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# Drug and Alcohol Testing Results 2003 Annual Report

September 2005



**The FTA Drug and Alcohol Management Information System** 

Office of Safety and Security

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### Preface

This annual report represents the cooperative efforts of many people. Extensive appreciation is extended to the U.S. Department of Transportation's Federal Transit Administration, the Volpe National Transportation Systems Center, and the following individuals who were instrumental in guiding this project and contributing to its success:

Michael Taborn Director, Office of Transit Safety and Security Federal Transit Administration

> Jerry Powers Drug and Alcohol Program Manager Federal Transit Administration

Michael R. Redington Program Manager/Transportation Industry Analyst Volpe National Transportation Systems Center

# **METRIC/ENGLISH CONVERSION FACTORS**

ENGLISH TO METRIC	METRIC TO ENGLISH								
LENGTH (APPROXIMATE)	LENGTH (APPROXIMATE)								
1 inch (in) = 2.5 centimeters (cm)	1 millimeter (mm) = 0.04 inch (in)								
1 foot (ft) = 30 centimeters (cm)	1 centimeter (cm) = 0.4 inch (in)								
1 yard (yd) = 0.9 meter (m)	1 meter (m) = 3.3 feet (ft)								
1 mile (mi) = 1.6 kilometers (km)	1 meter (m) = 1.1 yards (yd)								
	1 kilometer (km) = 0.6 mile (mi)								
AREA (APPROXIMATE)	AREA (APPROXIMATE)								
1 square inch (sq in, in <sup>2</sup> ) = 6.5 square centimeters (cm <sup>2</sup> )	1 square centimeter (cm <sup>2</sup> ) = 0.16 square inch (sq in, in <sup>2</sup> )								
1 square foot (sq ft, $ft^2$ ) = 0.09 square meter (m <sup>2</sup> )	1 square meter (m²)  =  1.2 square yards (sq yd, yd²)								
1 square yard (sq yd, yd <sup>2</sup> ) = 0.8 square meter (m <sup>2</sup> )	1 square kilometer (km <sup>2</sup> ) = 0.4 square mile (sq mi, mi <sup>2</sup> )								
1 square mile (sq mi, mi <sup>2</sup> ) = 2.6 square kilometers (km <sup>2</sup> )	10,000 square meters $(m^2) = 1$ hectare (ha) = 2.5 acres								
1 acre = 0.4 hectare (he) = 4,000 square meters $(m^2)$									
MASS - WEIGHT (APPROXIMATE)	MASS - WEIGHT (APPROXIMATE)								
1 ounce (oz) = 28 grams (gm)	1 gram (gm) = 0.036 ounce (oz)								
1 pound (lb) = 0.45 kilogram (kg)	1 kilogram (kg) = 2.2 pounds (lb)								
1 short ton = 2,000 = 0.9 tonne (t) pounds (lb)	1 tonne (t) = 1,000 kilograms (kg) = 1.1 short tons								
VOLUME (APPROXIMATE)	VOLUME (APPROXIMATE)								
1 teaspoon (tsp) = 5 milliliters (ml)	1 milliliter (ml) = 0.03 fluid ounce (fl oz)								
1 tablespoon (tbsp) = 15 milliliters (ml)	1 liter (I) = 2.1 pints (pt)								
1 fluid ounce (fl oz) = 30 milliliters (ml)	1  liter (l) = 1.06  quarts (qt)								
1 cup (c) = 0.24 liter (l)	1 liter (I) = $0.26$ gallon (gal)								
1 pint (pt) = 0.47 liter (l)									
1 quart (qt) = 0.96 liter (l)									
1 gallon (gal) = 3.8 liters (I)									
1 cubic foot (cu ft, ft <sup>3</sup> ) = 0.03 cubic meter (m <sup>3</sup> )	1 cubic meter (m <sup>3</sup> ) = 36 cubic feet (cu ft, ft <sup>3</sup> )								
1 cubic yard (cu yd, yd <sup>3</sup> ) = 0.76 cubic meter (m <sup>3</sup> )	1 cubic meter (m <sup>3</sup> ) = 1.3 cubic yards (cu yd, yd <sup>3</sup> )								
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For more exact and or other conversion factors, see NIST Miscellaneous Publication 286, Units of Weights and Measures. Price \$2.50 SD Catalog No. C13 10286

# **Executive Summary**

Federal Transit Administration (FTA) regulations require that each recipient (both direct and indirect) of FTA funds (1) implement an anti-drug program to deter and detect the use of prohibited drugs, (2) establish a program to prevent the misuse of alcohol, and (3) report the results of its programs to FTA upon request. Compliance with FTA's drug and alcohol testing program is a condition of federal assistance. Failure of a recipient to establish and implement a drug and alcohol testing program – either in its own operations or in those of an entity operating on its behalf – may result in the suspension of FTA funding to the recipient.

