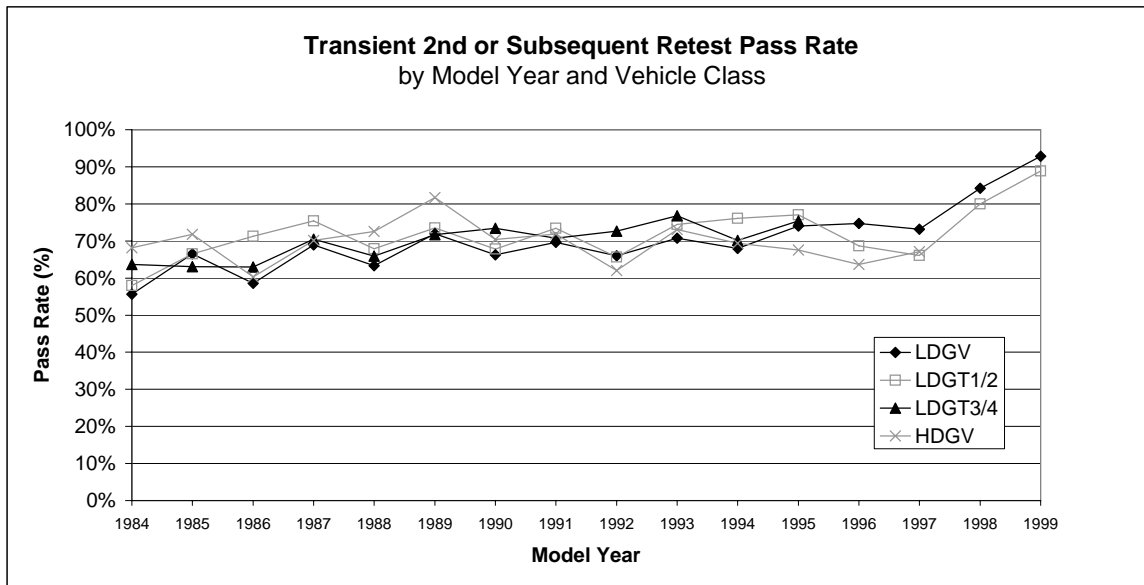


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(iv) Transient 2nd and Subsequent Retests Passing by model year and vehicle type

Any vehicles receiving a transient test with test counter >2 were considered 2nd or subsequent transient retests.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate
1984	505	907	55.7%	135	233	57.9%	56	88	63.6%	15	22	68.2%	711	1,250	56.9%
1985	1,287	1,934	66.5%	217	326	66.6%	87	138	63.0%	28	39	71.8%	1,619	2,437	66.4%
1986	909	1,551	58.6%	258	362	71.3%	85	135	63.0%	38	63	60.3%	1,290	2,111	61.1%
1987	2,233	3,240	68.9%	334	443	75.4%	136	193	70.5%	40	57	70.2%	2,743	3,933	69.7%
1988	1,175	1,855	63.3%	540	795	67.9%	145	220	65.9%	53	73	72.6%	1,913	2,943	65.0%
1989	2,191	3,043	72.0%	711	967	73.5%	195	272	71.7%	76	93	81.7%	3,173	4,375	72.5%
1990	1,011	1,526	66.3%	316	466	67.8%	58	79	73.4%	19	27	70.4%	1,404	2,098	66.9%
1991	3,119	4,478	69.7%	763	1,039	73.4%	104	147	70.7%	46	64	71.9%	4,032	5,728	70.4%
1992	1,511	2,288	66.0%	521	794	65.6%	85	117	72.6%	36	58	62.1%	2,153	3,257	66.1%
1993	2,413	3,411	70.7%	705	947	74.4%	142	185	76.8%	87	119	73.1%	3,347	4,662	71.8%
1994	661	972	68.0%	293	385	76.1%	61	87	70.1%	86	124	69.4%	1,101	1,568	70.2%
1995	516	697	74.0%	309	401	77.1%	89	118	75.4%	196	290	67.6%	1,110	1,506	73.7%
1996	148	198	74.7%	68	99	68.7%	34	50	68.0%	100	157	63.7%	350	504	69.4%
1997	131	179	73.2%	41	62	66.1%	11	14	78.6%	47	70	67.1%	230	325	70.8%
1998	32	38	84.2%	8	10	80.0%	1	1	100.0%	0	0	NA	41	49	83.7%
1999	13	14	92.9%	8	9	88.9%	0	0	NA	0	0	NA	21	23	91.3%
2000	7	12	58.3%	1	1	100.0%	0	0	NA	0	0	NA	8	13	61.5%
2001	1	1	100.0%	0	0	NA	1	1	100.0%	0	0	NA	2	2	100.0%
2002	0	0	NA	0	0	NA	0	0	NA	0	0	NA	0	0	NA
TOTAL	17,863	26,344	67.8%	5,228	7,339	71.2%	1,290	1,845	69.9%	867	1,256	69.0%	25,248	36,784	68.6%

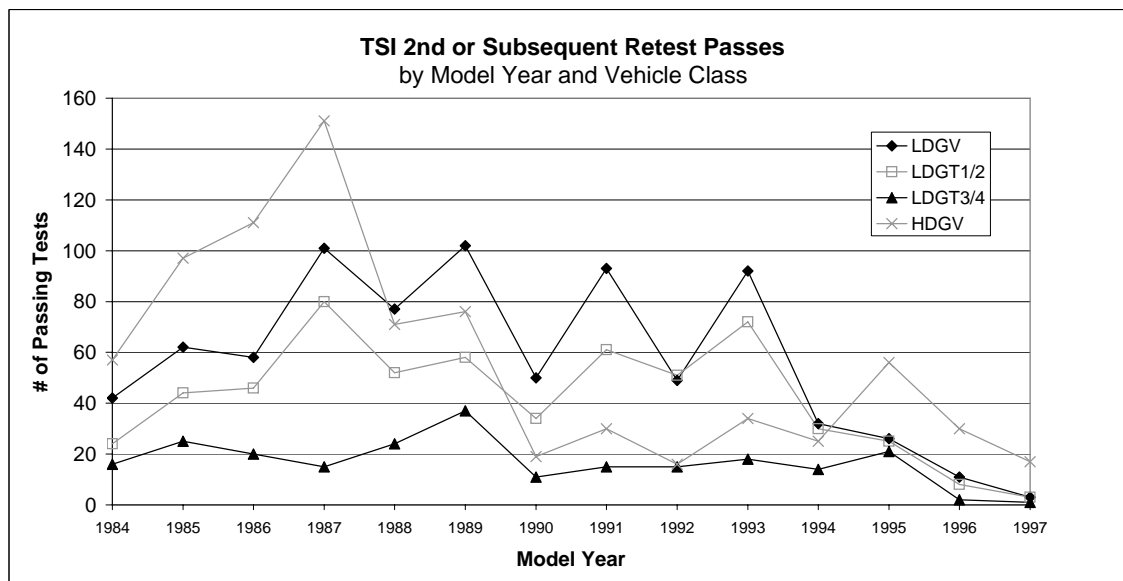
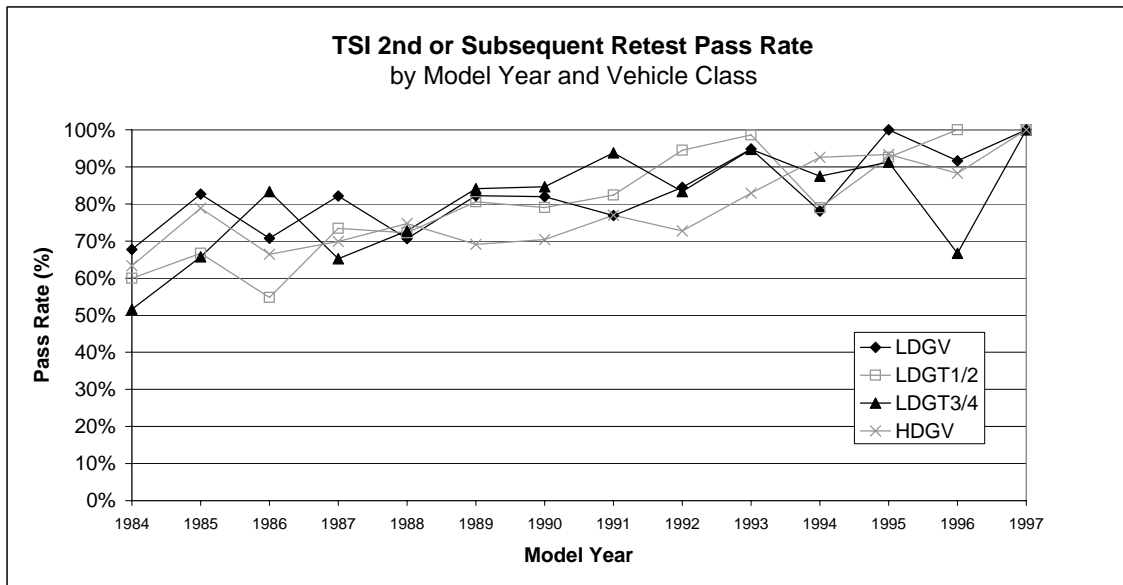


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(iv) TSI 2nd and Subsequent Retests Passing by model year and vehicle type

Any vehicles receiving a TSI test with test counter >2 were considered 2nd or subsequent TSI retests.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate	Passed	Tested	Pass Rate
1984	42	62	67.7%	24	40	60.0%	16	31	51.6%	57	90	63.3%	139	223	62.3%
1985	62	75	82.7%	44	66	66.7%	25	38	65.8%	97	123	78.9%	228	302	75.5%
1986	58	82	70.7%	46	84	54.8%	20	24	83.3%	111	167	66.5%	235	357	65.8%
1987	101	123	82.1%	80	109	73.4%	15	23	65.2%	151	216	69.9%	347	471	73.7%
1988	77	109	70.6%	52	72	72.2%	24	33	72.7%	71	95	74.7%	224	309	72.5%
1989	102	124	82.3%	58	72	80.6%	37	44	84.1%	76	110	69.1%	273	350	78.0%
1990	50	61	82.0%	34	43	79.1%	11	13	84.6%	19	27	70.4%	114	144	79.2%
1991	93	121	76.9%	61	74	82.4%	15	16	93.8%	30	39	76.9%	199	250	79.6%
1992	49	58	84.5%	51	54	94.4%	15	18	83.3%	16	22	72.7%	131	152	86.2%
1993	92	97	94.8%	72	73	98.6%	18	19	94.7%	34	41	82.9%	216	230	93.9%
1994	32	41	78.0%	30	38	78.9%	14	16	87.5%	25	27	92.6%	101	122	82.8%
1995	26	26	100.0%	25	27	92.6%	21	23	91.3%	56	60	93.3%	128	136	94.1%
1996	11	12	91.7%	8	8	100.0%	2	3	66.7%	30	34	88.2%	51	57	89.5%
1997	3	3	100.0%	3	3	100.0%	1	1	100.0%	17	17	100.0%	24	24	100.0%
1998	2	3	66.7%	0	0	NA	0	0	NA	2	2	100.0%	4	5	80.0%
1999	0	1	0.0%	0	0	NA	1	1	100.0%	0	0	NA	1	2	50.0%
2000	0	0	NA	0	0	NA	0	0	NA	0	0	NA	0	0	NA
2001	0	0	NA	0	0	NA	0	0	NA	0	0	NA	0	0	NA
2002	0	0	NA	0	0	NA	0	0	NA	0	0	NA	0	0	NA
TOTAL	800	998	80.2%	588	763	77.1%	235	303	77.6%	792	1,070	74.0%	2,415	3,134	77.1%

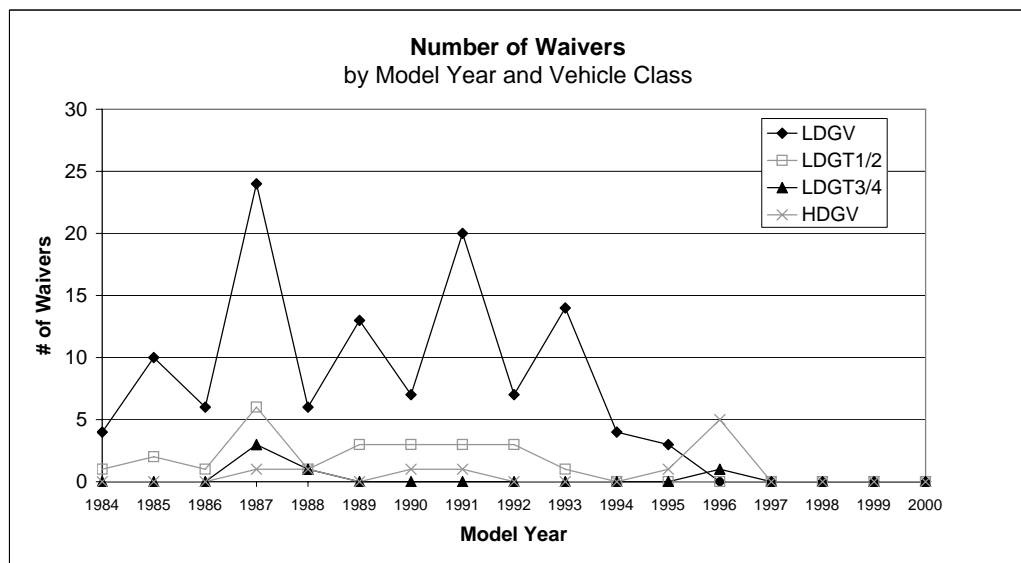
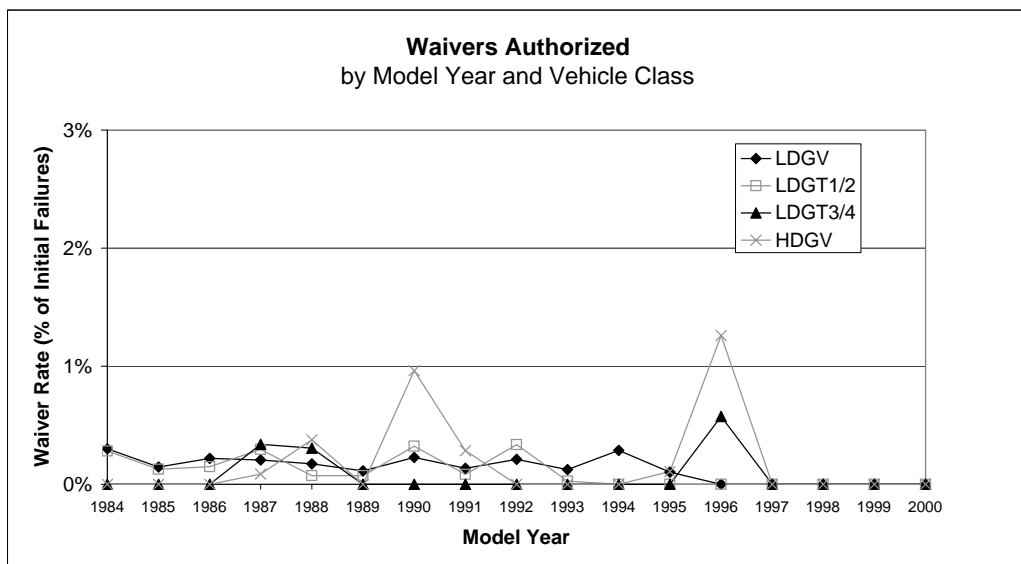


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(v) Initial Failing Emissions Tests Receiving a Waiver by model year and vehicle type

Motorists can receive an emissions waiver for their vehicle if they cannot pass an emissions retest following repairs. To be eligible for a waiver, a motorist must spend a minimum of \$200 to \$400 (depending on vehicle age) on emission related repairs a registered repair shop, the emissions-control system must be intact with no evidence of tampering, there must be some improvement to the vehicle's emissions, and emission levels must be less than three times the standard for all pollutants tested, as applicable. The waiver is valid until the vehicle is due for its next emissions test. The waiver rate is calculated as a percentage of unique vehicles that failed their initial emissions test, for whatever reason (exhaust, visual, or gas cap.)

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	Waiver Granted	Initial Failed	Waiver Rate	Waiver Granted	Initial Failed	Waiver Rate	Waiver Granted	Initial Failed	Waiver Rate	Waiver Granted	Initial Failed	Waiver Rate	Waiver Granted	Initial Failed	Waiver Rate
1984	4	1,329	0.30%	1	356	0.28%	0	141	0.00%	0	180	0.00%	5	2,006	0.25%
1985	10	6,771	0.15%	2	1,554	0.13%	0	687	0.00%	0	844	0.00%	12	9,856	0.12%
1986	6	2,739	0.22%	1	673	0.15%	0	274	0.00%	0	301	0.00%	7	3,987	0.18%
1987	24	11,581	0.21%	6	2,028	0.30%	3	887	0.34%	1	1,138	0.09%	34	15,634	0.22%
1988	6	3,465	0.17%	1	1,381	0.07%	1	326	0.31%	1	265	0.38%	9	5,437	0.17%
1989	13	11,481	0.11%	3	4,092	0.07%	0	1,162	0.00%	0	834	0.00%	16	17,569	0.09%
1990	7	3,086	0.23%	3	927	0.32%	0	147	0.00%	1	104	0.96%	11	4,264	0.26%
1991	20	14,872	0.13%	3	3,544	0.08%	0	579	0.00%	1	353	0.28%	24	19,348	0.12%
1992	7	3,299	0.21%	3	894	0.34%	0	174	0.00%	0	95	0.00%	10	4,462	0.22%
1993	14	11,206	0.12%	1	3,810	0.03%	0	725	0.00%	0	496	0.00%	15	16,237	0.09%
1994	4	1,399	0.29%	0	570	0.00%	0	120	0.00%	0	167	0.00%	4	2,256	0.18%
1995	3	2,918	0.10%	0	1,574	0.00%	0	523	0.00%	1	918	0.11%	4	5,933	0.07%
1996	0	1,008	0.00%	0	384	0.00%	1	174	0.57%	5	397	1.26%	6	1,963	0.31%
1997	0	896	0.00%	0	298	0.00%	0	107	0.00%	0	316	0.00%	0	1,617	0.00%
1998	0	256	0.00%	0	57	0.00%	0	14	0.00%	0	16	0.00%	0	343	0.00%
1999	0	100	0.00%	0	35	0.00%	0	5	0.00%	0	10	0.00%	0	150	0.00%
2000	0	77	0.00%	0	13	0.00%	0	0	NA	0	3	0.00%	0	93	0.00%
2001	0	2	0.00%	0	2	0.00%	0	2	0.00%	0	0	NA	0	6	0.00%
2002	0	1	0.00%	0	0	NA	0	0	NA	0	0	NA	0	1	0.00%
TOTAL	118	76,486	0.15%	24	22,192	0.11%	5	6,047	0.08%	10	6,437	0.16%	157	111,162	0.14%

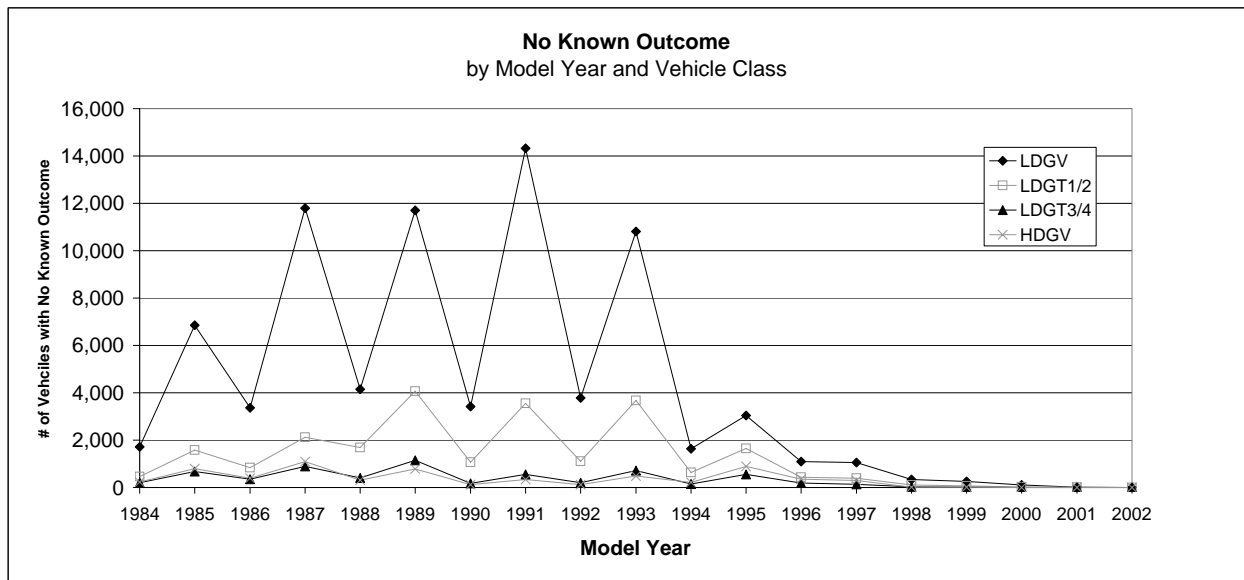
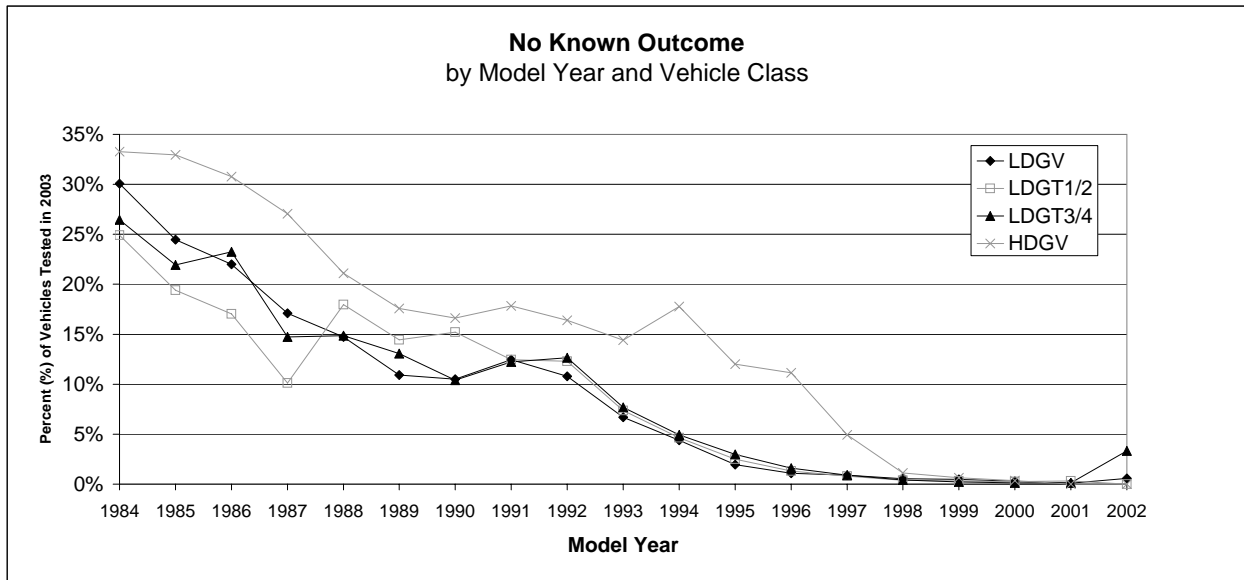


2001 Massachusetts I&M Program Test Data

51.366 (a)(2)(vi) Vehicles with no know final outcome (regardless of reason)

Vehicles with no know outcome are vehicles that failed the emissions test and show no record of passing the retest. The following methodology was used for this analysis: 1) track vehicle VINs whose last emission test in 2001 was a fail, 2) remove vehicles that received a waiver, and 3) remove any of these vehicles that showed a passing emissions test in the first 6 months of 2002.

MODEL YEAR	LDGV			LDGT1/2			LDGT3/4			HDGV			TOTAL		
	No Known Outcome	Vehicles Tested	Rate of Occurrence	No Known Outcome	Vehicles Tested	Rate of Occurrence	No Known Outcome	Vehicles Tested	Rate of Occurrence	No Known Outcome	Vehicles Tested	Rate of Occurrence	No Known Outcome	Vehicles Tested	Rate of Occurrence
1984	1,722	5,729	30.1%	460	1,846	24.9%	198	749	26.4%	223	670	33.3%	2,603	8,994	28.9%
1985	6,848	27,975	24.5%	1,583	8,154	19.4%	672	3,062	21.9%	797	2,418	33.0%	9,900	41,609	23.8%
1986	3,366	15,305	22.0%	836	4,908	17.0%	351	1,510	23.2%	397	1,290	30.8%	4,950	23,013	21.5%
1987	11,798	68,941	17.1%	2,122	20,967	10.1%	887	6,027	14.7%	1,097	4,056	27.0%	15,904	99,991	15.9%
1988	4,147	28,160	14.7%	1,683	9,365	18.0%	403	2,710	14.9%	307	1,454	21.1%	6,540	41,689	15.7%
1989	11,708	107,153	10.9%	4,074	28,210	14.4%	1,151	8,815	13.1%	789	4,488	17.6%	17,722	148,666	11.9%
1990	3,425	32,643	10.5%	1,070	7,029	15.2%	178	1,710	10.4%	121	728	16.6%	4,794	42,110	11.4%
1991	14,318	115,058	12.4%	3,558	28,562	12.5%	555	4,540	12.2%	338	1,894	17.8%	18,769	150,054	12.5%
1992	3,790	35,093	10.8%	1,108	9,018	12.3%	208	1,645	12.6%	115	702	16.4%	5,221	46,458	11.2%
1993	10,816	161,708	6.7%	3,671	49,816	7.4%	710	9,251	7.7%	488	3,385	14.4%	15,685	224,160	7.0%
1994	1,629	37,231	4.4%	635	13,718	4.6%	148	2,999	4.9%	222	1,250	17.8%	2,634	55,198	4.8%
1995	3,041	156,591	1.9%	1,644	65,883	2.5%	560	18,796	3.0%	898	7,483	12.0%	6,143	248,753	2.5%
1996	1,089	99,424	1.1%	434	32,753	1.3%	190	11,964	1.6%	349	3,128	11.2%	2,062	147,269	1.4%
1997	1,056	115,759	0.9%	390	49,208	0.8%	138	15,615	0.9%	295	5,964	4.9%	1,879	186,546	1.0%
1998	343	62,943	0.5%	111	29,797	0.4%	31	7,331	0.4%	20	1,764	1.1%	505	101,835	0.5%
1999	251	52,053	0.5%	69	21,572	0.3%	19	8,189	0.2%	14	2,219	0.6%	353	84,033	0.4%
2000	108	36,925	0.3%	33	13,089	0.3%	5	3,971	0.1%	4	1,150	0.3%	150	55,135	0.3%
2001	11	13,304	0.1%	17	5,173	0.3%	2	1,706	0.1%	0	271	0.0%	30	20,454	0.1%
2002	1	1,177	0.6%	0	160	0.0%	1	30	3.3%	0	4	0.0%	2	371	0.5%
TOTAL	79,467	1,172,172	6.8%	23,498	399,228	5.9%	6,407	110,620	5.8%	6,474	44,318	14.6%	115,846	1,726,338	6.7%



2001 Massachusetts I&M Program Test Data
51.366 (5) Average change in Transient Test Emissions after repairs by model year and vehicle type

Average change in emissions due to repair was determined using the following method: calculate the average emissions for vehicles that failed the initial transient test, calculate the average emissions for initially failing vehicles that passed the transient test, and calculate the percent difference between the two averages. The overall averages by vehicle class and model year were determined by taking the sum of the weighted averages [(avg emissions] * (# of vehicles tested)] for each model year or vehicle class and dividing by the total number of vehicles tested for the model year or vehicle class. For post-repair tests, the testcounter was greater than 1 and the VIN also failed a transient test with test counter = 1

AVG. HYDROCARBONS (g/mi)

MODEL YEAR	LDGV					LDGT1/2					LDGT3/4					HDGV					OVERALL				
	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change
1984	1,270	2.95	627	0.92	-68.7%	285	7.43	128	1.58	-78.8%	107	7.52	52	1.45	-80.8%	38	8.72	19	1.94	-77.7%	1,700	4.12	826	1.08	-73.7%
1985	6,560	2.78	3,963	0.90	-67.7%	1,269	6.08	738	1.66	-72.7%	511	5.98	304	1.62	-72.9%	179	6.35	111	1.86	-70.6%	8,519	3.54	5,116	1.07	-69.7%
1986	2,632	2.99	1,342	0.85	-71.6%	528	5.76	289	1.62	-71.9%	215	6.73	109	1.78	-73.5%	77	7.30	33	1.72	-76.4%	3,452	3.74	1,773	1.05	-72.0%
1987	11,384	2.61	7,088	0.87	-66.7%	1,604	5.54	1,031	1.70	-69.4%	705	5.32	441	1.46	-72.6%	226	6.02	153	1.80	-70.1%	13,919	3.14	8,713	1.01	-67.7%
1988	3,340	3.03	1,842	0.94	-69.0%	1,263	3.84	756	1.33	-65.3%	266	4.80	137	1.80	-62.5%	96	6.09	52	1.39	-77.2%	4,965	3.39	2,787	1.10	-67.6%
1989	11,273	2.40	7,518	0.85	-64.7%	3,736	3.59	2,505	1.30	-63.9%	1,017	4.56	715	1.58	-65.3%	361	4.67	247	1.66	-64.4%	16,387	2.85	10,985	1.01	-64.4%
1990	2,990	2.45	1,724	0.81	-66.8%	870	3.54	531	1.16	-67.2%	131	4.33	85	1.38	-68.1%	49	4.25	32	1.43	-66.4%	4,040	2.76	2,372	0.92	-66.8%
1991	14,863	1.69	10,476	0.57	-66.3%	3,381	2.72	2,437	0.93	-65.6%	512	4.14	379	1.37	-66.8%	220	3.91	157	1.16	-70.4%	18,976	1.97	13,449	0.67	-66.1%
1992	3,213	1.93	2,130	0.57	-70.3%	850	2.53	574	0.88	-65.2%	156	3.44	119	1.56	-64.0%	67	3.52	45	1.12	-68.1%	4,286	2.17	2,868	0.69	-68.4%
1993	11,343	1.75	8,203	0.56	-68.0%	3,645	2.34	2,743	0.91	-60.9%	653	3.69	539	1.38	-62.5%	395	2.46	294	1.04	-57.6%	16,036	1.98	11,779	0.69	-65.0%
1994	1,355	1.62	831	0.61	-66.5%	860	3.04	465	0.90	-70.3%	103	3.38	79	1.26	-62.7%	120	1.98	88	0.89	-65.1%	2,438	2.33	1,563	0.75	-67.9%
1995	2,769	1.95	2,020	0.55	-71.9%	1,587	3.07	1,199	0.79	-74.2%	426	2.97	327	1.13	-62.0%	765	2.16	574	0.99	-54.4%	5,547	2.38	4,120	0.73	-69.5%
1996	941	1.35	669	0.37	-72.3%	380	1.39	280	0.38	-72.6%	171	1.27	143	0.57	-55.2%	356	1.42	241	0.69	-51.8%	1,848	1.37	1,333	0.45	-66.9%
1997	1,020	1.13	702	0.35	-68.6%	399	1.89	245	0.36	-79.8%	105	1.35	66	0.51	-62.5%	275	1.02	184	0.48	-62.8%	1,799	1.29	1,197	0.39	-70.0%
1998	246	1.20	187	0.30	-75.0%	54	2.58	44	0.30	-88.4%	14	2.32	9	0.69	-70.4%	11	2.26	5	0.71	-68.7%	325	1.51	245	0.32	-78.7%
1999	86	1.03	79	0.21	-80.0%	34	1.02	31	0.24	-76.5%	4	1.79	2	0.57	-68.4%	8	4.09	6	0.34	-81.9%	132	1.24	118	0.23	-81.6%
2000	76	0.90	65	0.13	-86.0%	11	0.27	11	0.28	2.0%	0	0.00	0	0.00	N/A	3	4.78	3	0.12	-97.6%	90	0.95	79	0.15	-84.8%
2001	2	2.00	2	0.00	-100.0%	2	2.31	1	0.07	-97.0%	2	0.05	2	0.32	611.1%	0	0.00	0	0.00	N/A	6	1.45	5	0.14	-90.2%
2002	1	0.89	1	0.08	-91.0%	0	0.00	0	0.00	N/A	0	0.00	0	0.00	N/A	0	0.00	0	0.00	N/A	1	0.89	1	0.08	-91.0%
Overall	75,364	2.20	49,569	0.71	-68.0%	20,758	3.47	14,008	1.10	-68.3%	5,098	4.46	3,508	1.41	-68.4%	3,246	3.29	2,244	1.13	-65.5%	104,466	2.60	69,329	0.83	-67.9%

AVG. CARBON MONOXIDE (g/mi)

MODEL YEAR	LDGV					LDGT1/2					LDGT3/4					HDGV					OVERALL				
	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change
1984	1,270	59.5	627	10.2	-82.9%	285	108.7	128	24.7	-77.3%	107	93.3	52	24.6	-73.6%	38	89.6	19	31.9	-64.4%	1,700	70.5	826	13.8	-80.4%
1985	6,560	50.6	3,963	8.9	-82.4%	1,269	100.0	738	24.6	-75.4%	511	91.3	304	25.3	-72.3%	179	74.1	111	24.4	-67.0%	8,519	60.9	5,116	12.5	-79.5%
1986	2,632	47.4	1,342	8.2	-82.7%	528	80.9	289	19.9	-75.4%	215	93.6	109	26.2	-72.1%	77	117.0	33	27.8	-76.3%	3,452	56.9	1,773	11.6	-79.7%
1987	11,384	41.7	7,088	8.0	-80.9%	1,604	74.4	1,031	19.5	-73.7%	705	72.3	441	16.3	-77.5%	226	73.2	153	21.6	-70.5%	13,919	47.5	8,713	10.0	-79.0%
1988	3,340	44.6	1,842	9.2	-81.6%	1,263	48.2	756	14.0	-71.0%	266	49.8	137	17.7	-64.5%	96	55.5	52	14.7	-73.5%	4,965	46.0	2,787	10.4	-77.5%
1989	11,273	40.1	7,518	7.5	-81.3%	3,736	52.7	2,505	13.6	-74.3%	1,017	50.9	715	14.0	-72.5%	361	53.1	247	18.7	-64.8%	16,387	43.9	10,985	9.5	-76.3%
1990	2,990	40.5	1,724	7.8	-80.7%	870	54.7	531	12.6	-77.0%	131	67.6	85	13.8	-79.5%	49	65.8	32	12.6	-60.0%	4,040	44.8	2,372	9.2	-79.4%
1991	14,863	26.4	10,476	5.1	-80.6%	3,381	43.3	2,437	8.7	-79.8%	512	44.3	379	12.0	-73.0%	220	81.3	157	13.8	-83.0%	18,976	36.0	13,449	6.1	-80.1%
1992	3,213	33.3	2,130	5.6	-83.0%	850	39.3	574	8.4	-78.7%	156	34.0	119	14.2	-58.2%	67	60.9	45	13.4	-77.9%	4,286	34.9	2,868	6.7	-80.9%
1993	11,343	32.8	8,203	5.6	-83.0%	3,645	33.4	2,743	8.9	-73.3%	653	33.8	539	10.8	-68.0%	395	35.2	294	11.0	-68.8%	16,036	33.0	11,779	6.7	-79.7%
1994	1,355	29.1	831	6.2	-78.8%	860	63.6	465	9.1	-86.5%	103	37.7	79	11.4	-69.9%	120	41.9	88	12.0	-71.4%	2,438	48.2	1,563	17.6	-82.0%
1995	2,769	33.6	2,020	5.4	-83.9%	1,587	35.5	1,199	8.6	-75.7%	426	30.3	327	11.7	-61.2%	765	35.3	574	12.6	-64.4%	5,547	34.1	4,120	7.8	-77.0%
1996	941	31.7	669	3.9	-87.7%	380	24.5	280	4.9	-80.0%	171	16.7	143	5.8	-65.1%	356	27.1	241	9.5	-65.1%	1,848	27.9	1,333	5.3	-81.0%
1997	1,020	28.7	702	3.9	-86.5%	399	34.7	245	5.2	-85.0%	105	13.9	66	6.4	-81.1%	275	36.2	184	11.4	-68.5%	1,799	31.5	1,197	5.4	-82.7%
1998	246	31.5	187	3.8	-87.9%	54	21.5	44	3.2	-85.2%	14	16.9	9	8.7	-48.5%	11	9.5	5	8.7	-8.9%	325	28.5	245	4.0	-86.0%
1999	86	37.3	79	3.5	-90.7%	34	14.5	31	2.1	-85.3%	4	12.1	2	5.2	-56.7%	8	38.0	6	4.1	-89.3%	132	30.7	118	3.2	-89.7%
2000	76	29.4	65	1.9	-93.5%	11	27.8	11	3.1	-89.0%	0	0.00	0	0.00	N/A	3	10.9	3	0.8	-92.9%	90	28.6	79	2.0	-92.9%
2001	2	22.1	2	0.3	-98.6%	2	12.9	1	0.0	-100.0%	2	0.2	2	4.0	2197.7%	0	0.00	0	0.00	N/A	6	11.7	5	1.7	-85.2%
2002	1	0.00	1	0.00	N/A	0	0.00	0	0.00	N/A	0	0.00	0	0.00	N/A	0	0.00	0	0.00	N/A	1	0.00	1	0.00	N/A
Overall	75,364	37.2	49,569	6.6	-82.2%	20,758	51.2	14,008	11.9	-76.8%	5,098	54.0	3,508	14.5	-73.2%	3,246	48.6	2,244	14.3	-70.5%	104,466	41.2	69,329	8.33	-79.8%

AVG. OXIDES OF NITROGEN (g/mi)

MODEL YEAR	LDGV					LDGT1/2					LDGT3/4					HDGV					OVERALL				
	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change	Pre-Repair #	Pre-Repair	Post-Repair #	Post-Repair	Change
1984	1,270	3.89	627	1.73	-55.5%	285	4.27	128	2.36	-44.8%	107	5.48	52	2.23	-59.3%	38	6.15	19	2.97	-51.7%	1,700	4.10	826	1.89	-54.0%
1985	6,560	4.12	3,963	1.60	-61.1%	1,269																			

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Attachment C: 2001 Test Data by Station