Employees who perform any of five safety-sensitive functions must be tested for five controlled substances<sup>1</sup> in four circumstances: random, post-accident, reasonable suspicion, and pre-employment. Such employees must also be tested for alcohol use in each of those circumstances except pre-employment, though employers may, and many do, require pre-employment tests per 49CFR Part 40 testing procedures. An additional circumstance (return to duty/follow-up) is required for safety-sensitive employees who are given an opportunity to resume safety-sensitive duties after testing positive for drugs or alcohol or refusing to submit to a required test.

#### **Random Rates**

FTA considers random testing to be the most effective deterrent to drug use and alcohol misuse. The results of random tests also provide the best indication of the overall level of drug use and alcohol misuse, and the combined percentage of positive random tests plus random test refusals are used by FTA in determining minimum random testing rates for the following year. The test result rates for drugs and alcohol, respectively, that are used in determining the testing rates for the following year are calculated as follows:

(verified drug positives + refusals) ÷ (total number of testing events<sup>2</sup>) (confirmed alcohol positives<sup>3</sup> + refusals) ÷ (total number of testing events)

In 2003, 1,170 verified random drug test positives and 129 random drug test refusals were reported. Additionally, 37 random alcohol tests were reported with a confirmed blood alcohol level of at least .04, and 11 refusals to take a random alcohol test were reported.

<sup>&</sup>lt;sup>1</sup> The five substances that must be tested for are marijuana, cocaine, phencyclidine (PCP), opiates, and amphetamines.

 $<sup>^2</sup>$  Per the addition of Section 26 and Appendix H to Part 40 in 2003, a testing event includes test refusals but not canceled tests.

<sup>&</sup>lt;sup>3</sup> A positive alcohol test is a confirmation screen with a breath alcohol level of at least 0.04.



### Official Random Rates for 2003

The graph at left shows the "official" rates for random drug and random alcohol tests used by the FTA Administrator in determining future random testing rates.

Because the random drug rate must remain below 1.0 percent for two consecutive years before it can be lowered and the rate in 2002 was above 1.0 percent, the random testing rate for drugs remained at 50 percent for 2004. If the rate remains below 1.0 percent in 2004, the FTA Administrator will have the option to reduce the random drug test quota for 2005 to 25 percent.

Because the 2003 alcohol rate was below 0.50 percent, the random testing quota for alcohol remained at 10 percent for 2004.

# Rates for Four Types of Testing

The combined percentages of positive tests plus test refusals shown in the previous graph are compared with the same rates for post-accident, reasonable suspicion, and pre-employment tests and for the four test types combined, in the graph at right. The rates for return to duty and follow-up tests are presented in a separate graph because those tests represent a different segment of the test population (i.e., tests produced by persons who have been removed from duty for drug or alcohol violations and have completed a rehabilitation program) and not all employers offer rehabilitation.



As shown, the reasonable suspicion rates were much higher than the random, post-accident, or pre-employment rates for both drugs and alcohol. The random rate was the lowest of the drug rates, significantly lower than the positive rates for any of the other three test types. The pre-employment rate was the lowest of the alcohol rates, and the random rate was slightly higher.

There were 135,297 random drug testing events reported in 2003, and 215,443 were reported for the four test types combined. The fewest reported were for reasonable suspicion, at 657. Next was post-accident, at 13,715. There were 42,317 random alcohol testing events reported in 2003, and 65,099 were

reported for the four test types combined. The fewest reported were for reasonable suspicion, at 620. Next was post-accident, at 12,490. Only 9,672 pre-employment alcohol testing events were reported compared with 65,774 for drugs, reflecting the fact that pre-employment drug testing is required and preemployment alcohol testing is not required

### Employer Type and Size

As shown in the following two graphs, the rates for contractors were higher than those for transit agency employees for each test type for drugs and for each test type for alcohol except random, which was slightly higher for transit employees. The random drug rate was more than twice as high for contractors. The combined alcohol rate was also nearly twice as high for contractors, and the combined drug rate was more than two-and-one-half times as high for contractors. Many more testing events were reported for transit agency employees than for contractors for both drugs and alcohol—three to four times as many for each test type except pre-employment events, twice as many for preemployment alcohol tests and one-third more for pre-employment drug tests.



As shown in the next two graphs, the rates for the three employer size categories were very similar for the four types combined for both drugs and alcohol. The greatest variation in both the drug and alcohol rates by employer size was for reasonable suspicion, and large employers reported the lowest rates for both. Small employers reported the highest random drug rates, and rural employers reported the highest random alcohol rates. More than 80 percent of the testing events reported for both drugs and alcohol were reported by large employers. Rural employers reported approximately twice as many random testing events as

small employers for both drugs and alcohol. That ratio of testing events is approximately the same for all four test types combined.



#### Rates by Test Type and Employer Size

#### Employee Category

The armed security personnel category had the lowest drug rate for all test types and the lowest alcohol rate for all test types except random. The





CDL<sup>4</sup>/non-revenue vehicle category had the highest drug rate for all test types except reasonable suspicion, the highest random alcohol rate, and the highest combined rate for alcohol. The vast majority of testing events reported for both drugs and alcohol were for the revenue vehicle operation category approximately 70 percent of random tests, more than 80 percent of preemployment and reasonable suspicion tests, and nearly 95 percent of postaccident tests. The revenue vehicle and equipment maintenance category had the second largest number of reported testing events for each test type for both drugs and alcohol.

#### FTA Region

As shown on the map at right, the random drug rate was lowest in Region 2 at 0.63 percent, and was highest in Region 8 at 1.42 percent. Half of the regions had rates lower than the national average of 0.96 percent. The other half were more than1.0 percent.



<sup>4</sup> CDL = commercial driver license

As shown on the map at right, the random alcohol rate was zero in Region 8 and was by far the highest in Region 7 at 0.49 percent. Half of the regions had rates higher than the national average of 0.11 percent. All but Region 7 were less than 0.20 percent.



### Type of Drug

As shown in the following charts, marijuana was detected more often than all of the other drugs combined in random testing, post-accident testing, preemployment testing, and all four test types combined. Cocaine was detected most often in reasonable suspicion tests, and marijuana was second.



## Rates for Return to Duty Testing and Follow-Up Testing

Before being returned to duty, employees must complete a rehabilitation program and submit either a negative drug specimen or a negative alcohol screen, depending on the test that the employee initially failed or refused to take.

In 2003, 1,283 return to duty drug testing events, 713 return to duty alcohol testing events, 7,980 follow-up drug testing events, and 5,950 follow-up alcohol testing events were reported. Only three positive return to duty alcohol tests and one refusal were reported. Only 17 positive follow-up alcohol tests and two refusals were reported. As shown in the graphs at right, the return to



duty rates were higher than follow-up rates for both drugs and alcohol, and the alcohol rates were much lower than the drug rates.

Approximately 80 percent of the return to duty drug testing events were reported by transit agencies, and approximately 90 percent of return to duty alcohol testing events were reported by transit agencies. As shown in the graph at near right below, both the return to duty drug and alcohol rates for transit employees were higher than those for contractors. No



positive alcohol tests or refusals were reported by contractors. More than 80 percent of the return to duty testing events were reported by large employers, and more than 90 percent of the alcohol testing events were reported by large employers. As shown in the graph at far right (above, the return to duty drug rate was much higher for large employers than that for small or rural employers, and no positive alcohol tests or refusals were reported by small or rural employers.

Approximately 90 percent of the follow-up testing events for both drugs and alcohol were reported by transit agencies. As shown in the graph at near right, the follow-up drug rates for contractors were twice as high as those for transit employees while the alcohol rate for transit agency employees was nearly twice as high as that for contractors. Nearly 95 percent of the follow-up drug testing events were reported by large employers, and nearly 98 percent of the



follow-up alcohol testing events were reported by large employers. As shown in the graph at far right on the previous page, both the follow-up drug and alcohol rates for large employers were much lower than those for small or rural employers, and both rates for small and rural were similar. Despite the relatively high rates, only one positive alcohol test and no refusals were reported by both small and rural employers.

### Trends: 1996 through 2003

In 2001, FTA eliminated its requirement that all direct recipients report data each year, and developed a random sampling technique to select a portion of the recipients to report their data. Therefore, the only rates that can be reliably compared for each year of reporting (from 1996 to 2003) are random rates. The results actually reported in 2001 and 2002 do not accurately reflect total FTA testing due to the large proportion of results reported by large employers. Thus, the results from random testing were weighted to obtain "official" random rates that reasonably estimate the rate for all persons tested, enabling reliable comparison with the years before 2001 when all employers were required to report. Weighted rates are not available for any test types other than random or any subsets of random testing.

As shown in the following graph, the official random drug rate dropped in 2003 to the lowest rate (0.96 percent) since employers in all size categories were required to report, following its only rise (in 2002). The 2003 rate was 40 percent lower than the rate in 1996. As also shown in the next graph, the official random alcohol rate dropped by 50 percent in 2003 to 0.11 percent, by far the lowest rate since employers in all size categories were required to report.



Official Random Drug and Alcohol Rates: 1996 to 2003

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# **1. Introduction**

This report is the eighth annual summary of data submitted for entry in the Federal Transit Administration's (FTA) Drug and Alcohol Management Information System (DAMIS). The report summarizes data reported for calendar year 2003, and includes a comparison of official random drug and alcohol test rates for calendar years 1996 through 2003. DAMIS contains the data from all the drug and alcohol tests conducted under FTA regulations between 1996 and 2000, but contains data from only selected agencies for the years since 2000, as explained in Section 1.2. DAMIS also contains the data from all the tests conducted by large agencies in 1995.

FTA regulations require recipients and subrecipients of funding under Title 49 of United States Code (U.S.C.) Sections 5307, 5309, and 5311, and 23 U.S.C. Section 103(e)(4) and their contractors to implement and maintain a program to deter and detect use of prohibited drugs and misuse of alcohol by safety-sensitive employees, unless the recipient is also an operating railroad regulated by the Federal Railroad Administration (FRA).