Massachusetts Enhanced Inspection and Maintenance Program

December 2005

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL	
FL004953																					0.0%
FL004955																					0.0%
FL004956																					0.0%
FL005026																					0.0%
FL005084																					0.0%
FL005093	100.0%					0.0%		0.0%		50.0%		0.0%	0.0%	0.0%	0.0%	0.0%					8.3%
FL005112																					0.0%
FL005264																					0.0%
FL005349																					0.0%
FL007408		33.3%	100.0%	12.9%	25.0%	14.3%	50.0%	16.7%	25.0%	16.7%	14.3%	7.7%	13.2%	2.0%	0.0%	0.0%					10.5%
FL007509	100.0%	22.2%	33.3%	20.0%	0.0%	10.0%	0.0%	25.0%	0.0%	9.1%	0.0%	0.0%	15.8%	5.0%	0.0%	0.0%		0.0%			11.8%
FL007513		0.0%		0.0%						12.5%	0.0%	12.5%	0.0%	6.3%	0.0%						7.6%
FL010365				0.0%	0.0%	0.0%	0.0%		10.0%	0.0%		4.5%	0.0%	0.0%	0.0%	0.0%	0.0%				1.3%
FL010922		0.0%		0.0%						0.0%		2.4%	0.0%	4.4%	0.0%						2.3%
FL010924	0.0%			0.0%			0.0%		0.0%	0.0%	0.0%	13.8%	0.0%	0.0%	0.0%						4.8%
FL010937																					0.0%
FL011252		22.2%		5.6%		20.0%															12.5%
FL011254	0.0%	0.0%	0.0%	14.3%		40.0%						0.0%	0.0%	0.0%							12.5%
FL011278																					0.0%
FL011295						0.0%			0.0%		0.0%		0.0%								0.0%
FL011296																					0.0%
FL011328																					0.0%
FL011356																					0.0%
FL011802																					0.0%
FL011886				0.0%	10.0%	11.8%	0.0%	11.8%	0.0%	0.0%	28.6%	9.5%	0.0%	0.0%							6.0%
FL012032				0.0%	0.0%	0.0%	100.0%	21.7%	0.0%	0.0%	50.0%	5.6%	0.0%	0.0%				0.0%			7.3%
FL012047				11.8%	50.0%	11.1%	0.0%	13.0%	0.0%	8.3%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%					8.8%
FL012071	0.0%	10.0%	0.0%	0.0%		0.0%															4.7%
FL012093																					0.0%
FL012163																					0.0%
FL012190					100.0%	0.0%	0.0%	11.1%	0.0%	0.0%		0.0%	0.0%	2.8%	0.0%	0.0%		0.0%			3.6%
FL012191					0.0%	12.5%		28.6%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%				10.3%
FL012246																					0.0%
FL012267																					0.0%
FL012350					0.0%	8.3%	0.0%	0.0%	0.0%	0.0%		12.5%	0.0%	0.0%			0.0%				3.4%
FL012429	34.6%	25.0%	33.3%	35.9%	0.0%	10.0%	0.0%							0.0%							28.7%
FL012608																					0.0%
FL012667																					0.0%
FL012708				50.0%	14.3%	0.0%		20.7%	0.0%	0.0%	0.0%	7.2%	8.3%	0.0%	0.0%	0.0%					10.6%
FL012808		0.0%						0.0%		25.0%		7.7%	10.0%	22.2%	0.0%	0.0%					13.4%
FL013108																					0.0%
FL013109																					0.0%
FL013110																					0.0%
FL013111																					0.0%
FL013214						0.0%						50.0%	0.0%	0.0%							12.5%
FL013302		0.0%		0.0%		0.0%		100.0%		0.0%	0.0%	14.3%	0.0%	0.0%	0.0%						8.3%
FL014041													0.0%								0.0%
FL015274	0.0%	0.0%	100.0%		42.9%		0.0%	0.0%		0.0%		0.0%		0.0%	0.0%	0.0%					14.8%
FL015275																					0.0%
FL015297																					0.0%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL	
FL016577												0.0%	0.0%	0.0%							0.0%
FL017254																					0.0%
FL018997																					0.0%
FL019001												0.0%	0.0%	0.0%							0.0%
FL019002						0.0%									0.0%						0.0%
FL019003																					0.0%
FL019005																					0.0%
FL019006						0.0%															0.0%
FL019007		100.0%		0.0%	0.0%		0.0%			25.0%		0.0%	0.0%	33.3%	0.0%	0.0%					13.6%
FL019008								100.0%	0.0%	0.0%		12.5%	0.0%	0.0%		0.0%					5.1%
FL019009																					0.0%
FL019012																					0.0%
FL019013																					0.0%
FL019016																					0.0%
FL019017																					0.0%
FL019018																					0.0%
FL019019																					0.0%
FL019034																					0.0%
FL019037													0.0%		0.0%						0.0%
FL019039																					0.0%
FL019040				0.0%				0.0%				0.0%	0.0%	0.0%		0.0%					0.0%
FL019041																					0.0%
FL019042																					0.0%
FL019043																					0.0%
FL019046																					0.0%
FL019047																					0.0%
FL019048																					0.0%
FL019049																					0.0%
FL019050	0.0%	0.0%		0.0%	0.0%			25.0%	50.0%			0.0%			0.0%	0.0%					10.5%
FL019051																					0.0%
FL019054																					0.0%
FL019055																					0.0%
FL019056																					0.0%
FL019057		100.0%		33.3%		0.0%		0.0%		100.0%		50.0%	0.0%	0.0%	0.0%				0.0%		29.4%
FL019059		0.0%																			0.0%
FL019060																					0.0%
FL019061																					0.0%
FL019062																					0.0%
FL019063																					0.0%
FL019064																					0.0%
FL019065																					0.0%
FL019066	19.0%	28.6%	27.4%	21.2%	19.8%	14.9%	7.6%	12.1%	7.5%	6.4%	4.8%	3.0%	2.8%	2.2%	0.2%	0.7%	0.0%	0.0%	0.0%	0.0%	6.8%
FL019067	0.0%	33.3%	0.0%	25.0%	25.0%	15.4%	0.0%	50.0%	0.0%	8.7%	0.0%	3.0%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	2.7%
FL019068	0.0%	33.3%	25.0%	13.2%	18.2%	7.7%	11.1%	12.4%	15.8%	6.8%	0.0%	2.4%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%
FL019069	0.0%	28.6%	0.0%	5.9%	12.5%	13.4%	9.1%	14.4%	3.7%	5.8%	2.1%	1.3%	0.0%	1.2%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	2.7%
FL019074	0.0%	14.3%	14.3%	28.6%	14.3%	14.3%	11.1%	19.6%	27.3%	8.0%	0.0%	5.8%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%
FL019075	33.3%	20.7%	17.6%	13.2%	9.8%	9.6%	7.7%	8.9%	6.8%	4.5%	5.7%	3.4%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.9%
FL019077	12.5%	36.5%	15.0%	18.5%	19.5%	15.5%	9.1%	14.5%	7.1%	6.6%	10.3%	4.4%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%
FL019159	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	33.3%	13.3%	0.0%	10.5%	0.0%	5.7%	3.9%	2.5%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	3.1%
FL020634	0.0%	25.0%	33.3%	17.6%	7.1%	13.0%	25.0%	8.9%	0.0%	3.9%	3.8%	3.2%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
FL021718	0.0%	14.8%	45.5%	18.4%	13.8%	12.5%	0.0%	10.9%	12.8%	6.5%	3.5%	3.5%	1.6%	2.3%	0.6%	0.0%	0.0%	0.0%		5.7%
FL022215	33.3%	28.0%	21.4%	16.9%	21.1%	17.7%	17.6%	16.5%	6.5%	10.8%	10.3%	3.7%	2.6%	0.0%	1.7%	2.3%	0.0%	0.0%		8.9%
FL023080	33.3%	16.7%	0.0%	8.7%	11.1%	15.0%	16.7%	8.8%	40.0%	10.4%	0.0%	1.5%	0.8%	0.0%	1.1%	1.8%	2.7%	0.0%	0.0%	4.1%
FL024160	25.0%	28.4%	20.5%	14.1%	18.5%	17.1%	18.0%	12.3%	8.3%	5.3%	10.3%	3.4%	4.7%	2.3%	0.0%	0.0%	0.0%	0.0%		9.7%
FL024677	20.0%	17.4%	30.8%	10.6%	10.8%	14.1%	13.8%	12.7%	0.0%	6.4%	0.0%	2.5%	2.2%	1.0%	0.0%	0.0%	0.0%	0.0%		6.3%
FL025302	0.0%	0.0%	0.0%	4.2%	30.0%	9.8%	0.0%	11.4%	0.0%	6.7%	0.0%	0.8%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%
FL027335		40.0%	14.3%	28.6%	8.3%	6.3%	13.3%	13.3%	4.5%	5.7%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		3.5%
PB004462	16.7%	37.5%	21.7%	15.5%	7.1%	18.1%	17.3%	16.7%	8.3%	8.7%	8.0%	3.1%	1.4%	1.7%	0.7%	1.8%	1.1%	0.0%	0.0%	7.5%
PB004465	14.3%	27.1%	19.6%	16.3%	19.2%	15.5%	15.7%	13.6%	6.8%	11.3%	10.7%	3.9%	0.5%	1.4%	0.0%	0.0%	0.0%	0.0%		9.1%
PB004466	0.0%	0.0%	33.3%	15.0%	0.0%	28.6%	33.3%	22.2%	28.6%	10.7%	0.0%	6.5%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%		7.4%
PB004467		0.0%	0.0%	15.4%	16.7%	18.5%	0.0%	8.3%	0.0%	7.0%	10.0%	3.3%	0.0%	0.9%	0.0%	1.1%	0.0%	0.0%		2.4%
PB004468	20.0%	35.3%	6.3%	17.9%	18.2%	15.2%	10.0%	13.1%	13.7%	7.6%	14.5%	2.5%	1.1%	0.5%	0.0%	0.0%	0.0%	0.0%		6.4%
PB004469	33.3%	25.0%	12.5%	18.0%	18.9%	13.0%	6.3%	9.0%	8.9%	6.7%	1.8%	2.3%	2.5%	0.6%	0.0%	0.0%	0.0%	0.0%		5.6%
PB004470	33.3%	43.5%	44.4%	30.2%	31.3%	16.9%	0.0%	16.3%	7.7%	9.2%	14.8%	2.3%	1.2%	1.0%	0.0%	4.3%	0.0%	0.0%		10.4%
PB004471	0.0%	25.0%	4.5%	14.9%	3.2%	12.2%	22.5%	5.9%	6.7%	6.3%	3.9%	0.3%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%		5.4%
PB004472	14.3%	9.4%	10.0%	16.2%	12.5%	7.5%	5.6%	8.8%	22.7%	5.5%	13.3%	3.6%	0.0%	0.6%	0.0%	0.9%	0.0%	0.0%		4.2%
PB004473	0.0%	20.0%	0.0%	5.0%	0.0%	14.3%	0.0%	19.0%	0.0%	5.9%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%		2.0%
PB004474				0.0%	0.0%	0.0%		50.0%	0.0%	0.0%	0.0%	0.0%			0.0%	0.0%	0.0%			4.3%
PB004475	50.0%	27.3%	25.0%	31.5%	0.0%	18.3%	8.7%	16.9%	19.4%	6.7%	3.0%	2.6%	4.1%	1.0%	0.0%	0.0%	0.0%	0.0%		9.1%
PB004476	18.2%	15.4%	16.7%	12.6%	12.8%	11.2%	9.3%	10.0%	6.7%	2.6%	3.8%	2.4%	1.0%	0.9%	1.0%	0.0%	0.0%	0.0%	0.0%	4.8%
PB004479	0.0%	53.3%	50.0%	28.0%	25.0%	12.5%	50.0%	20.4%	12.5%	11.1%	10.0%	3.8%	1.7%	0.0%	2.8%	0.0%	0.0%	0.0%	0.0%	10.0%
PB004480	0.0%	27.3%	12.5%	20.8%	25.0%	25.0%	10.0%	13.3%	0.0%	9.8%	11.1%	6.6%	4.2%	1.4%	2.9%	0.0%	4.2%	0.0%		8.4%
PB004481	20.0%	52.9%	30.0%	29.2%	4.5%	23.3%	10.0%	17.4%	35.3%	4.7%	5.3%	5.9%	4.9%	3.0%	0.0%	0.0%	0.0%	0.0%		10.9%
PB004482	50.0%	50.0%	16.7%	26.3%	18.2%	26.2%	16.7%	11.8%	0.0%	11.1%	0.0%	1.6%	5.7%	1.2%	0.0%	0.0%	0.0%	0.0%		8.0%
PB004483	0.0%	7.7%	0.0%	9.4%	0.0%	9.4%	0.0%	8.2%	9.5%	4.6%	0.0%	1.0%	0.8%	1.1%	1.1%	1.6%	0.0%	0.0%	0.0%	2.4%
PB004485	50.0%	25.9%	17.6%	15.4%	21.2%	10.4%	22.9%	14.8%	15.1%	4.6%	6.7%	3.8%	0.8%	3.8%	0.0%	0.0%	0.0%	0.0%		7.4%
PB004486	17.4%	37.0%	28.1%	20.1%	21.3%	13.8%	15.5%	18.1%	9.1%	9.6%	6.3%	3.4%	0.5%	1.3%	1.1%	0.0%	0.0%	0.0%		10.2%
PB004487		0.0%	0.0%	41.7%	16.7%	7.7%	25.0%	22.7%	0.0%	17.1%	8.3%	4.9%	2.8%	0.0%	0.0%	1.2%	0.9%	0.0%		4.3%
PB004488	25.0%	35.4%	27.0%	21.1%	23.4%	17.7%	16.5%	18.1%	18.6%	7.7%	6.2%	1.9%	2.7%	4.5%	1.2%	0.0%	0.0%	0.0%		12.6%
PB004489	60.0%	15.0%	37.5%	11.9%	9.1%	6.9%	12.5%	5.5%	7.1%	3.9%	11.8%	2.8%	0.0%	2.0%	1.6%	0.0%	0.0%	0.0%		4.0%
PB004490	50.0%	0.0%	0.0%	20.0%	0.0%	13.0%	6.7%	13.3%	5.3%	3.9%	6.1%	0.0%	1.5%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	3.0%
PB004491	0.0%	45.5%	0.0%	0.0%	0.0%	10.0%	8.3%	2.6%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		2.1%
PB004493	50.0%	56.3%	50.0%	10.9%	25.9%	25.9%	9.5%	10.8%	12.1%	6.4%	7.1%	6.7%	0.7%	2.9%	0.0%	0.0%	0.0%	0.0%		8.5%
PB004494	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.8%
PB004495	0.0%	0.0%		0.0%	50.0%	0.0%	0.0%	12.5%		16.7%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.3%
PB004496	27.3%	40.6%	23.5%	23.7%	11.7%	12.6%	8.0%	14.4%	17.8%	13.6%	4.8%	3.2%	1.8%	2.8%	0.0%	0.0%	0.0%	0.0%		9.7%
PB004497	50.0%	14.3%	16.7%	27.3%	16.7%	8.3%	0.0%	28.0%	33.3%	4.0%	5.0%	1.6%	2.3%	0.7%	0.9%	0.5%	0.0%	0.0%		2.0%
PB004498	10.3%	4.3%	3.8%	4.5%	5.3%	6.1%	7.7%	11.2%	11.6%	4.9%	8.8%	4.7%	0.0%	2.6%	3.8%	5.9%	0.0%	0.0%		6.1%
PB004499	0.0%	100.0%	40.0%	31.3%	40.0%	31.3%	58.3%	28.3%	4.8%	13.8%	13.2%	4.8%	0.9%	3.3%	0.4%	0.0%	0.0%	0.0%		7.0%
PB004501	25.0%	25.8%	29.2%	21.3%	15.6%	16.4%	21.1%	17.4%	15.9%	9.7%	11.4%	2.5%	1.4%	4.4%	0.0%	1.7%	0.0%	0.0%		9.9%
PB004503	33.3%	10.0%	6.3%	4.3%	23.1%	10.5%	13.0%	7.6%	0.0%	8.7%	10.0%	0.0%	0.0%	1.5%	3.2%	0.0%	0.0%	0.0%		6.0%
PB004504	28.6%	23.5%	15.4%	14.6%	13.7%	12.8%	10.5%	15.3%	11.9%	8.0%	3.6%	4.6%	1.9%	1.9%	0.0%	0.0%	0.0%	0.0%		9.2%
PB004505	33.3%	34.2%	33.3%	23.7%	23.7%	18.5%	11.8%	25.0%	8.7%	12.5%	8.0%	4.4%	6.7%	3.8%	0.0%	0.0%	0.0%	0.0%		16.1%
PB004506	50.0%	27.3%	23.1%	24.6%	18.2%	13.3%	10.3%	11.1%	7.3%	6.7%	9.3%	3.6%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%		8.5%
PB004507	0.0%	17.6%	33.3%	19.7%	7.7%	11.6%	16.7%	9.2%	9.1%	10.9%	6.3%	2.2%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.8%
PB004508	14.3%	26.8%	18.4%	18.2%	9.7%	14.1%	17.3%	13.2%	11.8%	5.9%	4.2%	2.5%	1.2%	0.3%	0.6%	0.0%	0.0%	0.0%		6.6%
PB004510	0.0%	12.5%	0.0%	7.5%	5.3%	10.7%	15.4%	7.0%	5.6%	5.4%	0.0%	3.9%	0.0%	2.7%	1.0%	0.0%	0.0%	0.0%		3.7%
PB004511	40.0%	27.0%	21.4%	13.2%	15.0%	11.0%	20.3%	15.2%	11.1%	9.8%	5.8%	2.0%	1.8%	1.7%	0.0%	0.7%	0.0%	0.0%		7.6%
PB004512		0.0%	0.0%	0.0%	0.0%	7.1%	33.3%	4.2%	11.1%	11.4%	6.3%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%
PB004513	16.7%	24.0%	14.3%	20.6%	5.4%	14.7%	11.5%	12.1%	21.1%	7.1%	8.6%	4.1%	0.9%	0.8%	0.0%	1.5%	0.0%	0.0%		7.3%