Section 5307 of 49 U.S.C. refers to block grants to finance capital projects and the planning, improvement, and operating costs of equipment, facilities, and associated capital maintenance items for use in mass transportation.

Section 5309 refers to discretionary grants and loans for capital projects, new and existing fixed guideway systems, an efficient mass transportation system coordinated with other transportation systems, introduction of new technologies, enhancement of urban economic development or incorporation of private investment, and mass transportation projects to meet the needs of the elderly and persons with disabilities.

Section 5311 refers to financial assistance for non-urbanized areas.

Section 103(e)(4) of 23 U.S.C. refers to grants to bus transit systems that operate on Federal-aid highway systems.

# 1.1 Regulatory Background

FTA issued its first drug and alcohol testing regulations on February 15, 1994 as two separate rules: 49 CFR Part 653, *Prevention of Prohibited Drug Use in Transit Operations*, and 49 CFR Part 654, *Prevention of Alcohol Misuse in Transit Operations*. The FTA rules were issued in response to *The Omnibus Transportation Employee Testing Act*, enacted by Congress in 1991. They expanded the minimum uniform U.S Department of Transportation (DOT) testing program requirements published earlier in 1994 in 49 CFR Part 40, *Procedures for Transportation Workplace Drug and Alcohol Testing Programs*.

The Omnibus Testing Act was intended to promote the health and safety of transportation employees and the traveling public. It required all DOT administrations to issue regulations requiring funding recipients to perform

four types of testing of all safety-sensitive employees for five controlled substances and alcohol, and to establish a prescribed program of rehabilitation and follow-up testing for employees who are given the opportunity to return to safety-sensitive duty after testing positive or refusing to be tested. The Act also required recipients to follow the testing procedures established by the Department of Health and Human Services (DHHS).

DOT revised and reissued Part 40 in 2000, and amended certain provisions in 2003 and 2004. In 2001, FTA issued CFR Part 655, *Prevention of Alcohol Misuse and Prohibited Drug Use in Transit Operations*, to expand the revised department-wide minimum requirements to transit operations. Part 655 supersedes and combines Parts 653 and 654. Per the addition of Section 25 to Part 40 in 2003, a testing event includes test refusals but not canceled tests. The current Part 40 and 655 testing requirements are summarized in Chapter 2 of this report.

## **1.2 Reporting and Certification Requirements**

Part 655.72 eliminated the requirement that all direct funding recipients report their drug and alcohol testing program data to FTA annually. It requires that recipients report their data only if requested by FTA. In 2001, FTA developed a stratified random sampling technique to produce an accurate representation of the overall transit industry, in lieu of universal reporting. The intent was to reduce the paperwork burden on a portion of the industry.

Recipients requested to report must do so by March 15. The procedures for reporting in 2003 and the form to be used changed, per the addition of Section 26 and Appendix H of Part 40 (in July 2003). Recipients must either enter the data via internet on the FTA Office of Safety and Security web site: <a href="http://transit-safety.volpe.dot.gov/damis">http://transit-safety.volpe.dot.gov/damis</a>. The form, which appears in Appendix C, eliminates some of the previous requirements, but now requires submittal of refusal data by type of refusal for all test types.

All direct recipients must annually prepare and maintain a summary of the results of the DOT-regulated programs that they oversaw during the previous calendar year. All direct recipients must also annually certify regulatory compliance of those programs, and submit the certifications to their FTA regional office.

All grantees must ensure the accuracy and timeliness of each report submitted by their subrecipients. All direct recipients must ensure the accuracy and timeliness of each report submitted by a safety-sensitive contractor or subcontractor.

Failure of a recipient to establish a drug and alcohol testing program and to annually certify regulatory compliance and report information as requested,

either in its own operations or in those of a subrecipient or an entity operating on its behalf, may result in the suspension of FTA funding to the recipient. Falsifying compliance information or certifications is a criminal offense.

# 1.3 Reporting Assistance

Assistance on accessing the FTA Office of Safety and Security web site and using the internet reporting system is available from the FTA DAMIS Project Office at (617) 494-6336, <u>FTA.damis@volpe.dot.gov</u>. The FTA Safety and Security Clearinghouse can be reached at (617) 494-2108 for additional copies of this report, as well as previously published annual reports. Other technical assistance materials, including the *Implementation Guidelines for Drug and Alcohol Regulations in Mass Transit* and *Best Practices Manual: FTA Drug and Alcohol Testing Program*, can be obtained from the FTA Safety and Security Clearinghouse, (617) 494-2108, and on the web site: <u>http://transit-safety.volpe.dot.gov/damis</u>.

# 1.4 Data Analysis and Validation

Data submitted for entry in DAMIS are subjected to extensive analysis and validation, both manual and automated. The process entails detailed review of the consistency and reasonableness of the data in each report, identification of errors or questionable entries, and resolution of any problems in consultation with the reporting agencies. This process enables detection and correction of errors of significant magnitude. However, some statistically minor errors may remain.

# 1.5 Organization of Report

The remainder of this report contains five chapters and three appendices:

- *Chapter 2* presents an overview of the current Part 40 and 655 testing requirements, including descriptions of safety-sensitive functions, the types of tests to be performed, and the substances to be tested for.
- *Chapter 3* presents official random drug and alcohol rates for 2003, and compares them with those for 1996 through 2002.
- *Chapter 4* compares the results of the required drug and alcohol tests listed in Chapter 2 and pre-employment alcohol tests. The results are further compared by employer type (transit agencies and contractors), employer size (large, small, and rural), the employee categories listed in Chapter 2, FTA region, and drug type.
- *Chapter 5* summarizes the results of the tests (described in Chapter 2) that are required for employees returned to safety-sensitive duty

following a positive test or refusal, using the same categories of comparison as in Chapter 4.

- *Appendix A* lists the terms, and their definitions, associated with the FTA drug and alcohol testing program.
- *Appendix B* lists the ten FTA regions and states they cover.
- *Appendix C* is the MIS data collection form.

# 2. Overview of Part 40 and Part 655 Testing Requirements

This chapter summarizes the requirements of the FTA Drug and Alcohol Testing Program (in Section 2.1) and describes in detail FTA safety-sensitive functions, the tests required by FTA, and the drugs that safety-sensitive employees must be tested for (in Sections 2.2, 2.3, and 2.4, respectively).

### 2.1 Overview of Required Testing Program

Employees who perform any of five safety-sensitive functions must be tested for five controlled substances in four circumstances. Such employees must also be tested for alcohol use in each of those circumstances except pre-employment, though employers may, and many do, require pre-employment tests per Part 40 testing procedures. An additional circumstance (return to duty/follow-up) is required for safety-sensitive employees who are given an opportunity to resume safety-sensitive duties after testing positive for drugs or alcohol or refusing to submit to a required test.

Safety-Sensitive Employee Categories	Test Types	Drug Types
Revenue Vehicle Operation	Random	Marijuana
Revenue Vehicle and Equipment Maintenance	Post-accident	Cocaine
Revenue Vehicle Control/Dispatching	Reasonable suspicion	Phencyclidine (PCP)
CDL/Non-Revenue Vehicle	Pre-employment	Opiates
Armed Security Personnel	*Return to duty/follow-up	Amphetamines
See Section 2.2 for a detailed description of FTA safety-sensitive duties.	See Section 2.3 for a detailed description of tests required by FTA.	See Section 2.4 for a detailed description of the drugs to test for.

\*Required only for employees who test positive for drugs or alcohol or refuse to take a test

Any employee who has a verified positive drug test, has a confirmed alcohol test result of 0.04 or greater, or refuses to submit to a test must be immediately removed from safety-sensitive duty. The employee must then be informed of the resources available for evaluating and resolving problems associated with prohibited drug use and alcohol misuse, including the names, addresses, and telephone numbers of substance abuse professionals (SAPs). The employer then decides which disciplinary action to take. To return the employee to a safety-sensitive function, the employer must ensure that the employee successfully completes a course of treatment prescribed by a SAP and produces a negative return to duty test for drugs or alcohol or both, depending on the evaluation and recommendation of the SAP. Once returned to duty, the employee must continue a treatment program administered by the SAP, which includes a series of follow-up tests.

Part 40, Section 26 and Appendix H (added in 2003) identify four types of drug test refusals and two types of alcohol test refusals:

#### Drug test refusal types:

- Adulterated submittal of an adulterated specimen
- Substituted submittal of urine not produced at the collection site
- Shy bladder with no medical explanation failure to provide enough urine at the collection site, and no medical reason for the failure is found by the medical review officer (MRO)
- Other refusals to submit to testing Examples include failure to report to the collection site as directed by the employer, leaving the collection site without permission.

Alcohol test refusal types:

- Shy lung with no medical explanation failure to provide enough breath at the collection site, and no medical reason for the failure is found by the MRO
- Other refusals to submit to testing same examples as for drug tests

Additionally, an employee with a confirmed alcohol concentration of at least 0.02 but less than 0.04 must be removed from duty for at least 8 hours or until a re-test conducted by the employer shows an alcohol concentration of less than 0.02. If the employee is removed from duty for 8 hours, a re-test need not be administered unless the employee exhibits signs of alcohol use upon returning to duty.

Part 40 also prohibits use, manufacture, distribution, dispensing, and possession of all controlled substances by safety-sensitive employees. Furthermore, Parts 40 and 655 prohibit safety-sensitive employees from consuming alcohol in three circumstances:

- While performing a safety-sensitive function
- Four hours before performing a safety-sensitive function unless the employee produces a breath specimen with a concentration below 0.02 (Employees must be given the opportunity to acknowledge use of alcohol in the past 4 hours and to be tested when they arrive for duty.)
- Eight hours following an accident that meets FTA post-accident testing criteria (described in Section 2.3) or until an alcohol test is performed unless the employee's involvement can be completely discounted as a contributing factor to the accident and there were no fatalities

### 2.2 Safety-Sensitive Functions

The **revenue vehicle operation** safety-sensitive job category includes employees who operate a revenue service vehicle, regardless of whether it is in service. The **revenue vehicle and equipment maintenance** category includes employees who maintain revenue service vehicles or equipment. It also includes many maintenance contract employees who perform routine, ongoing repair or maintenance for FTA recipients and subrecipients that have employees, including supervisors, who perform or could be called upon to perform any of the FTA safety-sensitive functions. Maintenance contractors of 5311 funding recipients are not subject to the testing regulations. Additionally, recipients that operate in areas with a population of 200,000 or less and contract out maintenance services are no longer required to comply.