2001 Massachusetts I&M Program Test Data
51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004514	50.0%	50.0%	0.0%	0.0%	20.0%	3.8%	0.0%	6.7%	22.2%	8.3%	0.0%	0.7%	0.0%	2.1%	1.3%	0.0%	1.2%	0.0%	0.0%	1.8%
PB004515	0.0%	60.0%	0.0%	0.0%	40.0%	8.0%	16.7%	15.0%	5.6%	9.0%	4.3%	0.0%	0.0%	0.0%	2.9%	1.6%	1.3%	0.0%		3.6%
PB004516	25.0%	15.8%	5.0%	17.6%	10.5%	12.4%	7.1%	17.8%	18.9%	8.6%	0.0%	2.6%	1.2%	0.0%	2.4%	0.0%	0.0%	0.0%		7.5%
PB004517	0.0%	12.5%	33.3%	7.7%	16.7%	10.9%	7.1%	20.3%	13.6%	12.7%	0.0%	4.3%	1.6%	0.5%	0.0%	0.0%	0.0%	0.0%		4.4%
PB004519	20.0%	33.3%	14.3%	8.3%	11.8%	21.1%	2.8%	18.1%	18.2%	10.4%	12.1%	5.3%	1.1%	1.4%	0.0%	2.5%	0.0%	0.0%		8.2%
PB004520	66.7%	35.7%	0.0%	15.4%	35.7%	20.5%	14.3%	15.8%	29.4%	6.0%	11.8%	4.5%	0.7%	0.9%	0.0%	1.9%	0.0%	0.0%	0.0%	6.9%
PB004521	29.6%	26.2%	21.1%	18.2%	20.3%	17.4%	15.6%	22.2%	15.2%	13.2%	9.3%	3.3%	1.8%	2.1%	0.0%	0.0%	1.8%	0.0%	0.0%	12.9%
PB004522	18.2%	26.2%	24.1%	20.0%	20.0%	16.1%	17.0%	20.0%	19.6%	8.6%	4.3%	3.0%	2.6%	0.0%	3.2%	2.4%	0.0%	0.0%		11.3%
PB004523		0.0%	33.3%	16.7%	0.0%	7.1%	0.0%	11.8%	9.1%	3.9%	10.5%	4.5%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%		2.5%
PB004524	60.0%	26.0%	13.0%	21.1%	6.3%	17.4%	9.6%	16.7%	14.3%	10.5%	2.5%	2.6%	2.0%	3.0%	1.4%	2.2%	0.0%	0.0%		7.4%
PB004525		16.7%	25.0%	8.3%	0.0%	0.0%	33.3%	11.5%	0.0%	6.6%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%		1.7%
PB004527		0.0%	0.0%	7.7%	0.0%	8.1%	0.0%	15.0%	0.0%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.6%
PB004528	0.0%	21.1%	9.1%	12.1%	10.0%	6.3%	7.1%	6.6%	7.0%	8.8%	9.4%	1.9%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%		4.1%
PB004529	50.0%	40.0%	43.8%	27.1%	34.3%	26.5%	25.0%	29.9%	20.8%	13.0%	10.3%	6.4%	4.5%	3.8%	6.8%	0.0%	0.0%	0.0%		16.9%
PB004531		19.0%	16.7%	40.7%	14.3%	12.2%	12.5%	15.2%	0.0%	5.2%	5.3%	6.1%	1.4%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	4.1%
PB004532	0.0%	16.7%	15.0%	20.7%	19.2%	9.3%	16.7%	16.7%	8.7%	15.7%	11.1%	2.8%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%		10.1%
PB004533	33.3%	18.8%	20.0%	16.3%	13.0%	7.2%	7.1%	10.3%	0.0%	1.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		4.7%
PB004534		27.3%	0.0%	16.1%	0.0%	13.2%	33.3%	14.3%	0.0%	8.5%	0.0%	6.0%	0.0%	2.4%	0.0%	0.0%				9.9%
PB004535	0.0%	22.2%	14.3%	22.3%	17.2%	14.9%	3.3%	15.0%	8.8%	9.0%	4.3%	2.0%	0.0%	0.0%	0.0%	3.1%	0.0%	0.0%		9.1%
PB004536	58.3%	26.4%	33.3%	21.6%	28.6%	16.3%	20.7%	17.0%	13.4%	8.1%	9.3%	4.4%	1.6%	1.5%	0.0%	0.0%	0.0%	0.0%		13.9%
PB004537	0.0%	33.3%	16.7%	30.0%		9.5%	0.0%	14.3%	0.0%	5.6%	0.0%	2.0%	2.4%	1.2%	0.0%	0.0%	0.0%	0.0%		3.1%
PB004538	0.0%	12.9%	14.3%	15.8%	30.0%	13.3%	10.8%	11.1%	9.3%	9.5%	2.4%	3.8%	1.8%	1.1%	0.0%	0.0%	0.0%	0.0%		7.8%
PB004539	100.0%	40.0%	0.0%	16.7%	0.0%	19.0%	75.0%	15.6%	0.0%	6.2%	9.7%	0.9%	1.1%	0.5%	0.7%	0.0%	0.0%	0.0%		2.3%
PB004542	36.8%	25.5%	15.0%	14.9%	20.8%	10.2%	19.2%	15.6%	17.2%	10.9%	5.9%	6.3%	5.6%	0.7%	0.0%	0.0%	0.0%	0.0%		8.5%
PB004543		0.0%		7.7%	40.0%	35.7%	16.7%	25.0%	14.3%	4.9%	0.0%	2.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%		5.2%
PB004544	33.3%	15.2%	25.0%	13.3%	4.3%	5.4%	14.8%	17.0%	12.5%	2.2%	8.3%	3.6%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%		6.2%
PB004545		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.0%	0.0%	9.1%	12.5%	0.9%	1.3%	0.3%	0.9%	1.1%	0.0%	0.0%		1.8%
PB004546	25.0%	0.0%	8.3%	2.9%	0.0%	0.0%	4.8%	3.0%	3.6%	2.3%	4.0%	0.9%	0.0%	0.3%	0.5%	0.0%	0.0%	0.0%		1.2%
PB004547	50.0%	25.0%	25.0%	24.1%	16.0%	15.1%	9.5%	7.2%	17.2%	7.6%	13.3%	1.4%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%		9.0%
PB004548	33.3%	21.4%	40.0%	19.0%	6.7%	18.7%	28.2%	20.0%	20.4%	5.2%	4.8%	1.7%	3.3%	2.5%	0.0%	0.0%	0.0%	0.0%		10.6%
PB004549	33.3%	24.3%	19.0%	26.8%	18.2%	23.4%	22.6%	25.1%	20.2%	18.7%	7.9%	3.6%	3.3%	2.4%	1.9%	0.0%	0.0%	0.0%		16.4%
PB004550	31.6%	36.7%	15.6%	15.9%	13.3%	12.7%	11.3%	13.2%	10.4%	4.7%	5.5%	2.6%	1.0%	2.6%	0.5%	0.0%	0.0%	0.0%		7.3%
PB004551	12.5%	28.3%	31.6%	24.5%	13.9%	12.1%	23.6%	17.9%	13.5%	6.6%	5.1%	3.2%	1.8%	2.4%	0.0%	1.9%	0.0%	0.0%	0.0%	10.1%
PB004552	100.0%	28.6%	37.5%	26.1%	33.3%	18.4%	8.3%	17.9%	16.7%	3.6%	11.1%	2.4%	4.3%	5.3%	0.0%	0.0%	0.0%	0.0%		12.0%
PB004553	40.0%	27.7%	38.9%	13.3%	7.0%	16.6%	15.1%	14.5%	12.3%	11.2%	0.0%	4.1%	4.2%	2.7%	1.1%	0.0%	0.0%	0.0%		8.9%
PB004554	33.3%	23.3%	25.0%	14.8%	27.3%	10.3%	9.1%	12.7%	14.1%	8.1%	5.9%	1.6%	2.1%	1.9%	0.0%	1.4%	0.0%	0.0%		7.5%
PB004555	20.0%	21.1%	7.7%	13.8%	18.2%	12.5%	5.4%	16.2%	13.9%	6.1%	9.1%	2.2%	0.8%	2.0%	0.0%	0.0%	0.0%	0.0%		5.1%
PB004556	15.8%	32.3%	28.6%	25.8%	12.1%	18.3%	22.2%	25.6%	24.1%	15.3%	16.2%	2.6%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		14.3%
PB004557	40.0%	28.1%	20.0%	23.0%	2.6%	6.4%	4.5%	13.4%	0.0%	3.7%	4.1%	0.5%	2.5%	1.2%	1.3%	1.9%	0.0%	0.0%		5.4%
PB004558		39.3%	36.4%	26.9%	22.2%	21.3%	24.2%	20.9%	11.1%	7.3%	15.8%	5.9%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		12.1%
PB004559	22.2%	9.1%	33.3%	15.7%	20.8%	9.0%	16.7%	13.3%	12.1%	6.0%	1.8%	0.7%	1.3%	0.5%	0.5%	0.0%	0.0%	0.0%		4.0%
PB004560	0.0%	36.7%	25.0%	13.6%	17.6%	8.1%	5.9%	9.1%	14.3%	2.7%	6.7%	4.6%	1.8%	2.8%	0.0%	0.0%	0.0%	0.0%		7.1%
PB004561	38.5%	25.7%	25.0%	19.6%	12.8%	10.1%	6.6%	14.6%	11.0%	8.0%	3.2%	4.0%	1.6%	0.9%	1.0%	0.0%	4.5%	0.0%	0.0%	9.2%
PB004562	28.6%	16.3%	23.8%	19.0%	13.2%	14.1%	10.0%	15.9%	15.9%	8.9%	2.8%	2.1%	1.3%	1.5%	0.0%	2.2%	0.0%	0.0%		7.1%
PB004563	57.1%	23.3%	25.6%	19.5%	14.1%	20.6%	15.0%	20.8%	12.8%	15.4%	12.7%	6.3%	2.6%	5.0%	2.2%	0.0%	0.0%	0.0%		13.8%
PB004564	35.0%	36.0%	23.5%	16.6%	19.8%	17.1%	17.3%	21.1%	13.6%	11.6%	6.6%	3.3%	2.3%	1.2%	0.6%	1.9%	0.0%	0.0%		12.7%
PB004565	0.0%	42.1%	25.0%	23.8%	12.0%	15.5%	21.4%	12.0%	20.7%	9.8%	0.0%	3.5%	2.2%	0.7%	0.0%	0.0%	0.0%	0.0%		7.6%
PB004567	50.0%	33.3%	25.0%	15.2%	19.0%	14.7%	11.5%	15.7%	15.6%	5.9%	3.6%	2.9%	0.5%	1.0%	0.0%	0.8%	0.0%	0.0%		5.5%
PB004568	0.0%	25.0%	0.0%	9.1%	33.3%	15.8%	16.7%	5.7%	10.0%	14.1%	3.4%	1.8%	1.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%
PB004569		100.0%		0.0%	50.0%	0.0%	33.3%	0.0%	12.5%	15.2%	0.0%	2.1%	0.0%	1.3%	1.9%	0.0%	0.0%	0.0%		2.2%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004570	0.0%	10.5%	33.3%	9.4%	14.3%	9.5%	4.3%	10.6%	15.4%	5.4%	7.5%	1.9%	1.5%	0.6%	1.5%	0.0%	0.0%	0.0%	0.0%	4.7%
PB004571	33.3%	26.1%	11.8%	21.7%	41.2%	18.6%	12.9%	19.8%	26.9%	9.5%	4.4%	3.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	9.8%
PB004572	0.0%	31.9%	16.0%	20.6%	21.2%	17.4%	8.7%	17.0%	13.0%	11.3%	2.6%	3.4%	1.1%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	11.1%
PB004573	10.0%	11.5%	28.6%	26.6%	32.1%	16.7%	30.0%	17.8%	16.0%	15.4%	11.9%	5.1%	1.7%	2.2%	2.4%	0.0%	4.3%	0.0%	0.0%	11.8%
PB004574	9.1%	28.3%	33.3%	14.7%	17.6%	8.8%	21.9%	15.6%	13.9%	10.6%	6.3%	4.9%	2.2%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
PB004575	0.0%	14.8%	14.8%	14.3%	14.3%	15.1%	4.7%	9.2%	9.8%	6.1%	3.0%	3.1%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%
PB004576	0.0%	19.4%	9.7%	11.6%	15.8%	8.6%	2.9%	11.8%	3.6%	5.6%	6.8%	0.0%	4.3%	0.0%	1.5%	4.0%	0.0%	0.0%	0.0%	6.1%
PB004577		20.0%	0.0%	19.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.1%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.9%
PB004578	0.0%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	8.3%	11.1%	5.9%	0.0%	5.9%	0.0%	0.0%	0.4%	0.4%	0.0%	0.0%	0.0%	1.7%
PB004579	100.0%	41.2%	20.0%	26.1%	7.7%	17.4%	9.1%	20.8%	22.2%	9.9%	7.3%	4.3%	1.7%	2.4%	0.0%	0.0%	2.1%	0.0%	0.0%	6.3%
PB004580	0.0%	0.0%	0.0%	20.0%	33.3%	3.7%	20.0%	8.3%	0.0%	8.1%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%
PB004581		0.0%	0.0%	4.8%	0.0%	2.9%	0.0%	8.1%	10.0%	8.3%	0.0%	0.0%	0.0%	1.4%	0.9%	0.0%	0.3%	0.0%	0.0%	1.3%
PB004582	0.0%	0.0%	0.0%	0.0%	25.0%	7.1%	11.1%	14.3%	25.0%	1.6%	3.5%	1.6%	1.6%	0.3%	0.4%	0.0%	0.0%	0.0%	0.0%	1.0%
PB004583		28.6%	0.0%	5.9%	0.0%	5.3%	12.5%	8.8%	6.3%	7.9%	12.5%	3.1%	1.6%	0.0%	0.0%	0.0%	0.7%	0.0%		2.2%
PB004584	0.0%	20.0%	0.0%	16.7%	50.0%	8.3%	50.0%	8.3%	0.0%	20.5%	0.0%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%
PB004585	42.9%	22.5%	8.3%	12.4%	22.2%	9.6%	3.3%	15.7%	4.2%	10.5%	2.8%	3.2%	0.0%	2.4%	2.0%	0.0%	0.0%	0.0%	0.0%	8.1%
PB004586	50.0%	9.1%	0.0%	19.4%	11.1%	18.6%	5.0%	17.9%	12.9%	8.0%	8.1%	1.7%	4.2%	0.0%	4.3%	6.5%	0.0%	0.0%		6.8%
PB004588	13.6%	24.3%	28.3%	22.1%	24.3%	17.7%	20.0%	14.3%	27.3%	12.4%	6.5%	3.4%	5.8%	0.4%	1.7%	0.0%	0.0%	0.0%	0.0%	11.2%
PB004589	0.0%	34.8%	25.0%	19.7%	19.2%	11.6%	13.6%	10.2%	11.5%	12.9%	10.3%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.2%
PB004590	50.0%	23.1%	33.3%	24.6%	12.8%	17.1%	12.1%	16.8%	10.9%	9.1%	6.1%	5.0%	5.1%	2.4%	0.0%	1.3%	0.0%	0.0%		8.8%
PB004591	0.0%	20.8%	16.7%	15.6%	25.0%	16.5%	9.5%	17.9%	15.2%	7.9%	12.2%	4.8%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%
PB004592	20.0%	42.9%	38.9%	18.2%	21.7%	7.0%	14.8%	19.5%	11.1%	11.1%	10.0%	8.1%	1.6%	0.0%	0.0%	6.3%	0.0%	0.0%		11.8%
PB004593	100.0%	25.0%	0.0%	14.3%	0.0%	25.0%	0.0%	8.3%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%
PB004594	0.0%	29.6%	25.0%	21.8%	8.7%	12.6%	26.7%	17.3%	7.7%	9.4%	6.9%	2.9%	4.5%	2.8%	6.7%	3.9%	0.0%	0.0%		9.5%
PB004595	0.0%	27.9%	18.2%	20.3%	15.8%	12.8%	12.5%	20.8%	7.1%	7.3%	2.4%	2.9%	2.3%	2.4%	0.0%	0.0%	0.0%	0.0%		9.9%
PB004596	20.0%	36.0%	26.3%	13.6%	11.5%	16.1%	13.5%	14.6%	16.1%	8.9%	7.4%	1.9%	0.8%	1.9%	1.1%	0.0%	0.0%	0.0%		7.7%
PB004597	41.2%	37.8%	24.2%	17.5%	14.3%	12.7%	13.0%	17.4%	8.5%	7.6%	1.8%	4.4%	1.4%	1.6%	1.5%	0.0%	0.0%	0.0%		10.3%
PB004599	23.1%	29.0%	12.9%	10.5%	19.6%	12.1%	13.7%	17.4%	21.8%	7.8%	3.2%	2.2%	0.4%	1.2%	0.8%	0.0%	0.0%	0.0%		6.3%
PB004601	0.0%	0.0%	0.0%	0.0%	16.7%	21.1%	12.5%	15.6%	23.1%	4.3%	3.3%	1.8%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%
PB004603	0.0%	50.0%		0.0%	100.0%	20.0%		20.0%	0.0%	11.1%	0.0%	0.0%	3.1%	1.1%	0.0%	6.2%	0.7%	1.1%		2.5%
PB004604	20.0%	29.5%	25.0%	18.3%	22.2%	14.0%	8.5%	14.1%	11.7%	9.7%	3.0%	2.8%	2.0%	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%	7.8%
PB004605	0.0%	0.0%	0.0%	0.0%	3.4%	4.7%	3.5%	5.2%	5.1%	2.8%	0.0%	0.7%	0.0%	1.0%	1.7%	0.0%	0.0%	0.0%		1.9%
PB004606	50.0%	14.3%		22.7%	0.0%	5.3%	33.3%	13.9%	0.0%	7.6%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		3.9%
PB004607	23.1%	26.2%	18.4%	22.8%	16.2%	11.8%	11.3%	17.0%	8.5%	9.0%	5.7%	5.4%	3.9%	2.2%	1.4%	0.0%	0.0%	0.0%		9.1%
PB004608	0.0%	25.0%	25.0%	11.9%	7.7%	8.1%	20.0%	15.1%	14.3%	8.2%	8.1%	2.3%	1.5%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%
PB004609	50.0%	8.3%	20.0%	24.0%	30.8%	27.8%	13.0%	23.4%	9.5%	21.3%	8.7%	2.4%	1.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	11.0%
PB004610	33.3%	27.8%	33.3%	17.0%	22.2%	17.4%	22.2%	16.7%	26.3%	8.2%	10.5%	1.3%	1.2%	1.7%	1.9%	0.0%	0.0%	0.0%		7.9%
PB004611	25.0%	36.8%	0.0%	25.5%	45.5%	14.6%	26.7%	13.5%	11.8%	5.2%	0.0%	1.9%	7.1%	1.2%	0.0%	0.0%	0.0%	0.0%		9.3%
PB004612	17.6%	14.1%	24.6%	15.5%	16.0%	13.4%	17.3%	19.6%	17.2%	9.2%	4.5%	5.2%	3.5%	3.1%	0.0%	0.0%	0.0%	0.0%		12.8%
PB004613		0.0%		16.7%	0.0%	7.7%	0.0%	0.0%	0.0%	11.8%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		4.1%
PB004614	33.3%	25.0%	28.6%	19.6%	13.2%	13.9%	8.6%	13.8%	8.1%	8.0%	2.2%	1.6%	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%		6.8%
PB004615	100.0%	21.7%	12.5%	10.6%	15.0%	8.5%	5.6%	10.6%	13.3%	8.7%	2.2%	4.6%	1.9%	1.3%	0.0%	0.0%	0.0%	0.0%		6.1%
PB004616	27.3%	21.7%	20.8%	12.5%	18.9%	13.9%	6.7%	10.0%	15.7%	8.2%	6.3%	2.5%	3.3%	1.4%	0.0%	0.0%	1.3%	0.0%	0.0%	6.6%
PB004617	50.0%	38.5%	16.7%	10.7%	16.7%	9.5%	44.4%	5.3%	8.3%	5.6%	7.7%	2.2%	2.8%	4.1%	0.0%	1.4%	0.0%	0.0%		6.5%
PB004619	0.0%	0.0%	0.0%	29.2%	20.0%	27.3%	18.2%	19.0%	0.0%	9.4%	7.1%	2.5%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%		10.1%
PB004620	50.0%	34.5%	11.1%	20.0%	33.3%	12.9%	9.1%	13.0%	16.7%	7.4%	0.0%	3.4%	7.1%	4.1%	11.1%	0.0%	0.0%	0.0%		12.1%
PB004621	20.0%	14.3%	23.1%	12.5%	16.7%	15.7%	2.1%	13.3%	11.6%	9.9%	11.8%	2.1%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%		9.0%
PB004623	33.3%	21.4%	6.7%	17.6%	29.4%	17.0%	15.8%	19.6%	8.3%	10.2%	13.0%	5.6%	3.6%	3.6%	3.4%	0.0%	0.0%	0.0%		10.4%
PB004624	30.0%	40.0%	13.0%	21.5%	16.7%	14.5%	11.1%	17.6%	14.6%	11.7%	10.6%	4.9%	0.6%	2.3%	3.0%	0.0%	1.1%	0.0%	0.0%	9.3%
PB004626		20.0%	0.0%	15.0%	0.0%	4.8%	16.7%	11.9%	18.2%	0.0%	0.0%	3.1%	0.0%	0.7%	0.5%	0.0%	0.0%	0.0%		2.3%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004627	25.0%	47.8%	18.8%	16.4%	37.0%	24.7%	22.7%	17.5%	7.1%	7.8%	26.7%	2.7%	3.3%	0.0%	3.8%	0.0%	0.0%	0.0%		13.5%
PB004628	75.0%	36.7%	12.5%	28.3%	33.3%	10.3%	7.7%	12.7%	0.0%	6.5%	0.0%	0.0%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%		9.8%
PB004629	0.0%	40.0%	22.2%	22.2%	38.5%	15.5%	10.7%	25.4%	25.0%	11.7%	10.3%	4.5%	6.1%	2.8%	1.3%	3.1%	0.9%	0.0%	0.0%	7.9%
PB004630	33.3%	20.0%	14.7%	18.1%	12.6%	10.3%	7.9%	15.2%	12.5%	9.1%	4.7%	2.5%	1.3%	1.7%	0.0%	0.0%	0.0%	0.0%		8.7%
PB004631	66.7%	20.0%	0.0%	15.2%	0.0%	13.2%	11.1%	1.9%	22.2%	8.2%	4.5%	3.5%	0.0%	1.3%	2.5%	0.0%	0.0%	0.0%		4.8%
PB004632		9.1%	0.0%	5.9%	33.3%	7.7%	11.8%	9.9%	0.0%	11.4%	3.3%	1.9%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		2.3%
PB004633	21.4%	16.1%	14.8%	7.9%	12.2%	13.5%	13.0%	9.6%	4.4%	3.0%	5.9%	0.7%	1.4%	1.0%	0.0%	0.0%	0.0%	0.0%		5.5%
PB004634	0.0%	14.3%	21.1%	9.5%	16.7%	16.7%	15.2%	11.3%	9.1%	7.5%	2.4%	3.8%	0.0%	1.4%	0.7%	0.0%	0.0%	0.0%		5.6%
PB004635	38.5%	35.8%	22.6%	19.7%	25.4%	15.5%	19.6%	26.1%	11.3%	13.2%	5.7%	1.6%	1.8%	3.1%	2.0%	0.0%	0.0%	0.0%	0.0%	12.1%
PB004636	47.4%	21.7%	28.2%	17.6%	21.7%	15.6%	14.1%	17.4%	21.7%	13.1%	6.1%	3.6%	3.2%	1.1%	0.0%	0.0%	1.4%	0.0%		9.8%
PB004637		14.3%	40.0%	20.5%	15.4%	11.9%	33.3%	8.4%	11.1%	7.1%	5.6%	3.9%	0.0%	2.4%	1.2%	1.6%	0.0%	0.0%		5.8%
PB004638	0.0%	20.0%	0.0%	15.8%	16.7%	8.0%	0.0%	20.7%	0.0%	4.4%	7.1%	1.7%	1.9%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	2.4%
PB004639	0.0%	0.0%		0.0%	0.0%	6.9%	0.0%	6.3%	0.0%	6.9%	4.2%	2.1%	0.0%	2.4%	0.0%	1.3%	0.0%	0.0%		2.0%
PB004640	25.0%	39.1%	15.0%	16.0%	31.0%	14.0%	16.7%	12.1%	12.5%	14.1%	2.4%	2.1%	3.0%	0.0%	1.6%	0.0%	0.0%	0.0%		10.6%
PB004641	33.3%	33.3%	50.0%	7.1%	0.0%	0.0%	0.0%	12.5%	28.6%	0.0%	0.0%	1.7%	2.0%	2.2%	0.0%	0.0%	0.0%	0.0%		2.1%
PB004642	62.5%	21.8%	33.3%	19.0%	18.8%	21.6%	14.3%	14.2%	12.3%	6.1%	2.8%	2.8%	1.3%	0.8%	0.0%	0.7%	0.0%	0.0%		7.5%
PB004643	0.0%	14.3%	0.0%	30.0%	12.5%	3.1%	0.0%	8.9%	14.3%	1.5%	7.7%	0.0%	0.9%	2.5%	0.7%	0.0%	0.0%	0.0%		2.2%
PB004644	40.0%	12.5%	40.0%	16.8%	15.4%	9.8%	16.1%	12.5%	2.4%	7.4%	1.5%	1.0%	1.2%	2.5%	1.7%	0.0%	0.0%	0.0%		5.4%
PB004645	25.0%	23.5%	22.0%	18.5%	19.0%	16.3%	15.9%	16.0%	7.0%	11.9%	8.0%	4.7%	1.4%	1.3%	2.0%	0.0%	0.0%	0.0%		9.8%
PB004646	33.3%	22.2%	21.1%	15.7%	11.8%	12.6%	8.1%	11.2%	10.3%	4.9%	0.0%	2.0%	1.0%	2.6%	2.7%	0.0%	0.0%	0.0%		6.6%
PB004647	25.0%	20.0%	0.0%	22.2%	10.5%	21.4%	17.9%	17.5%	8.6%	7.7%	9.1%	2.6%	1.4%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%
PB004648	0.0%	22.2%	33.3%	10.0%	0.0%	9.4%	0.0%	11.8%	16.0%	6.0%	3.3%	2.0%	0.9%	0.0%	1.0%	0.0%	0.0%	3.2%		3.4%
PB004650	33.3%	22.7%	35.7%	12.5%	9.1%	5.8%	7.1%	13.2%	20.8%	4.5%	5.0%	3.0%	1.8%	0.6%	0.0%	0.0%	0.0%	0.0%		6.0%
PB004651	25.0%	7.7%	25.0%	0.0%	16.7%	3.3%	11.1%	0.0%	0.0%	2.9%	5.9%	3.0%	0.0%	0.5%	0.8%	0.6%	0.9%	0.0%	0.0%	1.7%
PB004653	33.3%	24.0%	43.8%	23.2%	14.0%	18.3%	10.3%	14.2%	20.0%	8.6%	9.7%	2.7%	2.0%	1.6%	0.8%	0.0%	0.0%	0.0%		8.3%
PB004654	5.9%	11.5%	8.7%	11.0%	2.1%	7.0%	7.7%	8.8%	2.0%	5.7%	4.9%	3.3%	2.5%	1.6%	0.0%	0.0%	0.0%	0.0%		4.8%
PB004655		0.0%		0.0%	0.0%	7.1%	0.0%	19.0%	0.0%	2.6%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%
PB004656	11.1%	21.4%	20.0%	5.0%	7.1%	8.3%	15.9%	16.1%	9.1%	10.6%	7.0%	2.1%	1.9%	1.6%	0.9%	0.0%	0.0%	0.0%		5.8%
PB004657	100.0%	26.1%	22.2%	13.7%	11.1%	8.9%	16.0%	10.1%	11.5%	6.9%	0.0%	3.1%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	4.9%
PB004658	0.0%	20.0%	33.3%	16.7%	22.2%	7.7%	0.0%	14.3%	0.0%	7.1%	8.7%	1.7%	2.4%	2.2%	1.2%	0.0%	0.0%	0.0%		4.6%
PB004659	20.0%	42.9%	33.3%	12.4%	25.0%	7.5%	18.2%	11.2%	22.2%	15.4%	9.1%	7.5%	2.9%	11.9%	9.1%	0.0%	0.0%	0.0%		10.8%
PB004660	33.3%	22.7%	19.2%	20.3%	11.8%	19.2%	20.0%	15.4%	10.6%	7.4%	5.5%	3.0%	0.0%	2.0%	1.6%	0.0%	0.0%	0.0%		9.6%
PB004661	25.0%	24.6%	17.2%	13.2%	14.0%	8.9%	15.6%	7.9%	12.2%	5.5%	5.5%	0.7%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%		5.8%
PB004662	20.0%	35.7%	16.7%	15.2%	16.7%	9.1%	5.6%	10.1%	13.3%	3.5%	5.7%	1.9%	1.6%	0.7%	0.0%	1.4%	2.0%	0.0%		5.8%
PB004663	11.1%	26.2%	29.4%	19.2%	17.2%	16.7%	22.7%	12.2%	0.0%	10.6%	0.0%	4.3%	4.8%	0.8%	3.1%	0.0%	0.0%	0.0%		9.8%
PB004664	0.0%	9.2%	4.3%	10.0%	6.8%	8.7%	4.8%	6.4%	6.4%	4.0%	2.9%	0.5%	0.5%	0.9%	0.5%	0.7%	0.0%	0.0%	0.0%	3.5%
PB004665	24.4%	24.6%	31.3%	15.7%	15.5%	19.5%	14.6%	16.3%	2.2%	9.4%	6.7%	1.7%	2.9%	4.5%	0.0%	0.0%	0.0%	0.0%		11.5%
PB004666	0.0%	23.5%	18.2%	10.3%	26.7%	11.6%	15.4%	8.9%	0.0%	5.4%	0.0%	3.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%		4.6%
PB004668	11.1%	13.4%	26.3%	19.0%	10.7%	14.5%	9.8%	11.3%	7.8%	5.0%	10.8%	1.9%	0.0%	0.4%	0.0%	0.0%	1.8%	0.0%	0.0%	6.1%
PB004669	44.4%	27.3%	19.0%	30.8%	9.8%	14.0%	16.2%	16.8%	14.3%	9.2%	4.5%	2.9%	4.9%	2.0%	0.0%	0.0%	0.0%	0.0%		9.1%
PB004670	3.8%	14.9%	6.5%	11.2%	5.4%	7.3%	7.2%	10.4%	3.8%	7.1%	4.4%	2.9%	1.6%	2.0%	0.0%	0.0%	0.0%	0.0%		6.1%
PB004671	27.3%	29.3%	14.9%	18.1%	10.7%	12.7%	12.3%	12.4%	0.0%	5.2%	1.9%	2.4%	1.5%	1.2%	0.0%	0.0%	0.0%	0.0%		8.5%
PB004672	20.0%	22.2%	17.6%	11.1%	10.0%	6.9%	30.8%	11.4%	7.7%	10.8%	6.9%	2.6%	3.3%	1.3%	0.0%	0.0%	0.0%	0.0%		6.4%
PB004673	0.0%	11.1%	0.0%	17.4%	25.0%	6.2%	0.0%	8.0%	0.0%	2.4%	0.0%	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%		4.5%
PB004676		20.0%		12.5%	20.0%	31.3%	0.0%	24.0%	0.0%	8.8%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		3.4%
PB004677		0.0%	0.0%	0.0%	0.0%	9.1%	0.0%	8.7%	9.1%	9.0%	10.0%	3.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%
PB004678	14.3%	21.3%	21.7%	10.6%	10.0%	7.7%	15.8%	5.5%	2.7%	4.9%	6.3%	0.6%	1.0%	0.4%	0.0%	0.0%	0.0%	0.0%		4.5%
PB004679		33.3%	0.0%	9.1%	20.0%	12.5%	0.0%	0.0%	0.0%	4.9%	0.0%	1.9%	0.0%	0.3%	0.5%	0.0%	0.0%	0.0%		1.2%
PB004680	50.0%	0.0%	50.0%	6.3%	16.7%	21.4%	22.2%	13.0%	18.2%	14.6%	6.7%	0.0%	2.2%	0.0%	0.0%	0.0%	2.8%	0.0%	0.0%	5.2%
PB004681	0.0%	37.5%	100.0%	4.3%	28.6%	5.7%	25.0%	9.1%	5.9%	9.3%	6.7%	3.8%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%		3.0%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004682	0.0%	10.0%	20.0%	14.6%	10.0%	8.1%	6.7%	12.7%	8.7%	10.7%	0.0%	3.4%	1.7%	1.5%	0.0%	0.0%	0.0%	0.0%		5.4%
PB004683	0.0%	18.8%	9.1%	14.7%	33.3%	7.1%	40.0%	10.2%	0.0%	6.7%	9.1%	0.7%	1.1%	1.5%	5.9%	0.0%	0.0%	0.0%		5.8%
PB004684	22.2%	10.4%	0.0%	8.1%	9.0%	4.7%	2.3%	7.1%	2.4%	4.8%	6.1%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		4.1%
PB004685	12.5%	28.0%	25.9%	15.1%	24.2%	10.0%	9.4%	14.7%	15.8%	8.5%	2.3%	2.8%	2.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%
PB004687	40.0%	14.5%	26.3%	15.1%	14.6%	7.9%	10.9%	14.4%	4.8%	8.3%	8.6%	1.8%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.7%
PB004688	25.0%	15.4%	0.0%	21.7%	8.3%	8.6%	9.5%	13.6%	0.0%	10.8%	0.0%	2.5%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%		7.2%
PB004689	50.0%	20.0%	0.0%	11.8%	20.0%	2.3%	0.0%	6.4%	0.0%	1.9%	9.1%	1.1%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%		3.2%
PB004690	25.0%	33.3%	16.7%	14.3%	18.2%	20.2%	11.8%	16.2%	18.8%	11.0%	6.7%	1.9%	2.2%	1.8%	0.0%	0.0%	0.0%	0.0%		9.4%
PB004691	0.0%	14.1%	22.7%	15.7%	7.0%	7.7%	4.8%	9.2%	11.8%	7.1%	9.0%	1.6%	0.3%	0.9%	0.0%	0.7%	0.0%	0.0%		5.1%
PB004692	20.0%	33.3%	11.8%	20.0%	11.1%	12.5%	16.7%	12.7%	15.2%	11.1%	15.4%	6.8%	6.9%	3.8%	0.0%	0.0%	0.0%	0.0%		9.9%
PB004693	40.0%	13.5%	4.4%	10.7%	7.0%	6.4%	7.4%	10.9%	3.0%	8.0%	4.3%	2.2%	1.0%	1.0%	0.0%	0.0%	0.0%	0.0%		5.7%
PB004695																				0.0%
PB004696	28.6%	22.6%	20.0%	20.7%	21.3%	14.9%	15.2%	18.4%	5.8%	12.2%	6.7%	3.7%	2.5%	0.8%	0.0%	0.0%	0.0%	0.0%		7.6%
PB004697		0.0%	0.0%	20.0%	0.0%	18.8%	33.3%	14.3%	0.0%	6.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.8%	0.0%	0.0%		1.8%
PB004698	0.0%	27.6%	37.5%	13.7%	18.4%	12.0%	4.9%	16.8%	12.8%	5.0%	1.9%	2.4%	3.4%	4.4%	2.6%	0.0%	0.0%	0.0%		8.7%
PB004699	16.7%	13.0%	13.3%	12.1%	21.2%	12.6%	11.6%	14.9%	7.3%	7.2%	3.2%	2.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	9.1%	4.6%
PB004700	23.5%	32.3%	22.6%	26.9%	18.5%	16.7%	5.7%	18.8%	16.2%	7.4%	4.1%	2.8%	1.2%	1.3%	0.5%	0.0%	0.0%	0.0%		9.6%
PB004701		75.0%	40.0%	10.3%	16.7%	7.5%	0.0%	7.4%	0.0%	8.7%	10.0%	1.5%	1.0%	0.0%	0.0%	1.4%	0.0%	0.0%		3.8%
PB004704	25.0%	14.6%	13.0%	21.7%	8.7%	10.3%	4.7%	4.6%	4.1%	0.9%	4.9%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		4.2%
PB004705	100.0%	28.6%	0.0%	33.3%	0.0%	29.2%	0.0%	18.8%	0.0%	10.4%	0.0%	4.3%	0.0%	0.0%	0.0%	5.3%	0.0%			9.8%
PB004706	50.0%	39.5%	27.3%	23.1%	15.8%	11.8%	11.8%	18.8%	37.5%	11.5%	18.2%	7.9%	0.0%	2.0%	0.0%	11.1%	0.0%	0.0%		13.6%
PB004707	40.0%	31.3%	15.4%	13.3%	16.7%	15.7%	10.5%	19.7%	6.7%	13.3%	5.6%	5.1%	0.0%	5.5%	0.0%	0.0%	0.0%	0.0%		12.1%
PB004708	50.0%	17.9%	29.2%	15.5%	9.1%	13.9%	15.6%	14.0%	10.5%	6.1%	6.0%	1.5%	3.4%	0.0%	0.0%	0.7%	0.0%	0.0%		6.0%
PB004709	0.0%	17.1%	8.7%	13.1%	14.3%	12.9%	17.5%	13.4%	13.6%	4.7%	4.4%	1.8%	3.1%	4.0%	2.3%	0.0%	0.0%	0.0%		6.9%
PB004710	50.0%	12.0%	0.0%	8.5%	10.0%	8.8%	0.0%	7.0%	0.0%	9.8%	0.0%	1.6%	0.8%	0.0%	0.8%	0.8%	1.0%	0.0%	0.0%	3.1%
PB004711	11.1%	27.3%	23.8%	6.7%	15.4%	10.2%	5.9%	13.0%	10.3%	6.0%	3.7%	1.1%	0.9%	2.5%	1.0%	2.1%	0.0%	0.0%		6.5%
PB004713	0.0%	11.1%	20.0%	12.1%	0.0%	6.3%	7.1%	6.5%	0.0%	1.8%	3.1%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%
PB004714	0.0%	17.7%	10.7%	12.7%	7.8%	9.6%	10.0%	5.8%	14.9%	5.6%	5.5%	2.0%	1.7%	0.9%	1.3%	0.0%	0.0%	0.0%		5.4%
PB004715	0.0%	0.0%		37.5%	16.7%	23.8%	0.0%	10.0%	0.0%	6.6%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		3.0%
PB004716	25.0%	4.3%	28.6%	24.1%	20.6%	19.3%	20.0%	10.8%	23.1%	10.8%	5.4%	4.3%	2.8%	4.3%	2.3%	0.0%	2.6%	0.0%		9.3%
PB004718	0.0%	25.0%	0.0%	28.6%	25.0%	4.3%	0.0%	9.5%	0.0%	18.8%	0.0%	7.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		6.7%
PB004719	50.0%	26.7%	0.0%	11.1%	0.0%	12.9%	0.0%	16.2%	7.7%	10.7%	0.0%	3.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.5%
PB004720	0.0%	18.5%	28.6%	25.8%	10.5%	10.4%	12.1%	15.0%	2.9%	8.3%	11.8%	4.8%	1.3%	1.6%	0.0%	3.2%	0.0%	0.0%		9.2%
PB004721	100.0%	31.8%	0.0%	10.3%	0.0%	9.2%	18.8%	13.6%	4.5%	5.4%	4.0%	3.1%	2.3%	1.4%	0.0%	0.0%	0.0%	0.0%		5.2%
PB004722	0.0%	18.5%	0.0%	5.9%	19.2%	5.4%	8.6%	12.2%	0.0%	5.1%	2.2%	2.9%	1.2%	0.5%	0.0%	0.0%	0.0%	0.0%		4.0%
PB004723		0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	4.5%	0.0%	3.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.9%
PB004724	50.0%	19.7%	19.0%	8.3%	0.0%	5.7%	6.9%	7.3%	3.6%	2.7%	0.0%	0.5%	1.0%	1.0%	0.0%	0.0%	0.0%	0.0%		4.6%
PB004725		42.9%	25.0%	21.4%	25.0%	19.4%	16.7%	11.8%	0.0%	7.9%	10.0%	1.3%	8.8%	2.6%	0.0%	0.0%	0.0%	0.0%		7.8%
PB004727	40.0%	40.0%	37.5%	15.6%	9.1%	8.2%	10.0%	4.8%	0.0%	7.8%	6.3%	3.0%	5.3%	2.5%	0.0%	0.0%	0.0%	0.0%		7.5%
PB004728	100.0%	15.8%	40.0%	17.8%	16.7%	9.8%	4.2%	8.8%	10.5%	7.7%	5.0%	2.4%	1.3%	2.5%	0.0%	0.0%	0.0%	0.0%		5.4%
PB004729	21.4%	32.4%	28.1%	18.6%	23.8%	10.8%	4.4%	17.6%	8.3%	10.5%	2.8%	2.4%	1.5%	2.1%	2.2%	2.2%	0.0%	0.0%		9.8%
PB004730				0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.9%
PB004731	0.0%	20.8%	25.0%	12.9%	0.0%	10.5%	22.2%	7.3%	14.3%	7.6%	14.3%	3.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.1%
PB004733		23.5%	0.0%	18.0%	0.0%	9.2%	12.5%	17.5%	25.0%	7.3%	10.0%	2.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%		7.7%
PB004734	28.6%	28.6%	17.6%	16.6%	21.2%	16.0%	13.5%	12.2%	12.3%	6.8%	1.2%	3.8%	1.4%	1.3%	1.0%	0.0%	0.0%	0.0%		8.6%
PB004735	30.0%	15.0%	15.8%	11.6%	3.7%	11.5%	13.8%	7.5%	11.6%	3.8%	2.4%	1.0%	0.9%	1.5%	0.0%	1.3%	0.0%	0.0%		4.7%
PB004736	0.0%	28.6%	0.0%	22.5%	0.0%	11.4%	0.0%	13.4%	14.3%	10.9%	4.5%	4.3%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		6.6%
PB004738	0.0%	18.2%	23.1%	9.3%	13.3%	12.3%	10.5%	8.8%	0.0%	7.3%	17.6%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.1%
PB004739	0.0%	8.1%	11.8%	9.1%	1.8%	5.5%	1.8%	7.1%	2.4%	5.4%	2.1%	2.1%	0.8%	0.6%	0.8%	0.0%	0.0%	0.0%	0.0%	3.6%
PB004740	0.0%	13.6%	20.0%	16.7%	5.9%	10.5%	5.9%	18.4%	6.7%	2.8%	0.0%	2.7%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%		6.3%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004741	20.0%	13.3%	16.2%	10.8%	9.1%	6.1%	10.1%	11.2%	12.2%	11.2%	6.0%	2.5%	1.6%	3.8%	1.2%	0.0%	0.0%	0.0%	0.0%	6.7%
PB004742		0.0%		25.0%	33.3%	17.6%	50.0%	15.4%	0.0%	3.8%	0.0%	0.0%	0.0%	0.0%	7.1%	0.0%	0.0%	0.0%	0.0%	4.3%
PB004743				28.6%		7.1%	0.0%	5.9%	0.0%	0.0%	0.0%	1.9%	2.8%	0.0%	1.9%	2.9%	0.0%	0.0%		1.7%
PB004744		80.0%	0.0%	16.7%	0.0%	13.3%	0.0%	5.6%	0.0%	3.5%	0.0%	1.7%	0.0%	1.8%	1.7%	2.4%	0.0%	0.0%		3.0%
PB004745	0.0%	23.3%	26.1%	17.3%	13.9%	15.2%	7.9%	12.0%	7.5%	8.8%	7.0%	2.8%	1.3%	2.6%	0.0%	5.9%	0.0%	0.0%		7.7%
PB004746	0.0%	25.9%	14.3%	10.4%	26.7%	8.4%	14.3%	13.4%	4.3%	6.7%	6.7%	2.5%	0.8%	3.0%	0.0%	3.0%	0.0%	0.0%		5.1%
PB004747		30.0%	0.0%	19.2%	14.3%	13.2%	40.0%	27.3%	28.6%	18.5%	0.0%	4.5%	10.0%	1.8%	0.0%	0.0%	0.0%	0.0%		11.4%
PB004748	0.0%	27.8%	0.0%	17.5%	11.1%	13.3%	6.7%	11.1%	0.0%	8.0%	11.1%	0.9%	1.4%	1.3%	0.0%	0.0%	0.0%	0.0%		6.7%
PB004749	0.0%	0.0%		25.0%		12.1%	25.0%	2.9%	16.7%	0.0%	0.0%	2.7%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%		2.7%
PB004750	0.0%	0.0%	100.0%	13.3%	0.0%	7.5%	16.7%	6.3%	0.0%	15.1%	0.0%	3.6%	7.7%	2.4%	0.0%	3.4%	0.0%	0.0%		6.3%
PB004751		0.0%	66.7%	8.3%	14.3%	2.2%	0.0%	1.5%	0.0%	4.2%	0.0%	0.8%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%		1.8%
PB004752	50.0%	31.3%	50.0%	13.0%	0.0%	3.6%	0.0%	10.7%	10.0%	2.5%	3.7%	3.1%	1.5%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%
PB004754	0.0%	15.8%	12.5%	15.5%	9.3%	11.7%	13.0%	13.9%	11.6%	9.9%	10.0%	2.4%	1.3%	1.4%	1.1%	1.5%	1.3%	0.0%		6.1%
PB004755	0.0%	20.7%	18.8%	13.5%	6.9%	6.5%	11.1%	10.9%	9.8%	6.6%	3.4%	1.1%	2.5%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%
PB004756	25.0%	39.3%	10.0%	16.4%	6.9%	12.3%	6.7%	12.3%	2.6%	8.1%	0.0%	2.5%	0.8%	0.9%	0.0%	0.0%	0.0%	0.0%		6.4%
PB004757	50.0%	46.2%	35.7%	25.0%	29.4%	26.1%	35.7%	14.8%	17.4%	12.7%	3.7%	4.3%	1.4%	0.0%	2.3%	0.0%	0.0%	0.0%		10.8%
PB004758	0.0%	32.0%	17.6%	12.3%	11.6%	16.0%	7.4%	11.6%	14.6%	9.7%	4.4%	2.0%	2.3%	0.7%	2.0%	0.0%	0.0%	0.0%		7.3%
PB004759	0.0%	13.8%	0.0%	8.3%	10.5%	11.5%	0.0%	11.8%	5.6%	7.8%	7.7%	3.2%	2.2%	0.7%	0.0%	0.0%	0.0%	0.0%		5.2%
PB004760	33.3%	20.0%	0.0%	10.5%	5.9%	3.4%	9.4%	11.6%	14.3%	4.4%	0.0%	1.8%	1.3%	1.1%	2.0%	0.0%	0.0%	0.0%		4.3%
PB004761	50.0%	34.3%	25.0%	18.4%	7.1%	9.6%	11.1%	9.5%	6.1%	3.7%	3.2%	4.0%	3.2%	2.0%	0.0%	0.0%	0.0%	0.0%		7.6%
PB004762	0.0%	15.6%	14.3%	11.8%	10.0%	14.0%	4.3%	12.2%	4.0%	4.8%	8.7%	3.9%	1.7%	0.5%	0.0%	0.0%	0.0%	0.0%		6.2%
PB004763	32.0%	19.1%	18.2%	11.6%	14.4%	16.5%	15.5%	15.6%	15.5%	8.8%	8.5%	6.3%	1.9%	1.0%	1.4%	1.5%	0.0%	0.0%		10.1%
PB004765	20.0%	9.1%	0.0%	16.4%	7.1%	10.2%	5.6%	13.1%	13.0%	9.5%	8.7%	1.1%	1.4%	0.9%	3.3%	0.0%	0.0%	0.0%		6.7%
PB004766			0.0%	12.5%	0.0%	0.0%	0.0%	18.8%	0.0%	8.7%	0.0%	1.4%	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%		2.0%
PB004767	0.0%	15.1%	9.4%	11.4%	8.7%	13.1%	11.4%	13.3%	8.2%	8.9%	5.9%	2.6%	0.0%	1.8%	2.0%	6.3%	0.0%	0.0%		8.1%
PB004768	42.9%	24.4%	17.6%	20.4%	16.7%	12.4%	11.5%	10.0%	2.7%	4.7%	9.3%	2.2%	0.6%	1.0%	0.0%	0.0%	0.0%	0.0%		6.2%
PB004769	50.0%	14.3%	23.1%	9.5%	10.3%	8.0%	6.5%	16.0%	4.5%	4.8%	10.7%	1.8%	1.2%	1.0%	0.0%	0.0%	0.0%	0.0%		6.6%
PB004770	20.0%	26.9%	27.3%	6.6%	10.0%	11.9%	19.0%	10.1%	4.5%	7.6%	2.9%	1.1%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%
PB004773	33.3%	29.6%	16.7%	18.4%	29.4%	17.6%	12.5%	12.9%	27.3%	6.9%	5.9%	4.7%	3.9%	4.9%	0.0%	0.0%	0.0%	0.0%		10.3%
PB004774	80.0%	21.1%	30.8%	15.7%	10.5%	10.1%	12.2%	15.7%	20.0%	6.4%	1.3%	2.1%	1.8%	0.9%	0.8%	0.0%	0.0%	0.0%		6.0%
PB004775	28.6%	12.0%	14.8%	13.6%	15.5%	9.5%	3.2%	9.3%	7.1%	4.0%	1.4%	1.8%	1.5%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%
PB004777	50.0%	15.8%	20.0%	14.8%	7.1%	11.6%	0.0%	8.7%	4.2%	6.5%	2.6%	2.9%	0.6%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%
PB004778	16.7%	20.8%	16.0%	14.0%	17.1%	9.4%	7.3%	10.5%	9.8%	5.1%	0.0%	2.4%	1.1%	2.3%	0.0%	0.0%	0.0%	0.0%		5.6%
PB004779	0.0%	16.7%	25.0%	11.1%	0.0%	10.3%	20.0%	14.0%	0.0%	5.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.7%
PB004781	42.9%	25.0%	23.5%	14.5%	20.0%	17.6%	5.9%	14.6%	12.2%	9.2%	0.0%	3.3%	0.7%	0.7%	0.0%	0.0%	0.0%	0.0%		7.5%
PB004782	15.4%	34.9%	12.9%	19.4%	12.5%	11.3%	15.3%	12.6%	16.0%	11.6%	6.0%	1.7%	2.6%	2.7%	2.8%	0.0%	4.8%	0.0%		9.2%
PB004783	33.3%	28.2%	16.9%	16.7%	19.8%	10.8%	20.2%	12.3%	10.9%	9.9%	9.9%	3.1%	1.3%	2.2%	0.8%	1.2%	1.1%	0.0%	0.0%	7.2%
PB004784		66.7%	0.0%	0.0%	33.3%	40.0%	25.0%	11.1%	0.0%	26.7%	0.0%	0.0%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%		9.0%
PB004785		18.2%	50.0%	33.3%	57.1%	38.9%	33.3%	29.8%	20.0%	30.0%	0.0%	12.7%	6.9%	0.0%	2.0%	0.0%	0.0%	0.0%		12.2%
PB004786	0.0%	50.0%	14.3%	4.8%	20.0%	6.9%	10.5%	10.3%	11.1%	0.0%	3.0%	1.7%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.3%
PB004787	27.3%	28.6%	31.8%	25.0%	21.4%	28.3%	15.6%	19.7%	16.7%	12.1%	10.3%	1.7%	1.6%	2.7%	2.9%	2.9%	0.0%	0.0%		13.6%
PB004788	0.0%	21.4%	0.0%	6.3%	0.0%	3.8%	22.2%	12.3%	16.7%	1.0%	0.0%	1.8%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%		2.0%
PB004790	37.8%	30.7%	25.4%	22.5%	20.3%	18.6%	11.0%	24.4%	13.8%	14.6%	9.2%	7.1%	2.0%	1.0%	0.0%	0.0%	0.0%	0.0%		16.7%
PB004792				0.0%		33.3%		40.0%		0.0%	50.0%	0.0%	0.0%	0.0%		0.0%				14.8%
PB004793		14.3%	0.0%	18.5%	0.0%	4.9%	25.0%	3.5%	33.3%	3.1%	12.5%	2.1%	6.7%	1.7%	0.0%	0.0%	0.8%	0.0%		2.9%
PB004794		5.3%	50.0%	19.0%	20.0%	17.7%	0.0%	5.8%	0.0%	5.3%	5.6%	1.9%	0.6%	1.7%	0.0%	0.0%	0.0%	0.0%		4.3%
PB004795	11.1%	15.4%	0.0%	16.0%	10.5%	10.0%	9.1%	9.7%	4.5%	5.2%	8.7%	2.3%	0.6%	2.1%	0.9%	0.0%	0.0%	0.0%	0.0%	4.5%
PB004796	0.0%	13.6%	20.0%	7.2%	8.0%	3.6%	6.3%	8.9%	4.5%	5.7%	4.3%	0.6%	1.9%	2.7%	0.0%	0.0%	0.0%	0.0%		5.2%
PB004798	62.5%	22.6%	25.0%	2.2%	20.0%	14.6%	17.4%	28.7%	24.3%	14.7%	12.3%	6.0%	3.0%	1.9%	0.8%	0.9%	0.0%	0.0%		10.1%
PB004799	0.0%	26.1%	18.2%	12.5%	10.8%	11.7%	13.0%	13.9%	5.9%	7.7%	9.8%	2.2%	1.7%	0.0%	2.3%	0.0%	0.0%	0.0%		6.3%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004800	100.0%	17.4%	0.0%	10.3%	10.7%	14.1%	6.5%	9.4%	6.9%	3.5%	9.4%	1.1%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%		4.8%
PB004801	50.0%	46.2%	21.7%	34.3%	37.7%	23.1%	28.3%	22.5%	10.9%	10.1%	8.2%	6.1%	1.9%	0.9%	0.0%	0.0%	0.0%	0.0%		13.2%
PB004802	0.0%	30.0%	20.0%	11.5%	5.6%	11.2%	10.3%	6.3%	13.6%	6.6%	12.9%	1.5%	2.4%	0.0%	2.4%	1.5%	0.0%	0.0%		5.1%
PB004803	0.0%	21.4%	0.0%	17.2%	7.7%	19.4%	18.2%	11.9%	6.7%	4.5%	4.0%	1.4%	1.3%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%
PB004804	0.0%	11.5%	21.1%	11.6%	3.7%	11.3%	3.7%	12.8%	3.1%	6.3%	8.1%	3.6%	1.0%	0.0%	0.0%	3.3%	0.0%	0.0%		5.8%
PB004805	50.0%	30.9%	26.7%	23.1%	13.7%	16.7%	11.9%	12.2%	7.5%	8.4%	6.6%	2.6%	3.7%	1.5%	0.9%	0.0%	0.0%	0.0%		8.6%
PB004806	36.4%	18.1%	29.4%	18.9%	18.0%	10.5%	12.7%	12.8%	9.0%	6.3%	3.9%	2.9%	1.1%	1.0%	0.0%	0.8%	0.0%	0.0%		6.9%
PB004807		16.7%	0.0%	9.1%	0.0%	5.0%	0.0%	9.5%	25.0%	8.3%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%
PB004808	25.0%	31.3%	0.0%	18.4%	14.3%	11.9%	4.8%	5.3%	0.0%	4.0%	7.7%	2.4%	3.1%	4.6%	2.6%	0.0%	0.0%	0.0%		5.2%
PB004810		0.0%	100.0%	0.0%	33.3%	8.3%	0.0%	11.1%	0.0%	6.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.6%
PB004811	50.0%	21.4%	0.0%	12.9%	6.3%	10.9%	17.4%	15.3%	4.0%	5.8%	0.0%	1.5%	4.8%	3.4%	0.0%	0.0%	0.0%	0.0%		6.9%
PB004812	22.2%	26.7%	23.5%	16.8%	11.4%	8.9%	18.8%	12.7%	7.4%	8.0%	0.0%	2.6%	1.8%	0.7%	0.0%	0.0%	0.0%	0.0%		7.5%
PB004813	0.0%	25.0%	33.3%	21.4%	0.0%	0.0%	0.0%	3.4%	0.0%	0.9%	0.0%	2.4%	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%		1.5%
PB004814	16.7%	26.4%	15.4%	14.9%	18.9%	10.2%	8.9%	14.2%	9.3%	2.7%	8.2%	4.9%	3.3%	2.2%	0.0%	0.0%	0.0%	0.0%		7.6%
PB004815	0.0%	50.0%	0.0%	14.3%	0.0%	33.3%	0.0%	0.0%	20.0%	3.9%	0.0%	0.0%	1.4%	1.5%	5.8%	5.3%	0.0%	0.0%	0.0%	3.3%
PB004816	33.3%	23.9%	40.6%	20.6%	33.3%	26.4%	25.6%	16.9%	20.0%	13.6%	8.8%	4.8%	3.2%	1.6%	0.0%	0.0%	0.0%	0.0%		15.6%
PB004818				14.3%	0.0%	40.0%		0.0%	0.0%	0.0%	0.0%	3.2%	4.3%	0.0%	0.0%	3.6%	3.0%	0.0%		2.7%
PB004819	33.3%	23.9%	9.5%	14.0%	8.5%	12.4%	5.2%	9.9%	14.3%	6.4%	7.9%	3.1%	0.6%	1.0%	0.6%	0.4%	0.0%	0.0%		5.3%
PB004820	30.0%	15.8%	35.3%	12.7%	13.9%	11.7%	8.3%	21.3%	3.0%	11.8%	8.9%	2.3%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		8.8%
PB004821	50.0%	13.9%	18.2%	30.0%	8.0%	8.2%	20.6%	15.8%	10.0%	9.2%	5.0%	2.1%	0.6%	1.0%	0.0%	1.6%	0.0%			7.1%
PB004822	0.0%	11.1%	20.0%	14.3%	0.0%	0.0%	0.0%	2.0%	0.0%	5.7%	3.7%	3.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%
PB004823	0.0%	5.4%	22.2%	1.4%	0.0%	3.0%	0.0%	1.4%	0.0%	1.9%	0.0%	2.1%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%		1.9%
PB004824	33.3%	21.1%	13.9%	12.3%	11.9%	10.6%	5.5%	8.6%	15.0%	4.5%	10.8%	1.9%	1.4%	1.3%	0.0%	6.7%	0.0%	0.0%		8.1%
PB004825	0.0%	23.4%	16.7%	19.4%	16.7%	9.8%	9.3%	12.0%	1.9%	4.8%	3.8%	1.3%	0.4%	2.1%	1.6%	1.2%	0.0%	0.0%		5.1%
PB004826	28.6%	24.3%	28.6%	19.5%	0.0%	10.1%	0.0%	10.5%	11.1%	4.6%	4.5%	2.6%	2.0%	5.1%	0.0%	0.0%	0.0%	0.0%		8.1%
PB004827	30.0%	36.4%	42.9%	22.1%	23.5%	28.2%	13.5%	23.6%	26.3%	15.7%	12.5%	4.4%	3.3%	0.6%	1.0%	0.0%	0.0%	0.0%		13.5%
PB004828	0.0%	23.8%	16.7%	12.0%	20.0%	20.3%	16.7%	20.8%	18.2%	7.4%	10.0%	3.0%	2.3%	2.7%	0.0%	0.0%	5.3%	0.0%		9.3%
PB004829	0.0%	21.6%	12.5%	9.4%	6.1%	7.3%	3.2%	12.4%	12.1%	4.7%	0.0%	2.9%	0.9%	1.0%	0.0%	0.0%	0.0%	0.0%		6.3%
PB004830		0.0%	0.0%	3.8%	0.0%	10.9%	0.0%	16.7%	0.0%	3.6%	0.0%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%		2.5%
PB004831	0.0%	33.3%	33.3%	6.9%	22.2%	11.4%	14.3%	20.9%	11.1%	5.3%	8.7%	2.7%	1.8%	1.4%	2.0%	0.0%	0.0%	0.0%		6.9%
PB004833	50.0%	10.0%	16.7%	11.1%	11.8%	11.1%	0.0%	22.2%	0.0%	15.4%	10.5%	0.0%	0.0%	14.3%	0.0%	0.0%	16.7%	0.0%		10.4%
PB004834	0.0%	20.0%	33.3%	17.6%	14.3%	9.5%	16.7%	10.7%	0.0%	4.4%	6.3%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%		3.6%
PB004835	33.3%	21.7%	12.0%	17.5%	13.3%	9.4%	1.8%	12.4%	5.6%	5.8%	1.2%	2.9%	0.4%	0.7%	1.1%	1.3%	0.0%	0.0%		6.5%
PB004836	30.0%	16.7%	25.0%	12.8%	10.3%	8.9%	10.3%	7.0%	2.4%	4.4%	1.6%	1.5%	0.6%	1.0%	0.0%	0.0%	0.0%	0.0%		5.2%
PB004837	33.3%	19.6%	25.0%	18.8%	26.5%	17.1%	15.4%	10.9%	14.0%	7.9%	11.0%	1.7%	1.6%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	7.8%
PB004838	45.5%	33.3%	23.3%	14.1%	27.7%	13.5%	19.5%	10.6%	5.5%	8.5%	2.9%	2.4%	1.0%	0.4%	1.0%	0.0%	0.0%	0.0%	0.0%	7.6%
PB004839	22.7%	17.1%	13.8%	15.5%	15.7%	10.1%	9.8%	16.4%	13.0%	10.9%	2.5%	4.0%	0.5%	1.9%	1.0%	0.0%	0.0%	0.0%		9.1%
PB004840	25.0%	10.2%	8.7%	11.6%	10.6%	7.4%	7.8%	8.1%	11.8%	5.3%	2.2%	0.6%	2.9%	1.6%	0.8%	0.0%	0.0%	0.0%		4.5%
PB004841		41.7%	50.0%	27.8%	40.0%	20.0%	0.0%	3.2%	0.0%	3.8%	0.0%	0.9%	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%		3.6%
PB004842	12.5%	20.8%	0.0%	5.8%	0.0%	4.9%	5.0%	4.0%	6.7%	2.2%	0.0%	5.9%	1.8%	1.5%	0.0%	0.0%	0.0%	0.0%		4.1%
PB004843	30.0%	23.4%	33.3%	7.3%	23.9%	10.8%	10.5%	9.9%	7.3%	6.0%	2.2%	1.5%	0.0%	0.7%	0.7%	0.0%	0.0%	0.0%	0.0%	5.2%
PB004844	0.0%	25.0%	33.3%	16.7%	0.0%	8.3%	33.3%	15.0%	8.3%	2.4%	0.0%	2.9%	0.8%	0.0%	0.0%	0.0%	2.4%	0.0%		2.9%
PB004845	16.7%	18.2%	12.5%	9.8%	14.3%	6.7%	10.3%	15.0%	20.7%	5.8%	17.9%	0.5%	0.0%	0.0%	0.0%	2.7%	0.0%	0.0%		7.0%
PB004846	33.3%	0.0%	20.0%	13.8%	0.0%	5.0%	0.0%	15.4%	23.1%	5.0%	5.9%	1.9%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.9%
PB004847	100.0%	25.0%	37.5%	16.7%	20.0%	25.0%	10.0%	9.1%	17.4%	5.5%	3.0%	7.2%	1.3%	0.5%	1.8%	0.0%	0.0%	0.0%		4.4%
PB004848	0.0%	12.5%	28.6%	9.2%	9.7%	8.4%	16.0%	11.3%	6.3%	7.1%	9.1%	1.9%	5.7%	1.5%	0.0%	0.0%	0.0%	0.0%		6.9%
PB004849	50.0%	30.8%	18.5%	18.1%	18.6%	14.1%	13.7%	17.0%	14.3%	12.4%	6.5%	3.4%	2.0%	2.1%	0.0%	0.0%	0.0%	0.0%		9.8%
PB004850	40.0%	21.9%	12.5%	14.1%	16.7%	8.2%	0.0%	12.0%	25.0%	9.3%	6.3%	5.9%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%		8.6%
PB004851	100.0%	23.1%	11.1%	18.9%	11.1%	5.1%	0.0%	21.8%	10.5%	8.0%	4.2%	3.1%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%		5.8%
PB004853	0.0%	17.4%	14.3%	23.2%	0.0%	9.8%	18.2%	10.4%	6.3%	4.3%	8.3%	1.8%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%		6.6%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004854	16.7%	39.6%	18.3%	21.7%	16.8%	17.1%	11.7%	13.6%	19.7%	10.5%	9.4%	3.6%	4.2%	2.0%	1.1%	1.6%	2.6%	0.0%		11.6%
PB004855	100.0%	32.0%	33.3%	18.2%	22.7%	6.6%	6.7%	11.4%	14.8%	7.1%	6.3%	2.7%	0.0%	1.7%	0.0%	1.6%	0.0%	0.0%		6.1%
PB004856	0.0%	38.9%	22.2%	21.2%	15.8%	15.7%	14.3%	10.3%	11.1%	5.1%	20.0%	2.8%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%		9.1%
PB004857	30.0%	24.3%	32.1%	10.8%	11.4%	10.3%	7.1%	11.9%	5.0%	7.6%	6.3%	3.9%	1.3%	2.2%	0.0%	0.0%	0.0%	0.0%		8.8%
PB004858	25.0%	35.7%	16.7%	16.0%	8.3%	15.1%	12.9%	17.9%	19.4%	15.5%	5.6%	4.5%	1.6%	1.7%	0.0%	0.0%	0.0%	0.0%		8.6%
PB004859	0.0%	19.6%	18.2%	13.1%	13.6%	13.3%	4.3%	9.7%	4.9%	7.8%	0.0%	3.4%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%		6.5%
PB004860	8.0%	3.5%	1.8%	1.6%	2.6%	2.9%	4.5%	3.3%	0.0%	2.2%	1.6%	3.9%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%		2.6%
PB004861		9.1%	33.3%	23.3%	12.5%	5.3%	0.0%	15.0%	0.0%	9.4%	10.0%	0.0%	3.5%	3.2%	0.0%	0.0%	0.0%	0.0%		7.3%
PB004862	16.7%	21.3%	19.0%	10.9%	10.7%	10.3%	17.2%	12.2%	0.0%	3.9%	3.7%	0.9%	1.5%	0.6%	0.0%	0.0%	0.0%	0.0%		5.9%
PB004863		33.3%		50.0%	100.0%	0.0%	0.0%	8.8%	0.0%	8.2%	0.0%	0.0%	0.0%	0.7%	1.0%	1.3%	0.0%	0.0%	0.0%	2.3%
PB004864	40.0%	19.0%	30.0%	17.8%	15.6%	16.5%	10.8%	19.1%	13.2%	8.8%	10.7%	4.1%	4.5%	6.6%	3.3%	0.0%	0.0%	0.0%	0.0%	10.6%
PB004865	0.0%	12.5%	25.0%	17.5%	0.0%	8.7%	5.3%	15.2%	8.0%	6.2%	2.4%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%		3.4%
PB004866	11.1%	22.4%	14.3%	19.3%	14.8%	16.5%	17.7%	13.1%	18.4%	8.5%	7.9%	2.6%	1.6%	1.1%	1.2%	0.0%	0.0%	0.0%		7.7%
PB004867	0.0%	30.8%	11.1%	9.7%	0.0%	15.2%	0.0%	10.8%	7.7%	4.5%	0.0%	3.2%	0.0%	4.7%	5.3%	4.5%	0.0%	0.0%		7.5%
PB004868	23.1%	27.6%	13.3%	13.0%	17.1%	13.9%	10.6%	13.1%	7.1%	7.3%	2.9%	2.3%	2.9%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%
PB004869	28.6%	27.9%	21.9%	21.9%	12.5%	9.6%	11.1%	7.0%	12.5%	6.6%	3.8%	5.7%	1.4%	2.1%	0.0%	4.2%	0.0%	0.0%		9.7%
PB004870	28.6%	19.4%	33.3%	15.9%	11.1%	11.5%	5.1%	14.7%	6.1%	3.9%	5.1%	1.5%	1.5%	0.4%	0.0%	0.6%	0.0%	0.0%	0.0%	5.6%
PB004872		33.3%	25.0%	22.2%	33.3%	5.9%	0.0%	17.5%	25.0%	10.6%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	1.7%	0.0%	0.0%	2.3%
PB004873	50.0%	26.1%	0.0%	12.7%	14.3%	12.3%	17.6%	8.3%	3.4%	5.6%	6.9%	2.2%	1.8%	2.8%	0.0%	2.1%	0.0%	0.0%		5.6%
PB004874		20.0%	25.0%	18.2%	7.7%	11.5%	0.0%	6.4%	0.0%	1.8%	0.0%	2.0%	0.0%	0.6%	1.1%	0.0%	0.0%	0.0%		3.1%
PB004875	14.3%	29.3%	6.7%	12.0%	2.8%	9.3%	13.8%	9.0%	15.9%	3.3%	2.3%	2.9%	0.0%	1.5%	0.0%	1.6%	0.0%	0.0%		5.3%
PB004876		20.0%	50.0%	16.7%		12.5%	28.6%	3.3%	0.0%	10.9%	0.0%	1.7%	2.4%	0.0%	0.0%	0.0%	5.9%	0.0%	0.0%	3.9%
PB004877	33.3%	28.9%	16.7%	16.7%	0.0%	13.6%	19.0%	17.9%	9.4%	8.4%	5.0%	3.4%	2.3%	1.2%	1.7%	2.3%	0.0%	0.0%	0.0%	6.3%
PB004878	45.5%	43.2%	12.0%	17.4%	28.6%	19.4%	17.4%	16.7%	11.1%	15.9%	3.3%	0.9%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%		12.6%
PB004879	75.0%	34.6%	27.3%	21.4%	33.3%	20.9%	15.0%	20.0%	19.0%	7.5%	18.8%	2.3%	2.2%	0.0%	3.8%	0.0%	0.0%	0.0%		14.1%
PB004880	28.6%	13.8%	11.8%	17.0%	10.9%	9.4%	14.9%	11.8%	6.6%	8.7%	7.1%	2.2%	2.6%	1.6%	1.4%	0.9%	0.0%	0.0%	0.0%	5.8%
PB004881	50.0%	0.0%	0.0%	0.0%	16.7%	5.9%	0.0%	4.9%	33.3%	0.0%	0.0%	1.8%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%
PB004882	50.0%	24.0%	37.5%	14.9%	25.0%	20.8%	15.4%	19.1%	7.4%	10.2%	4.8%	3.2%	1.1%	2.9%	0.0%	3.8%	0.0%	0.0%		10.3%
PB004884	37.5%	31.6%	20.0%	19.3%	8.6%	17.3%	0.0%	9.4%	21.7%	6.7%	12.0%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		11.1%
PB004885	16.7%	28.6%	33.3%	22.9%	11.1%	13.9%	16.0%	10.2%	19.2%	7.7%	16.7%	3.5%	1.7%	2.5%	0.0%	0.0%	0.0%	0.0%		8.6%
PB004886	17.9%	22.2%	19.8%	23.2%	21.6%	15.2%	13.5%	20.8%	15.3%	10.4%	7.3%	4.2%	1.5%	2.2%	0.8%	4.3%	0.0%	0.0%	0.0%	12.3%
PB004887	22.2%	18.8%	17.7%	9.9%	11.1%	9.7%	5.6%	13.6%	13.4%	9.2%	1.8%	2.5%	0.0%	0.6%	1.1%	0.0%	0.0%	0.0%		7.5%
PB004888	16.7%	22.4%	22.6%	17.2%	18.4%	13.3%	8.9%	14.7%	15.4%	7.6%	7.7%	6.2%	1.4%	0.5%	0.0%	1.2%	0.0%	0.0%	0.0%	8.2%
PB004889	20.0%	32.0%	7.1%	19.1%	14.8%	13.2%	10.0%	17.5%	6.7%	9.9%	0.0%	7.0%	6.5%	2.8%	0.0%	3.6%	2.3%	0.0%		10.0%
PB004892	0.0%	16.0%	28.6%	9.8%	30.8%	10.0%	7.4%	8.5%	0.0%	4.0%	3.1%	3.8%	1.0%	1.8%	2.0%	0.0%	0.0%	0.0%		5.3%
PB004893	0.0%	33.3%	20.0%	13.8%	26.1%	17.3%	15.0%	17.0%	20.0%	6.9%	5.6%	2.4%	0.0%	1.1%	1.2%	0.0%	0.0%	0.0%		7.2%
PB004894	50.0%	10.7%	28.6%	12.1%	0.0%	11.8%	0.0%	9.5%	4.2%	4.4%	4.2%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		4.1%
PB004895	0.0%	9.1%	28.6%	18.6%	13.3%	11.5%	0.0%	8.2%	5.6%	5.9%	3.7%	3.0%	1.6%	1.0%	0.0%	0.0%	0.0%	0.0%		4.4%
PB004896	0.0%	20.0%	18.2%	6.4%	22.2%	16.7%	8.3%	7.8%	8.7%	5.3%	7.7%	2.1%	3.0%	2.4%	0.0%	3.2%	16.7%	0.0%		6.8%
PB004897	0.0%	19.0%	11.1%	13.5%	11.1%	6.2%	30.8%	11.8%	16.7%	10.1%	18.8%	2.2%	2.0%	0.9%	2.3%	1.8%	0.0%	0.0%		6.4%
PB004898		17.6%	0.0%	15.4%	23.1%	13.9%	0.0%	6.9%	6.3%	5.1%	6.3%	1.8%	1.1%	0.8%	0.0%	0.0%	0.0%	0.0%		4.5%
PB004899	66.7%	14.3%	15.4%	15.0%	22.7%	9.1%	9.7%	13.4%	7.4%	4.1%	6.9%	1.4%	2.5%	1.0%	0.0%	0.0%	0.0%	0.0%		6.6%
PB004900	28.6%	27.3%	11.1%	12.7%	6.5%	7.4%	14.3%	15.6%	7.7%	7.3%	9.1%	1.2%	2.2%	0.9%	0.0%	0.0%	0.0%	0.0%		7.1%
PB004901	41.7%	13.0%	22.2%	11.7%	9.5%	5.7%	9.4%	12.1%	9.9%	5.3%	3.6%	2.4%	0.7%	1.2%	1.8%	0.0%	0.0%	0.0%		5.0%
PB004902		42.9%	0.0%	12.5%	0.0%	10.0%	0.0%	25.0%	0.0%	7.1%	0.0%	3.6%	1.9%	0.0%	1.6%	0.0%	0.0%	0.0%		3.5%
PB004903	33.3%	23.3%	33.3%	12.3%	7.9%	13.2%	7.5%	19.5%	7.7%	15.3%	9.1%	1.9%	0.8%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	8.7%
PB004904	100.0%	20.0%	0.0%	10.0%	14.3%	21.2%	8.3%	5.6%	7.7%	6.1%	7.1%	4.8%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%		4.2%
PB004905		37.5%	33.3%	9.5%	16.7%	19.6%	0.0%	9.1%	0.0%	3.3%	6.3%	2.7%	1.0%	0.0%	0.7%	0.0%	1.4%	0.0%	0.0%	3.2%
PB004907	20.0%	12.8%	28.6%	19.6%	0.0%	13.2%	0.0%	8.2%	5.9%	2.7%	0.0%	1.0%	0.0%	0.5%	1.1%	0.0%	0.0%	0.0%		4.4%
PB004908	25.0%	20.8%	0.0%	14.1%	7.1%	11.9%	7.7%	16.8%	12.5%	9.0%	9.3%	3.1%	3.4%	0.6%	3.9%	0.0%	2.5%	0.0%		6.9%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004909	75.0%	6.8%	0.0%	8.2%	0.0%	6.3%	0.0%	6.6%	10.5%	3.8%	3.8%	1.2%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%
PB004910										50.0%		0.0%	0.0%	0.0%						6.3%
PB004911	33.3%	25.0%	16.7%	29.8%	36.4%	15.2%	15.0%	25.8%	8.0%	12.6%	3.1%	4.8%	2.2%	1.3%	2.0%	0.0%	0.0%	0.0%	0.0%	10.1%
PB004912	11.1%	26.5%	25.0%	16.7%	17.0%	17.6%	16.0%	13.0%	13.4%	7.9%	2.9%	2.9%	4.1%	3.1%	3.0%	0.0%	2.8%	0.0%		8.1%
PB004913	0.0%	16.7%	11.1%	20.6%	10.5%	11.5%	10.7%	18.4%	5.1%	9.3%	3.0%	2.3%	3.6%	4.0%	1.4%	1.2%	0.0%	0.0%		7.0%
PB004914	15.4%	22.0%	0.0%	19.5%	15.9%	11.0%	15.9%	13.1%	12.9%	7.2%	2.9%	1.9%	0.0%	1.1%	0.0%	1.4%	0.0%	0.0%		7.4%
PB004915	38.9%	17.9%	17.9%	16.3%	12.5%	9.5%	18.2%	10.8%	5.6%	7.8%	5.3%	2.3%	0.8%	0.6%	0.0%	2.6%	0.0%	0.0%	0.0%	7.9%
PB004916	40.0%	30.8%	20.0%	31.8%	22.2%	13.2%	18.8%	14.3%	6.7%	15.4%	8.3%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		10.9%
PB004917	33.3%	30.8%	25.0%	22.5%	24.0%	14.7%	17.4%	20.5%	10.3%	7.9%	5.1%	2.5%	1.3%	3.4%	1.4%	0.0%	2.8%	0.0%		9.9%
PB004919		28.6%	0.0%	14.3%	18.8%	9.1%	23.1%	23.0%	14.3%	13.5%	11.1%	4.8%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%		8.5%
PB004921	0.0%	25.0%	33.3%	7.1%	0.0%	5.7%	14.3%	6.3%	0.0%	5.2%	3.8%	0.7%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		4.0%
PB004922	16.7%	15.2%	18.2%	10.9%	10.8%	8.8%	3.2%	13.0%	5.1%	6.9%	0.9%	2.2%	1.2%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	4.5%
PB004923	0.0%	0.0%	0.0%	23.1%	33.3%	14.3%	0.0%	7.4%	0.0%	5.6%	0.0%	2.8%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%
PB004926		40.0%	0.0%	0.0%	0.0%	6.7%	50.0%	9.1%	0.0%	12.1%	0.0%	1.2%	0.0%	1.1%	0.0%	1.7%	0.0%	0.0%		2.5%
PB004927	40.0%	25.0%	13.3%	10.9%	20.5%	10.4%	5.7%	12.6%	8.0%	6.5%	4.7%	2.2%	1.8%	0.7%	0.0%	0.0%	2.9%	0.0%		6.3%
PB004928	28.6%	37.6%	28.1%	25.6%	26.1%	22.4%	14.6%	18.8%	15.6%	13.7%	7.5%	5.4%	3.0%	1.9%	0.6%	0.7%	0.0%	0.0%	0.0%	13.6%
PB004930	25.0%	15.4%	11.8%	11.1%	0.0%	7.6%	13.6%	11.3%	9.4%	6.2%	0.0%	3.4%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		5.6%
PB004932	0.0%	20.0%	25.0%	8.7%	20.0%	12.3%	0.0%	6.7%	12.5%	6.2%	9.1%	3.1%	1.9%	2.2%	0.0%	0.0%	0.0%	0.0%		5.9%
PB004933	50.0%	26.9%	24.1%	18.9%	23.5%	18.8%	6.1%	16.0%	11.4%	10.9%	11.9%	2.9%	2.1%	0.0%	0.0%	3.0%	0.0%			12.2%
PB004934	0.0%	20.0%		12.5%	0.0%	0.0%	0.0%	13.3%	0.0%	13.0%	0.0%	2.0%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%		3.4%
PB004935	0.0%	22.4%	26.3%	10.5%	13.6%	11.0%	11.1%	11.9%	6.3%	6.9%	11.5%	3.0%	2.2%	0.0%	1.2%	0.8%	0.0%	0.0%		5.7%
PB004936	18.2%	22.7%	33.3%	17.4%	14.8%	18.2%	20.9%	12.6%	7.5%	7.1%	0.0%	4.0%	3.4%	0.0%	1.1%	0.0%	0.0%	0.0%		8.5%
PB004938	18.2%	25.9%	28.6%	15.5%	7.1%	14.0%	9.1%	21.2%	20.8%	9.8%	4.8%	2.2%	2.2%	1.7%	0.0%	0.0%	0.0%	0.0%		9.3%
PB004939	23.5%	35.5%	30.4%	18.0%	20.5%	12.5%	9.2%	9.0%	17.0%	7.4%	7.6%	1.6%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%		8.8%
PB004941		20.0%	0.0%	14.8%	40.0%	2.9%	14.3%	2.6%	0.0%	11.1%	0.0%	4.7%	0.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%
PB004942	25.0%		0.0%	11.1%	0.0%	18.2%	0.0%	0.0%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.4%
PB004943	100.0%	8.3%	14.3%	8.7%	28.6%	10.0%	28.6%	3.7%	16.7%	10.2%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		6.0%
PB004944	0.0%	19.5%	7.1%	6.3%	8.7%	6.1%	0.0%	16.7%	5.6%	6.2%	13.3%	0.6%	2.8%	0.0%	0.0%	0.0%	9.1%	0.0%		6.4%
PB004946	0.0%	8.3%	33.3%	15.4%	0.0%	11.6%	12.5%	11.5%	14.3%	1.7%	0.0%	0.0%	0.0%	2.4%	1.9%	0.0%	2.3%	0.0%	0.0%	3.6%
PB004947	50.0%	41.2%	80.0%	14.6%	30.0%	17.7%	25.0%	10.0%	44.4%	15.2%	16.7%	3.8%	2.0%	1.5%	0.0%	0.0%	0.0%	0.0%		11.5%
PB004948	0.0%	22.0%	25.0%	19.4%	10.8%	9.9%	11.3%	15.0%	15.4%	6.6%	5.1%	1.3%	1.9%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	6.8%
PB004949	0.0%	44.4%	0.0%	22.2%	9.1%	7.1%	0.0%	9.8%	0.0%	2.7%	0.0%	2.3%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		3.0%
PB004950	0.0%	27.3%	0.0%	8.7%	25.0%	17.9%	10.0%	14.0%	9.1%	8.8%	3.7%	0.0%	0.0%	0.6%	0.4%	0.0%	0.0%	0.0%		2.4%
PB004951																				0.0%
PB004952	100.0%	60.0%	100.0%	14.3%	33.3%	25.0%	100.0%	23.5%	20.0%	8.8%	0.0%	5.0%	8.7%	0.0%	0.0%	0.0%				12.4%
PB004954	0.0%	35.0%	14.3%	13.3%	4.5%	11.4%	8.1%	9.4%	11.6%	4.9%	0.0%	2.3%	0.8%	0.6%	0.9%	0.9%	4.8%	0.0%		4.7%
PB004957	33.3%	25.0%	0.0%	23.8%	0.0%	8.6%	0.0%	4.5%	0.0%	4.6%	0.0%	1.0%	1.7%	3.9%	0.0%	0.0%	0.0%	0.0%		2.8%
PB004958		0.0%	0.0%	0.0%	0.0%	23.1%	0.0%	37.5%	20.0%	3.7%	9.1%	1.9%	2.1%	1.4%	0.0%	0.0%	0.9%	0.0%		2.1%
PB004960	0.0%	11.1%	0.0%	11.1%	0.0%	16.7%	20.0%	4.2%	0.0%	1.4%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	1.2%	0.0%		1.0%
PB004961	50.0%	14.3%	9.1%	11.3%	3.3%	12.0%	4.2%	10.3%	15.8%	7.8%	7.7%	3.0%	0.0%	1.2%	3.0%	3.0%	0.0%	0.0%		6.1%
PB004962	33.3%	12.5%	0.0%	10.9%	22.9%	8.7%	8.8%	10.1%	5.3%	4.6%	6.0%	0.5%	1.1%	1.0%	1.7%	0.0%	0.0%	0.0%		4.0%
PB004963																				0.0%
PB004965		0.0%		0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%
PB004966																				0.0%
PB004967	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%
PB004968	0.0%	14.3%	16.7%	9.5%	0.0%	10.9%	0.0%	3.5%	4.0%	4.4%	0.0%	1.0%	0.0%	0.3%	0.0%	0.0%	1.0%	0.0%		1.5%
PB004969		0.0%	0.0%	15.4%	20.0%	8.3%	0.0%	15.2%	12.5%	6.3%	6.9%	0.0%	2.6%	0.9%	1.2%	1.4%	0.0%	0.0%		3.3%
PB004970		21.4%	25.0%	13.8%	11.1%	18.4%	16.7%	18.6%	9.1%	8.3%	2.6%	0.7%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%		2.9%
PB004971	16.7%	16.7%	31.6%	14.8%	19.2%	16.8%	16.7%	20.0%	0.0%	9.6%	4.7%	5.7%	2.8%	1.1%	1.4%	0.0%	0.0%	0.0%	0.0%	7.9%
PB004972	50.0%	30.0%	0.0%	11.1%	6.5%	7.2%	20.7%	11.8%	10.5%	5.7%	12.5%	5.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%		5.1%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB004973		80.0%	0.0%	0.0%	33.3%	0.0%		66.7%	50.0%		50.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	25.7%
PB004974	42.9%	29.5%	17.2%	13.9%	11.1%	11.2%	10.4%	11.3%	12.5%	5.5%	3.0%	1.5%	3.3%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	6.6%
PB004975	50.0%	17.2%	18.2%	14.7%	8.0%	10.0%	3.3%	6.5%	5.4%	3.6%	0.0%	1.9%	1.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	3.9%
PB004977	50.0%	44.0%	12.5%	26.8%	10.0%	11.1%	18.8%	17.0%	0.0%	8.0%	9.1%	2.1%	2.9%	7.3%	0.0%	0.0%	0.0%			10.7%
PB004978	0.0%	20.0%	14.3%	26.1%	0.0%	13.9%	0.0%	12.5%	0.0%	10.2%	15.4%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%			10.3%
PB004979																				0.0%
PB004980		50.0%		50.0%		14.3%	0.0%	9.5%		0.0%		17.6%	0.0%	0.0%	0.0%					8.2%
PB004981	20.0%	22.5%	25.0%	15.4%	14.0%	13.4%	10.3%	22.2%	14.8%	14.2%	1.8%	3.9%	2.5%	2.6%	1.2%	0.0%	0.0%	0.0%		9.9%
PB004982																				0.0%
PB004983		41.7%	0.0%	25.0%	0.0%	3.4%	0.0%	13.0%	0.0%	2.4%	5.9%	1.0%	3.2%	0.0%	0.0%	0.0%	0.7%	0.0%		2.2%
PB004984	35.7%	27.4%	23.5%	16.9%	15.6%	15.1%	2.6%	10.3%	9.8%	6.3%	8.5%	2.3%	1.5%	1.9%	0.0%	0.0%	0.0%	0.0%		8.0%
PB004985	25.0%	43.5%	20.0%	13.9%	19.2%	10.1%	15.2%	10.3%	21.1%	6.7%	0.0%	1.8%	0.8%	1.3%	0.0%	0.0%	2.6%	0.0%		6.2%
PB004987	50.0%	20.0%	50.0%	29.8%	0.0%	23.5%	6.3%	20.0%	30.0%	13.2%	0.0%	4.5%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%		13.4%
PB004988		25.0%		9.1%	0.0%	28.6%	50.0%	14.3%	0.0%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				11.5%
PB004989	71.4%	31.4%	28.0%	25.0%	16.7%	24.7%	19.0%	17.6%	41.2%	14.8%	5.0%	10.0%	6.5%	0.0%	7.1%	0.0%	9.1%			17.1%
PB004990	45.0%	23.0%	21.7%	15.4%	15.4%	16.7%	12.5%	14.9%	12.2%	5.0%	0.0%	3.2%	1.0%	1.4%	1.3%	0.0%	0.0%	0.0%		8.8%
PB004991	50.0%	16.7%	7.1%	13.7%	17.1%	6.9%	12.2%	14.0%	10.0%	6.3%	4.2%	1.5%	4.7%	2.9%	2.1%	0.0%	0.0%	0.0%	0.0%	6.5%
PB004992	14.3%	33.3%	20.0%	30.2%	32.0%	14.4%	0.0%	7.9%	15.0%	8.0%	4.5%	5.5%	1.1%	1.0%	0.0%	0.0%	0.0%	0.0%		10.1%
PB004993	0.0%	20.0%	0.0%	10.5%	0.0%	18.2%	18.2%	25.0%	11.1%	4.9%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			8.0%
PB004995	33.3%	34.0%	25.0%	13.1%	4.8%	11.9%	21.4%	7.4%	0.0%	4.0%	0.0%	2.1%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%		6.1%
PB004996	33.3%	40.5%	25.0%	29.6%	38.1%	23.8%	35.0%	19.6%	36.7%	15.6%	8.3%	3.5%	2.6%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	13.1%
PB004997	66.7%	43.9%	50.0%	23.4%	23.4%	16.2%	18.2%	15.6%	17.0%	6.2%	16.9%	1.7%	0.9%	0.0%	1.9%	0.0%	0.0%	0.0%		10.4%
PB004998	66.7%	50.0%	22.2%	33.3%	34.8%	31.0%	14.3%	29.5%	21.1%	9.0%	19.2%	5.7%	5.3%	5.4%	0.0%	0.0%	1.4%	0.0%		11.9%
PB004999	42.9%	25.9%	30.4%	12.9%	17.2%	9.7%	4.9%	11.2%	7.1%	5.8%	6.8%	0.6%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.5%
PB005000		0.0%	0.0%	31.3%	0.0%	12.5%	0.0%	4.5%	8.3%	3.2%	11.8%	2.8%	4.0%	2.3%	0.8%	0.0%	0.0%	0.0%		3.3%
PB005001																				0.0%
PB005002	41.2%	20.8%	33.3%	16.0%	13.2%	18.1%	7.7%	18.0%	16.3%	11.1%	6.3%	4.9%	2.7%	0.5%	1.0%	0.0%	0.0%	0.0%		9.4%
PB005003	42.9%	37.1%	20.8%	17.2%	13.3%	14.3%	7.5%	14.2%	7.4%	7.2%	5.1%	3.2%	1.2%	2.1%	0.8%	0.0%	1.3%	0.0%	0.0%	7.2%
PB005004	41.7%	14.0%	16.7%	18.8%	7.9%	16.8%	15.7%	13.5%	10.7%	5.0%	5.6%	2.3%	2.3%	0.6%	1.2%	0.0%	0.0%	0.0%		7.6%
PB005005		33.3%		0.0%	0.0%	0.0%	0.0%	16.7%	20.0%	4.5%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		2.4%
PB005006	33.3%	20.0%	9.1%	14.4%	21.2%	8.0%	11.1%	10.7%	0.0%	7.8%	11.4%	4.1%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%		6.9%
PB005007				16.7%		75.0%	0.0%	25.0%	50.0%	9.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%
PB005008	26.7%	13.3%	21.4%	15.7%	5.1%	5.9%	2.6%	11.2%	11.1%	5.7%	1.4%	2.1%	0.5%	0.4%	0.0%	0.9%	0.0%	0.0%		4.9%
PB005009	33.3%	0.0%	0.0%	7.1%	0.0%	6.3%	12.5%	14.3%	0.0%	8.1%	0.0%	6.0%	0.6%	0.0%	0.8%	0.0%	1.3%	0.0%		3.1%
PB005011	0.0%	27.6%	35.7%	11.7%	6.7%	9.2%	0.0%	3.8%	4.2%	4.9%	0.0%	2.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%		4.3%
PB005012	0.0%	0.0%		33.3%	33.3%	6.7%	33.3%	25.0%	16.7%	6.9%	20.0%	0.0%	6.3%	0.0%	0.0%	12.5%	0.0%	0.0%		9.8%
PB005013	40.0%	24.0%	0.0%	13.0%	8.3%	13.7%	17.6%	13.5%	15.4%	8.1%	23.1%	2.3%	2.1%	1.6%	0.0%	0.0%	0.0%	0.0%		8.2%
PB005014	0.0%	20.5%	23.1%	13.3%	9.5%	14.4%	10.8%	10.4%	6.1%	3.8%	4.0%	1.9%	1.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%
PB005015	50.0%	57.1%	20.0%	36.4%	25.0%	57.1%	0.0%	25.0%	0.0%	0.0%		11.1%	0.0%	0.0%		0.0%	0.0%			20.4%
PB005016	0.0%	28.2%	14.3%	6.1%	0.0%	14.4%	18.4%	9.4%	3.1%	4.4%	5.9%	0.7%	1.3%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.1%
PB005018	23.1%	18.4%	40.9%	18.2%	23.1%	15.1%	18.6%	22.0%	14.8%	5.2%	11.3%	4.0%	1.1%	1.4%	0.0%	0.0%	0.0%	0.0%		8.7%
PB005019	0.0%	25.0%	25.0%	11.7%	14.3%	5.7%	3.4%	12.1%	13.3%	4.5%	0.0%	1.7%	2.3%	0.9%	0.0%	0.0%	0.0%	0.0%		4.8%
PB005020		6.3%	14.3%	7.6%	0.0%	7.1%	23.1%	10.6%	0.0%	2.3%	3.4%	0.9%	1.1%	0.7%	0.0%	0.0%	0.0%	0.0%		3.2%
PB005021																				0.0%
PB005022	50.0%	22.2%	0.0%	17.9%	15.4%	4.6%	11.1%	9.5%	16.7%	0.6%	0.0%	1.6%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%		3.7%
PB005025	50.0%	50.0%	50.0%	26.0%	33.3%	12.2%	0.0%	15.4%	33.3%	6.3%	0.0%	5.7%	7.6%	1.0%	0.0%	1.9%	0.0%	0.0%		8.1%
PB005027	44.4%	23.3%	4.0%	14.9%	10.4%	8.4%	5.7%	8.6%	5.0%	3.7%	0.0%	1.3%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%		4.9%
PB005028	0.0%	16.7%	100.0%	12.5%	20.0%	15.4%	20.0%	13.3%	22.2%	3.6%	25.0%	3.8%	11.1%	3.9%	0.0%	0.0%	0.0%	0.0%		5.7%
PB005029		0.0%	25.0%	20.0%	20.0%	5.3%	10.0%	11.4%	0.0%	2.9%	0.0%	0.0%	1.6%	0.0%	1.3%	1.0%	0.0%	0.0%	0.0%	2.1%
PB005030	12.5%	25.6%	0.0%	12.8%	18.5%	11.8%	12.1%	15.1%	10.2%	2.6%	6.8%	1.9%	2.0%	1.3%	1.2%	0.0%	0.0%	0.0%		7.2%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005031	20.0%	26.5%	13.6%	20.7%	15.2%	7.8%	9.1%	12.7%	10.7%	7.6%	11.5%	3.6%	2.1%	1.3%	2.0%	0.0%	0.0%	0.0%	0.0%	7.9%
PB005032	0.0%	20.5%	15.4%	13.7%	13.3%	7.6%	3.7%	9.9%	13.9%	5.4%	5.7%	3.1%	0.7%	1.9%	0.0%	1.1%	0.0%	0.0%	0.0%	5.3%
PB005033	0.0%	15.8%	30.0%	6.7%	13.3%	9.5%	10.0%	14.0%	6.7%	5.2%	6.9%	3.5%	1.1%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%
PB005035	66.7%	31.8%	18.8%	26.0%	34.8%	14.3%	18.2%	12.1%	18.4%	12.9%	5.6%	2.8%	1.1%	1.4%	0.0%	1.2%	0.0%	0.0%	0.0%	5.5%
PB005036	0.0%	18.2%	0.0%	18.2%	40.0%	12.1%	6.3%	9.2%	4.3%	6.4%	6.8%	0.6%	0.9%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%
PB005037	75.0%	46.2%	50.0%	27.3%	18.5%	20.4%	36.7%	18.0%	11.5%	11.6%	16.1%	13.9%	14.2%	2.9%	0.0%	0.0%	0.0%	14.3%		14.3%
PB005038	20.0%	20.8%	16.3%	9.6%	8.4%	8.6%	12.5%	11.7%	6.3%	6.5%	8.1%	1.9%	2.2%	1.0%	1.1%	0.0%	0.0%	0.0%	0.0%	6.5%
PB005039	25.0%	8.2%	23.1%	6.4%	6.3%	1.8%	0.0%	5.6%	5.0%	4.5%	5.7%	3.3%	1.2%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%
PB005040	15.4%	13.5%	8.3%	7.0%	5.9%	6.5%	5.6%	14.4%	20.0%	7.5%	0.0%	0.6%	1.3%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%
PB005043	50.0%	9.1%	25.0%	16.7%	25.0%	3.3%	0.0%	10.5%	0.0%	10.1%	6.3%	2.8%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.9%
PB005044	50.0%	18.6%	41.7%	13.7%	17.6%	6.3%	0.0%	7.4%	31.3%	6.5%	4.8%	2.8%	1.1%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	6.5%
PB005045	0.0%	25.0%	33.3%	17.1%	6.7%	6.8%	10.5%	6.9%	5.3%	6.7%	5.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%
PB005047		25.0%		10.5%	11.1%	3.8%	0.0%	2.9%	10.0%	3.7%	0.0%	5.4%	3.4%	0.0%	3.1%	0.0%	0.0%	6.3%		3.1%
PB005048	33.3%	27.5%	25.0%	16.6%	10.0%	15.4%	8.6%	7.7%	5.6%	3.2%	3.4%	1.4%	0.0%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	7.4%
PB005049	0.0%	15.2%	0.0%	7.1%	0.0%	5.4%	0.0%	4.2%	2.9%	1.2%	2.1%	2.1%	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	2.5%
PB005050	14.3%	20.5%	26.1%	16.3%	6.5%	16.5%	10.0%	12.7%	8.7%	9.9%	4.3%	3.0%	4.4%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	8.6%
PB005051	66.7%	40.9%	26.7%	42.1%	23.8%	19.6%	7.1%	23.0%	26.5%	11.0%	0.0%	3.3%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	11.1%
PB005053	25.0%	20.0%	12.5%	17.6%	14.8%	12.6%	12.5%	12.6%	10.7%	9.4%	0.0%	0.9%	1.9%	2.5%	3.7%	0.0%	0.0%	0.0%	0.0%	8.6%
PB005054	33.3%	28.6%	33.3%	25.6%	18.8%	15.6%	5.9%	14.9%	10.7%	2.9%	5.6%	4.7%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	6.6%
PB005055	66.7%	34.1%	9.1%	15.6%	26.3%	7.8%	13.8%	6.0%	20.8%	5.5%	6.5%	5.4%	2.4%	0.8%	1.1%	3.6%	0.0%	0.0%	0.0%	7.1%
PB005056	0.0%	11.5%	42.9%	14.3%	5.9%	10.8%	5.9%	14.3%	5.6%	6.9%	0.0%	2.5%	1.6%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	6.6%
PB005057	60.0%	9.3%	15.4%	3.8%	7.1%	6.3%	8.6%	5.7%	7.1%	3.0%	1.7%	1.0%	0.0%	0.9%	1.1%	0.0%	0.0%	0.0%	0.0%	3.0%
PB005058	0.0%	30.0%	8.3%	8.8%	11.1%	8.9%	6.3%	9.1%	0.0%	2.9%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.5%
PB005059	100.0%	17.6%	12.5%	23.9%	25.0%	15.4%	0.0%	10.4%	11.8%	3.0%	5.0%	5.1%	0.0%	5.5%	0.0%	3.3%	0.0%	0.0%	0.0%	7.9%
PB005060	50.0%	14.3%	50.0%	28.6%	0.0%	0.0%	0.0%	3.3%	8.3%	3.2%	0.0%	0.0%	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	1.8%
PB005061	36.4%	26.0%	21.1%	15.8%	11.1%	15.7%	0.0%	13.2%	20.9%	5.3%	3.2%	1.1%	2.0%	2.9%	1.7%	0.0%	0.0%	0.0%	0.0%	9.1%
PB005062	0.0%	13.3%	0.0%	10.0%	30.0%	4.3%	0.0%	4.0%	0.0%	8.0%	9.1%	2.9%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	4.4%
PB005063	50.0%	22.5%	10.0%	14.9%	10.3%	12.2%	8.8%	11.8%	6.9%	8.6%	5.9%	2.4%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%
PB005064	100.0%	34.6%	15.4%	8.6%	20.0%	9.2%	4.3%	16.3%	12.1%	7.3%	6.5%	1.8%	0.7%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%
PB005065	40.0%	31.5%	33.3%	20.3%	25.0%	15.6%	17.2%	20.7%	16.3%	11.3%	6.6%	3.8%	3.8%	1.8%	0.6%	1.5%	0.0%	0.0%	0.0%	10.9%
PB005066	0.0%	27.3%	25.0%	0.0%	0.0%	5.3%	0.0%	8.3%	0.0%	6.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%
PB005067	33.3%	4.5%	0.0%	16.3%	0.0%	12.0%	5.9%	9.8%	4.2%	5.1%	9.4%	2.7%	0.6%	2.2%	1.3%	0.0%	0.0%	0.0%	0.0%	4.4%
PB005069	50.0%	20.7%	27.3%	19.0%	10.0%	11.4%	0.0%	10.7%	14.3%	6.0%	4.3%	5.3%	1.4%	0.9%	1.4%	0.0%	0.0%	0.0%	0.0%	6.6%
PB005070	0.0%	11.9%	23.1%	15.9%	15.0%	6.4%	12.9%	8.5%	16.7%	7.3%	0.0%	2.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%
PB005071	50.0%	57.1%	33.3%	18.4%	10.0%	15.0%	11.1%	19.0%	18.8%	9.5%	4.8%	2.5%	0.0%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	9.9%
PB005072	28.6%	14.3%	14.3%	12.1%	5.1%	11.1%	8.6%	12.6%	10.8%	6.6%	5.5%	2.2%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%
PB005073	20.0%	25.0%	21.4%	8.8%	7.7%	10.7%	14.3%	16.2%	0.0%	6.6%	8.5%	1.2%	2.6%	0.9%	1.9%	0.0%	3.7%	0.0%	0.0%	6.8%
PB005074	25.0%	41.4%	30.0%	23.8%	20.0%	9.1%	23.5%	20.0%	11.1%	12.0%	0.0%	1.1%	1.9%	1.6%	0.0%	8.3%	0.0%	0.0%	0.0%	11.6%
PB005075		30.0%	33.3%	7.7%	33.3%	10.8%	20.0%	5.4%	11.1%	6.7%	20.0%	3.9%	0.0%	0.0%	0.0%	0.0%	0.0%			5.9%
PB005076	25.0%	35.3%	26.7%	18.8%	14.5%	14.7%	13.4%	21.5%	11.6%	8.7%	5.4%	2.1%	0.9%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%
PB005077	100.0%	13.3%	0.0%	21.9%	7.7%	5.7%	0.0%	1.8%	6.7%	4.5%	11.1%	1.0%	2.6%	0.9%	2.1%	0.0%	0.0%	0.0%	0.0%	3.7%
PB005078	0.0%	20.0%	0.0%	36.4%	0.0%	0.0%		25.0%	0.0%	16.7%	0.0%	20.0%	33.3%	25.0%	0.0%	0.0%				20.4%
PB005079	25.0%	27.3%	17.6%	24.6%	16.7%	10.9%	4.7%	10.4%	16.3%	9.1%	5.1%	4.0%	1.2%	3.6%	1.0%	0.0%	0.0%	0.0%	0.0%	6.9%
PB005080	50.0%	11.1%	12.5%	19.6%	26.7%	9.3%	11.1%	10.4%	31.3%	5.3%	0.0%	2.2%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.0%
PB005081		30.0%	0.0%	13.3%	0.0%	14.3%	0.0%	9.4%	10.0%	9.4%	10.0%	4.5%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9%
PB005082	62.5%	39.5%	50.0%	25.6%	29.7%	18.3%	26.1%	22.2%	17.6%	17.1%	10.0%	0.8%	3.3%	1.4%	3.4%	8.0%	0.0%	0.0%	0.0%	17.0%
PB005083	0.0%	20.0%	30.0%	17.6%	26.5%	12.2%	20.0%	15.3%	20.0%	11.8%	13.0%	4.2%	0.0%	5.4%	2.9%	0.0%	0.0%	0.0%	0.0%	12.0%
PB005085	25.0%	33.3%	17.6%	26.2%	25.0%	17.4%	17.1%	9.7%	3.7%	4.9%	14.3%	2.7%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	9.3%
PB005086	64.7%	35.7%	30.8%	21.6%	20.6%	20.4%	14.1%	17.2%	8.0%	13.5%	8.5%	4.5%	3.8%	2.4%	0.5%	0.0%	0.0%	0.0%	0.0%	11.9%
PB005088	50.0%	25.0%	12.5%	16.0%	14.3%	7.4%	0.0%	17.9%	7.1%	3.2%	0.0%	0.0%	0.0%	3.3%	9.1%	0.0%	0.0%			7.3%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL	
PB005089		11.1%	22.2%	15.4%	24.0%	10.9%	4.8%	12.7%	11.1%	11.5%	5.7%	1.8%	3.4%	4.5%	3.3%	0.0%	0.0%	0.0%		7.6%	
PB005090																					0.0%
PB005091	16.7%	40.0%	27.3%	9.1%	18.8%	12.8%	5.3%	13.5%	8.3%	12.1%	6.3%	4.4%	2.6%	1.9%	0.0%	0.0%	0.0%	0.0%		8.1%	
PB005092	20.0%	50.0%	37.5%	33.3%	25.0%	13.0%	25.0%	8.3%	12.5%	4.0%	0.0%	4.8%	0.0%	5.3%	0.0%	0.0%		0.0%		16.4%	
PB005094	33.3%	32.0%	31.3%	20.5%	5.7%	16.3%	9.8%	10.8%	9.8%	5.2%	2.9%	4.1%	0.9%	0.5%	0.0%	0.0%	0.0%	0.0%		7.0%	
PB005095	0.0%	33.3%	42.9%	16.7%	26.7%	14.6%	23.5%	14.3%	11.8%	7.6%	8.0%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%			9.9%	
PB005096	33.3%	9.1%	0.0%	8.7%	9.5%	8.0%	12.0%	8.2%	9.4%	3.8%	2.9%	1.1%	0.6%	0.9%	0.0%	1.1%	0.0%	0.0%		3.5%	
PB005097	0.0%	14.8%	0.0%	9.0%	5.9%	5.2%	6.3%	8.0%	12.5%	4.9%	5.6%	1.7%	1.1%	1.1%	1.7%	0.0%	0.0%	0.0%	0.0%	4.0%	
PB005098		0.0%	0.0%	18.2%	0.0%	15.6%	20.0%	40.4%	0.0%	10.8%	9.5%	2.5%	1.2%	1.1%	1.6%	1.5%	2.4%	0.0%		6.6%	
PB005099	0.0%	100.0%	33.3%	14.3%	0.0%	0.0%	0.0%	11.9%	7.9%	4.2%	0.0%	1.1%	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%		2.4%	
PB005100	44.4%	18.2%	33.3%	20.6%	13.7%	12.3%	17.5%	15.9%	11.7%	10.5%	3.4%	2.9%	4.2%	2.4%	0.0%	0.0%	0.0%	0.0%		9.7%	
PB005102	20.0%	37.1%	30.4%	13.1%	12.5%	12.8%	4.2%	11.5%	8.0%	8.5%	0.0%	3.4%	1.4%	1.1%	0.0%	0.0%	0.0%	0.0%		9.2%	
PB005103	22.2%	31.0%	12.5%	25.3%	8.8%	18.6%	6.1%	12.7%	3.6%	8.1%	5.9%	3.9%	3.4%	2.4%	9.1%	0.0%	0.0%	0.0%		10.6%	
PB005104	0.0%	9.1%	0.0%	15.2%	14.3%	15.1%	14.8%	12.7%	18.2%	15.3%	12.0%	2.6%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%		9.6%	
PB005105	22.2%	25.4%	34.2%	18.3%	18.2%	8.6%	6.3%	11.0%	8.6%	5.2%	6.8%	1.4%	2.8%	0.7%	0.0%	0.0%	0.0%	0.0%		7.7%	
PB005106	25.0%	34.7%	14.3%	27.6%	25.8%	15.1%	3.0%	15.5%	6.5%	6.1%	15.6%	4.4%	1.7%	2.2%	0.0%	2.4%	0.0%	0.0%		11.8%	
PB005107	25.0%	24.1%	21.4%	19.1%	0.0%	12.0%	7.5%	13.9%	5.1%	8.1%	7.7%	0.9%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%		8.1%	
PB005108	40.0%	32.6%	27.3%	10.2%	13.0%	13.7%	12.8%	14.9%	11.6%	10.3%	2.1%	4.9%	1.4%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	9.6%	
PB005109	0.0%	25.0%	36.4%	12.9%	33.3%	11.7%	10.3%	15.8%	16.7%	7.2%	10.5%	4.7%	0.9%	1.5%	0.8%	0.0%	0.0%	0.0%	0.0%	6.2%	
PB005111	50.0%	27.6%	33.3%	25.0%	37.5%	19.7%	22.2%	15.6%	17.6%	11.6%	5.0%	2.5%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		11.1%	
PB005113	25.0%	47.1%	23.1%	19.2%	16.7%	11.6%	15.4%	11.1%	10.0%	4.4%	3.1%	5.6%	4.6%	0.9%	0.8%	1.8%	0.0%	0.0%		5.9%	
PB005114	25.0%	31.9%	12.5%	17.1%	17.4%	17.9%	13.8%	9.8%	3.1%	11.3%	5.9%	3.0%	1.7%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	
PB005116	27.3%	17.7%	21.3%	15.4%	11.8%	9.5%	4.3%	16.8%	13.6%	7.7%	7.4%	1.4%	3.2%	2.4%	0.0%	0.0%	0.0%	0.0%		8.7%	
PB005117	0.0%	11.5%	25.0%	7.4%	0.0%	4.4%	6.7%	4.1%	0.0%	5.7%	0.0%	0.7%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%		3.1%	
PB005118	50.0%	29.3%	25.0%	12.4%	16.7%	12.1%	11.9%	18.8%	13.2%	6.8%	2.7%	2.1%	0.4%	0.9%	0.6%	0.0%	0.8%	0.0%		6.0%	
PB005119	33.3%	12.2%	15.4%	11.0%	0.0%	10.9%	9.5%	9.9%	23.5%	8.0%	4.8%	3.9%	0.9%	0.8%	0.0%	0.0%	0.0%	0.0%		6.2%	
PB005121	33.3%	36.0%	60.0%	18.0%	5.3%	12.1%	0.0%	5.4%	11.1%	7.3%	4.3%	1.6%	0.6%	1.0%	0.0%	0.0%	1.4%	0.0%	0.0%	4.4%	
PB005122																					0.0%
PB005123	0.0%	36.7%	25.0%	8.1%	5.9%	5.6%	6.7%	1.2%	0.0%	8.6%	5.3%	2.4%	0.0%	0.0%	0.0%	0.0%	1.6%	3.0%	0.0%	3.7%	
PB005124	16.7%	15.6%	28.6%	8.1%	7.5%	10.4%	5.3%	6.0%	10.9%	2.5%	0.0%	3.5%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	
PB005126	15.4%	1.8%	6.9%	1.5%	9.5%	1.3%	0.0%	1.7%	6.3%	1.3%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.3%	
PB005128	0.0%	14.3%	0.0%	14.3%	14.3%	4.5%	17.6%	10.0%	3.6%	3.1%	5.3%	0.5%	1.0%	0.6%	0.0%	0.0%	0.0%	0.0%		2.5%	
PB005129	28.6%	21.6%	33.3%	10.2%	20.0%	11.0%	4.5%	7.8%	5.0%	2.9%	9.1%	2.1%	4.3%	0.6%	0.0%	0.0%	0.0%	0.0%		5.8%	
PB005130		0.0%		0.0%	33.3%	4.2%	40.0%	21.2%	0.0%	6.3%	0.0%	3.0%	0.0%	0.5%	0.0%	2.3%	0.0%	0.0%	0.0%	2.9%	
PB005131	33.3%	25.0%	0.0%	17.5%	11.1%	7.1%	13.3%	12.0%	10.3%	5.1%	4.4%	3.0%	1.2%	1.0%	0.8%	0.0%	2.4%	0.0%	0.0%	4.2%	
PB005132		33.3%	100.0%	22.2%	25.0%	20.0%	0.0%	6.1%	0.0%	10.9%	9.1%	0.0%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%		3.3%	
PB005133		0.0%		14.3%	0.0%	0.0%	0.0%	15.4%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	5.6%	0.0%	0.0%	0.0%		2.4%	
PB005134	31.8%	21.0%	30.8%	16.7%	8.6%	10.1%	8.7%	11.1%	0.0%	4.4%	3.3%	2.6%	1.8%	0.5%	0.0%	1.3%	0.0%	0.0%		6.3%	
PB005135	75.0%	35.5%	45.0%	15.2%	21.9%	11.8%	8.7%	15.8%	13.0%	9.6%	6.1%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	
PB005136	0.0%	42.9%	0.0%	7.7%	50.0%	2.4%	12.5%	6.3%	9.1%	3.8%	0.0%	2.4%	2.1%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	2.8%	
PB005138	46.2%	34.8%	31.0%	26.2%	27.6%	15.2%	10.3%	15.9%	17.1%	13.3%	7.5%	10.8%	3.2%	2.9%	0.0%	0.0%	0.0%	0.0%		14.4%	
PB005139	20.0%	13.6%	5.6%	9.0%	3.6%	11.7%	16.7%	4.5%	4.8%	4.5%	0.0%	1.3%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		5.2%	
PB005140	25.0%	6.7%	33.3%	17.7%	5.3%	8.8%	9.1%	10.1%	4.4%	4.3%	1.7%	1.5%	1.8%	0.5%	0.0%	0.9%	1.7%	0.0%		4.5%	
PB005141	75.0%	8.7%	0.0%	11.4%	0.0%	14.2%	0.0%	8.9%	11.5%	7.2%	8.6%	2.4%	1.7%	2.2%	0.0%	0.0%	0.0%	0.0%		5.9%	
PB005142	75.0%	23.5%	33.3%	7.0%	7.1%	13.7%	8.7%	11.9%	2.5%	3.6%	2.3%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%		4.0%	
PB005143	0.0%	31.6%	7.7%	9.7%	15.8%	6.5%	0.0%	6.5%	4.5%	6.5%	9.4%	1.1%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%		4.2%	
PB005144	28.6%	20.0%	21.6%	16.4%	10.8%	10.5%	18.5%	16.7%	14.6%	7.5%	3.4%	3.1%	2.2%	1.9%	1.2%	0.0%	0.0%	0.0%		8.4%	
PB005146	0.0%	31.8%	20.0%	25.5%	26.7%	16.7%	12.5%	21.2%	8.0%	11.4%	13.3%	3.0%	0.0%	3.3%	0.0%	2.3%	0.0%	0.0%		9.4%	
PB005147	14.3%	20.0%	8.3%	19.5%	17.4%	17.3%	14.3%	15.4%	15.0%	14.6%	17.4%	4.5%	0.0%	6.5%	0.0%	0.0%	0.0%	0.0%		10.8%	
PB005148	0.0%	12.5%	28.6%	14.3%	42.9%	11.1%	0.0%	20.8%	22.2%	10.2%	0.0%	4.8%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005149	0.0%	12.8%	8.3%	10.2%	6.7%	5.0%	3.7%	11.9%	8.5%	7.0%	9.2%	2.8%	1.9%	1.6%	0.0%	0.0%	3.8%	0.0%	0.0%	5.6%