**Revenue vehicle control/dispatching** includes employees who control the movement of revenue service vehicles. The key consideration is the type of work performed rather than a particular job title. FTA decided not to attempt a universal definition of "dispatchers" in Part 655. Instead, each employer determines whether its particular dispatcher performs or may perform a safety-sensitive function.

**CDL/non-revenue vehicle** includes employees not included in another safetysensitive category who operate a non-revenue service vehicle (e.g., ancillary vehicle) that requires a Commercial Drivers License (CDL).

**Armed security personnel** are employees who provide security and carry a firearm.

# 2.3 Types of Tests

**Random testing** is considered by FTA to be the most effective deterrent to drug use and alcohol misuse, as well as the most reliable indicator of drug use and alcohol misuse within an employer and in the industry as a whole, provided it is unannounced and unpredictable. Selections for testing must be based on a scientifically valid random-number selection method, to ensure that all safetysensitive employees have an equal chance of being selected for testing each time a selection is made.

In 2003, the number of random drug tests conducted had to equal a minimum of 50 percent of the average number of safety-sensitive employees in the selection pool, and the number of alcohol tests had to equal a minimum of 10 percent of the pool. These percentages can be amended (per Part 655.45) by the FTA Administrator based on the combined percentage of positive tests plus test refusals, i.e.:

(verified drug positives + refusals) ÷ (total number of testing events<sup>1</sup>) (confirmed alcohol positives<sup>2</sup> + refusals) ÷ (total number of testing events)

<sup>&</sup>lt;sup>1</sup> Per the addition of Section 26 and Appendix H to Part 40 in 2003, a testing event includes test refusals but not canceled tests.

The testing rate for employers who belong to a consortium applies to the average number of safety-sensitive employees in the consortium's pool. As a result, some individual employers may not appear to meet the random testing requirement, but actually do meet the requirement as long as the consortium, as a whole, tests the minimum number required.

**Post-accident testing** refers to tests required following an accident involving a fatality or an accident that meets any of three other criteria and the employee's involvement cannot be completely discounted as a contributing factor: (1) when a person suffers a bodily injury and immediately receives medical attention away from the scene, (2) when any vehicle involved in the accident incurs damage requiring it to be transported away from the scene by a tow truck or other vehicle, or (3) the mass transit vehicle involved is a rail car, trolley car, trolley bus, or vessel and is removed from revenue service due to the accident.

Employees to be tested include the vehicle operator and any other safetysensitive employee not in the vehicle whose performance could have contributed to the accident. Both drug and alcohol tests must be administered as soon as possible, but no later than 8 hours after the accident for alcohol and 32 hours for drugs.

**Reasonable suspicion testing** refers to a drug and/or alcohol test that is ordered by a trained supervisor based on specific, contemporaneous, articulable observations concerning the appearance, behavior, speech, or body odor of a safety-sensitive employee.

**Pre-employment testing** refers to testing of candidates for a safety-sensitive position (including existing non-safety-sensitive employees as well as applicants for employment) and for employees who have not performed a safety-sensitive function for more than 90 consecutive calendar days, regardless of the reason, and were removed from the employer's random selection pool during that time. A negative pre-employment test for drugs is required by FTA as a condition for performing safety-sensitive duties under these circumstances. Pre-employment alcohol tests are not required but are permitted under Part 655 providing they are performed in accordance with the testing procedures in Part 40. The alcohol tests are included in the data presented in Chapter 3 because they are conducted per DOT standards and are required by many employers.

The Omnibus Testing Act required a negative pre-employment alcohol test, but FTA suspended the requirement on May 10, 1995, as the result of a U.S. Court of Appeals decision. FTA decided to allow but not require pre-employment alcohol testing in Part 655.

<sup>&</sup>lt;sup>2</sup> A positive alcohol test is a confirmed specimen with a breath alcohol level of at least 0.04.

Part 655 also eliminated the term "hire" in the pre-employment provision. Previously, employers were required to administer a drug test and receive a negative result before hiring an employee. FTA deleted the term to provide employers discretion to administer a pre-employment drug test anytime before an employee first performs a safety-sensitive function and before an employee returns to safety-sensitive duty after being removed from the random pool for an extended period. Part 655 also established a limit, 90 consecutive calendar days, on the amount of time an employee can be removed from the pool without a negative drug test before returning to work.

**Return to duty testing** refers to a drug and/or alcohol test that is required for a safety-sensitive employee who completes a course of treatment prescribed by a SAP after testing positive for drugs or alcohol or refusing to submit to a required test. A negative result for the type (drug or alcohol) of positive or refused test is required before the employee can be returned to duty. SAPs often require the employee to submit to both a drug and an alcohol test even if only one of the tests was at issue.

**Follow-up testing** refers to a drug or alcohol test that is required for an employee who is returned to safety-sensitive duty. The employee is subject to at least six unannounced tests for at least 12 months after returning to duty. The exact number and frequency of tests is prescribed by the SAP, who may order tests for up to 60 months after return to duty. SAPs often require the employee to submit to both a drug and an alcohol test even if only one of the tests was at issue. Follow-up testing is separate from, and in addition to, random testing. Part 655 incorporates follow-up testing under return to duty testing (i.e., return to duty/follow-up testing) as one of five required FTA tests. It was previously listed separately as one of six required FTA tests.

# 2.4 Types of Drugs

**Marijuana** is derived from the hemp plant and comes in a variety of colors such as green, brown, and a gray mixture of leaves. THC or (delta-9tetrahydrocannabinol) is the primary active chemical in marijuana. It is absorbed quickly into fatty tissues and stored for a long time. The potency and strength of the chemical causes people to use the drug for the mildly tranquilizing, mood and perception-altering effects it produces. The test for marijuana also includes its metabolites.

**Cocaine** is an addictive substance that comes from coca leaves, or is made synthetically. It appears as a white powder that is snorted, ingested, injected, freebased (smoked), or applied directly to the nasal membrane or gums. Cocaine acts as a stimulant to the central nervous system. It gives the user a feeling of exhilaration. The chemicals in cocaine trick the brain into feeling it has experienced pleasure, when in fact it has not.

**Phencyclidine (PCP)**, originally developed as an anesthetic, has adverse side effects that limit its medical use to a tranquilizer for large animals. In people, PCP acts as both a depressant and a hallucinogen, and sometimes as a stimulant. PCP can cause distorted bodily perceptions and a feeling of disassociation where the mind feels separated from the body. These effects can be very upsetting to some people, who may panic as a result.

**Opiates**, also known as narcotic analgesics, include heroin, morphine, and codeine. They are derived from a sap taken from a seedpod of the plant, "papaver somniferum" (or poppy plant). General effects include sedation, slowed reflexes, raspy speech, sluggish movements, slowed breathing, cold skin, and vomiting. The synthetic form of opiates, known as a designer drug, is even more deadly and addictive.

**Amphetamines** include racemic, amphetamine, extroamphetamine, and methamphetamine. They are potent stimulants that can be swallowed, snorted, or injected. They reduce the desire to sleep or eat and can induce a sense of aroused euphoria, accompanied by feelings of increased power, strength, energy, self-assertion, focus, and motivation. Because the body does not readily break down amphetamines, these feelings, which are often intense and ephemeral, may last several hours. Severe mental depression and fatigue can set in when the euphoric feelings wear off.

## 3. Random Drug and Alcohol Rates

As mentioned in Section 2.3, the results of random tests provide the best indication of the overall level of drug use and alcohol misuse, and the combined percentage of positive random tests plus random test refusals are used by FTA in determining minimum random testing rates for the following year. The test result rates for drugs and alcohol, respectively, that are used in determining the random testing rates for the following year are calculated as follows:

(verified drug positives + refusals) ÷ (total number of testing events<sup>3</sup>) (confirmed alcohol positives<sup>4</sup> + refusals) ÷ (total number of testing events)

### 3.1 Official Random Rates for 2003

The graph at right shows the "official" rates for random drug and random alcohol tests used by the FTA Administrator in determining the random testing rates for 2004. The accompanying table provides the statistical basis for the rates. These data are subdivided by employer type and size, employee category, and

2003 Random Rates				Random Tests, Positives, and							
	DRUGS	ALCOHOL		Refu <u>sals</u>							
	0.00				Drugs	Alcohol					
0.8	0.96			Testing Events	135,297	42,317					
				Refusals + Positives	1,299	48					
0.6				Positives	1,170	37					
				Total Refusals	129	11					
0.4				Refusal to take test	83	8					
				Shy Bladder/ Lung	27	3					
0.2				Adulterated	15	N. A.					
				Substituted	4	N. A.					
		0.11		Refusal Rate	0.095	0.026					
%											

FTA region and are compared with data from post-accident, reasonable suspicion, and pre-employment tests in Chapter 4. The refusal data are also subdivided by the types of refusals (defined in Section 2.1) in Chapter 4.

Because the official random drug rate for 2002 was above 1.0 percent (as shown in the graph in Section 3.2), the random testing rate for drugs remained at 50 percent in 2004, despite the drop below 1.0 percent in 2003. If the rate remains below 1.0 percent in 2004, the FTA Administrator will have the option to reduce the random drug test rate for 2005 to 25 percent of all safety-sensitive employers. Because the 2003 alcohol rate remained well below 0.50 percent, the random testing quota for alcohol remained at 10 percent in 2004.