PB005150		10.0%	0.0%	18.5%	7.1%	10.8%	0.0%	10.3%	14.3%	11.4%	11.8%	1.0%	2.0%	3.7%	0.0%	0.0%	0.0%	0.0%		6.2%
PB005151	0.0%	22.2%	18.2%	21.9%	18.4%	11.2%	7.0%	7.5%	16.7%	9.3%	4.0%	5.0%	1.6%	2.3%	0.0%	0.0%	0.0%	0.0%		8.9%
PB005153		14.3%	100.0%	0.0%	0.0%	16.7%	8.3%	11.1%	10.0%	3.0%	3.1%	3.6%	2.9%	0.0%	1.4%	0.0%	0.0%	0.0%		2.9%
PB005154	33.3%	9.5%	13.3%	22.1%	10.0%	16.7%	15.4%	11.2%	5.9%	6.2%	5.9%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.0%
PB005155	16.7%	17.0%	14.3%	14.0%	10.7%	12.3%	13.3%	8.2%	5.1%	4.8%	4.6%	3.0%	1.4%	1.0%	0.7%	0.0%	0.0%	0.0%		5.2%
PB005156	0.0%	14.3%	0.0%	9.1%	33.3%	7.1%	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%		0.8%
PB005157	50.0%	18.2%	18.8%	14.6%	7.1%	8.8%	9.4%	14.0%	5.3%	2.6%	6.6%	0.4%	2.5%	0.7%	0.5%	0.0%	1.3%	0.0%		4.4%
PB005158	50.0%	15.2%	36.4%	14.9%	10.7%	19.8%	3.7%	9.4%	16.1%	3.6%	3.8%	3.1%	2.9%	3.7%	0.0%	2.8%	0.0%	0.0%		8.1%
PB005159	0.0%	36.0%	0.0%	24.7%	17.6%	6.7%	9.5%	7.7%	0.0%	9.3%	6.9%	4.3%	0.0%	1.4%	2.1%	0.0%	0.0%	0.0%		7.4%
PB005160																				0.0%
PB005161		0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%		0.2%
PB005162																				0.0%
PB005164	26.1%	33.9%	21.4%	17.4%	13.3%	11.8%	14.3%	15.2%	15.4%	9.9%	2.1%	2.9%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%		10.3%
PB005166	20.0%	26.7%	25.0%	13.7%	27.3%	15.2%	0.0%	13.5%	11.8%	2.9%	3.4%	2.5%	1.1%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%
PB005167	33.3%	23.1%	22.2%	11.8%	28.6%	15.9%	6.9%	10.7%	13.3%	5.5%	3.1%	1.4%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%		5.4%
PB005168	66.7%	30.0%	20.0%	12.0%	8.3%	12.4%	12.5%	16.7%	19.0%	9.5%	0.0%	2.2%	1.1%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%
PB005169	0.0%	16.7%	0.0%	8.3%	25.0%	11.8%	13.3%	20.4%	13.6%	14.0%	0.0%	4.2%	3.2%	5.6%	3.2%	0.0%	0.0%	0.0%		8.3%
PB005170	66.7%	12.5%	0.0%	27.3%	0.0%	20.0%	25.0%	27.8%	0.0%	21.2%	11.1%	3.1%	4.0%	9.5%	0.0%	0.0%	0.0%			13.8%
PB005171	0.0%	33.3%	45.5%	21.6%	26.7%	17.6%	10.0%	30.4%	9.5%	23.9%	9.8%	7.4%	3.4%	1.3%	1.0%	0.0%	0.0%	0.0%		10.9%
PB005172	0.0%	20.0%	0.0%	16.7%	0.0%	20.0%	0.0%	13.3%	25.0%	3.8%	0.0%	0.0%	2.3%	0.0%	0.6%	0.0%	1.1%	0.0%		1.6%
PB005173	20.0%	7.4%	23.1%	10.2%	4.0%	12.1%	10.3%	6.8%	7.3%	9.1%	3.6%	1.9%	1.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%
PB005174		0.0%	0.0%	5.0%	0.0%	16.7%	0.0%	29.2%	20.0%	10.5%	0.0%	1.9%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		4.3%
PB005176	0.0%	0.0%		20.0%	25.0%	20.0%	20.0%	15.0%	0.0%	9.3%	0.0%	0.0%	4.0%	2.2%	0.0%	0.0%	1.5%	0.0%	0.0%	4.6%
PB005178	0.0%	27.3%	0.0%	11.6%	20.8%	13.6%	0.0%	10.8%	11.1%	10.3%	0.0%	3.5%	1.0%	1.6%	0.0%	2.9%	0.0%	0.0%		6.8%
PB005179	0.0%	15.8%	10.0%	13.8%	27.3%	10.7%	4.0%	7.5%	22.2%	5.5%	10.0%	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%		4.6%
PB005180	25.0%	33.3%	6.7%	18.0%	25.6%	11.5%	3.6%	14.7%	15.2%	11.0%	7.3%	4.4%	1.3%	0.0%	1.6%	0.0%	0.0%	0.0%		8.8%
PB005181	0.0%	28.6%	0.0%	29.4%	0.0%	24.1%	11.1%	28.0%	0.0%	26.3%	7.1%	7.0%	5.0%	5.0%	0.0%	0.0%	0.0%			14.2%
PB005182	0.0%	0.0%	33.3%	9.1%	14.3%	3.7%	0.0%	2.9%	0.0%	6.3%	0.0%	3.8%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		2.6%
PB005183	0.0%	14.3%	0.0%	11.1%	11.1%	6.5%	10.0%	3.2%	20.0%	4.9%	0.0%	0.0%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%		3.7%
PB005184	0.0%	40.0%	33.3%	20.7%	27.3%	16.3%	0.0%	10.8%	37.5%	16.7%	0.0%	16.3%	3.0%	5.9%	0.0%	0.0%	0.0%	0.0%		12.5%
PB005185	60.0%	36.4%	20.0%	19.0%	17.2%	12.0%	11.9%	11.9%	15.5%	11.7%	4.2%	2.1%	2.4%	0.4%	0.0%	0.0%	0.0%	0.0%		6.4%
PB005186	0.0%	50.0%	50.0%	35.7%	0.0%	8.8%	25.0%	18.4%	14.3%	7.4%	10.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.4%
PB005187	0.0%	45.2%	38.9%	24.6%	14.3%	12.7%	7.7%	27.6%	11.9%	14.6%	9.8%	2.2%	2.7%	0.7%	0.0%	0.0%	0.0%	0.0%		10.7%
PB005189	36.4%	26.8%	26.5%	14.3%	3.9%	13.1%	11.0%	13.7%	9.9%	6.8%	3.8%	1.9%	2.1%	0.8%	1.1%	0.0%	2.1%	0.0%	0.0%	7.7%
PB005190	16.7%	17.6%	37.5%	17.6%	13.8%	10.8%	0.0%	10.7%	13.6%	5.8%	2.0%	2.7%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%		5.7%
PB005191	100.0%	16.7%	16.7%	15.8%	25.0%	14.3%	37.5%	13.6%	12.5%	9.4%	0.0%	2.2%	0.0%	4.4%	0.0%	0.0%	0.0%	0.0%		6.6%
PB005192	16.7%	26.9%	14.3%	17.5%	14.3%	17.2%	13.7%	18.6%	20.4%	9.5%	6.2%	4.1%	3.1%	0.6%	0.9%	0.0%	0.0%	0.0%		11.4%
PB005194	0.0%	33.3%	0.0%	50.0%	0.0%	11.1%	0.0%	10.5%	25.0%	10.0%	0.0%	1.8%	6.3%	0.0%	0.0%	0.0%	2.7%	0.0%		3.7%
PB005195	40.0%	20.9%	20.0%	6.5%	13.5%	10.4%	7.4%	11.3%	5.6%	6.5%	5.3%	1.7%	0.7%	0.8%	0.0%	0.0%	0.9%	0.0%		4.4%
PB005196	0.0%	0.0%	0.0%	22.2%	0.0%	4.2%	0.0%	5.6%	25.0%	8.9%	0.0%	3.1%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%		3.1%
PB005197	33.3%	17.6%	23.1%	11.1%	4.0%	11.9%	5.0%	6.3%	5.2%	4.1%	5.3%	3.4%	3.4%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	4.5%
PB005198	50.0%	26.9%	40.0%	20.7%	15.4%	14.8%	13.0%	15.5%	10.7%	8.0%	7.4%	0.7%	1.2%	1.2%	0.0%	0.0%	0.0%	0.0%		9.9%
PB005200	27.3%	20.0%	6.7%	11.4%	14.9%	9.0%	0.0%	12.7%	15.5%	4.2%	3.5%	1.3%	0.5%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%
PB005201	37.5%	18.3%	13.6%	14.1%	14.7%	12.3%	8.1%	10.8%	11.4%	9.4%	7.3%	2.3%	0.6%	0.4%	0.0%	2.5%	0.0%	0.0%		8.2%
PB005202	5.9%	16.3%	15.0%	10.5%	11.7%	7.5%	8.4%	10.6%	6.4%	7.9%	5.6%	3.2%	1.5%	2.1%	2.8%	0.0%	0.0%	0.0%		7.3%
PB005203	38.5%	32.2%	17.2%	19.5%	31.1%	16.0%	19.1%	17.4%	19.3%	13.0%	5.6%	1.4%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		11.9%
PB005204		33.3%		7.1%	25.0%	14.3%	0.0%	13.8%	0.0%	5.2%	13.3%	1.9%	0.0%	0.0%	0.0%	3.6%	0.0%	0.0%		5.0%
PB005205		16.7%	25.0%	7.7%	16.7%	25.9%	0.0%	26.2%	0.0%	2.4%	0.0%	1.8%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	4.4%
PB005206	66.7%	41.7%	46.2%	31.3%	23.4%	25.8%	14.6%	32.7%	27.1%	18.4%	9.7%	9.5%	2.0%	0.0%	0.0%	0.0%	0.0%			19.8%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005207	25.0%	23.1%	27.3%	18.9%	9.5%	11.0%	5.5%	8.9%	8.8%	6.1%	4.1%	1.2%	0.6%	0.5%	0.9%	0.0%	0.0%	0.0%	0.0%	5.9%
PB005208	0.0%	3.3%	0.0%	1.5%	0.0%	3.6%	4.8%	9.1%	3.8%	3.0%	2.0%	3.2%	1.0%	0.5%	0.7%	1.2%	0.0%	0.0%	0.0%	1.9%
PB005210	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
PB005211	50.0%	5.0%	20.0%	20.0%	0.0%	7.7%	7.7%	5.9%	18.8%	8.8%	0.0%	2.7%	3.4%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	5.6%
PB005212		12.5%		11.8%	0.0%	3.6%	20.0%	9.1%	0.0%	3.8%	0.0%	2.8%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%
PB005213	20.0%	30.0%	33.3%	22.6%	17.1%	14.2%	8.7%	18.7%	13.8%	9.5%	3.8%	3.4%	1.1%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
PB005215				0.0%						20.0%		0.0%	6.7%	20.0%	0.0%					12.2%
PB005216	14.3%	32.5%	20.8%	17.5%	14.0%	14.2%	1.9%	15.1%	12.5%	9.2%	5.1%	5.3%	4.3%	1.7%	0.0%	4.2%	0.0%	14.3%		8.7%
PB005217		0.0%			0.0%	0.0%		0.0%		20.0%		0.0%	0.0%							5.3%
PB005218	23.5%	27.5%	18.5%	16.1%	10.9%	15.1%	16.2%	12.0%	9.4%	7.0%	10.2%	5.9%	2.9%	3.7%	2.4%	1.7%	0.0%	0.0%	0.0%	10.2%
PB005220		25.0%	0.0%	13.9%	0.0%	6.5%	33.3%	10.5%	0.0%	7.1%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		6.6%
PB005221	0.0%	0.0%	0.0%	0.0%		9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.6%
PB005222		0.0%	0.0%	0.0%	33.3%	14.3%	0.0%	8.3%	0.0%	3.2%	0.0%	3.6%	2.1%	6.1%	5.3%	0.0%	0.0%	0.0%		3.8%
PB005224	25.0%	23.7%	24.0%	14.2%	13.5%	14.9%	10.4%	15.1%	13.3%	9.3%	2.7%	3.4%	1.9%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%
PB005226	33.3%	13.8%	22.2%	9.4%	18.8%	9.2%	0.0%	6.3%	6.7%	5.1%	0.0%	1.3%	0.0%	1.0%	1.1%	1.4%	0.0%	0.0%	0.0%	4.4%
PB005227	20.0%	34.3%	25.0%	19.8%	12.5%	9.3%	6.7%	18.8%	7.7%	9.6%	3.8%	2.1%	1.8%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%
PB005228	50.0%	26.7%	20.0%	11.1%	9.1%	13.6%	0.0%	10.4%	20.0%	7.2%	7.7%	4.6%	3.1%	3.0%	0.0%	2.6%	0.0%	0.0%		7.0%
PB005229	0.0%	17.4%	0.0%	14.5%	5.9%	7.9%	14.3%	7.6%	3.6%	3.9%	2.9%	2.1%	0.7%	1.2%	0.0%	0.0%	0.0%	0.0%		4.1%
PB005230	33.3%	16.0%	35.0%	17.6%	16.1%	15.5%	17.1%	12.3%	9.1%	11.8%	6.2%	4.1%	2.4%	2.5%	0.0%	0.0%	4.2%	0.0%		8.5%
PB005231	0.0%	40.0%	50.0%	27.8%	12.5%	8.0%	0.0%	3.6%	10.0%	5.1%	6.3%	1.6%	1.4%	2.8%	1.5%	0.0%	0.8%	0.0%	0.0%	3.0%
PB005232	0.0%	40.0%	0.0%	9.1%	25.0%	11.1%	25.0%	6.5%	0.0%	1.6%	5.0%	1.2%	1.3%	0.9%	0.0%	1.1%	0.5%	1.1%	0.0%	1.6%
PB005233		0.0%	0.0%	22.2%	0.0%	0.0%		0.0%	0.0%	15.4%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.7%
PB005234	0.0%	0.0%	25.0%	5.3%	0.0%	7.7%	16.7%	0.0%	16.7%	12.2%	0.0%	2.8%	0.0%	0.7%	0.0%	1.6%	0.0%	0.0%	0.0%	2.1%
PB005235	100.0%	50.0%	33.3%	10.5%	16.7%	21.4%	0.0%	28.6%	20.0%	17.2%	25.0%	8.1%	1.1%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.3%
PB005236	60.0%	12.5%	8.3%	13.9%	31.3%	10.8%	0.0%	8.0%	3.0%	3.4%	4.3%	1.3%	0.0%	0.0%	0.0%	2.1%	3.4%	0.0%		5.1%
PB005237	50.0%	25.9%	16.7%	15.7%	18.2%	13.0%	16.2%	14.5%	5.4%	8.2%	7.9%	3.3%	1.9%	1.6%	1.0%	0.0%	0.0%	0.0%		7.0%
PB005238	0.0%	16.7%	14.3%	3.6%	13.6%	4.1%	0.0%	6.0%	3.2%	4.4%	3.1%	1.5%	0.8%	1.5%	0.0%	0.0%	0.0%	0.0%		3.2%
PB005239	32.0%	32.6%	25.9%	23.2%	19.5%	13.5%	10.7%	15.0%	13.3%	9.2%	8.6%	3.9%	1.7%	2.7%	0.0%	0.0%	0.0%	0.0%		10.8%
PB005240	25.0%	9.6%	11.9%	14.3%	10.2%	15.0%	15.3%	14.7%	10.7%	5.4%	3.8%	3.1%	2.1%	1.8%	0.0%	0.0%	0.0%	0.0%		8.0%
PB005241	20.0%	20.5%	8.3%	7.5%	16.1%	8.9%	7.1%	6.8%	5.9%	3.3%	2.3%	0.6%	1.0%	2.6%	0.7%	0.0%	0.0%	0.0%	0.0%	3.6%
PB005242	12.5%	19.4%	12.5%	12.1%	26.1%	10.2%	3.6%	11.3%	13.1%	9.8%	5.6%	3.1%	1.1%	0.6%	0.0%	0.0%	0.0%	0.0%		6.3%
PB005243	100.0%	37.5%	60.0%	6.7%	0.0%	8.1%	0.0%	13.9%	12.5%	7.0%	18.8%	3.5%	4.9%	3.4%	0.0%	0.0%	0.0%	0.0%		7.0%
PB005244	14.3%	28.6%	13.3%	21.2%	17.5%	8.0%	8.5%	11.8%	7.1%	10.9%	2.5%	2.4%	5.7%	1.3%	1.3%	0.0%	2.0%	0.0%		7.7%
PB005245	60.0%	9.8%	16.7%	16.8%	28.6%	6.0%	10.5%	12.7%	2.5%	7.2%	4.5%	4.0%	1.1%	0.6%	0.0%	0.0%	0.0%	0.0%		5.8%
PB005247	0.0%	31.3%	20.0%	8.3%	8.0%	2.7%	10.5%	11.9%	3.6%	6.7%	9.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		4.3%
PB005248	0.0%	13.6%	9.1%	12.7%	16.7%	6.5%	5.0%	8.4%	7.3%	5.1%	3.8%	1.3%	0.0%	0.4%	0.0%	0.8%	1.3%	0.0%	0.0%	3.2%
PB005249	18.2%	18.7%	8.8%	7.6%	2.5%	9.1%	6.0%	10.1%	4.3%	5.0%	0.0%	1.0%	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%		5.0%
PB005250	0.0%	16.0%	33.3%	12.9%	14.3%	14.0%	0.0%	9.6%	10.0%	7.0%	20.0%	2.2%	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%		6.2%
PB005251				0.0%		16.7%		37.5%	0.0%	5.0%	16.7%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%		2.6%
PB005252	60.0%	29.6%	11.1%	18.0%	18.2%	17.5%	10.7%	14.9%	5.9%	9.3%	5.9%	0.0%	0.0%	3.6%	0.0%	0.0%	0.0%	0.0%		10.7%
PB005253	62.5%	32.2%	15.4%	14.9%	19.4%	11.6%	7.7%	10.0%	4.5%	7.1%	10.5%	1.8%	1.1%	1.4%	2.3%	2.0%	0.0%	0.0%		8.3%
PB005254	33.3%	29.7%	0.0%	17.3%	25.6%	15.2%	15.2%	19.6%	7.9%	10.5%	4.3%	2.1%	3.4%	2.5%	1.2%	0.0%	0.0%	0.0%		9.8%
PB005255	50.0%	7.4%	23.1%	14.3%	0.0%	7.2%	11.8%	12.1%	14.3%	5.5%	6.7%	0.6%	1.0%	0.0%	1.9%	0.0%	0.0%	0.0%		4.6%
PB005256	0.0%	2.6%	6.3%	8.3%	11.8%	5.8%	2.3%	6.1%	1.8%	2.1%	2.9%	1.4%	1.3%	1.4%	0.0%	0.8%	0.0%	0.0%		2.6%
PB005257	37.5%	14.5%	17.5%	11.2%	16.9%	9.8%	15.3%	13.3%	13.3%	6.2%	2.8%	2.5%	2.8%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%
PB005258		33.3%	33.3%	5.9%	0.0%	7.4%	0.0%	14.3%	0.0%	5.7%	7.1%	1.7%	3.4%	1.1%	0.0%	0.0%	0.0%	0.0%		5.5%
PB005259	0.0%	12.1%	33.3%	15.8%	16.3%	7.9%	7.7%	8.9%	0.0%	8.2%	3.6%	1.5%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%		5.9%
PB005261	0.0%	50.0%	0.0%	27.0%	33.3%	15.4%	0.0%	4.3%	0.0%	7.7%	12.5%	5.8%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%		9.6%
PB005262	7.7%	14.3%	4.9%	8.7%	7.3%	6.3%	3.8%	4.9%	6.1%	2.6%	1.6%	2.3%	0.0%	0.0%	0.0%	3.3%	0.0%	0.0%		4.2%
PB005263		20.0%	0.0%	5.9%	0.0%	14.3%		0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		3.7%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005265	11.1%	33.3%	40.0%	12.3%	16.0%	11.0%	0.0%	6.5%	15.4%	6.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		8.4%
PB005266	30.0%	26.5%	26.7%	11.9%	24.5%	8.3%	8.2%	12.8%	6.2%	8.0%	5.9%	1.4%	1.2%	0.7%	1.2%	0.0%	0.0%	0.0%		7.1%
PB005268	21.4%	17.3%	24.3%	12.2%	10.4%	18.5%	10.9%	8.9%	7.7%	7.4%	5.4%	3.9%	3.2%	1.8%	0.0%	0.0%	8.3%	0.0%		9.3%
PB005269	25.0%	26.2%	44.4%	17.9%	18.8%	15.3%	8.0%	22.1%	9.7%	15.0%	6.5%	4.8%	1.1%	1.9%	0.0%	0.0%	0.0%	0.0%		9.6%
PB005270	0.0%	23.3%	5.6%	12.0%	4.3%	6.8%	5.0%	8.3%	0.0%	0.7%	0.0%	2.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%		3.3%
PB005271	100.0%	33.3%	50.0%	21.9%	20.0%	9.7%	0.0%	15.8%	11.1%	6.2%	12.5%	6.6%	2.2%	0.6%	0.0%	0.0%	0.0%	0.0%		5.9%
PB005272		0.0%		33.3%	20.0%	0.0%	33.3%	50.0%	0.0%	0.0%	0.0%	4.8%	4.5%	0.0%	2.3%	0.0%	0.0%	0.0%		2.7%
PB005273	0.0%	29.4%	12.5%	10.2%	37.5%	6.5%	28.6%	11.8%	22.7%	12.7%	17.4%	3.7%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%		7.1%
PB005274	71.4%	20.5%	16.7%	11.5%	23.1%	13.4%	3.2%	10.3%	6.5%	3.8%	2.3%	1.1%	0.5%	0.4%	0.0%	0.0%	0.0%	0.0%		5.2%
PB005275	50.0%	42.1%	40.0%	16.2%	16.7%	8.8%	25.0%	11.3%	0.0%	6.6%	0.0%	2.8%	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%		9.1%
PB005276	33.3%	13.2%	23.1%	18.4%	16.1%	12.8%	10.5%	16.4%	17.8%	11.5%	4.6%	4.7%	1.9%	2.6%	0.9%	0.0%	0.0%	0.0%		8.4%
PB005277	21.1%	41.1%	23.7%	17.2%	20.3%	15.1%	10.2%	19.4%	8.5%	9.5%	14.3%	3.7%	3.4%	3.6%	0.0%	0.0%	0.0%	0.0%		13.1%
PB005278	83.3%	29.8%	60.0%	23.6%	23.3%	20.6%	17.4%	22.4%	22.0%	14.8%	4.1%	5.9%	5.9%	0.7%	0.0%	0.0%	0.0%	0.0%		13.5%
PB005279	30.0%	9.5%	18.2%	13.4%	10.3%	7.3%	3.4%	7.4%	7.7%	5.8%	1.8%	2.3%	0.6%	0.5%	0.0%	0.0%	0.0%	0.0%		4.6%
PB005280	60.0%	25.7%	11.1%	16.8%	19.0%	6.2%	9.5%	9.7%	15.0%	7.6%	7.1%	1.5%	1.1%	1.7%	0.0%	0.0%	0.0%	0.0%		7.2%
PB005281	66.7%	44.1%	42.9%	33.9%	31.8%	28.2%	32.3%	20.0%	13.8%	19.4%	16.2%	6.8%	2.4%	4.3%	2.0%	0.0%	0.0%	0.0%		15.9%
PB005282		21.1%	0.0%	4.8%	14.3%	12.8%	0.0%	7.7%	0.0%	5.7%	0.0%	1.6%	5.3%	2.3%	0.0%	0.0%	0.0%	0.0%		5.9%
PB005283	22.2%	18.3%	14.6%	12.4%	15.4%	12.1%	13.6%	14.4%	9.1%	11.6%	5.0%	3.4%	2.4%	2.5%	0.7%	0.0%	0.0%	0.0%		7.4%
PB005284	0.0%	20.0%		60.0%	33.3%	0.0%	33.3%	3.3%	0.0%	8.6%	0.0%	2.3%	1.2%	0.7%	0.8%	0.8%	1.6%	0.0%		2.4%
PB005286		30.0%	0.0%	19.5%	16.7%	11.6%	7.1%	17.6%	5.3%	7.0%	5.6%	0.0%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%		7.5%
PB005287	33.3%	12.5%	33.3%	9.8%	10.5%	6.3%	7.7%	9.2%	0.0%	5.9%	6.3%	1.9%	2.7%	1.1%	0.0%	0.0%	0.0%	0.0%		4.5%
PB005288	50.0%	24.0%	0.0%	16.3%	0.0%	7.6%	5.6%	11.2%	10.0%	8.1%	8.8%	3.0%	1.8%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%
PB005289	50.0%	30.0%	37.5%	13.5%	19.0%	11.0%	15.4%	18.2%	12.5%	7.5%	12.8%	1.9%	3.4%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	6.6%
PB005290	25.0%	31.6%	9.1%	21.7%	17.1%	10.1%	9.3%	10.9%	19.7%	6.4%	7.0%	2.2%	0.0%	0.8%	0.0%	0.0%	2.3%	0.0%		6.5%
PB005291	100.0%	36.4%	0.0%	12.8%	13.6%	10.0%	11.1%	8.6%	7.1%	8.8%	4.5%	2.6%	1.6%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%
PB005292	33.3%	40.0%	26.3%	26.9%	20.0%	22.0%	12.9%	21.0%	10.8%	10.1%	5.3%	4.8%	1.2%	0.0%	0.0%	4.4%	0.0%	0.0%		11.8%
PB005293	25.0%	31.6%	12.5%	10.3%	7.7%	12.5%	5.8%	12.8%	14.0%	8.1%	4.8%	1.5%	1.8%	0.9%	0.0%	0.0%	0.0%	0.0%		6.4%
PB005294	33.3%	41.7%	20.0%	23.8%	14.3%	21.6%	22.2%	21.9%	22.2%	5.1%	14.3%	6.8%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	13.7%
PB005295		50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	17.0%	12.5%	11.1%	0.0%	2.1%	0.0%	0.0%	0.9%	0.0%	1.6%	0.0%		3.0%
PB005297	50.0%	33.3%	66.7%	18.8%	0.0%	19.2%	0.0%	12.9%	0.0%	9.8%	0.0%	4.9%	0.0%	1.6%	4.1%	3.2%	1.4%	0.0%		5.6%
PB005298	0.0%	33.3%		10.5%	14.3%	0.0%	0.0%	2.8%	0.0%	6.6%	0.0%	0.0%	1.1%	0.6%	0.4%	0.0%	0.8%	0.0%	0.0%	1.5%
PB005299	0.0%	12.5%	14.3%	7.7%	6.3%	3.8%	27.3%	9.7%	11.8%	8.7%	7.0%	1.2%	3.3%	0.8%	0.4%	0.0%	0.0%	0.0%		2.3%
PB005300		25.0%	0.0%	20.0%	20.0%	21.7%	20.0%	14.6%	0.0%	2.8%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	0.0%	2.4%
PB005301	0.0%		0.0%	20.0%	0.0%	22.2%	0.0%	3.4%	0.0%	6.3%	0.0%	1.8%	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%		1.4%
PB005302		33.3%	0.0%	21.4%	11.1%	13.3%	16.7%	11.1%	10.0%	10.5%	0.0%	4.8%	6.1%	2.6%	0.0%	5.3%	0.0%			7.5%
PB005303	30.0%	32.6%	52.0%	38.0%	30.8%	27.9%	0.0%	4.5%	17.6%	5.5%	3.7%	5.4%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%		9.8%
PB005304	33.3%	25.9%	28.0%	17.4%	23.5%	12.7%	16.7%	18.7%	17.3%	10.9%	9.0%	5.2%	2.0%	2.3%	1.7%	0.0%	0.0%	0.0%		10.5%
PB005305		0.0%		9.1%	0.0%	7.1%	0.0%	6.7%	0.0%	10.7%	0.0%	1.8%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%		1.8%
PB005306	28.6%	25.4%	20.5%	18.0%	23.9%	13.4%	3.7%	13.9%	10.3%	8.4%	3.4%	2.1%	1.7%	1.0%	0.0%	0.0%	0.0%	0.0%		8.0%
PB005307	15.4%	16.8%	10.7%	18.6%	16.7%	14.2%	10.8%	13.6%	11.3%	9.2%	8.8%	3.6%	2.9%	0.7%	0.0%	0.0%	0.0%	0.0%		10.5%
PB005308	33.3%	25.5%	6.3%	13.6%	15.8%	14.1%	17.6%	20.5%	12.5%	4.7%	3.6%	2.2%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%		10.2%
PB005309																				0.0%
PB005310	0.0%	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.1%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.0%
PB005311	41.2%	25.0%	29.3%	20.8%	22.6%	17.2%	11.9%	17.5%	16.2%	9.7%	4.0%	2.4%	1.8%	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%	9.9%
PB005313	50.0%	40.0%	37.5%	16.7%	15.8%	21.3%	3.6%	11.9%	10.0%	13.9%	13.6%	3.9%	4.7%	1.8%	1.0%	0.0%	0.8%	0.0%		7.4%
PB005314					0.0%		0.0%	0.0%	0.0%	5.0%	0.0%	0.0%	0.0%	1.1%	0.0%	1.7%	0.0%	0.0%		0.7%
PB005315	0.0%	20.0%	0.0%	15.0%	0.0%	15.4%	9.1%	17.1%	11.8%	7.2%	0.0%	1.2%	1.7%	0.0%	1.3%	1.1%	0.0%	0.0%		4.0%
PB005316		0.0%	0.0%	17.6%	0.0%	2.9%	5.3%	14.3%	4.8%	2.4%	6.3%	1.5%	0.8%	0.0%	0.0%	0.8%	0.0%	0.0%		1.9%
PB005317		0.0%	0.0%	17.6%	12.5%	13.6%	7.7%	13.0%	8.7%	5.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%
PB005318	50.0%	6.9%	0.0%	13.8%	8.2%	5.6%	3.6%	9.2%	3.6%	6.5%	6.1%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		4.8%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005319	50.0%	13.9%	17.6%	10.2%	12.9%	5.7%	7.5%	8.7%	7.8%	6.1%	11.5%	2.4%	1.6%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%
PB005320	0.0%	26.7%	14.3%	16.4%	4.2%	8.7%	14.8%	13.9%	13.0%	7.7%	3.3%	2.7%	0.7%	1.0%	1.9%	0.0%	0.0%	0.0%	0.0%	5.6%
PB005321	100.0%	38.9%	7.7%	12.8%	19.0%	8.4%	0.0%	8.7%	0.0%	3.9%	4.9%	2.7%	0.8%	1.3%	1.5%	0.0%	0.0%	0.0%	0.0%	5.3%
PB005322	0.0%	25.0%	0.0%	25.0%	25.0%	8.7%	25.0%	11.5%	0.0%	7.3%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%
PB005324	26.7%	19.4%	19.4%	19.7%	9.5%	8.2%	13.2%	14.5%	8.3%	5.5%	1.1%	1.6%	1.5%	1.5%	0.9%	0.0%	0.0%	0.0%	0.0%	6.0%
PB005326		50.0%		33.3%	0.0%	0.0%	50.0%	28.6%		14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%
PB005327	50.0%	42.3%	28.6%	33.7%	16.7%	14.0%	11.8%	17.7%	8.3%	12.3%	4.0%	6.7%	0.0%	4.9%	5.9%	5.9%	0.0%	0.0%		16.3%
PB005328	0.0%	33.3%	0.0%	5.6%	0.0%	11.9%	0.0%	6.1%	0.0%	2.9%	0.0%	2.0%	0.0%	2.0%	1.4%	0.0%	0.0%	0.0%	0.0%	2.6%
PB005330	50.0%	20.8%	26.1%	19.4%	22.5%	11.0%	19.0%	20.1%	10.3%	9.4%	9.6%	5.6%	3.9%	1.9%	5.0%	4.5%	4.0%	25.0%		10.8%
PB005331		17.6%	0.0%	12.1%	8.3%	8.6%	7.7%	7.0%	0.0%	7.8%	9.1%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%
PB005332	0.0%	14.3%	0.0%	0.0%	0.0%	16.7%	100.0%	9.1%	20.0%	1.7%	0.0%	3.3%	2.9%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	2.2%
PB005334		38.5%	0.0%	17.5%	16.7%	10.4%	25.0%	9.9%	0.0%	5.6%	0.0%	2.5%	1.2%	1.5%	0.0%	1.3%	0.0%	0.0%	0.0%	4.9%
PB005336	25.0%	42.9%	25.0%	25.5%	54.5%	15.7%	45.5%	25.0%	20.0%	9.8%	27.8%	4.6%	6.5%	0.0%	0.0%	0.0%	0.0%			15.6%
PB005337	30.0%	39.2%	26.5%	20.8%	22.5%	14.1%	13.5%	10.9%	9.1%	8.7%	9.3%	4.7%	5.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.4%
PB005338																				0.0%
PB005339	40.0%	12.9%	16.7%	12.3%	17.6%	5.7%	8.3%	12.0%	0.0%	5.0%	4.0%	1.6%	2.3%	1.0%	0.0%	0.0%	0.0%	0.0%		5.3%
PB005342	50.0%	21.7%	12.5%	8.3%	0.0%	11.3%	35.7%	14.3%	0.0%	12.3%	11.1%	1.6%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	9.8%
PB005344				100.0%	0.0%	25.0%		16.7%	0.0%	11.1%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			14.0%
PB005345		12.5%	0.0%	16.0%	14.3%	8.2%	0.0%	9.6%	0.0%	5.6%	12.5%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%
PB005346	0.0%	0.0%	0.0%	3.7%	11.1%	8.2%	0.0%	17.9%	4.8%	4.7%	0.0%	2.2%	0.0%	1.3%	2.3%	0.0%	0.0%	0.0%	0.0%	4.2%
PB005347		22.2%	0.0%	3.6%	16.7%	17.8%	0.0%	10.0%	14.3%	5.3%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%
PB005348	0.0%	25.0%	16.7%	19.8%	8.7%	9.2%	20.0%	10.4%	20.0%	5.5%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%
PB005350	57.1%	25.0%	40.0%	14.9%	13.0%	10.4%	9.7%	12.6%	14.3%	6.6%	5.3%	3.2%	2.5%	3.3%	1.1%	0.0%	0.0%	0.0%	0.0%	6.6%
PB005351	33.3%	60.0%	10.0%	42.9%	14.3%	0.0%	20.0%	11.1%	0.0%	6.1%	0.0%	3.6%	2.9%	1.6%	0.0%	1.1%	0.0%	0.0%	0.0%	3.7%
PB005352	75.0%	41.7%	0.0%	21.3%	5.3%	15.1%	0.0%	12.2%	16.7%	7.5%	11.1%	3.5%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.0%
PB005353	33.3%	16.7%	28.6%	33.3%	35.7%	26.1%	33.3%	0.0%	0.0%	8.3%	25.0%	6.5%	25.0%	0.0%	0.0%	0.0%	0.0%			17.2%
PB005356	0.0%	0.0%	0.0%	20.0%	50.0%	14.3%	0.0%	8.3%	0.0%	0.0%	0.0%	3.7%	0.0%	3.1%	6.9%	0.0%	0.0%	0.0%	0.0%	4.0%
PB005357	50.0%	13.8%	14.3%	5.4%	8.9%	5.5%	5.5%	6.8%	2.0%	6.1%	1.6%	2.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
PB005358		0.0%	0.0%	25.0%		7.7%	0.0%	11.8%	0.0%	7.7%	0.0%	1.8%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%
PB005359	25.0%	11.1%	0.0%	7.7%	14.3%	0.0%	0.0%	0.0%	0.0%	1.5%	0.0%	2.7%	0.0%	0.9%	1.7%	0.0%	0.0%	0.0%	0.0%	1.4%
PB005360	66.7%	41.7%	43.8%	21.4%	14.6%	13.4%	18.6%	13.5%	7.9%	9.6%	1.9%	3.4%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	9.5%
PB005362	0.0%	30.0%	20.0%	22.2%	0.0%	20.8%	0.0%	29.2%	0.0%	4.3%	25.0%	1.4%	0.0%	0.0%	0.0%	2.2%	0.0%	0.0%	0.0%	5.0%
PB005363	0.0%	20.0%	50.0%	0.0%	0.0%	0.0%	0.0%	8.8%	0.0%	2.7%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%		1.1%
PB005364	0.0%	40.0%		16.7%	0.0%	23.5%	25.0%	14.3%	0.0%	10.2%	0.0%	1.8%	1.4%	0.0%	2.9%	0.0%	0.0%			5.0%
PB005365		0.0%	0.0%	6.7%	0.0%	14.7%	0.0%	1.4%	0.0%	3.6%	0.0%	1.3%	0.0%	0.8%	2.5%	0.0%	0.0%	0.0%	0.0%	1.9%
PB005367	42.9%	22.2%	25.0%	14.1%	7.1%	10.9%	10.3%	13.2%	10.7%	6.8%	3.4%	1.4%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%
PB005369	0.0%	0.0%	0.0%	9.5%	25.0%	0.0%	0.0%	12.1%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
PB005372	33.3%	23.1%	35.7%	10.8%	5.6%	7.4%	0.0%	10.1%	11.8%	7.0%	5.6%	1.5%	1.6%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
PB005373	60.0%	32.0%	18.2%	23.2%	14.3%	19.3%	11.5%	21.7%	14.3%	13.2%	8.9%	2.3%	0.0%	0.7%	0.6%	0.0%	0.0%	0.0%	0.0%	7.4%
PB005374	0.0%	18.8%	14.3%	4.4%	33.3%	6.0%	6.7%	4.2%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%
PB005375	0.0%	25.0%	50.0%	11.1%	0.0%	0.0%	0.0%	8.0%	20.0%	2.4%	0.0%	2.1%	2.1%	0.7%	0.0%	0.0%	1.4%	0.0%	0.0%	2.0%
PB005376	0.0%	34.4%	0.0%	8.9%	9.1%	8.5%	0.0%	8.5%	31.3%	5.5%	9.1%	0.0%	1.6%	0.0%	3.3%	0.0%	0.0%	0.0%	0.0%	6.3%
PB005377	0.0%	28.0%	10.0%	10.5%	4.8%	6.9%	9.7%	9.2%	9.5%	5.1%	2.3%	1.1%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
PB005378		0.0%	0.0%	16.7%	0.0%	0.0%	0.0%	8.3%	14.3%	10.2%	10.5%	0.9%	1.3%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	1.7%
PB005381	28.6%	8.2%	3.3%	12.3%	13.9%	9.0%	26.3%	9.5%	11.8%	7.6%	9.1%	1.2%	2.9%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	8.7%
PB005382	66.7%	30.4%	11.1%	15.6%	13.0%	12.0%	21.1%	11.5%	3.2%	5.8%	0.0%	1.6%	2.5%	3.6%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%
PB005383		0.0%	0.0%	0.0%	0.0%	0.0%	40.0%	11.8%	0.0%	0.0%	5.0%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
PB005384		0.0%		50.0%	0.0%	22.2%	0.0%	12.5%		11.8%	50.0%	2.9%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%
PB005386	20.0%	28.6%	32.0%	22.2%	6.9%	12.2%	5.7%	17.2%	2.3%	5.7%	8.5%	2.9%	0.0%	0.6%	5.9%	0.0%	0.0%	0.0%	0.0%	8.3%
PB005387	0.0%	44.1%	10.0%	13.4%	7.4%	15.7%	9.1%	17.1%	28.0%	9.0%	9.1%	2.9%	1.4%	2.7%	1.8%	0.0%	0.0%	0.0%	0.0%	9.9%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005389	14.3%	19.2%	14.3%	20.7%	25.0%	2.7%	0.0%	12.5%	16.7%	0.0%	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.3%
PB005390	50.0%	17.6%	20.0%	25.6%	20.0%	12.2%	0.0%	16.0%	0.0%	8.6%	13.3%	4.5%	6.0%	0.9%	0.0%	0.0%	12.5%	0.0%		8.2%
PB005391	30.0%	29.6%	37.5%	19.2%	19.6%	13.7%	5.3%	15.3%	15.3%	8.5%	1.1%	1.6%	1.0%	1.2%	0.0%	0.0%	0.0%	0.0%		6.7%
PB005392	0.0%	22.2%	66.7%	29.8%	8.3%	7.8%	0.0%	5.7%	0.0%	0.8%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.7%
PB005394	20.0%	42.9%	25.0%	24.4%	5.9%	12.9%	29.4%	17.0%	3.2%	8.9%	4.8%	3.1%	2.0%	1.2%	0.0%	0.3%	0.0%	0.0%		3.4%
PB005395	23.8%	16.9%	11.4%	13.0%	5.7%	8.7%	11.7%	9.7%	5.1%	5.6%	3.1%	2.3%	1.3%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%
PB005396		20.0%	0.0%	0.0%	50.0%	16.7%	0.0%	20.0%	100.0%	5.9%	0.0%	4.3%	0.0%	0.0%	1.1%	4.5%	0.0%	0.0%		3.2%
PB005397	33.3%	36.0%	0.0%	21.4%	25.0%	16.7%	47.4%	28.8%	11.8%	19.5%	9.1%	5.8%	5.0%	13.3%	0.0%	0.0%	0.0%	0.0%		18.0%
PB005398	66.7%	30.0%	16.7%	19.5%	18.2%	16.0%	19.0%	19.0%	17.6%	11.5%	10.5%	5.3%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%		11.5%
PB005399	0.0%	9.5%	25.0%	23.5%	18.4%	21.9%	16.0%	18.0%	11.8%	7.8%	11.5%	3.7%	1.9%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	8.5%
PB005400	33.3%	30.2%	12.5%	18.5%	14.3%	13.1%	13.2%	12.9%	11.4%	7.6%	11.3%	2.6%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%		8.2%
PB005401	0.0%	40.0%	0.0%	16.7%	15.8%	14.6%	14.3%	12.0%	18.8%	4.3%	0.0%	2.2%	0.0%	0.0%	0.0%	5.6%	0.0%	0.0%		8.0%
PB005402																				0.0%
PB005403	25.0%	14.9%	14.3%	14.1%	13.6%	5.4%	12.2%	10.8%	15.4%	6.1%	3.8%	1.9%	1.5%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%
PB005404	0.0%	33.3%	28.6%	18.9%	11.8%	6.5%	8.3%	10.2%	0.0%	9.3%	0.0%	5.3%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	6.3%
PB005405	50.0%	22.6%	30.0%	16.5%	17.1%	12.9%	15.4%	14.3%	0.0%	8.3%	6.9%	2.1%	2.1%	0.8%	5.1%	0.0%	0.0%	0.0%		8.5%
PB005406	0.0%	10.0%	16.7%	21.6%	7.7%	13.4%	9.5%	9.6%	10.3%	5.9%	8.3%	2.3%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%		5.6%
PB005407	50.0%	25.0%	33.3%	16.7%	14.3%	11.6%	11.1%	11.7%	0.0%	8.8%	5.9%	6.2%	0.0%	2.1%	2.9%	0.0%	0.0%	0.0%		7.3%
PB005408	100.0%	60.9%	25.0%	31.5%	40.9%	36.9%	50.0%	38.5%	38.9%	26.3%	5.6%	9.8%	3.3%	1.8%	2.4%	3.0%	0.0%	0.0%		19.9%
PB005409	100.0%	50.0%	20.0%	18.8%	0.0%	17.0%	0.0%	15.2%	9.5%	2.4%	2.8%	1.8%	2.0%	1.6%	0.0%	2.9%	0.0%	0.0%		5.1%
PB005410	50.0%	28.6%	0.0%	20.8%	30.0%	7.8%	7.1%	21.3%	0.0%	8.8%	7.7%	10.6%	0.0%	1.1%	0.0%	9.1%	0.0%	0.0%		9.6%
PB005411	23.7%	30.2%	13.5%	19.2%	17.0%	17.4%	9.6%	17.7%	7.1%	9.5%	5.9%	2.2%	1.6%	0.6%	0.0%	0.0%	0.0%	0.0%		11.2%
PB005412	12.5%	16.1%	23.1%	12.8%	5.3%	11.1%	4.9%	17.7%	14.3%	11.3%	6.8%	5.5%	0.0%	2.0%	0.0%	0.0%	12.5%	0.0%		10.2%
PB005413	20.0%	20.9%	14.3%	19.0%	27.8%	14.9%	12.0%	16.3%	15.4%	11.0%	4.3%	5.6%	2.0%	0.0%	1.4%	0.0%	0.0%	0.0%		9.5%
PB005414	66.7%	15.6%	36.4%	15.2%	9.7%	10.9%	6.1%	13.6%	17.1%	6.3%	8.3%	3.0%	0.0%	2.4%	0.0%	2.5%	0.0%	0.0%	0.0%	6.5%
PB005415		33.3%	66.7%	18.2%	0.0%	4.8%	50.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		2.5%
PB005416		14.3%	0.0%	0.0%	0.0%	8.3%	0.0%	9.1%	0.0%	15.2%	8.3%	0.0%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%		2.7%
PB005417	0.0%	57.1%	0.0%	15.8%	0.0%	11.6%	14.3%	3.7%	0.0%	3.9%	3.6%	0.0%	0.0%	0.6%	1.2%	0.8%	0.0%	0.0%		2.2%
PB005418	66.7%	41.7%	37.5%	42.1%	42.9%	24.1%	40.0%	16.0%	20.0%	6.9%	0.0%	10.3%	5.7%	2.3%	7.7%	0.0%	0.0%	0.0%	0.0%	16.7%
PB005419	25.0%	31.3%	25.0%	13.3%	37.5%	20.0%	0.0%	22.4%	8.3%	15.9%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		10.8%
PB005420	100.0%	28.6%		0.0%	25.0%	0.0%	0.0%	42.9%	0.0%	7.4%	5.6%	5.3%	0.0%	1.3%	3.3%	0.0%	0.0%	0.0%	0.0%	3.8%
PB005421	100.0%	42.9%	0.0%	12.0%	0.0%	7.1%	0.0%	19.4%	0.0%	9.9%	0.0%	1.0%	1.9%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%
PB005423	40.0%	22.6%	25.0%	12.5%	7.7%	10.2%	10.5%	14.0%	0.0%	9.4%	6.7%	2.7%	2.1%	1.7%	0.9%	0.0%	1.6%	0.0%		5.3%
PB005424																				0.0%
PB005425		33.3%		10.0%		0.0%		18.2%		8.3%	0.0%	0.0%	0.0%	25.0%		0.0%				10.0%
PB005426	33.3%	17.8%	15.4%	16.5%	13.5%	18.8%	10.6%	15.6%	16.7%	8.3%	9.4%	3.7%	0.7%	1.1%	0.0%	1.5%	0.0%	0.0%		8.4%
PB005428		0.0%	11.1%	0.0%	0.0%	10.0%	0.0%	17.4%	0.0%	5.1%	5.6%	4.3%	1.1%	0.9%	0.0%	2.6%	1.0%	0.0%		2.4%
PB005430	39.1%	35.4%	28.8%	29.9%	33.9%	26.5%	30.9%	26.3%	26.5%	21.0%	14.4%	9.4%	4.8%	2.9%	2.7%	1.4%	0.0%	0.0%	0.0%	17.4%
PB005432	80.0%	40.0%	20.0%	33.3%	33.3%	17.2%	11.1%	10.9%	14.3%	10.0%	28.6%	2.2%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%		14.6%
PB005433	22.2%	22.0%	21.7%	15.2%	16.7%	6.2%	7.1%	8.8%	7.0%	4.4%	6.0%	1.5%	0.7%	1.4%	0.0%	1.7%	0.0%	0.0%		5.8%
PB005434	29.4%	30.0%	10.0%	21.5%	22.2%	14.5%	15.9%	14.9%	13.2%	5.7%	5.8%	1.2%	3.8%	1.6%	3.3%	0.0%	0.0%	0.0%		10.9%
PB005435	50.0%	60.0%	14.3%	26.1%	40.0%	25.5%	12.5%	24.4%	21.4%	14.8%	6.7%	9.1%	2.9%	5.6%	0.0%	0.0%	0.0%	0.0%		16.2%
PB005436																				0.0%
PB005437	0.0%	10.0%	0.0%	4.3%	12.5%	0.0%	0.0%	16.7%	0.0%	12.1%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		2.9%
PB005438	50.0%	22.2%	10.0%	10.8%	17.6%	16.1%	15.2%	16.8%	16.7%	4.3%	7.4%	1.4%	2.7%	1.2%	0.0%	0.0%	0.0%	0.0%		8.2%
PB005439	50.0%	22.2%	22.2%	23.5%	10.0%	10.5%	15.4%	16.2%	0.0%	9.8%	12.5%	3.0%	0.0%	0.0%	0.0%	7.1%	0.0%			8.5%
PB005441	12.5%	25.8%	0.0%	16.5%	9.1%	6.5%	3.4%	10.5%	5.7%	4.9%	0.0%	1.2%	1.7%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	5.2%
PB005442	33.3%	35.0%	37.5%	25.4%	22.2%	10.3%	40.0%	16.2%	15.0%	4.9%	5.3%	2.4%	2.5%	3.4%	0.0%	0.0%	0.0%	0.0%		11.0%
PB005443	0.0%	25.0%	0.0%	13.8%	11.8%	8.2%	4.3%	7.2%	6.1%	3.9%	3.6%	1.0%	0.7%	0.4%	0.0%	0.0%	0.0%	0.0%		3.5%
PB005444		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%	0.0%	0.0%						0.0%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005445		0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
PB005446		15.4%	33.3%	19.6%	0.0%	10.4%	0.0%	11.8%	4.5%	12.0%	3.0%	3.1%	0.0%	1.2%	0.0%	2.6%	0.0%	0.0%		6.6%
PB005448	12.0%	16.4%	11.7%	9.3%	5.5%	6.3%	7.1%	5.7%	8.7%	3.7%	0.7%	0.7%	0.7%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	3.5%
PB005449		33.3%	33.3%	22.2%	13.3%	21.6%	7.7%	20.4%	7.7%	10.4%	6.3%	9.2%	3.4%	1.8%	0.0%	0.0%	0.0%	0.0%		10.7%
PB005450	60.0%	32.7%	9.5%	18.6%	20.5%	12.8%	3.2%	10.0%	14.8%	9.0%	3.7%	3.6%	1.4%	3.3%	0.0%	0.0%	0.0%	0.0%		9.5%
PB005451	33.3%	38.3%	41.2%	16.7%	28.6%	9.8%	22.6%	16.7%	10.7%	2.2%	9.1%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		12.0%
PB005452		5.1%	0.0%	1.4%	0.0%	1.2%	0.0%	7.7%	0.0%	2.3%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		2.0%
PB005453	28.6%	23.5%	9.5%	10.2%	8.7%	7.2%	2.0%	8.4%	4.2%	5.4%	6.5%	0.6%	3.0%	2.8%	2.2%	1.7%	2.3%	0.0%		5.1%
PB005455	0.0%	33.3%	16.7%	47.4%	20.0%	3.0%	0.0%	6.7%	25.0%	5.4%	9.5%	3.5%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	5.5%
PB005456	50.0%	21.8%	17.1%	12.8%	4.4%	6.4%	2.0%	6.7%	10.3%	4.8%	2.2%	1.4%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%
PB005457	50.0%	39.0%	20.0%	23.1%	14.3%	14.9%	11.1%	0.0%	0.0%	10.5%	30.8%	9.3%	9.7%	0.0%	0.0%	0.0%	0.0%			13.1%
PB005458	40.0%	10.3%	15.8%	12.9%	29.6%	8.6%	15.0%	11.4%	9.8%	8.4%	2.3%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.4%
PB005459	33.3%	28.6%	0.0%	14.3%	0.0%	10.0%	28.6%	12.2%	0.0%	2.1%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		6.4%
PB005460	33.3%	35.0%	14.3%	15.8%	12.5%	9.2%	8.3%	13.3%	18.8%	4.3%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.2%
PB005462	10.0%	20.8%	40.0%	7.6%	14.8%	15.2%	8.3%	12.8%	4.3%	9.4%	6.3%	3.2%	3.7%	2.9%	0.0%	0.0%	0.0%	0.0%		6.7%
PB005463	30.0%	46.8%	28.1%	25.6%	24.6%	19.4%	20.0%	19.6%	11.6%	13.9%	6.9%	3.1%	2.8%	6.9%	1.7%	4.3%	0.0%	0.0%		14.9%
PB005464	0.0%	17.0%	11.1%	8.2%	7.1%	11.5%	6.1%	8.5%	16.7%	6.9%	8.3%	1.7%	2.6%	0.8%	3.1%	0.0%	0.0%	0.0%		6.7%
PB005465	26.1%	31.2%	24.6%	19.9%	17.2%	16.8%	22.4%	17.7%	15.6%	9.7%	7.3%	5.0%	1.1%	1.1%	0.0%	0.0%	0.0%	0.0%		11.7%
PB005466	50.0%	21.4%	0.0%	13.9%	7.1%	12.8%	14.3%	8.1%	7.1%	4.4%	9.1%	2.2%	1.3%	2.7%	2.2%	2.9%	0.0%	0.0%		5.8%
PB005467	32.0%	22.5%	27.9%	17.0%	13.4%	9.7%	8.2%	9.8%	10.1%	2.5%	1.6%	0.6%	1.7%	0.3%	0.0%	0.6%	0.0%	0.0%		6.3%
PB005468	0.0%	19.0%	0.0%	19.3%	18.2%	6.2%	12.5%	9.8%	10.5%	6.5%	14.7%	1.0%	2.7%	1.4%	0.0%	0.0%	0.0%	0.0%		5.2%
PB005470	14.3%	12.8%	13.0%	8.7%	8.7%	5.1%	6.1%	8.5%	3.8%	3.9%	1.2%	0.4%	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%		4.4%
PB005471	29.4%	27.3%	31.6%	15.6%	13.7%	14.2%	3.7%	15.1%	9.6%	8.6%	4.3%	1.9%	1.5%	0.0%	0.7%	0.9%	0.0%	0.0%		7.7%
PB005472	0.0%	13.0%	20.0%	19.1%	9.1%	14.4%	7.1%	14.9%	12.5%	4.4%	19.0%	2.1%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%		7.7%
PB005473	8.3%	23.2%	21.0%	15.1%	7.1%	9.8%	8.2%	10.3%	7.3%	4.3%	5.2%	1.4%	1.3%	2.2%	2.6%	0.0%	0.0%	0.0%		6.4%
PB005474	40.0%	25.0%	8.3%	23.1%	8.7%	11.3%	15.8%	15.7%	12.5%	14.9%	8.2%	2.8%	0.6%	1.3%	3.2%	0.0%	3.4%	0.0%		7.7%
PB005477	14.3%	23.4%	4.5%	9.9%	7.5%	7.0%	3.9%	7.0%	4.5%	6.5%	1.6%	0.9%	1.3%	1.2%	0.7%	0.0%	0.0%	0.0%		3.8%
PB005478	33.3%	26.3%	18.2%	14.3%	25.0%	6.5%	2.7%	13.0%	0.0%	5.0%	8.7%	0.0%	0.0%	0.9%	2.8%	3.8%	0.0%	0.0%		6.6%
PB005479	50.0%	20.7%	14.3%	16.1%	13.9%	11.9%	23.8%	8.5%	9.1%	4.6%	2.0%	2.4%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%		5.7%
PB005481	40.0%	29.2%	23.1%	13.9%	21.2%	10.1%	9.8%	15.2%	12.2%	8.0%	6.7%	1.5%	2.2%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%
PB005483	66.7%	18.2%	0.0%	19.0%	11.1%	12.8%	27.3%	16.1%	14.3%	8.5%	11.8%	1.2%	5.0%	1.6%	3.6%	8.7%	0.0%	0.0%		7.7%
PB005484	22.2%	33.3%	38.5%	23.7%	17.9%	17.1%	11.1%	22.6%	14.3%	10.4%	8.0%	2.6%	1.4%	1.3%	0.0%	2.0%	0.0%	0.0%		11.1%
PB005485	20.0%	4.3%	13.6%	11.0%	6.0%	6.5%	3.4%	9.2%	7.4%	6.2%	3.6%	1.3%	1.0%	0.7%	0.0%	0.0%	0.0%	0.0%		5.1%
PB005486	22.2%	16.4%	15.2%	11.9%	10.0%	8.1%	8.2%	12.8%	4.6%	8.6%	4.0%	1.2%	1.4%	1.4%	0.0%	0.0%	0.0%	0.0%		6.5%
PB005487	0.0%	4.3%	18.2%	7.4%	13.3%	8.0%	0.0%	8.9%	7.7%	4.0%	7.1%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.7%
PB005488	0.0%	14.3%	19.0%	17.7%	4.0%	8.5%	9.7%	13.3%	11.1%	8.1%	3.0%	2.3%	2.7%	0.0%	0.0%	0.0%	0.0%	0.0%		6.8%
PB005489	0.0%	25.5%	7.7%	8.3%	14.5%	7.9%	4.4%	9.7%	9.7%	4.1%	0.8%	1.7%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%		4.7%
PB005490		25.0%	66.7%	33.3%	28.6%	45.5%	25.0%	17.6%	0.0%	8.8%	18.2%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		7.2%
PB005491	70.0%	44.3%	31.1%	28.4%	26.2%	29.4%	25.7%	22.7%	22.9%	16.2%	11.6%	4.6%	3.7%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	17.3%
PB005493		25.0%	0.0%	10.0%	25.0%	23.1%	16.7%	29.5%	33.3%	17.4%	14.3%	3.2%	4.3%	2.9%	0.0%	0.0%	0.0%	0.0%		12.3%
PB005494	25.0%	30.8%	28.6%	20.2%	9.8%	8.6%	13.7%	14.1%	7.1%	8.1%	1.4%	2.7%	1.7%	0.5%	0.8%	0.0%	0.0%	0.0%		6.6%
PB005495	20.0%	18.4%	33.3%	9.4%	4.3%	5.8%	4.0%	6.8%	0.0%	6.9%	9.7%	0.4%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%		4.3%
PB005496	0.0%	23.1%	28.6%	23.5%	16.7%	17.3%	27.3%	20.2%	17.5%	13.4%	10.7%	2.9%	2.1%	2.8%	3.8%	0.0%	0.0%	0.0%		13.3%
PB005498	50.0%	7.7%	22.2%	13.7%	10.0%	5.4%	4.0%	10.2%	7.1%	6.0%	9.7%	2.8%	2.2%	0.8%	0.0%	0.0%	0.0%	0.0%		5.3%
PB005499	20.0%	14.9%	6.8%	6.6%	9.4%	4.3%	4.5%	5.9%	0.0%	1.6%	4.4%	1.9%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%		4.2%
PB005500	33.3%	14.3%	25.0%	15.5%	15.2%	12.9%	9.9%	16.4%	13.0%	7.2%	3.3%	3.3%	2.5%	2.2%	1.9%	0.0%	0.0%	0.0%		8.1%
PB005501	0.0%	11.8%	11.1%	8.7%	0.0%	6.2%	0.0%	5.3%	5.6%	4.1%	6.5%	1.6%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%		3.2%
PB005502	20.0%	37.8%	22.2%	26.8%	18.8%	19.6%	10.3%	19.7%	11.4%	14.9%	3.9%	4.4%	1.5%	3.1%	2.3%	0.0%	0.0%	0.0%		10.5%
PB005503	25.0%	17.8%	30.0%	12.2%	12.5%	3.1%	21.4%	9.8%	6.3%	6.4%	0.0%	3.1%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%		4.9%
PB005504	33.3%	32.3%	7.4%	21.2%	14.3%	15.7%	13.5%	14.2%	10.7%	7.6%	5.7%	3.1%	1.3%	1.8%	0.7%	0.0%	0.0%	0.0%	0.0%	7.5%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005505	0.0%	33.3%	9.1%	10.9%	13.8%	8.8%	8.8%	7.5%	18.6%	4.7%	5.6%	1.5%	0.9%	1.8%	0.0%	0.0%	3.1%	0.0%		5.0%
PB005506		33.3%	0.0%	57.1%	0.0%	0.0%	100.0%	28.6%	0.0%	12.5%	0.0%	30.0%	11.1%	0.0%		0.0%	0.0%			19.7%
PB005507	25.0%	11.8%	33.3%	12.2%	13.2%	12.4%	11.1%	7.0%	10.5%	6.9%	7.3%	0.4%	2.9%	0.5%	3.2%	0.0%	0.0%	0.0%		5.8%
PB005509	27.3%	25.5%	24.1%	20.1%	7.7%	10.2%	8.9%	10.3%	11.2%	8.2%	4.5%	1.5%	1.0%	0.3%	0.0%	0.0%	0.0%	0.0%		5.1%
PB005510	0.0%	14.3%	11.1%	9.2%	6.4%	4.8%	4.9%	3.6%	4.3%	5.1%	3.3%	1.6%	1.2%	0.8%	0.0%	0.0%	0.0%	0.0%		3.8%
PB005511	0.0%	14.3%	0.0%	11.9%	16.7%	22.0%	13.6%	15.4%	20.0%	5.4%	12.5%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		7.7%
PB005512	50.0%	23.8%	0.0%	17.6%	0.0%	6.6%	4.3%	7.3%	10.5%	7.6%	2.9%	1.3%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%		4.6%
PB005513	0.0%	18.2%	0.0%	14.6%	12.5%	10.8%	15.4%	14.3%	6.3%	7.7%	4.3%	3.4%	3.4%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%
PB005514	0.0%	31.6%	33.3%	25.5%	19.0%	7.7%	28.6%	18.3%	17.6%	11.9%	10.5%	3.3%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%		11.7%
PB005515	0.0%	41.7%	36.4%	24.3%	23.9%	24.8%	20.5%	25.7%	14.6%	10.9%	7.1%	2.9%	1.3%	0.0%	2.3%	0.0%	0.0%	0.0%		14.0%
PB005516	33.3%	23.5%	28.6%	19.6%	10.5%	10.9%	10.7%	9.2%	15.0%	11.4%	5.6%	3.8%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%		9.2%
PB005517	0.0%	19.0%	28.6%	8.1%	9.5%	11.9%	9.4%	11.3%	9.3%	3.3%	2.6%	1.7%	1.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	4.4%
PB005518		11.1%	33.3%	8.5%	25.0%	12.3%	6.7%	10.2%	8.7%	8.0%	10.5%	2.7%	1.4%	0.0%	0.0%	0.0%	0.0%			6.1%
PB005519	66.7%	20.0%	20.0%	12.5%	22.2%	0.0%	21.4%	13.9%	20.0%	6.3%	0.0%	6.7%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.1%
PB005520	15.4%	25.4%	29.3%	20.4%	17.1%	11.8%	9.0%	12.8%	15.3%	8.3%	4.9%	2.8%	1.0%	1.6%	0.0%	1.4%	0.0%	0.0%	0.0%	8.4%
PB005521	30.0%	21.4%	26.7%	14.6%	11.5%	14.4%	14.8%	10.4%	5.6%	3.7%	3.4%	2.4%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%		6.0%
PB005522	33.3%	40.0%	33.3%	17.1%	20.0%	11.5%	0.0%	12.8%	18.2%	11.8%	5.6%	1.4%	0.0%	1.6%	0.0%	4.0%	0.0%	0.0%		8.1%
PB005523	0.0%	0.0%	50.0%	22.2%	17.4%	10.3%	17.6%	20.0%	46.7%	16.7%	4.3%	6.0%	6.3%	0.0%	0.0%	7.1%	0.0%	0.0%		11.9%
PB005526		18.2%	33.3%	27.3%	14.3%	12.5%	20.0%	13.3%	11.1%	12.5%	5.9%	5.2%	0.0%	4.0%	0.0%	0.0%	0.0%			8.8%
PB005527	12.5%	25.8%	21.4%	15.4%	10.2%	9.0%	7.3%	10.8%	9.8%	5.1%	3.6%	2.6%	1.0%	0.0%	0.0%	0.0%	2.9%	0.0%		6.9%
PB005529	100.0%	33.3%	50.0%	20.0%	33.3%	7.7%	16.7%	6.3%	12.5%	3.1%	5.9%	1.8%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%		3.1%
PB005530		14.3%	0.0%	5.0%	33.3%	19.0%	50.0%	17.4%	0.0%	15.2%	0.0%	2.8%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	3.0%
PB005531	50.0%	21.4%	25.0%	7.7%	14.3%	17.8%	17.4%	10.8%	19.0%	11.3%	3.0%	0.0%	1.1%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	4.5%
PB005532	50.0%	31.3%	18.2%	21.8%	28.6%	11.8%	17.2%	20.0%	14.5%	14.6%	7.3%	1.8%	2.5%	0.7%	0.0%	1.4%	0.0%	0.0%		9.7%
PB005533																				0.0%
PB005534	27.3%	25.0%	22.2%	5.3%	20.0%	16.1%	8.9%	11.6%	8.1%	8.5%	5.2%	4.3%	2.3%	0.3%	0.6%	0.0%	0.0%	0.0%		6.0%
PB005535		0.0%	100.0%	0.0%	0.0%	13.3%	20.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%
PB005536	0.0%	38.5%	50.0%	7.9%	18.8%	6.9%	0.0%	13.2%	4.2%	6.3%	7.1%	2.4%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%		5.5%
PB005537		50.0%	0.0%	11.1%	0.0%	0.0%		21.1%	0.0%	9.8%	8.3%	1.2%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%		3.7%
PB005538	50.0%	22.8%	41.9%	18.0%	31.3%	20.4%	11.4%	13.6%	20.6%	9.9%	2.5%	7.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.4%
PB005539	11.1%	25.9%	33.3%	19.4%	34.3%	9.6%	35.3%	15.8%	3.4%	12.9%	0.0%	0.6%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%		8.7%
PB005540	44.4%	28.6%	15.3%	16.1%	15.5%	12.9%	14.9%	12.6%	11.3%	5.4%	2.6%	2.4%	1.4%	1.3%	2.7%	2.5%	0.0%	0.0%		10.2%
PB005541	20.0%	43.5%	37.5%	29.3%	40.9%	19.1%	23.8%	17.6%	6.3%	12.8%	8.3%	3.9%	1.1%	1.7%	1.3%	3.4%	0.0%	0.0%		11.9%
PB005542	50.0%	0.0%	0.0%	10.0%	0.0%	9.6%	0.0%	7.2%	0.0%	4.7%	3.6%	1.4%	0.0%	2.2%	0.9%	0.0%	0.0%	3.4%		2.5%
PB005543			0.0%	6.7%	25.0%	0.0%	25.0%	12.8%	0.0%	3.2%	6.3%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		2.5%
PB005544	25.0%	14.3%	21.4%	14.3%	23.1%	8.6%	3.8%	9.8%	9.1%	7.6%	4.2%	2.3%	4.4%	0.0%	0.0%	1.8%	0.0%	0.0%		6.4%
PB005546	33.3%	21.4%	0.0%	22.6%	25.0%	17.6%	33.3%	14.6%	25.0%	13.8%	20.0%	7.0%	0.0%	3.8%	0.0%	0.0%	0.0%	0.0%		11.7%
PB005547	0.0%	19.4%	0.0%	14.6%	8.0%	4.7%	7.7%	9.0%	14.8%	5.8%	4.5%	3.3%	1.1%	0.6%	0.0%	0.0%	0.0%	0.0%		5.5%
PB005549																				0.0%
PB005550	100.0%	0.0%	50.0%	18.8%	0.0%	3.2%	0.0%	9.7%	7.7%	0.0%	7.7%	3.1%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%		3.5%
PB005551	0.0%	24.0%	12.5%	26.3%	0.0%	13.5%	18.2%	21.4%	5.9%	12.7%	15.0%	4.4%	2.9%	1.6%	2.6%	3.2%	0.0%	0.0%		9.7%
PB005552	44.4%	23.8%	7.1%	14.3%	14.8%	7.7%	9.1%	19.2%	6.9%	5.8%	15.0%	1.7%	1.3%	0.0%	0.0%	2.6%	0.0%	0.0%		7.0%
PB005553	40.0%	15.0%	0.0%	25.4%	27.8%	21.7%	12.5%	17.9%	20.0%	8.1%	11.1%	1.4%	3.8%	1.0%	0.0%	0.0%	0.0%	0.0%		9.4%
PB005554	66.7%	13.5%	21.4%	10.4%	15.4%	5.1%	7.4%	9.3%	11.8%	3.3%	0.0%	4.2%	1.6%	1.9%	0.0%	0.0%	0.0%	0.0%		5.0%
PB005555	33.3%	31.2%	27.3%	13.4%	9.8%	9.2%	10.0%	7.9%	4.5%	4.1%	2.3%	2.0%	3.1%	1.1%	0.0%	0.0%	0.0%	0.0%		5.8%
PB005556	11.1%	18.4%	19.2%	9.5%	8.0%	7.6%	2.2%	9.8%	5.0%	8.6%	7.2%	5.4%	2.9%	0.6%	0.0%	0.0%	0.0%	0.0%		6.2%
PB005559	55.6%	41.0%	29.0%	11.1%	24.4%	12.3%	13.5%	14.2%	10.3%	4.9%	1.3%	2.9%	1.7%	0.4%	0.0%	0.0%	0.0%	0.0%		6.7%
PB005560	20.0%	19.0%	20.0%	9.0%	14.3%	6.2%	0.0%	6.9%	8.1%	4.8%	3.6%	4.0%	1.4%	1.1%	0.0%	0.0%	0.0%	0.0%		4.8%
PB005569	100.0%	27.4%	20.0%	13.5%	45.5%	10.9%	15.4%	10.1%	10.1%	0.0%	7.9%	4.2%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%		6.7%
PB005570	33.3%	33.3%	35.7%	28.0%	31.1%	18.8%	10.8%	19.4%	17.4%	12.0%	8.7%	5.0%	2.0%	1.6%	2.2%	1.0%	0.0%	0.0%		11.7%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005572	25.0%	50.0%	23.1%	29.0%	35.0%	21.6%	15.0%	23.2%	13.6%	20.7%	3.3%	3.6%	0.9%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	12.1%
PB005573	0.0%	40.0%	0.0%	8.3%	75.0%	22.2%	0.0%	15.8%	33.3%	11.1%	16.7%	3.1%	0.0%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	7.3%
PB005574	0.0%	28.6%	25.0%	13.8%	15.8%	9.5%	5.9%	15.1%	6.1%	4.8%	4.3%	2.3%	1.2%	0.6%	0.0%	1.2%	0.0%	0.0%	0.0%	4.9%
PB005575	75.0%	34.5%	0.0%	11.7%	13.3%	23.1%	7.1%	17.5%	7.7%	16.3%	3.1%	2.8%	3.0%	2.5%	2.9%	0.0%	0.0%	0.0%	0.0%	9.5%
PB005576	66.7%	40.5%	29.2%	26.2%	23.3%	32.5%	17.6%	17.6%	7.9%	12.8%	13.2%	7.6%	2.6%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	13.7%
PB005577	57.1%	24.2%	21.4%	17.0%	24.3%	18.0%	5.6%	22.8%	17.2%	11.3%	6.7%	4.3%	3.9%	1.0%	0.0%	2.8%	0.0%	0.0%	0.0%	11.8%
PB005578	0.0%	11.8%	18.2%	16.2%	11.1%	8.3%	14.3%	8.8%	7.7%	5.2%	2.2%	1.1%	0.7%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	4.6%
PB005579	16.7%	17.6%	0.0%	0.0%	10.0%	9.9%	12.5%	10.7%	0.0%	7.5%	4.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.4%
PB005580	50.0%	8.3%	15.8%	27.8%	11.1%	8.3%	12.9%	19.4%	12.0%	8.9%	6.0%	2.5%	2.7%	1.2%	2.2%	0.0%	0.0%	0.0%	0.0%	7.7%
PB005582	66.7%	11.1%	50.0%	13.3%	16.7%	21.4%	14.3%	31.6%	0.0%	23.1%	0.0%	14.3%	14.3%	12.5%	0.0%	0.0%	0.0%	0.0%		18.7%
PB005585		40.0%		0.0%	0.0%	8.3%	0.0%	7.5%	12.5%	7.7%	0.0%	1.3%	0.0%	0.0%	0.0%	3.3%	0.0%	0.0%		3.1%
PB005586	42.9%	18.9%	12.5%	11.1%	6.8%	11.1%	14.3%	12.6%	3.8%	9.8%	6.3%	2.7%	0.8%	1.7%	0.8%	0.0%	0.0%	0.0%	0.0%	5.8%
PB005587		11.1%	50.0%	9.5%	25.0%	10.5%	0.0%	16.1%	16.7%	6.3%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.2%
PB005590		11.1%	0.0%	10.3%	0.0%	0.0%	0.0%	21.4%	0.0%	5.3%	0.0%	2.7%	0.9%	1.2%	1.1%	0.0%	0.0%	0.0%	0.0%	2.7%
PB005592	20.0%	21.4%	50.0%	16.4%	0.0%	13.4%	7.1%	12.2%	9.1%	10.3%	10.3%	1.8%	2.5%	3.2%	0.0%	4.2%	0.0%	0.0%	0.0%	8.1%
PB005593	33.3%	31.3%	25.0%	16.0%	0.0%	11.2%	19.5%	11.0%	9.1%	9.3%	5.3%	3.8%	3.6%	1.4%	1.0%	0.0%	0.0%	0.0%	0.0%	7.0%
PB005595	40.0%	17.6%	16.7%	15.1%	20.0%	9.9%	7.4%	8.6%	4.2%	7.5%	4.4%	1.4%	0.6%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	4.4%
PB005603	0.0%	30.8%	37.5%	10.8%	7.9%	7.9%	16.3%	12.1%	11.9%	4.6%	2.9%	1.5%	0.3%	1.4%	0.7%	0.0%	0.0%	0.0%	0.0%	4.4%
PB005608	57.1%	33.3%	10.5%	14.7%	20.4%	13.3%	21.1%	14.4%	23.9%	8.6%	5.6%	2.1%	1.7%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	8.6%
PB005613	0.0%	11.1%	0.0%	13.3%	0.0%	0.0%	0.0%	3.4%	0.0%	3.0%	3.0%	0.9%	1.5%	1.4%	0.8%	1.0%	0.0%	0.0%	0.0%	1.2%
PB005617	42.9%	20.8%	23.5%	15.5%	9.1%	10.8%	10.5%	6.9%	0.0%	5.2%	2.9%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.1%
PB005618	16.7%	29.8%	26.7%	24.1%	10.0%	17.3%	8.3%	9.9%	7.7%	5.9%	8.5%	1.3%	2.3%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	7.3%
PB005619	0.0%	44.4%	20.0%	0.0%	25.0%	0.0%	10.0%	5.6%	12.5%	4.4%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	1.0%
PB005620	66.7%	25.0%	14.3%	6.5%	16.7%	6.2%	0.0%	9.1%	3.0%	1.5%	2.3%	0.4%	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%
PB005621	22.2%	17.6%	26.3%	17.0%	19.2%	17.9%	2.8%	16.2%	4.8%	10.6%	4.9%	4.1%	3.5%	1.8%	0.0%	0.0%	3.6%	0.0%	0.0%	7.9%
PB005622	66.7%	33.3%	25.0%	21.7%	27.3%	20.5%	0.0%	18.2%	0.0%	11.4%	16.7%	1.1%	1.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	5.1%
PB005623	0.0%	12.5%	0.0%	0.0%	5.9%	4.5%	10.0%	13.3%	0.0%	1.7%	7.1%	1.4%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%
PB005624	18.2%	26.8%	18.2%	17.0%	25.8%	11.0%	9.8%	19.9%	11.3%	10.1%	5.2%	3.2%	2.1%	2.4%	1.0%	0.0%	0.0%	0.0%	0.0%	7.7%
PB005625	50.0%	38.5%	0.0%	27.5%	5.3%	25.0%	0.0%	10.1%	13.0%	4.3%	2.7%	1.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%
PB005626	22.2%	26.5%	18.8%	14.5%	17.4%	18.6%	5.1%	18.4%	4.9%	10.9%	6.7%	4.0%	0.0%	1.3%	3.7%	0.0%	0.0%	0.0%	0.0%	9.0%
PB005627	0.0%	24.4%	15.0%	27.3%	22.4%	23.7%	14.5%	29.1%	28.4%	16.5%	13.4%	4.8%	3.9%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	15.6%
PB005628	14.3%	37.5%	0.0%	11.8%	0.0%	12.3%	0.0%	3.6%	12.5%	4.4%	4.2%	2.1%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.6%
PB005629	75.0%	50.0%		26.7%	0.0%	13.8%	0.0%	26.3%	60.0%	6.7%	0.0%	9.4%	8.0%	0.0%	0.0%	0.0%				14.1%
PB005630	25.0%	13.6%	35.3%	14.7%	12.5%	13.2%	17.9%	11.4%	6.3%	8.6%	4.8%	1.4%	2.3%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%
PB005633	100.0%		0.0%	20.0%	37.5%	18.8%	12.5%	27.3%	11.1%	0.0%	10.0%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		8.8%
PB005634	0.0%	20.0%	0.0%	17.4%	14.3%	11.8%	12.5%	15.0%	20.0%	7.8%	10.0%	5.1%	1.6%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%
PB005635	33.3%	28.9%	18.2%	8.5%	25.0%	14.3%	18.2%	12.6%	6.3%	9.0%	4.5%	2.6%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	8.8%
PB005636	20.0%	45.0%	30.8%	27.5%	20.7%	15.5%	8.3%	16.3%	4.8%	8.3%	11.1%	5.8%	3.2%	5.4%	0.0%	6.3%	0.0%	0.0%	0.0%	13.2%
PB005637	24.3%	32.4%	27.1%	27.4%	19.4%	21.0%	20.0%	24.8%	23.4%	12.3%	7.9%	9.2%	3.0%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	17.3%
PB005639	0.0%	20.0%		8.3%	0.0%	0.0%	0.0%	0.0%	14.3%	5.1%	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%	0.6%	0.0%	33.3%	1.1%
PB005640	11.8%	18.5%	19.2%	22.1%	11.1%	11.0%	13.5%	9.7%	9.7%	8.1%	5.4%	3.5%	2.0%	0.8%	1.3%	0.0%	2.0%	0.0%	0.0%	7.1%
PB005641		0.0%	50.0%	11.1%	42.9%	0.0%	0.0%	0.0%	11.1%	5.9%	0.0%	2.2%	2.7%	1.8%	0.0%	0.2%	0.0%	0.8%	0.0%	1.1%
PB005642	100.0%	25.0%	100.0%	25.0%	50.0%	7.4%	0.0%	0.0%	0.0%	3.8%	7.1%	4.8%	2.6%	2.0%	1.8%	0.0%	0.0%	0.0%	0.0%	3.7%
PB005643	42.9%	40.0%	50.0%	11.0%	20.8%	10.7%	0.0%	11.7%	3.6%	7.2%	14.3%	2.8%	1.5%	1.3%	1.7%	0.0%	5.0%	0.0%	0.0%	7.4%
PB005644	41.7%	36.5%	41.8%	20.6%	22.9%	18.0%	15.7%	20.5%	13.0%	11.5%	12.9%	3.8%	2.2%	2.5%	3.0%	3.0%	0.0%	0.0%	0.0%	13.6%
PB005645	25.0%	23.3%	11.1%	13.7%	14.3%	7.8%	0.0%	7.7%	0.0%	1.5%	0.0%	0.7%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%
PB005646	40.0%	25.0%	42.9%	7.4%	40.0%	7.1%	11.1%	3.7%	14.3%	15.9%	0.0%	2.9%	8.3%	0.0%	0.0%	0.0%	0.0%			10.2%
PB005647	0.0%	16.0%	10.5%	23.2%	6.5%	13.2%	5.9%	15.6%	15.4%	11.1%	11.3%	1.6%	2.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	7.6%
PB005648		33.3%	0.0%	9.8%	0.0%	3.8%	0.0%	8.1%	28.6%	10.8%	0.0%	1.9%	1.7%	1.5%	2.8%	0.0%	0.0%	0.0%	0.0%	5.4%
PB005649		0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%			2.8%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB005650	66.7%	36.7%	15.8%	16.9%	13.8%	9.1%	20.0%	14.6%	16.0%	6.1%	7.1%	2.1%	2.4%	0.0%	2.4%	0.0%	0.0%	0.0%	0.0%	8.1%
PB005651	0.0%	0.0%	6.7%	7.9%	0.0%	9.2%	3.6%	8.0%	14.3%	5.1%	0.0%	1.8%	0.0%	0.9%	0.0%	3.2%	0.0%	0.0%	0.0%	3.7%
PB005652	100.0%		0.0%	27.3%		8.3%	0.0%	14.3%	16.7%	0.0%	0.0%	2.3%	0.0%	8.5%	0.0%	0.0%	9.1%	0.0%		5.3%
PB005653	11.1%	18.4%	28.1%	16.0%	11.9%	15.8%	11.3%	9.9%	10.2%	9.2%	5.8%	4.1%	1.4%	1.4%	0.0%	0.0%	3.6%	0.0%		8.8%
PB005727	0.0%	27.3%	40.0%	14.3%	0.0%	7.3%	25.0%	6.5%	17.6%	6.6%	11.8%	3.8%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%
PB005768	44.4%	24.5%	33.3%	13.4%	20.0%	15.0%	5.0%	9.8%	13.5%	5.3%	4.8%	2.0%	0.5%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%
PB005772	0.0%	0.0%	0.0%	7.7%	50.0%	17.5%	8.3%	20.0%	14.3%	11.1%	0.0%	3.7%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.4%
PB005787	25.0%	18.6%	14.3%	7.8%	12.5%	7.7%	10.0%	8.9%	9.0%	4.5%	4.4%	3.0%	1.5%	0.9%	0.0%	0.0%	0.0%	0.0%		4.9%
PB005788	15.4%	22.4%	25.0%	11.9%	15.2%	8.4%	3.6%	13.6%	3.6%	3.8%	4.2%	2.3%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%		6.8%
PB005789	50.0%	23.1%	30.0%	14.3%	12.5%	12.1%	5.0%	15.1%	7.0%	9.3%	3.3%	1.2%	3.1%	2.1%	0.0%	1.4%	0.0%	0.0%		6.6%
PB005790	0.0%	50.0%	0.0%	11.1%	0.0%	0.0%	0.0%	8.3%	0.0%	4.3%	0.0%	1.3%	0.0%	1.3%	0.0%	1.9%	0.0%	0.0%	0.0%	1.6%
PB005832	0.0%	6.7%	55.6%	9.3%	12.1%	8.5%	18.2%	10.3%	4.7%	8.3%	2.1%	2.8%	1.9%	1.6%	0.0%	0.0%	0.0%	4.8%		5.0%
PB005842	25.0%	18.5%	33.3%	20.0%	9.5%	13.9%	15.0%	17.3%	22.7%	10.0%	5.6%	2.0%	1.7%	2.0%	0.0%	0.0%	0.0%	0.0%		7.7%
PB005867	0.0%	31.6%	27.8%	11.1%	7.4%	8.0%	5.0%	12.3%	8.3%	11.8%	19.2%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		8.1%
PB005870		0.0%	50.0%	0.0%	33.3%	3.0%	0.0%	16.1%	0.0%	11.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
PB005874	33.3%	20.0%	14.3%	11.8%	0.0%	12.5%	12.0%	18.0%	10.0%	5.5%	3.0%	0.8%	1.2%	0.9%	0.0%	0.0%	0.0%	0.0%		5.9%
PB005878	20.0%	33.3%	15.0%	16.5%	15.0%	20.0%	7.3%	15.7%	8.6%	8.2%	2.6%	2.5%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%		9.9%
PB005895			0.0%	66.7%	0.0%	10.0%	0.0%	4.8%	33.3%	2.4%	0.0%	1.4%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
PB005906	62.5%	33.3%	25.8%	18.2%	16.3%	10.4%	10.9%	13.3%	13.2%	11.0%	7.3%	3.2%	5.2%	2.9%	1.2%	3.7%	2.4%	0.0%	0.0%	9.4%
PB005914	100.0%	0.0%		4.2%	0.0%	7.1%	0.0%	12.9%	0.0%	8.3%	7.7%	2.8%	0.0%	1.1%	0.0%	0.9%	0.0%	0.0%		2.0%
PB005916	0.0%	20.0%	42.9%	21.3%	16.7%	18.3%	20.0%	12.3%	6.7%	5.9%	9.5%	1.2%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%		8.7%
PB005965	0.0%	40.0%	33.3%	14.3%	0.0%	6.7%	0.0%	12.5%	6.3%	4.3%	0.0%	2.8%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%		1.1%
PB005966	75.0%	29.8%	20.0%	22.6%	25.0%	16.1%	7.1%	9.7%	5.9%	9.6%	13.6%	2.3%	2.3%	0.0%	4.3%	4.5%	0.0%	0.0%		11.3%
PB005998	0.0%	31.6%	17.4%	10.4%	16.7%	11.3%	16.0%	6.2%	9.7%	8.7%	9.4%	3.2%	2.7%	3.0%	1.6%	0.0%	0.0%	0.0%		5.9%
PB006164	16.7%	18.4%	25.0%	16.9%	7.3%	15.3%	7.3%	13.2%	6.3%	6.9%	3.0%	3.5%	2.3%	0.7%	0.8%	0.0%	2.1%	0.0%		6.5%
PB006271	36.4%	29.2%	20.0%	14.9%	31.8%	16.0%	9.5%	15.4%	19.6%	8.0%	8.2%	3.2%	1.4%	1.8%	0.0%	0.0%	0.0%	0.0%		8.6%
PB006363	33.3%	18.3%	28.6%	10.4%	13.5%	8.0%	7.7%	10.6%	12.3%	7.8%	4.6%	1.6%	1.0%	0.9%	0.0%	0.0%	0.0%	0.0%		5.5%
PB006373	33.3%	13.3%	28.6%	11.0%	3.4%	2.2%	19.0%	13.1%	13.0%	5.9%	6.3%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		5.7%
PB006456	50.0%	15.6%	31.3%	11.6%	7.4%	7.0%	12.8%	11.1%	10.6%	7.6%	5.9%	1.6%	1.4%	1.8%	0.8%	0.0%	0.0%	0.0%	0.0%	4.3%
PB006490	40.0%	25.0%	14.3%	16.7%	9.1%	8.8%	0.0%	8.5%	12.9%	5.8%	5.4%	1.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.4%
PB006514	0.0%	30.0%	0.0%	9.1%	0.0%	8.9%	0.0%	8.0%	5.6%	6.9%	8.0%	1.8%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%		3.2%
PB006519	0.0%	18.8%	11.1%	8.6%	13.6%	6.3%	8.3%	9.1%	4.9%	3.0%	4.8%	1.2%	0.5%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	2.9%
PB006520	33.3%	0.0%	50.0%	22.7%	11.1%	7.9%	0.0%	4.9%	6.3%	10.4%	12.5%	1.8%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%		4.7%
PB006521		10.0%	50.0%	31.3%	50.0%	15.0%	11.1%	14.3%	14.3%	1.5%	0.0%	1.1%	3.3%	0.0%	0.0%	2.4%	0.0%			6.0%
PB006522	100.0%	37.5%	16.7%	17.1%	20.0%	16.4%	10.0%	15.1%	14.3%	7.6%	2.4%	1.5%	0.0%	0.7%	2.1%	0.0%	0.0%	0.0%		6.2%
PB006523	33.3%	13.0%	21.1%	13.3%	12.1%	12.3%	6.9%	9.2%	8.6%	5.0%	4.3%	4.3%	1.1%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%
PB006524	25.0%	23.3%	16.7%	6.6%	9.5%	10.5%	13.6%	8.8%	5.4%	3.0%	4.7%	1.8%	1.1%	1.5%	0.0%	0.0%	0.0%	0.0%		4.4%
PB006525	0.0%	24.5%	10.0%	10.5%	5.0%	6.5%	13.0%	7.4%	7.1%	3.0%	2.9%	2.1%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%		4.4%
PB006526	50.0%	27.1%	27.8%	9.8%	13.8%	12.8%	11.5%	10.9%	9.1%	8.1%	5.3%	2.9%	2.9%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.6%
PB006772	35.3%	18.3%	16.2%	16.2%	7.7%	9.6%	4.2%	8.8%	10.6%	4.8%	9.5%	3.9%	3.9%	1.6%	0.0%	0.0%	0.0%	0.0%		9.6%
PB006791	0.0%	12.5%	9.1%	5.6%	5.9%	5.2%	11.1%	7.4%	8.3%	4.0%	2.8%	2.0%	0.7%	2.8%	0.0%	0.0%	0.0%	0.0%		3.9%
PB006793	25.0%	6.5%	14.3%	14.3%	3.0%	13.0%	2.9%	13.4%	9.7%	4.7%	8.2%	0.9%	1.6%	0.8%	0.0%	0.0%	0.0%	0.0%		5.5%
PB006794	0.0%	28.6%	30.0%	21.1%	17.5%	12.6%	9.1%	14.6%	16.0%	11.3%	7.7%	5.4%	2.9%	2.6%	0.0%	2.0%	0.0%	0.0%		9.4%
PB006796	0.0%	30.0%	0.0%	8.3%	0.0%	17.9%	0.0%	0.0%	0.0%	2.8%	16.7%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%
PB006833	25.0%	16.7%	0.0%	4.3%	10.0%	8.9%	14.3%	10.6%	9.1%	6.2%	3.8%	1.2%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	4.6%
PB006843	0.0%	0.0%	0.0%	13.3%	25.0%	5.4%	22.2%	2.8%	6.7%	4.3%	0.0%	0.6%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%		1.6%
PB006853	22.2%	31.1%	19.1%	11.7%	7.8%	9.3%	8.2%	8.0%	5.9%	7.3%	4.1%	2.2%	1.3%	0.8%	0.0%	0.0%	0.0%	0.0%		5.7%
PB006872		0.0%	0.0%	20.0%	0.0%	7.1%	0.0%	13.0%	0.0%	9.2%	0.0%	2.1%	1.0%	0.6%	0.8%	0.0%	0.0%	0.0%		1.6%
PB006878	20.0%	38.6%	7.1%	29.8%	21.2%	17.6%	12.7%	16.2%	12.5%	9.5%	7.1%	5.3%	4.3%	1.2%	0.0%	4.5%	0.0%			12.9%
PB006887	33.3%	6.3%	0.0%	8.1%	0.0%	3.2%	0.0%	8.5%	33.3%	3.8%	0.0%	2.4%	2.3%	1.4%	0.0%	0.0%	0.0%	0.0%		3.7%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB006890	0.0%	17.9%	14.3%	5.5%	9.4%	4.8%	6.9%	12.2%	4.2%	9.4%	0.0%	1.1%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%
PB006891	40.0%	29.2%	25.0%	10.1%	15.2%	5.9%	2.3%	11.6%	3.6%	7.8%	5.3%	2.5%	0.0%	0.6%	0.0%	0.6%	0.0%	0.0%	0.0%	3.7%
PB006892		0.0%	0.0%	20.0%	16.7%	13.6%	20.0%	27.8%	14.3%	4.3%	0.0%	2.0%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%
PB006895	36.4%	19.4%	25.8%	32.5%	21.6%	25.6%	27.8%	26.0%	17.5%	12.4%	13.0%	10.1%	6.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	18.8%
PB006897	0.0%	0.0%	33.3%	6.3%	16.7%	0.0%	11.1%	8.3%	16.7%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%
PB006898	37.5%	26.7%	40.0%	13.0%	16.2%	10.9%	8.6%	15.2%	20.0%	7.6%	7.1%	2.6%	2.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%
PB006899	12.5%	26.1%	13.3%	19.7%	21.9%	14.5%	14.3%	20.0%	5.7%	12.7%	6.1%	2.9%	0.9%	2.3%	2.0%	1.9%	0.0%	0.0%	0.0%	9.1%
PB006900																				0.0%
PB006901	33.3%	36.4%	0.0%	16.7%	50.0%	11.3%	8.3%	17.6%	6.7%	11.7%	8.7%	3.4%	2.9%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%
PB006902	100.0%	7.1%	50.0%	18.5%	0.0%	12.8%	14.3%	11.3%	0.0%	5.3%	0.0%	3.6%	1.4%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%
PB006903		33.3%	0.0%	12.0%	14.3%	15.6%	0.0%	8.1%	8.3%	7.9%	0.0%	2.0%	1.1%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%
PB006908	20.0%	13.3%	0.0%	9.1%	17.6%	6.5%	5.0%	13.7%	0.0%	4.3%	0.0%	1.5%	0.8%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	3.5%
PB006918	57.1%	31.6%	45.5%	34.6%	15.0%	22.0%	17.6%	27.3%	24.0%	14.8%	9.5%	2.1%	2.1%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	13.5%
PB006919	0.0%	0.0%	0.0%	5.9%	0.0%	8.7%	25.0%	11.8%	0.0%	5.2%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%
PB006923		14.3%	0.0%	28.6%	0.0%	0.0%	0.0%	5.3%	0.0%	6.9%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%
PB006968		0.0%	0.0%	16.7%	0.0%	11.1%	20.0%	3.0%	0.0%	2.2%	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%
PB006971	26.7%	38.3%	30.2%	19.6%	19.0%	11.9%	13.6%	14.5%	11.7%	5.1%	3.6%	4.2%	3.9%	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	9.7%
PB006999	20.0%	27.5%	29.2%	15.5%	11.8%	12.1%	7.5%	12.4%	7.1%	10.1%	9.3%	1.6%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.5%
PB007000	50.0%	22.9%	25.0%	19.8%	16.7%	15.4%	7.9%	5.8%	13.0%	6.5%	5.5%	1.4%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	6.3%
PB007001	0.0%	26.3%	25.0%	11.6%	13.3%	17.5%	12.5%	9.1%	25.0%	11.5%	9.4%	1.7%	9.5%	0.0%	3.6%	0.0%	0.0%	0.0%	0.0%	10.1%
PB007003	0.0%	21.1%	28.6%	23.8%	38.5%	15.4%	0.0%	8.8%	0.0%	3.9%	20.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.0%
PB007043	20.0%	44.4%	28.6%	11.4%	33.3%	10.6%	7.1%	19.1%	5.3%	5.9%	6.5%	4.5%	6.2%	1.0%	3.5%	0.0%	0.0%	0.0%	0.0%	7.9%
PB007053	100.0%	47.4%	41.2%	36.2%	29.4%	32.6%	18.2%	28.6%	26.7%	26.6%	22.2%	7.5%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	25.1%
PB007091	33.3%	20.0%	18.8%	10.1%	7.7%	8.2%	8.3%	9.2%	0.0%	7.1%	7.2%	2.9%	1.5%	0.9%	0.0%	0.0%	2.2%	0.0%	0.0%	4.9%
PB007092		12.5%	20.0%	25.0%	0.0%	11.1%	9.1%	10.5%	0.0%	6.3%	14.3%	3.9%	2.7%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	6.6%
PB007139		0.0%	0.0%	0.0%	50.0%	14.3%		10.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	0.0%	0.0%	1.5%
PB007248	100.0%	0.0%	0.0%	15.2%	0.0%	6.5%	8.3%	6.5%	4.5%	2.9%	0.0%	1.0%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	1.9%
PB007261	13.0%	16.5%	11.5%	9.8%	7.5%	4.8%	2.8%	8.5%	10.8%	5.8%	2.8%	3.0%	1.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	5.2%
PB007268	62.5%	19.4%	21.1%	23.0%	13.8%	8.6%	0.0%	14.8%	5.0%	7.2%	10.5%	2.7%	4.3%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	8.2%
PB007294	50.0%	0.0%	0.0%	4.5%	0.0%	5.4%	10.0%	11.4%	0.0%	3.8%	0.0%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%
PB007312	0.0%	31.8%	15.4%	15.4%	8.0%	10.4%	16.7%	11.3%	11.9%	4.9%	0.0%	1.1%	1.0%	1.5%	0.0%	0.0%	4.8%	0.0%	0.0%	6.1%
PB007313	50.0%	22.9%	21.2%	19.2%	22.4%	10.5%	9.3%	15.9%	16.1%	8.7%	6.0%	4.4%	4.3%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	10.8%
PB007318	25.0%	53.8%	44.1%	37.7%	30.9%	36.1%	25.5%	41.6%	39.0%	37.5%	27.6%	16.7%	11.6%	9.0%	3.3%	4.9%	5.6%	0.0%	0.0%	26.7%
PB007330	39.1%	14.0%	7.1%	10.4%	8.1%	8.1%	4.0%	9.2%	2.4%	4.5%	1.9%	1.8%	1.3%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%
PB007331		44.4%	0.0%	17.2%	33.3%	12.8%	33.3%	19.3%	7.7%	7.0%	0.0%	1.0%	0.8%	1.5%	0.9%	1.1%	0.0%	0.0%	0.0%	3.5%
PB007349	0.0%	27.3%	15.4%	17.2%	14.3%	8.9%	12.1%	12.9%	13.7%	8.9%	3.6%	2.6%	1.7%	2.0%	1.3%	1.5%	4.2%	0.0%	0.0%	7.3%
PB007353	0.0%	28.6%	20.8%	20.7%	19.5%	21.9%	17.1%	20.9%	13.5%	11.0%	4.6%	2.3%	3.2%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	10.3%
PB007355	100.0%	0.0%	100.0%	27.3%	42.9%	40.0%	0.0%	15.4%	25.0%	0.0%	28.6%	0.0%	0.0%	18.2%	0.0%	0.0%				17.4%
PB007397	33.3%	33.8%	20.0%	16.7%	16.0%	17.2%	2.9%	13.5%	13.3%	14.7%	3.1%	3.5%	1.3%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	9.3%
PB007489	25.0%	15.4%	22.2%	15.6%	13.3%	13.9%	12.5%	11.3%	5.3%	4.9%	2.6%	4.4%	2.9%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%
PB007492		33.3%	0.0%	26.9%	0.0%	21.2%	16.7%	11.4%	16.7%	5.4%	15.4%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%
PB007494	40.0%	12.5%	33.3%	6.5%	12.5%	13.0%	4.5%	7.5%	4.0%	5.8%	5.7%	1.1%	2.3%	3.0%	5.2%	3.1%	0.0%	0.0%	0.0%	5.3%
PB007497	25.0%	18.2%	17.4%	19.2%	18.6%	13.8%	6.5%	13.8%	11.7%	5.4%	6.9%	3.7%	4.6%	1.6%	0.0%	0.0%	5.6%	0.0%	0.0%	7.9%
PB007500	0.0%	0.0%	0.0%	18.0%	0.0%	7.8%	0.0%	13.8%	28.6%	7.5%	5.3%	1.5%	0.0%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	5.6%
PB007502	35.0%	36.8%	24.1%	25.4%	16.5%	21.4%	12.1%	23.9%	6.5%	12.8%	7.3%	7.1%	0.8%	0.8%	4.6%	0.0%	0.0%	0.0%	0.0%	14.6%
PB007503																				0.0%
PB007505	50.0%	0.0%		33.3%	0.0%	25.0%	0.0%	4.5%	20.0%	4.3%	20.0%	1.5%	7.5%	1.6%	0.7%	0.0%	0.0%	0.0%	0.0%	3.0%
PB007507	0.0%	15.8%	0.0%	11.4%	10.5%	7.2%	4.2%	7.0%	9.4%	5.1%	6.8%	0.7%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%
PB007510	0.0%	20.0%	21.4%	13.6%	18.8%	10.0%	12.8%	6.3%	0.0%	2.5%	0.0%	0.7%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%
PB007512	100.0%	24.2%	30.8%	26.4%	11.1%	14.9%	6.9%	19.0%	12.1%	4.2%	13.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.5%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL	
PB007514	50.0%	14.3%	12.5%	16.7%	13.6%	16.9%	10.0%	15.4%	13.6%	4.8%	10.0%	1.8%	0.0%	2.4%	2.7%	1.7%	0.0%	0.0%		6.0%	
PB007515	0.0%	22.2%	19.0%	21.1%	19.2%	17.9%	26.9%	9.5%	16.7%	9.2%	11.4%	5.7%	3.6%	2.6%	1.4%	1.8%	0.0%	0.0%		9.2%	
PB007516	33.3%	41.2%	27.3%	29.6%	17.5%	16.8%	19.6%	9.5%	16.3%	20.6%	8.9%	6.7%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%		13.4%	
PB007517	28.6%	26.6%	27.3%	28.8%	20.9%	12.5%	11.3%	18.6%	20.0%	8.8%	7.3%	2.5%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%		11.2%	
PB007518	16.7%	28.6%	21.4%	19.6%	23.8%	14.0%	5.3%	14.1%	13.0%	8.7%	3.3%	6.1%	1.5%	3.2%	1.5%	3.3%	0.0%	0.0%		7.6%	
PB007524	33.3%	41.2%	23.1%	22.6%	14.3%	20.0%	13.6%	19.3%	25.0%	10.2%	7.9%	3.3%	1.4%	0.0%	2.1%	0.0%	0.0%	0.0%		9.7%	
PB007525		0.0%		23.1%	0.0%	10.0%	0.0%	7.7%	0.0%	4.9%	0.0%	4.4%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%		2.6%	
PB007534	0.0%	45.5%	66.7%	18.7%	23.3%	18.5%	15.6%	22.9%	15.6%	13.7%	4.9%	3.1%	1.9%	0.8%	0.0%	2.1%	0.0%	0.0%		11.3%	
PB007589	22.2%	33.3%	17.6%	24.3%	27.8%	13.6%	18.2%	11.3%	3.4%	5.2%	3.1%	3.5%	2.2%	0.6%	0.0%	0.0%	0.0%	0.0%		6.9%	
PB007590	0.0%	0.0%	0.0%	0.0%	0.0%	11.8%	25.0%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	2.6%	0.0%	0.0%		1.7%	
PB007592	0.0%	0.0%	33.3%	33.3%	37.5%	5.3%	11.1%	18.5%	0.0%	10.0%	3.6%	3.3%	2.0%	1.1%	0.7%	0.0%	0.0%	0.0%		3.9%	
PB007593	26.1%	25.8%	24.1%	16.5%	9.0%	9.7%	10.0%	13.5%	12.0%	5.4%	4.0%	2.7%	3.0%	0.7%	1.7%	1.0%	0.0%	0.0%	0.0%	7.3%	
PB007689	42.9%	39.5%	31.3%	20.9%	9.1%	15.1%	9.1%	13.6%	21.4%	9.9%	7.1%	3.7%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%		10.3%	
PB007694	0.0%	12.5%		22.2%	20.0%	23.1%	0.0%	30.8%	0.0%	2.1%	0.0%	3.1%	0.0%	0.0%	0.0%	4.2%	0.0%	0.0%		3.5%	
PB007705	8.3%	25.0%	13.6%	17.5%	11.8%	13.5%	10.8%	14.3%	8.1%	7.7%	2.4%	3.2%	2.2%	2.0%	0.0%	0.0%	0.0%	0.0%		7.2%	
PB007706	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%					8.0%	
PB007733																					0.0%
PB007849	75.0%	33.3%	14.3%	43.8%	18.2%	17.9%	33.3%	39.4%	27.3%	20.7%	19.2%	7.1%	0.0%	0.0%	0.0%	0.0%				22.0%	
PB007959	25.0%	19.5%	13.3%	17.4%	8.7%	7.2%	0.0%	8.9%	2.4%	6.6%	9.8%	1.2%	1.9%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	5.5%	
PB008032				0.0%		25.0%		23.5%	0.0%	15.4%	0.0%	6.8%	0.0%	3.3%	0.0%	0.0%				8.7%	
PB008712	50.0%	24.1%	31.6%	11.8%	20.3%	10.3%	11.8%	15.9%	4.7%	7.7%	4.9%	2.6%	2.4%	0.9%	0.0%	0.0%	0.0%	0.0%		8.2%	
PB008769	18.8%	28.1%	8.3%	24.3%	26.3%	16.0%	15.9%	19.4%	21.6%	10.8%	5.8%	2.7%	0.0%	1.2%	0.0%	2.6%	0.0%	0.0%	0.0%	11.2%	
PB008847	0.0%	0.0%		10.0%	0.0%	20.0%	0.0%	40.9%	0.0%	2.4%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	
PB008908	0.0%	60.0%	25.0%	0.0%	25.0%	7.7%	0.0%	5.0%	0.0%	9.5%	0.0%	3.9%	2.4%	1.2%	0.0%	2.9%	0.0%	0.0%		3.8%	
PB008917	50.0%	25.9%	8.3%	14.3%	10.0%	10.7%	19.2%	11.9%	8.3%	13.5%	11.5%	4.6%	3.8%	0.0%	4.5%	0.0%	0.0%	0.0%		8.5%	
PB009130	14.3%	14.3%	19.6%	9.2%	8.7%	10.1%	10.1%	12.3%	9.0%	5.7%	9.3%	2.6%	1.8%	0.0%	0.8%	0.9%	0.0%	0.0%		6.1%	
PB009563		21.2%	18.2%	21.7%	20.8%	13.6%	13.6%	19.1%	5.6%	10.8%	0.0%	2.5%	0.0%	1.3%	3.1%	0.0%	0.0%	0.0%		9.4%	
PB009564	55.6%	16.7%	13.0%	25.8%	18.2%	19.1%	15.9%	22.1%	13.2%	8.3%	2.5%	5.7%	4.1%	3.4%	1.6%	0.0%	5.9%	0.0%		11.1%	
PB009783	0.0%	50.0%	100.0%	12.5%	0.0%	0.0%	0.0%	18.2%	33.3%	5.3%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%		4.3%	
PB009818	11.1%	14.1%	11.3%	14.8%	17.6%	11.4%	10.2%	11.2%	8.3%	14.0%	5.6%	2.2%	2.3%	1.9%	0.0%	0.0%	0.0%	0.0%		9.5%	
PB009822	100.0%	26.7%	0.0%	3.8%	0.0%	3.2%	0.0%	9.4%	4.8%	5.2%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		1.6%	
PB009868		22.7%	16.7%	14.3%	0.0%	6.2%	6.7%	9.6%	7.1%	6.8%	4.3%	1.6%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%		5.2%	
PB009905	11.1%	16.7%	13.3%	14.3%	16.7%	21.3%	22.2%	9.4%	9.1%	4.5%	9.8%	4.3%	2.2%	1.2%	0.0%	1.0%	0.0%	0.0%	0.0%	5.6%	
PB009945	40.0%	30.0%	23.5%	16.7%	10.0%	9.8%	20.0%	6.9%	4.9%	10.6%	4.3%	0.0%	2.7%	1.8%	0.0%	0.0%	0.0%			7.6%	
PB009954	0.0%	20.0%	0.0%	12.5%	0.0%	8.5%	40.0%	12.3%	0.0%	12.7%	0.0%	6.6%	5.2%	2.5%	0.0%	0.0%	0.0%	0.0%		7.8%	
PB010009	0.0%	50.0%	50.0%	50.0%	0.0%	8.3%	20.0%	37.5%	0.0%	0.0%		12.9%	0.0%	12.8%	0.0%	0.0%	0.0%	0.0%		11.2%	
PB010096	0.0%	0.0%		23.5%	0.0%	0.0%	16.7%	0.0%	14.3%	8.3%	5.3%	2.4%	10.4%	5.1%	0.0%	0.0%	0.0%	0.0%		4.4%	
PB010117	5.0%	17.3%	18.2%	14.6%	17.2%	10.3%	15.2%	9.1%	13.0%	6.7%	2.8%	2.6%	1.6%	0.5%	1.0%	0.0%	0.0%	0.0%		7.0%	
PB010123	0.0%	25.0%		23.5%	0.0%	15.4%	0.0%	33.3%	0.0%	0.0%	100.0%	16.7%	0.0%	0.0%	33.3%					16.5%	
PB010124	21.4%	35.8%	14.3%	24.6%	22.2%	19.7%	28.6%	17.3%	22.4%	6.5%	5.7%	3.9%	2.8%	0.6%	0.0%	0.0%	0.0%	0.0%		11.5%	
PB010235	0.0%	0.0%	27.3%	28.9%	20.0%	21.5%	16.7%	24.5%	18.2%	13.6%	0.0%	7.9%	5.3%	4.3%	0.0%	0.0%	0.0%	0.0%		13.6%	
PB010266		42.9%		33.3%		0.0%	0.0%	0.0%		15.8%	0.0%	12.5%			0.0%	0.0%	0.0%			12.8%	
PB010289	15.4%	35.0%	28.6%	21.1%	23.1%	14.8%	2.9%	9.5%	9.7%	8.6%	2.4%	2.0%	1.8%	2.2%	0.0%	0.6%	0.0%	0.0%	0.0%	6.8%	
PB010340	50.0%	34.3%	31.8%	15.0%	19.5%	9.2%	6.1%	11.3%	14.8%	10.4%	9.2%	2.5%	0.5%	2.6%	1.0%	0.0%	0.0%	0.0%	0.0%	7.0%	
PB010344		48.1%		55.2%	0.0%	27.3%		13.8%		0.0%		4.8%		1.3%						16.7%	
PB010359	0.0%	25.0%	0.0%	19.4%	0.0%	6.9%	0.0%	17.9%	10.0%	2.3%	9.1%	6.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		7.3%	
PB010403																					0.0%
PB010430	40.0%	29.4%	7.7%	19.2%	14.8%	11.1%	11.8%	8.3%	2.9%	6.6%	4.5%	0.9%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%	
PB010435	100.0%	0.0%		0.0%	0.0%	0.0%	50.0%	22.2%	33.3%	0.0%	0.0%	2.0%	6.1%	0.0%	0.0%	3.3%	0.0%	0.0%		3.3%	
PB010557	25.0%	40.0%	3.3%	14.5%	4.7%	13.0%	9.3%	13.2%	9.3%	6.6%	1.6%	3.8%	0.8%	1.0%	0.0%	1.4%	0.0%	9.1%		6.4%	

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB010559	21.4%	55.0%	26.7%	33.3%	20.5%	20.0%	8.8%	15.5%	11.1%	6.0%	12.2%	3.9%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.4%
PB010661		0.0%	0.0%	33.3%	0.0%	21.7%	20.0%	31.6%	0.0%	4.9%	7.7%	4.0%	1.4%	1.1%	0.0%	4.2%	3.2%	0.0%		5.2%
PB010670	50.0%	27.8%	21.7%	12.0%	17.9%	6.4%	8.6%	11.7%	10.2%	6.9%	7.1%	2.0%	0.0%	0.3%	0.0%	1.0%	3.1%	0.0%	0.0%	5.6%
PB010692		16.7%		0.0%	0.0%	2.2%	0.0%	8.3%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		2.2%
PB010698	16.7%	32.1%	23.8%	12.1%	13.9%	11.3%	7.1%	13.1%	10.4%	9.4%	8.0%	2.1%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%
PB010702	0.0%	18.2%	11.1%	22.2%	11.1%	11.5%	0.0%	22.8%	4.3%	3.4%	7.1%	2.6%	3.1%	2.9%	0.0%	0.0%	0.0%	0.0%		6.4%
PB010772	44.4%	0.0%	12.5%	13.0%	21.9%	7.1%	15.0%	19.7%	8.3%	7.3%	0.0%	1.6%	2.2%	0.7%	0.0%	0.0%	0.0%	0.0%		5.7%
PB010790	42.9%	28.9%	32.0%	18.3%	17.2%	19.0%	15.0%	16.3%	10.7%	11.4%	8.6%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.2%
PB010791			0.0%	25.0%	33.3%	16.7%	0.0%	42.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						16.7%
PB010804																				0.0%
PB010806		50.0%	0.0%	20.0%	100.0%	50.0%		40.0%		0.0%	0.0%	17.6%	13.3%	0.0%	0.0%	0.0%	0.0%			15.9%
PB010811	37.5%	15.8%	20.0%	19.0%	19.4%	9.9%	12.1%	12.2%	17.3%	7.9%	7.9%	2.1%	0.9%	1.2%	0.0%	0.0%	0.0%	0.0%		6.2%
PB010827	0.0%	32.6%	9.1%	30.2%	15.4%	16.4%	21.1%	14.6%	11.1%	9.5%	3.8%	5.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		10.5%
PB010830																				0.0%
PB010831	47.8%	26.4%	44.4%	29.3%	29.0%	22.4%	18.1%	20.1%	15.5%	9.1%	5.2%	3.6%	3.4%	2.8%	1.1%	2.7%	0.0%	0.0%		13.4%
PB010848	0.0%	33.3%	33.3%	0.0%	33.3%	7.7%	16.7%	9.4%	0.0%	6.5%	18.2%	4.3%	1.4%	1.1%	0.0%	0.0%	0.0%	0.0%		3.3%
PB010849	16.7%	26.8%	22.2%	16.9%	22.7%	16.8%	9.7%	23.2%	21.1%	18.3%	8.8%	7.8%	1.3%	4.9%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%
PB010885	16.7%	40.0%	9.1%	21.5%	10.0%	11.5%	10.8%	10.3%	13.0%	4.0%	3.4%	1.1%	0.4%	0.0%	0.9%	0.0%	0.0%	0.0%		5.1%
PB010935	22.2%	21.3%	27.0%	22.7%	20.3%	11.4%	19.8%	19.4%	14.8%	10.6%	6.3%	2.4%	1.9%	1.7%	0.0%	0.0%	0.0%	0.0%		9.6%
PB010951	28.6%	20.4%	26.7%	17.7%	15.6%	11.5%	0.0%	18.8%	16.1%	9.1%	3.0%	3.8%	5.1%	2.1%	0.0%	0.0%	0.0%	0.0%		10.0%
PB010962	0.0%	33.3%	33.3%	10.5%	16.7%	8.2%	12.5%	7.3%	7.4%	2.4%	5.1%	0.6%	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%		3.7%
PB011017	0.0%	6.7%	8.0%	4.6%	12.1%	6.8%	10.2%	13.1%	5.6%	2.9%	3.7%	1.1%	1.0%	4.1%	4.1%	0.0%	0.0%	0.0%		5.0%
PB011091	33.3%	29.2%	22.7%	18.8%	14.6%	9.6%	7.9%	12.8%	18.5%	12.6%	7.5%	2.6%	2.6%	0.7%	1.2%	1.6%	0.0%	0.0%		8.9%
PB011174	12.5%	23.2%	20.3%	13.7%	10.0%	12.6%	12.3%	15.0%	7.5%	7.6%	5.8%	4.0%	2.6%	2.2%	2.2%	1.9%	3.6%	0.0%		9.7%
PB011211	10.0%	21.9%	21.1%	9.7%	10.3%	10.3%	1.5%	11.2%	3.7%	8.1%	0.0%	1.6%	1.3%	2.1%	0.9%	0.0%	0.0%	0.0%		5.7%
PB011348	0.0%	41.7%	33.3%	8.1%	0.0%	17.7%	10.0%	13.6%	18.8%	8.0%	0.0%	2.5%	2.9%	2.9%	0.0%	0.0%	0.0%	0.0%		8.4%
PB011409	12.5%	16.0%	8.8%	9.6%	6.4%	9.7%	7.1%	7.6%	13.6%	5.6%	4.8%	2.3%	0.4%	1.9%	0.0%	0.0%	0.0%	0.0%		5.5%
PB011410	0.0%	22.9%	29.6%	23.6%	21.2%	15.7%	4.3%	14.7%	13.9%	8.1%	4.9%	3.9%	0.0%	2.0%	3.9%	1.9%	0.0%	0.0%		8.8%
PB011497	0.0%	4.2%	16.7%	8.2%	11.1%	10.9%	4.3%	13.2%	7.1%	3.9%	0.0%	1.6%	4.3%	2.4%	0.0%	5.6%	0.0%	0.0%		6.1%
PB011510	17.4%	20.0%	21.6%	11.7%	14.5%	12.3%	16.4%	16.8%	11.5%	11.3%	3.1%	2.2%	0.6%	2.1%	0.0%	0.0%	0.0%	0.0%		8.5%
PB011624	14.3%	26.7%	33.3%	28.2%	17.6%	11.3%	7.5%	10.7%	11.1%	9.0%	14.3%	1.3%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%		8.6%
PB011626	0.0%	10.3%	14.3%	4.3%	6.3%	3.9%	4.8%	5.4%	12.5%	2.9%	5.3%	0.6%	0.0%	0.4%	0.0%	0.0%	1.5%	0.0%	0.0%	2.2%
PB011627	30.8%	14.3%	14.8%	17.4%	15.6%	15.9%	14.3%	16.0%	2.6%	10.0%	10.3%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		8.7%
PB011806	50.0%	30.0%	37.5%	16.3%	0.0%	12.9%	0.0%	21.2%	14.3%	17.9%	28.6%	3.8%	4.4%	4.8%	0.0%	0.0%	0.0%	0.0%		10.8%
PB011808	25.0%	50.0%	0.0%	8.7%	37.5%	19.3%	10.0%	16.3%	7.1%	10.5%	8.0%	5.1%	1.6%	0.7%	0.0%	0.0%	0.0%	0.0%		5.5%
PB011927	66.7%	11.1%	16.7%	16.7%	6.3%	3.4%	12.5%	17.8%	9.1%	5.7%	2.4%	1.8%	0.0%	0.0%	0.0%	3.0%	0.0%	0.0%		5.5%
PB012030																				0.0%
PB012046																				0.0%
PB012088																				0.0%
PB012089																				0.0%
PB012090	0.0%	13.0%	20.0%	6.8%	0.0%	8.8%	0.0%	3.4%	0.0%	4.3%	7.1%	0.7%	1.3%	2.4%	0.0%	0.0%	0.0%	0.0%		3.1%
PB012091	66.7%	20.0%	25.0%	18.0%	26.7%	8.5%	0.0%	14.6%	4.8%	5.7%	12.8%	1.8%	1.6%	1.4%	0.0%	0.0%	0.0%	0.0%		6.3%
PB012092	50.0%	28.0%	0.0%	18.8%	26.7%	12.0%	22.2%	13.0%	11.1%	5.5%	5.0%	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%		8.7%
PB012166	0.0%	9.5%	25.0%	10.5%	9.4%	7.2%	6.7%	13.0%	10.3%	8.0%	6.3%	2.3%	1.7%	2.5%	1.8%	0.0%	0.0%	0.0%		6.1%
PB012226																				0.0%
PB012247	42.9%	22.0%	27.3%	19.1%	9.3%	20.8%	27.5%	14.7%	14.0%	9.9%	5.7%	4.5%	1.6%	0.6%	0.0%	0.0%	0.0%	0.0%		9.7%
PB012252																				0.0%
PB012352																				0.0%
PB012354	100.0%	12.5%	18.8%	16.5%	6.7%	6.4%	11.8%	7.5%	4.2%	2.3%	3.7%	0.4%	0.6%	0.5%	0.0%	0.0%	0.0%	0.0%		3.4%
PB012425	50.0%	25.6%	40.0%	12.7%	11.4%	5.2%	7.1%	6.2%	16.7%	3.3%	6.4%	1.6%	1.5%	0.4%	1.5%	1.1%	0.0%	0.0%	0.0%	4.4%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL	
PB012451																					0.0%
PB012486	44.4%	25.0%	23.1%	23.6%	20.0%	13.4%	22.6%	14.8%	11.4%	8.3%	7.1%	3.9%	1.8%	1.6%	0.0%	0.0%	0.0%	0.0%			10.6%
PB012487																					0.0%
PB012488	50.0%	28.6%		20.0%	0.0%	8.0%	30.0%	18.9%	0.0%	5.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			6.5%
PB012600	0.0%	27.3%	0.0%	33.3%	8.3%	22.0%	11.1%	24.4%	21.4%	8.5%	9.5%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			10.3%
PB012668																					0.0%
PB012690	0.0%	32.0%	12.5%	20.6%	26.1%	13.6%	10.5%	19.2%	15.6%	11.9%	5.4%	1.7%	2.5%	3.2%	0.0%	0.0%	0.0%	0.0%			9.1%
PB012696	0.0%	0.0%	0.0%	0.0%		0.0%						0.0%									0.0%
PB012709		55.6%		10.0%	0.0%	16.7%	0.0%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	1.1%	0.0%	0.0%	4.3%	0.0%		2.1%
PB012710																					0.0%
PB012711																					0.0%
PB012720	100.0%		50.0%	25.0%	20.0%	14.3%	0.0%	0.0%	0.0%	0.0%	11.1%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
PB012778	20.0%	10.5%	16.2%	20.2%	16.3%	14.4%	17.9%	24.2%	19.7%	13.2%	15.1%	4.2%	2.3%	2.5%	1.7%	0.0%	0.0%	0.0%			11.9%
PB012779	12.5%	20.0%	14.3%	12.4%	20.7%	14.4%	2.0%	14.1%	21.0%	5.2%	2.6%	2.4%	1.2%	0.8%	0.7%	0.7%	0.0%	0.0%			6.0%
PB012818	0.0%	17.6%	27.3%	20.5%	15.0%	12.6%	16.7%	8.3%	9.5%	5.4%	5.3%	2.2%	2.5%	1.2%	0.0%	0.0%	0.0%	0.0%			7.5%
PB012859	0.0%	0.0%	100.0%	22.2%	50.0%	12.5%	0.0%	5.6%	9.1%	4.3%	11.1%	1.0%	3.4%	1.0%	0.0%	1.6%	0.0%	0.0%			2.6%
PB012963																					0.0%
PB012964																					0.0%
PB012991																					0.0%
PB013038																					0.0%
PB013105		0.0%		0.0%		100.0%		27.8%	0.0%	5.7%	0.0%	15.1%	0.0%	0.0%	16.7%	0.0%	0.0%				11.5%
PB013106																					0.0%
PB013107	5.6%	3.1%	10.9%	4.3%	6.1%	7.8%	3.2%	10.9%	5.4%	5.4%	3.5%	0.8%	3.3%	2.9%	3.4%	0.0%	0.0%	0.0%			5.5%
PB013179																					0.0%
PB013184	0.0%	39.3%	20.0%	14.0%	15.8%	9.6%	12.5%	17.1%	17.8%	6.6%	5.9%	4.4%	2.6%	3.8%	0.0%	2.8%	0.0%	0.0%			8.2%
PB013186									0.0%						0.0%						0.0%
PB013187	100.0%	20.0%	30.8%	20.3%	10.8%	9.4%	8.9%	16.2%	7.6%	4.6%	2.7%	1.3%	1.2%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%
PB013218		0.0%	25.0%	16.0%	11.1%	3.2%	0.0%	4.4%	4.2%	6.6%	5.3%	0.8%	0.0%	2.2%	0.0%	0.0%	0.0%				3.4%
PB013226		30.0%	0.0%	10.0%	33.3%	11.6%	15.4%	12.9%	9.5%	9.1%	16.7%	0.0%	0.8%	1.6%	0.0%	0.0%	0.0%	10.0%			4.5%
PB013235	20.0%	24.1%	23.8%	13.0%	8.8%	13.1%	10.0%	15.4%	10.2%	9.5%	5.3%	0.8%	1.7%	2.0%	1.5%	0.0%	0.0%	0.0%			7.2%
PB013303		0.0%	0.0%	12.5%		0.0%	33.3%	23.1%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			1.1%
PB013304	33.3%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	18.2%	7.1%	7.7%	5.6%	2.2%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	3.4%	0.0%	2.3%
PB013319	0.0%	9.8%	5.3%	12.2%	6.7%	10.7%	12.5%	11.1%	12.2%	9.2%	9.1%	3.4%	1.7%	0.7%	0.0%	3.2%	0.0%	0.0%			6.8%
PB013320	0.0%	13.5%	9.1%	9.9%	17.9%	7.8%	0.0%	8.0%	0.0%	3.8%	11.8%	0.8%	3.9%	1.4%	0.0%	0.0%	0.0%	0.0%			5.5%
PB013381																					0.0%
PB013399	37.5%	14.8%	21.1%	10.5%	12.1%	8.4%	13.3%	12.2%	15.8%	6.4%	11.1%	3.2%	4.2%	1.9%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
PB013402		0.0%	0.0%	10.5%	0.0%	12.9%	0.0%	14.8%	16.7%	5.1%	0.0%	4.8%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%			6.2%
PB013404				0.0%											0.0%						0.0%
PB013405	0.0%	21.4%	0.0%	37.9%	14.3%	0.0%															26.8%
PB013406	0.0%	18.4%	5.3%	11.5%	11.1%	5.3%	9.3%	10.3%	3.8%	5.0%	6.8%	1.3%	0.0%	2.1%	1.3%	0.6%	0.0%	0.0%	0.0%	0.0%	3.9%
PB013430																					0.0%
PB013458	50.0%	22.7%	7.7%	17.1%	14.3%	24.7%	19.0%	13.5%	3.8%	11.1%	6.0%	3.7%	2.9%	1.9%	3.2%	2.3%	0.0%	0.0%	0.0%		8.5%
PB013470	40.0%	27.1%	36.4%	21.0%	10.0%	10.5%	13.2%	16.7%	5.7%	10.9%	3.7%	4.9%	0.6%	2.5%	0.0%	1.9%	0.0%	0.0%			8.9%
PB013471																					0.0%
PB013478																					0.0%
PB013518																					0.0%
PB013588	33.3%	14.3%	20.0%	14.4%	18.5%	7.6%	11.1%	13.1%	7.1%	8.1%	2.9%	3.2%	0.8%	0.5%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	6.4%
PB013589	33.3%	15.4%	16.7%	20.4%	16.7%	14.5%	8.3%	14.3%	10.0%	11.3%	8.7%	6.4%	2.6%	1.4%	0.0%	0.0%	0.0%	0.0%			8.8%
PB013758	0.0%	7.1%	25.0%	26.7%	27.8%	10.9%	11.1%	16.9%	11.1%	9.9%	7.7%	5.0%	1.5%	0.9%	0.0%	1.8%	0.0%	0.0%			7.3%
PB013778		50.0%		0.0%		11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%		0.0%					4.7%

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51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB013798	33.3%	23.5%	8.3%	17.8%	22.2%	13.9%	4.3%	16.5%	11.9%	7.4%	5.1%	3.6%	1.7%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%
PB013847	0.0%	41.7%	0.0%	15.9%	0.0%	4.8%	15.4%	10.9%	17.6%	4.5%	0.0%	2.9%	1.7%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%
PB013938	0.0%	33.3%	11.1%	15.5%	0.0%	5.6%	0.0%	8.2%	0.0%	2.7%	5.6%	2.0%	0.6%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	3.3%
PB013939	20.0%	33.3%	25.0%	17.0%	18.2%	13.0%	17.4%	12.3%	9.5%	12.4%	5.3%	4.2%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.8%
PB014208																				0.0%
PB014209																				0.0%
PB014259		50.0%		0.0%	50.0%	25.0%	0.0%	22.2%	33.3%	27.3%	0.0%	0.0%	0.0%	3.7%	2.3%	0.0%	0.0%	0.0%	0.0%	5.3%
PB014298	25.0%	47.1%	50.0%	23.7%	21.2%	22.3%	14.9%	25.5%	28.6%	23.6%	9.0%	9.3%	7.6%	3.2%	0.0%	1.8%	0.0%	0.0%	0.0%	14.6%
PB014398																				0.0%
PB014423																				0.0%
PB014478																				0.0%
PB014503	33.3%	50.0%	66.7%	0.0%	9.1%	7.1%	10.5%	11.8%	0.0%	6.2%	5.3%	3.1%	1.8%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%
PB014504		12.5%	0.0%	16.4%	7.1%	9.6%	7.7%	14.9%	5.1%	8.5%	9.5%	1.8%	0.8%	0.6%	1.4%	1.6%	4.5%	0.0%	0.0%	5.7%
PB014505	27.3%	26.3%	25.0%	16.7%	20.5%	12.9%	11.8%	16.3%	14.0%	9.0%	6.3%	3.8%	3.5%	2.3%	0.8%	0.8%	1.5%	0.0%	0.0%	7.5%
PB014563		16.7%	0.0%	3.1%	37.5%	4.5%	10.0%	9.3%	4.5%	4.0%	14.3%	0.6%	1.9%	0.8%	0.0%	2.7%	0.0%	0.0%	0.0%	3.8%
PB014564																				0.0%
PB014568	0.0%	40.0%	33.3%	29.2%	11.1%	10.9%	9.1%	9.6%	0.0%	13.7%	0.0%	3.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%
PB014580	29.4%	18.2%	9.8%	18.4%	11.1%	12.4%	19.5%	16.5%	25.6%	9.7%	7.0%	4.6%	3.1%	1.7%	0.0%	3.7%	0.0%	0.0%	0.0%	11.8%
PB014637	66.7%	45.1%	62.5%	24.8%	8.0%	17.0%	15.0%	18.4%	7.4%	8.8%	0.0%	4.4%	1.3%	3.4%	2.1%	0.0%	0.0%	0.0%	0.0%	11.1%
PB014699	85.7%	22.5%	30.8%	17.3%	25.0%	14.9%	15.8%	18.0%	12.5%	14.0%	3.3%	3.8%	1.0%	3.1%	0.0%	3.2%	0.0%	0.0%	0.0%	10.3%
PB014721	16.7%	20.0%	37.5%	22.2%	11.1%	17.6%	5.0%	16.0%	7.7%	7.6%	3.4%	3.3%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	8.9%
PB015082				0.0%	60.0%	66.7%	25.0%		50.0%	27.8%	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%				14.4%
PB015114	50.0%	34.1%	11.8%	17.9%	7.9%	10.4%	12.1%	16.1%	23.8%	11.8%	2.5%	4.2%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	10.1%
PB015215	30.0%	21.6%	35.7%	25.3%	16.7%	13.1%	13.7%	12.9%	11.9%	5.5%	4.2%	4.4%	1.2%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	7.5%
PB015216	23.5%	26.4%	20.5%	11.6%	15.5%	17.0%	9.5%	11.7%	11.4%	8.3%	1.6%	1.7%	1.8%	1.5%	0.0%	2.1%	0.0%	0.0%	0.0%	8.7%
PB015295	6.3%	16.9%	20.7%	12.1%	10.4%	14.6%	17.9%	11.8%	12.2%	9.4%	4.9%	5.2%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.0%
PB015334	23.5%	10.6%	9.4%	10.1%	3.8%	7.5%	4.3%	8.4%	6.1%	5.4%	4.0%	2.5%	0.0%	0.8%	0.0%	0.0%	4.5%	0.0%	0.0%	5.1%
PB015335	25.0%	45.2%	23.1%	20.5%	22.5%	14.7%	14.0%	9.9%	6.3%	4.2%	4.9%	3.4%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.5%
PB015394	33.3%	15.2%	12.5%	15.2%	22.2%	6.6%	17.9%	18.7%	16.7%	13.7%	9.1%	2.8%	0.8%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%
PB015396	0.0%	19.0%	28.6%	9.4%	8.3%	3.6%	10.0%	7.6%	0.0%	6.7%	5.1%	1.2%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%
PB015397																				0.0%
PB015398				0.0%		0.0%		0.0%		14.3%		0.0%	5.2%	0.0%	0.0%	2.1%	0.0%			3.2%
PB015399	50.0%	20.7%	13.3%	7.2%	6.3%	14.7%	5.3%	6.1%	3.8%	3.7%	4.3%	1.3%	1.0%	1.1%	1.6%	1.4%	2.2%	0.0%		4.4%
PB015481																				0.0%
PB015482																				0.0%
PB015495	0.0%	12.5%	25.0%	20.8%	22.9%	8.6%	13.9%	11.7%	22.0%	11.5%	2.1%	5.0%	2.6%	4.8%	1.8%	1.9%	0.0%	0.0%		9.1%
PB015555																				0.0%
PB015556	25.0%	29.4%	42.9%	10.7%	14.3%	8.8%	0.0%	17.2%	0.0%	14.9%	28.6%	2.0%	4.3%	0.0%	0.0%	0.0%	0.0%			10.3%
PB015574		0.0%		0.0%	0.0%	16.7%	0.0%	10.0%	14.3%	4.8%	0.0%	7.1%	0.0%	2.7%	0.0%	0.0%	0.0%	0.0%		2.7%
PB015595	60.0%	27.6%	21.7%	17.6%	9.1%	10.9%	5.1%	7.6%	10.1%	4.5%	1.5%	1.7%	0.8%	1.8%	1.5%	0.0%	0.0%	0.0%		6.1%
PB015614	0.0%											0.0%								0.0%
PB015715	0.0%	31.6%	0.0%	7.9%	16.7%	7.7%	6.5%	13.0%	0.0%	5.5%	1.7%	1.3%	1.0%	1.5%	0.8%	0.0%	0.0%	0.0%		3.9%
PB015976																				0.0%
PB015996																				0.0%
PB016014	100.0%	7.7%	0.0%	9.1%	18.8%	13.6%	26.7%	14.8%	5.9%	7.4%	6.7%	1.8%	1.2%	0.0%	0.0%	0.0%	2.9%	0.0%		6.1%
PB016081	0.0%	22.2%	22.2%	11.7%	12.5%	9.7%	6.7%	9.4%	8.8%	3.5%	6.9%	2.4%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%		5.4%
PB016082	33.3%	25.0%	33.3%	15.4%	100.0%	50.0%						25.0%	0.0%	0.0%						19.1%
PB016084	0.0%	50.0%	0.0%	14.3%	0.0%	11.1%		33.3%	50.0%	0.0%	0.0%	7.1%	33.3%	0.0%		0.0%		0.0%		12.3%
PB016115	27.3%	50.0%	20.7%	24.3%	27.7%	22.0%	29.4%	25.2%	19.6%	15.0%	11.5%	5.3%	3.8%	1.4%	0.0%	0.0%	0.0%	0.0%		14.9%
PB016315	0.0%	10.0%	25.0%	10.5%	5.6%	21.2%	0.0%	12.7%	6.9%	5.4%	7.3%	0.6%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%		5.5%

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51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB016454	33.3%	30.0%	9.1%	20.0%	29.6%	17.3%	18.2%	22.1%	13.2%	9.0%	8.3%	1.7%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.1%
PB016455	66.7%	10.5%	12.5%	13.0%	14.3%	11.6%	11.1%	11.6%	3.4%	4.9%	0.0%	0.5%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%
PB016534	66.7%	35.0%	41.7%	13.1%	11.1%	8.8%	11.1%	20.9%	14.8%	3.6%	2.4%	0.9%	0.7%	4.2%	2.6%	1.9%	0.0%	0.0%	0.0%	6.7%
PB016574	14.3%	53.3%	16.7%	19.2%	27.8%	23.1%	18.2%	16.9%	0.0%	7.2%	10.0%	4.9%	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.1%
PB016644	30.0%	17.2%	21.4%	6.3%	6.1%	6.7%	3.0%	7.2%	17.1%	5.9%	4.7%	1.9%	1.6%	1.7%	1.2%	0.0%	0.0%	0.0%	0.0%	4.5%
PB016734	60.0%	30.2%	42.9%	17.7%	18.2%	14.9%	10.0%	11.1%	11.3%	7.2%	7.2%	2.6%	1.8%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%
PB016794			0.0%	0.0%	0.0%	56.3%	33.3%	15.8%	33.3%	20.0%	33.3%	7.1%	0.0%	6.7%	20.0%	0.0%	0.0%	0.0%	0.0%	17.4%
PB016868	0.0%	18.2%	33.3%	15.7%	33.3%	10.8%	5.3%	12.2%	9.1%	9.3%	0.0%	3.3%	2.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	6.5%
PB016976	0.0%	32.4%	12.5%	6.2%	32.1%	8.4%	7.4%	10.3%	8.5%	8.4%	6.2%	1.5%	2.4%	2.6%	0.0%	1.1%	0.0%	0.0%	0.0%	5.6%
PB017095	20.0%	22.0%	15.8%	21.8%	17.1%	18.4%	15.7%	13.3%	8.6%	8.3%	11.1%	4.1%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	8.5%
PB017183	12.5%	15.8%	26.7%	7.3%	14.3%	8.5%	6.5%	10.1%	10.8%	3.5%	6.8%	2.1%	0.0%	0.7%	0.0%	0.0%	1.8%	0.0%	0.0%	3.8%
PB017403	33.3%	41.9%	11.1%	20.3%	4.8%	15.0%	10.0%	9.6%	25.0%	4.1%	4.5%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%
PB017440	0.0%	5.9%	15.4%	16.7%	22.7%	25.6%	6.1%	18.6%	11.1%	10.9%	4.3%	4.6%	0.0%	1.4%	1.6%	0.0%	0.0%	0.0%	0.0%	7.7%
PB017500	44.4%	40.7%	31.3%	24.6%	12.5%	13.9%	13.3%	19.1%	4.3%	6.4%	6.5%	2.1%	1.3%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	7.7%
PB017534		25.0%	100.0%	57.1%	0.0%	50.0%	0.0%	33.3%	0.0%	33.3%	0.0%	20.0%	100.0%	50.0%	0.0%					38.9%
PB017676	50.0%	22.4%	29.4%	22.1%	20.0%	12.6%	10.0%	17.7%	9.1%	7.6%	7.3%	2.3%	1.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	9.9%
PB017756	100.0%	33.3%	14.3%	25.9%	10.0%	3.0%	6.7%	5.9%	11.1%	8.0%	11.8%	2.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%
PB017818																				0.0%
PB017937		0.0%	50.0%	22.2%	25.0%	25.0%	0.0%	11.1%	50.0%	10.0%	0.0%	3.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%
PB018075	20.0%	9.8%	21.1%	12.0%	6.8%	10.3%	7.9%	13.7%	12.5%	6.6%	5.5%	2.0%	0.5%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	4.8%
PB018154	14.3%	38.9%	11.5%	18.4%	27.3%	15.2%	4.9%	16.3%	16.4%	9.6%	9.3%	3.2%	1.3%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.0%
PB018155	0.0%	20.0%	17.9%	14.1%	9.6%	13.3%	14.0%	16.9%	14.4%	8.7%	7.2%	5.4%	4.1%	3.6%	2.3%	0.0%	0.0%	0.0%	0.0%	9.1%
PB018156	0.0%	36.1%	35.7%	25.6%	14.8%	18.7%	8.8%	20.7%	11.4%	12.5%	3.8%	5.7%	4.1%	5.4%	0.0%	0.0%	0.0%	0.0%	0.0%	14.8%
PB018336	0.0%	4.8%	0.0%	5.1%	2.6%	3.2%	7.5%	9.7%	7.7%	1.7%	2.4%	2.3%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	3.2%
PB018474	29.4%	18.2%	19.6%	18.9%	17.6%	10.7%	21.3%	16.3%	14.1%	10.7%	4.8%	2.9%	1.8%	1.4%	0.4%	1.7%	0.4%	0.0%	0.0%	7.4%
PB018495	33.3%	21.9%	25.0%	11.4%	17.4%	12.8%	12.2%	6.6%	8.0%	6.0%	4.0%	1.1%	1.7%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%
PB018694	0.0%	0.0%	0.0%	50.0%	20.0%	0.0%	50.0%	7.7%	16.7%	7.1%	0.0%	9.2%	1.3%	2.1%	1.4%	0.0%	0.0%	0.0%	0.0%	3.6%
PB018695	50.0%	35.4%	30.8%	28.7%	16.7%	23.6%	13.6%	27.4%	14.2%	12.4%	7.9%	2.0%	1.4%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	12.6%
PB018754	33.3%	17.6%	53.3%	12.5%	14.3%	11.6%	7.1%	13.1%	4.0%	5.4%	5.4%	2.3%	1.6%	1.2%	1.4%	0.0%	0.0%	0.0%	0.0%	6.1%
PB018755	33.3%	18.8%	0.0%	20.7%	20.0%	8.2%	7.7%	9.8%	8.3%	10.7%	7.7%	0.0%	3.4%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	6.5%
PB018756	0.0%	35.0%	10.0%	10.0%	18.5%	7.7%	3.7%	13.2%	2.9%	6.1%	1.6%	0.4%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%
PB018994	0.0%	21.2%	22.2%	11.0%	0.0%	10.8%	2.9%	12.1%	20.4%	7.2%	1.7%	5.9%	2.5%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	6.3%
PB018996	0.0%	25.0%	22.2%	16.1%	20.0%	10.6%	10.5%	17.0%	7.1%	9.7%	9.4%	1.4%	0.0%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	6.8%
PB019157	33.3%	36.5%	24.0%	17.2%	9.7%	20.7%	13.0%	19.3%	12.5%	9.6%	7.7%	1.8%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	12.7%
PB019158	33.3%	27.0%	32.0%	22.1%	19.4%	8.6%	15.2%	16.8%	12.8%	8.4%	3.9%	4.0%	0.6%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.1%
PB019294	100.0%	100.0%		25.0%		25.0%		33.3%		33.3%	50.0%	0.0%	0.0%	0.0%		0.0%				22.9%
PB019315	16.7%	11.1%	8.0%	21.2%	19.2%	4.5%	9.4%	15.6%	3.8%	16.5%	11.1%	2.5%	5.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
PB019374	0.0%	21.9%	0.0%	19.5%	9.1%	14.9%	15.8%	20.0%	16.0%	12.8%	7.7%	2.3%	5.5%	2.1%	4.2%	0.0%	0.0%	0.0%	0.0%	10.3%
PB019375			33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%	0.0%	1.0%	0.0%	0.0%	1.4%	3.3%		2.0%
PB019376																				0.0%
PB019558		100.0%	0.0%	0.0%	0.0%	16.7%	20.0%	19.4%	25.0%	15.2%	7.4%	0.0%	0.0%	1.1%	0.0%	1.3%	1.6%	0.5%		2.4%
PB019574	100.0%	23.8%	8.0%	18.2%	23.5%	17.5%	20.0%	19.0%	4.2%	9.2%	8.6%	2.9%	4.0%	0.9%	0.0%	0.0%	1.8%	0.0%	0.0%	8.7%
PB019894		15.8%	14.3%	16.7%	13.0%	15.6%	14.3%	8.9%	7.1%	7.7%	9.1%	1.5%	0.0%	0.0%	0.0%	2.7%	0.0%	0.0%	0.0%	4.7%
PB019895	33.3%	27.3%	33.3%	12.8%	22.7%	15.4%	27.3%	16.9%	4.8%	6.2%	5.5%	2.8%	1.2%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
PB019896		0.0%	50.0%	7.1%	28.6%	4.5%	14.3%	7.1%	9.1%	5.7%	0.0%	4.7%	2.9%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%
PB019914	0.0%	27.3%	7.1%	5.9%	10.0%	15.3%	11.4%	13.1%	8.7%	7.3%	7.3%	1.9%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%
PB019915	33.3%	38.1%	21.4%	26.9%	23.5%	18.9%	26.1%	13.3%	36.4%	10.9%	17.1%	5.2%	2.4%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	10.9%
PB019916	33.3%	36.0%	28.6%	27.1%	15.6%	12.3%	22.7%	15.9%	22.2%	11.7%	9.4%	4.4%	1.4%	2.3%	0.0%	0.9%	1.2%	0.0%	0.0%	8.4%
PB019994	16.7%	5.6%	12.5%	16.2%	20.0%	14.9%	13.6%	21.0%	23.8%	9.5%	0.0%	2.9%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
PB020078	25.0%	17.1%	16.7%	27.0%	16.4%	22.2%	11.5%	16.9%	12.7%	13.1%	1.5%	2.2%	0.9%	0.7%	0.0%	2.4%	0.0%	0.0%	0.0%	10.6%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB020136	33.3%	36.0%	20.0%	29.6%	13.3%	23.3%	26.7%	16.2%	14.0%	17.5%	13.0%	8.7%	4.5%	3.4%	2.1%	0.0%	0.0%	0.0%	0.0%	13.2%
PB020234		25.0%	33.3%	28.6%	33.3%	31.8%	40.0%	25.6%	25.0%	8.5%	13.6%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.2%
PB020268	66.7%	42.1%	30.8%	20.5%	27.8%	27.1%	22.2%	22.3%	8.0%	11.5%	3.7%	6.0%	4.3%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	14.0%
PB020454	40.0%	20.3%	3.6%	8.8%	14.3%	11.7%	3.1%	8.0%	5.7%	4.5%	6.3%	2.0%	0.6%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%
PB020474	0.0%	25.0%	40.0%	20.0%	21.1%	18.2%	19.0%	17.3%	10.7%	7.8%	9.7%	2.6%	3.6%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
PB020494	0.0%	0.0%		9.1%	22.2%	8.3%	50.0%	8.3%	14.3%	5.0%	10.0%	5.4%	3.6%	3.1%	2.1%	0.0%	2.7%	0.0%	0.0%	4.9%
PB020614	20.0%	4.5%	25.0%	12.1%	0.0%	17.3%	8.3%	9.4%	10.0%	1.9%	4.3%	3.9%	1.9%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	5.7%
PB020767	0.0%	11.1%	0.0%	5.4%	0.0%	5.0%	11.8%	4.1%	11.1%	2.3%	0.0%	3.8%	0.9%	2.9%	1.2%	0.0%	0.0%	0.0%	0.0%	2.9%
PB020768	50.0%	40.0%	100.0%	11.1%	14.3%	22.7%	0.0%	9.1%	40.0%	13.2%	11.1%	0.0%	3.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.7%
PB020770	44.4%	28.1%	11.9%	11.4%	6.9%	11.6%	14.3%	16.2%	10.7%	12.2%	2.6%	3.2%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.2%
PB020815	28.6%	19.2%	22.2%	9.3%	27.6%	12.0%	15.1%	21.0%	12.2%	10.1%	5.3%	4.3%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.2%
PB020816	40.0%	21.4%	18.8%	12.5%	18.5%	19.7%	16.1%	16.7%	9.1%	15.2%	2.7%	3.6%	2.1%	3.4%	1.9%	0.0%	0.0%	0.0%	0.0%	8.9%
PB020817	57.1%	48.3%	31.0%	19.7%	28.6%	15.0%	25.9%	21.6%	27.3%	6.6%	0.0%	1.7%	1.1%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.1%
PB020834			0.0%	16.7%	0.0%	0.0%	0.0%	7.1%	0.0%	7.9%	0.0%	5.3%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%
PB020911	0.0%	22.2%	25.0%	27.0%	20.8%	16.4%	14.3%	15.9%	9.8%	7.0%	4.9%	0.8%	1.1%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%
PB020974	44.8%	40.1%	24.8%	27.9%	23.0%	16.3%	24.3%	22.0%	17.8%	14.3%	7.6%	5.8%	5.6%	3.1%	0.0%	1.1%	0.0%	0.0%	0.0%	15.9%
PB021015	10.0%	28.6%	30.0%	15.1%	24.3%	17.5%	21.4%	12.3%	10.8%	15.9%	7.5%	3.3%	3.4%	2.0%	1.3%	0.0%	0.0%	0.0%	0.0%	8.5%
PB021074	100.0%	20.8%	25.0%	14.1%	25.0%	14.5%	3.7%	12.7%	0.0%	6.7%	4.0%	2.8%	2.7%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%
PB021097	0.0%	37.9%	0.0%	15.0%	31.3%	18.0%	0.0%	14.4%	9.1%	4.9%	2.2%	1.9%	1.0%	2.2%	1.1%	0.0%	0.0%	0.0%	0.0%	6.1%
PB021134	14.3%	23.1%	12.1%	25.5%	9.4%	18.8%	20.0%	13.2%	21.1%	12.4%	3.4%	3.4%	1.8%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
PB021198	27.3%	19.2%	20.0%	12.0%	11.4%	13.7%	15.6%	20.3%	15.8%	8.7%	2.8%	2.9%	1.0%	1.0%	0.0%	3.8%	0.0%	0.0%	0.0%	10.2%
PB021254	50.0%	33.3%	25.0%	21.2%	14.0%	14.6%	10.0%	15.8%	13.0%	9.4%	4.1%	3.7%	2.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	9.6%
PB021294	0.0%	35.0%	12.5%	20.4%	33.3%	16.9%	7.7%	19.8%	10.8%	5.1%	5.6%	2.5%	2.2%	2.8%	0.0%	2.9%	4.8%	0.0%	0.0%	8.8%
PB021314	0.0%	33.3%	60.0%	9.1%	0.0%	15.0%	0.0%	13.0%	16.7%	7.4%	16.7%	5.3%	1.8%	11.4%	5.9%	0.0%	0.0%	6.7%	0.0%	7.4%
PB021315	37.5%	35.5%	30.0%	20.8%	13.8%	8.5%	13.3%	12.3%	7.1%	7.1%	6.5%	2.4%	0.0%	0.7%	1.5%	0.0%	0.0%	0.0%	0.0%	7.1%
PB021594	0.0%	31.3%	13.3%	17.8%	23.5%	16.5%	14.8%	12.6%	10.7%	13.5%	8.3%	3.2%	6.5%	0.9%	1.6%	2.0%	0.0%	0.0%	0.0%	9.6%
PB021694	20.0%	31.6%	22.2%	28.3%	5.9%	10.6%	13.8%	22.1%	14.3%	10.8%	4.3%	3.8%	3.9%	4.8%	0.0%	3.6%	0.0%	0.0%	0.0%	10.1%
PB021716		0.0%		33.3%		0.0%	0.0%	16.7%	0.0%	25.0%	0.0%	11.1%		0.0%	0.0%	0.0%	0.0%			8.3%
PB021717				0.0%		0.0%		0.0%	0.0%	0.0%	100.0%	50.0%	0.0%	50.0%						20.0%
PB021755		50.0%	33.3%	14.8%	0.0%	12.5%	18.2%	16.3%	0.0%	8.3%	6.7%	0.0%	1.6%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%
PB021794	0.0%	0.0%		12.5%	25.0%	0.0%	0.0%	6.9%	5.9%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
PB021815		20.0%	40.0%	16.7%	14.3%	2.9%	33.3%	9.3%	8.3%	7.7%	0.0%	4.6%	4.0%	1.6%	0.0%	4.2%	0.0%	0.0%	0.0%	6.1%
PB021855	0.0%	33.3%	100.0%	16.7%		42.9%	0.0%	0.0%	50.0%	14.3%	14.3%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%	0.0%	6.7%
PB021995	0.0%	25.0%	0.0%	5.0%	4.0%	6.7%	2.3%	5.1%	6.3%	6.4%	10.1%	0.6%	2.5%	0.7%	0.0%	0.0%	1.7%	0.0%	0.0%	3.4%
PB022074	100.0%	0.0%	20.0%	35.3%	0.0%	17.9%	17.4%	30.3%	14.3%	10.9%	20.0%	4.7%	3.3%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.0%
PB022094	0.0%	31.6%	30.8%	8.3%	13.6%	12.9%	20.0%	11.3%	0.0%	7.5%	10.7%	2.8%	1.6%	2.0%	2.4%	0.0%	0.0%	0.0%	0.0%	7.0%
PB022214	40.0%	18.2%	14.3%	17.6%	6.7%	9.7%	13.3%	16.4%	11.8%	6.3%	9.1%	1.1%	0.0%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%
PB022224		0.0%								0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					0.0%
PB022254	14.3%	14.3%	23.5%	16.8%	19.5%	16.0%	9.3%	13.9%	10.4%	14.7%	10.9%	5.3%	1.0%	2.2%	1.8%	0.0%	0.0%	0.0%	0.0%	9.7%
PB022256	100.0%	26.7%	11.1%	17.4%	23.1%	23.1%	11.1%	18.2%	20.6%	14.8%	3.4%	3.4%	1.6%	0.0%	5.6%	0.0%	0.0%	0.0%	0.0%	12.0%
PB022257		33.3%	50.0%	0.0%	25.0%	9.1%	0.0%	14.3%	0.0%	11.1%	0.0%	7.1%	16.7%	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	9.6%
PB022258	22.2%	16.1%	9.1%	17.2%	14.3%	9.6%	11.5%	23.0%	11.9%	11.9%	7.1%	3.5%	2.1%	1.3%	1.8%	0.0%	0.0%	0.0%	0.0%	8.1%
PB022357	25.0%	13.3%	10.7%	14.3%	21.2%	4.3%	2.9%	10.9%	10.2%	2.7%	1.7%	1.4%	0.7%	0.7%	1.3%	2.3%	0.0%	0.0%	0.0%	4.8%
PB022437		25.0%	0.0%	10.0%	0.0%	16.0%	0.0%	0.0%	12.5%	4.3%	0.0%	3.2%	1.2%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%
PB022438	0.0%	8.3%	0.0%	14.5%	7.1%	8.5%	6.5%	12.5%	6.4%	4.2%	7.7%	1.6%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%
PB022476	0.0%	14.3%	7.7%	4.5%	0.0%	8.5%	0.0%	5.7%	0.0%	3.2%	5.4%	1.1%	0.4%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%
PB022557	0.0%	50.0%	0.0%	0.0%	0.0%	6.3%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
PB022617	50.0%	37.5%	40.0%	28.0%	0.0%	13.0%	22.2%	7.1%	0.0%	4.2%	10.0%	1.0%	4.5%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%
PB022657	20.0%	57.1%	18.2%	15.4%	11.8%	3.9%	12.5%	15.9%	21.1%	8.1%	13.0%	6.3%	0.0%	3.7%	5.3%	0.0%	0.0%	0.0%	0.0%	8.4%
PB022715	50.0%	27.3%	12.5%	20.0%	10.3%	12.9%	3.4%	11.7%	3.0%	5.3%	0.0%	3.7%	0.9%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
PB022778	0.0%	25.0%	25.0%	15.4%	28.6%	33.3%	0.0%	25.0%	33.3%	11.8%	22.2%	0.0%	2.4%	2.3%	0.0%	0.0%	0.0%			9.3%
PB022882	0.0%		0.0%	0.0%	16.7%	0.0%	0.0%	22.2%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			2.9%
PB022903	50.0%	31.3%	30.0%	9.6%	20.0%	16.7%	14.7%	12.3%	20.6%	9.3%	15.8%	2.0%	8.8%	0.0%	0.0%	0.0%	0.0%	0.0%		12.4%
PB022904	25.0%	46.7%	18.2%	13.6%	10.5%	12.8%	3.8%	14.6%	15.6%	7.1%	12.5%	1.8%	2.8%	0.0%	0.0%	1.4%	0.0%	0.0%		6.1%
PB022905	50.0%	30.0%	9.1%	20.9%	6.1%	8.3%	14.3%	12.3%	6.5%	6.5%	4.8%	1.3%	0.6%	0.9%	0.9%	0.0%	0.0%	0.0%		4.5%
PB023077	50.0%	25.0%	20.0%	10.0%	6.8%	9.3%	12.7%	16.0%	4.1%	7.3%	5.4%	1.8%	0.0%	0.0%	7.1%	4.0%	0.0%			7.7%
PB023169	50.0%	9.1%	0.0%	16.7%	12.5%	14.3%	11.8%	12.7%	0.0%	6.8%	0.0%	2.8%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%
PB023198	58.3%	11.1%	27.3%	20.8%	15.8%	25.9%	15.8%	15.6%	10.6%	6.7%	13.8%	7.1%	9.1%	3.0%	0.0%	2.3%	0.0%	0.0%	0.0%	11.5%
PB023220	14.3%	19.0%	0.0%	18.0%	6.3%	11.1%	21.1%	8.8%	13.6%	7.0%	9.4%	2.3%	3.0%	1.0%	0.0%	1.2%	0.0%	0.0%		5.4%
PB023237	100.0%	33.3%	16.7%	6.3%	0.0%	24.0%	20.0%	11.8%	20.0%	14.0%	11.1%	3.9%	4.3%	2.3%	0.0%	0.0%	0.0%			9.5%
PB023238	16.7%	29.2%	20.0%	22.0%	17.4%	16.5%	5.3%	11.3%	11.1%	9.2%	7.1%	3.1%	0.0%	1.6%	1.4%	0.0%	0.0%	0.0%		7.8%
PB023239		50.0%	50.0%	10.0%	20.0%	14.3%	25.0%	18.8%	25.0%	9.8%	14.3%	0.0%	0.0%	1.9%	0.0%	0.0%	2.4%	0.0%		4.3%
PB023317	33.3%	28.0%	20.0%	28.6%	12.0%	16.0%	13.3%	16.7%	17.5%	11.5%	6.4%	4.8%	4.7%	0.0%	0.0%	0.0%	0.0%	0.0%		13.5%
PB023337	0.0%	22.7%	9.1%	4.6%	15.8%	9.3%	9.1%	4.3%	11.1%	5.7%	0.0%	0.8%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%		4.2%
PB023424	60.0%	16.7%	33.3%	16.7%	15.0%	11.0%	5.3%	8.6%	3.3%	10.2%	3.3%	1.4%	0.0%	0.0%	0.0%	3.2%	0.0%	0.0%		6.6%
PB023597	0.0%	29.4%	17.4%	17.8%	29.7%	14.1%	18.2%	14.5%	18.5%	9.5%	5.3%	1.8%	6.3%	1.4%	0.0%	0.0%	5.3%	0.0%		9.7%
PB023658																				0.0%
PB023757	0.0%	33.3%	22.2%	20.5%	30.0%	27.9%	15.0%	24.1%	21.1%	17.5%	5.1%	5.9%	9.1%	2.8%	2.2%	4.2%	6.9%	0.0%		12.0%
PB023769		0.0%	0.0%	0.0%		14.3%	50.0%	0.0%	25.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	3.0%	0.0%	0.0%		2.1%
PB023771	0.0%	11.1%	16.7%	11.1%	7.1%	9.5%	0.0%	15.1%	0.0%	5.0%	4.5%	2.6%	2.3%	1.1%	0.0%	0.0%	0.0%	0.0%		5.1%
PB023777	0.0%	25.0%	36.8%	6.5%	10.9%	11.0%	3.2%	6.7%	7.8%	4.7%	1.3%	1.2%	0.6%	0.6%	0.9%	0.0%	0.0%	0.0%	0.0%	4.4%
PB023778	0.0%	0.0%	12.5%	10.7%	5.9%	12.0%	11.1%	9.1%	4.7%	6.6%	1.9%	0.6%	0.9%	1.4%	0.0%	0.0%	0.0%	0.0%		3.1%
PB023782	0.0%	25.0%	27.3%	21.9%	10.3%	18.3%	15.8%	16.9%	17.9%	14.3%	7.3%	4.4%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%		10.4%
PB023818	66.7%	26.7%	0.0%	16.7%	0.0%	21.9%	0.0%	4.6%	22.2%	5.0%	25.0%	2.5%	0.0%	1.4%	2.7%	5.6%	0.0%	0.0%		7.1%
PB023819		16.7%	50.0%	6.1%	10.0%	7.1%	0.0%	15.0%	0.0%	4.2%	0.0%	6.2%	1.7%	1.4%	0.0%	0.0%	0.0%	0.0%		5.0%
PB023899	0.0%	0.0%	0.0%	25.0%	50.0%	0.0%	33.3%	12.5%	0.0%	2.6%	0.0%	4.9%	0.9%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	1.8%
PB023900	40.0%	20.0%	20.0%	24.4%	9.3%	15.2%	16.7%	15.5%	23.3%	8.8%	6.7%	3.9%	2.4%	1.3%	3.1%	0.0%	7.7%			10.6%
PB023917		33.3%	16.7%	18.2%	16.7%	16.7%	6.7%	13.2%	0.0%	7.4%	7.7%	3.7%	2.3%	0.0%	4.5%	0.0%	0.0%	0.0%		7.6%
PB023918	20.0%	24.1%	25.9%	19.4%	20.0%	12.7%	2.0%	17.0%	12.1%	8.9%	3.4%	3.2%	2.3%	2.5%	1.3%	0.0%	0.0%	0.0%		8.3%
PB023937		55.6%	25.0%	24.2%	9.1%	11.1%	16.7%	16.3%	37.5%	13.1%	25.0%	3.4%	0.0%	2.0%	0.0%	0.0%	0.0%			11.1%
PB023938	25.0%	11.1%	0.0%	12.5%	6.3%	8.7%	10.5%	6.8%	6.1%	9.5%	0.0%	1.2%	0.0%	1.5%	0.0%	1.9%	2.6%	0.0%		4.4%
PB023939	21.4%	9.7%	16.0%	1.7%	8.7%	4.7%	3.8%	3.6%	3.2%	3.0%	0.0%	0.5%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%
PB023978	50.0%	18.8%	12.5%	12.0%	13.3%	8.5%	12.5%	5.6%	0.0%	2.2%	2.6%	2.2%	0.8%	1.7%	0.0%	0.0%	0.0%	0.0%		3.2%
PB023979	50.0%	28.6%	20.0%	26.7%	19.0%	13.2%	21.9%	22.7%	12.2%	7.8%	5.6%	7.3%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%		12.5%
PB023980	0.0%	14.3%	40.0%	8.3%	16.7%	21.4%	33.3%	15.4%	16.7%	11.9%	9.1%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		7.3%
PB024091	50.0%	20.0%	25.0%	6.8%	18.5%	11.5%	7.7%	11.9%	10.3%	7.6%	0.0%	2.6%	3.7%	3.2%	0.0%	0.0%	0.0%	0.0%		7.2%
PB024093	50.0%	26.7%	28.6%	29.2%	22.7%	16.7%	21.1%	17.3%	15.0%	8.5%	0.0%	0.9%	4.5%	1.8%	0.0%	0.0%	0.0%	0.0%		9.9%
PB024117		20.0%		0.0%	0.0%	5.0%	0.0%	17.9%	10.0%	18.6%	33.3%	5.6%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%		7.7%
PB024118	33.3%	16.7%	0.0%	13.2%	12.5%	5.2%	10.5%	10.1%	21.1%	9.2%	4.8%	2.5%	1.7%	0.0%	1.1%	0.0%	0.0%	0.0%		4.5%
PB024119	40.0%	34.4%	30.0%	9.5%	0.0%	5.5%	9.1%	9.8%	0.0%	4.1%	0.0%	1.2%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%		6.0%
PB024120	0.0%	0.0%	57.1%	15.4%	10.0%	8.6%	0.0%	10.3%	18.2%	7.3%	17.6%	1.4%	0.0%	3.4%	4.3%	0.0%	0.0%	0.0%		6.5%
PB024157				20.0%	33.3%	0.0%	0.0%	0.0%	25.0%	9.5%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%		3.2%
PB024158		50.0%		25.0%	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		2.6%
PB024159	40.0%	19.4%	29.4%	12.4%	22.6%	7.7%	2.6%	8.0%	9.1%	6.3%	5.9%	2.9%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%		5.5%
PB024161	100.0%	0.0%	40.0%	15.4%	14.3%	28.6%	8.3%	17.6%	20.0%	4.0%	0.0%	8.7%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%		10.3%
PB024162	42.9%	34.4%	30.8%	33.3%	22.7%	22.9%	22.9%	21.9%	15.4%	14.7%	15.2%	6.8%	5.9%	2.4%	1.1%	1.7%	0.0%	0.0%		13.1%
PB024163		0.0%				0.0%		0.0%	0.0%	0.0%	12.5%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%		1.6%
PB024164	0.0%	18.2%	0.0%	25.0%	3.7%	16.4%	10.0%	12.7%	5.0%	2.3%	0.0%	2.0%	3.1%	1.0%	0.0%	1.3%	0.0%	0.0%	0.0%	4.5%
PB024179	0.0%	16.7%	0.0%	0.0%	0.0%	11.8%	12.5%	7.7%	23.1%	8.3%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		6.6%
PB024180	25.0%	21.1%	25.0%	15.3%	0.0%	10.7%	4.3%	9.7%	3.8%	5.5%	8.3%	3.1%	2.2%	1.2%	1.1%	0.0%	0.0%	0.0%		4.9%

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL	
PB024181		33.3%	0.0%	9.1%	14.3%	20.0%	20.0%	6.7%	0.0%	3.3%	11.1%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		7.5%	
PB024182																					0.0%
PB024237			0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	22.2%	5.9%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	2.6%	
PB024317																					0.0%
PB024337	0.0%	50.0%	33.3%	26.3%	25.0%	12.0%	16.7%	20.0%	40.0%	7.4%	0.0%	12.5%	9.1%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	14.1%	
PB024338			100.0%	0.0%	0.0%	11.1%		0.0%	0.0%	0.0%	0.0%	4.5%	15.4%	0.0%	0.0%	0.0%	0.0%			4.3%	
PB024339	0.0%	0.0%	0.0%	14.3%	100.0%	7.7%	0.0%	7.7%	14.3%	0.0%	8.3%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	
PB024340		22.2%	33.3%	26.7%	0.0%	15.8%	25.0%	21.9%	17.6%	7.3%	0.0%	3.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	8.7%	
PB024377		0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	26.7%	16.7%	0.0%	33.3%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%	
PB024441	0.0%	14.3%	20.0%	4.0%	3.6%	6.5%	14.3%	15.6%	0.0%	5.6%	2.9%	2.9%	2.0%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	3.8%	
PB024443	0.0%	75.0%	25.0%	40.0%	0.0%	43.8%	75.0%	30.4%	20.0%	30.8%	27.3%	10.8%	14.8%	0.0%	0.0%	11.1%	10.0%	0.0%		20.5%	
PB024444		28.6%	0.0%	8.3%	16.7%	9.1%	14.3%	12.5%	0.0%	13.7%	7.1%	0.0%	2.4%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%	
PB024497		0.0%		11.1%	0.0%	0.0%		14.3%	33.3%	11.8%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%	
PB024517	100.0%	0.0%		0.0%	0.0%	0.0%	0.0%	16.7%		0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.1%	
PB024600		25.0%	25.0%	18.8%	10.0%	15.6%	20.0%	4.8%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	
PB024602		16.7%	14.3%	19.2%	0.0%	6.7%	18.2%	9.1%	0.0%	10.9%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.7%	
PB024657	50.0%	0.0%	0.0%	17.4%	12.5%	7.3%	6.3%	18.2%	16.7%	10.2%	0.0%	4.2%	3.1%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	
PB024658																				0.0%	
PB024678	0.0%	20.0%	0.0%	15.4%	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%	20.0%	3.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.5%	
PB024797	0.0%	0.0%	0.0%	13.6%	0.0%	0.0%	0.0%	10.5%	9.1%	0.0%	5.3%	0.0%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7%	
PB024837		50.0%	0.0%	14.3%	0.0%	11.1%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%		5.9%	
PB024839			0.0%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%		5.7%	
PB024877																				0.0%	
PB024947				100.0%				0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		5.9%	
PB024948				0.0%							0.0%	25.0%	0.0%	0.0%		0.0%				11.1%	
PB024979		50.0%	33.3%	40.0%	0.0%	10.0%	33.3%	16.7%	0.0%	0.0%	0.0%	10.0%	10.0%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	9.6%	
PB024988	100.0%	75.0%	0.0%	28.6%	25.0%	8.3%	12.5%	30.8%	44.4%	13.3%	16.7%	7.4%	0.0%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	14.1%	
PB025042																				0.0%	
PB025043							100.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	
PB025045		33.3%	0.0%	66.7%				0.0%		0.0%	50.0%	20.0%	0.0%		0.0%					25.0%	
PB025046																				0.0%	
PB025122			0.0%		100.0%		0.0%	0.0%	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	
PB025295				0.0%				0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
PB025296																				0.0%	
PB025298																				0.0%	
PB025301																				0.0%	
PB025360																				0.0%	
PB025560																				0.0%	
PB025561																				0.0%	
PB025720																				0.0%	
PB025785																				0.0%	
PB025788																				0.0%	
PB025889																				0.0%	
PB026000																				0.0%	
PB026001																				0.0%	
PB026038																				0.0%	
PB026040																				0.0%	
PB026061																				0.0%	
PB026063																				0.0%	
PB026152																				0.0%	

2001 Massachusetts I&M Program Test Data

51.366 (a)(4) Initial Emissions Test Failure Rate by Model Year and Test Station

MAA_ST_ID	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL		
PB026380																					0.0%	
PB026421																						0.0%
PB026502																						0.0%
PB026543																						0.0%
PB026782																						0.0%
PB026784																						0.0%
PB026854																						0.0%
PB027334																						0.0%
PB027457																						0.0%
PB027458																						0.0%
PB027476																						0.0%
PB027618																						0.0%
PB027935																						0.0%
PB027995																						0.0%
PB028055																						0.0%
PB028178																						0.0%
PB028317																						0.0%
PB028336																						0.0%
PB028396																						0.0%
PB028515																						0.0%
PB028617																						0.0%
PB028761																						0.0%
PB028797																						0.0%
PB028836																						0.0%
PB028916																						0.0%
PB029097																						0.0%
PB029196																						0.0%
PB029298																						0.0%
PB029476																						0.0%
PB029556																						0.0%