<sup>&</sup>lt;sup>3</sup> Per the addition of Section 26 to Part 40 in 2003, a testing event includes test refusals but not canceled tests.

<sup>&</sup>lt;sup>4</sup> A positive alcohol test is a confirmed specimen with a breath alcohol level of at least 0.04.

#### 3.2 Official Random Rate Trends

Because the data reporting requirement changed in 2001, the only rates that can be reliably compared for each year of reporting (from 1996 to 2003) are random rates. The results actually reported in 2001 and 2002 did not accurately reflect total FTA testing due to the high proportion of results reported by large employers. The results from random testing were weighted to obtain "official" random rates that reasonably estimate the rate for all persons tested, enabling reliable comparison with the years before 2001 when all employers were required to report. Weighted rates are not available for any test types other than random or any subsets of the random testing.

As shown in the following graph, the official random drug rate dropped in 2003 to the lowest rate (0.96 percent) since employers in all size categories were required to report, following its only rise (in 2002). The 2003 rate was 40 percent lower than the rate in 1996.

As also shown in the next graph, the official random alcohol rate dropped by 50 percent in 2003 to 0.11 percent, by far the lowest rate since employers in all size categories were required to report.



#### Official Random Drug and Alcohol Test Rates: 1996 to 2003

# 4. Drug and Alcohol Data for Four Required Test Types

This chapter presents data from the four circumstances cited in Chapter 2 that must be performed by all employers subject to Part 655<sup>5</sup>: random, post-accident, reasonable suspicion, and pre-employment. Data from the other testing circumstance cited in Chapter 2 (return to duty tests and follow-up tests) are presented separately (in Chapter 5) from data for the other four test types because that test type represents a different segment of the test population specimens produced by persons who have already been removed from duty for drug or alcohol violations and have completed a rehabilitation program—and not all employers offer rehabilitation.

The following two charts compare the combined percentage of positive tests plus test refusals and the percentages of total drug tests reported in 2003 for each of the four test types. The two charts on the next page compare the combined percentage of positive tests plus test refusals and percentages of total alcohol tests reported in 2003 for each of the four test types. The combined percentages of positive tests plus are calculated as follows:

(verified drug positives + refusals) ÷ (total number of testing events<sup>6</sup>) (confirmed alcohol positives<sup>7</sup> + refusals) ÷ (total number of testing events)



<sup>&</sup>lt;sup>5</sup> Part 655 does not require pre-employment alcohol testing. It is included in this chapter because many employers require it, and Part 655 requires that the data be reported if the tests are performed.

<sup>&</sup>lt;sup>6</sup> Per the addition of Section 26 and Appendix H to Part 40 in 2003, a testing event includes test refusals but not canceled tests.

<sup>&</sup>lt;sup>7</sup> A positive alcohol test is a confirmation test with a breath alcohol level of at least 0.04.



The rates<sup>8</sup> for each of the four test types and for the four types combined, for both drugs and alcohol, appear in the graph at right. The table below provides the statistical basis for the rates. These data are subdivided by employer type and size, employee category, FTA region, and type of drug in Sections 4.1, 4.2, 4.3, and 4.4, respectively. Confirmed alcohol specimens between 0.02 and 0.039 are presented by test type in Section 4.5 and are subdivided by employer type, employer size, employee category, and FTA region.



RS = Reasonable Suspicion	P-E = Pre-Employment	Comb = Combined
---------------------------	----------------------	-----------------

			Drugs			Alcohol						
	Random	Post- Accident	Reasonable Suspicion	Pre- Employment	Total	Random	Post- Accident	Reasonable Suspicion	Pre- Employment	Total		
Testing Events	135,297	13,715	657	65,774	215,443	42,317	12,490	620	9,672	65,099		
Refusals + Positives	1,299	224	60	1,651	3,234	48	24	73	9	154		
Positives	1,170	204	55	1,562	2,991	37	10	68	8	123		
Total Refusals	129	20	5	89	243	11	14	5	1	31		
Refusal to take test	83	16	4	59	162	8	11	5	0	24		
Shy Bladder/Lung	27	2	1	4	34	3	3	0	1	7		
Adulterated	15	0	0	15	30	N. A.	N. A.	N. A.	N. A.	N. A.		
Substituted	4	2	0	11	17	N. A.	N. A.	N. A.	N. A.	N. A.		
Refusal Rate	0.095	0.146	0.761	0.135	0.113	0.026	0.112	0.806	0.010	0.048		

#### Tests, Positives, and Refusals by Test Type

<sup>8</sup> The rates in all of the graphs are the combined percentages of positive tests plus test refusals.

#### 4.1 Data for Four Test Types by Employer Type and Size

The data above are subdivided by employer type, by employer size, and by employer size and type combined, respectively, in this section. The rates for each data set are shown in a separate pair of graphs. Each graph pair is followed by a table or tables that provide the statistical basis for the rates.

Because all of the alcohol rates by employer type except reasonable suspicion are less than 0.5 percent, the space below "0.5" in the following alcohol graph is expanded under the divider line to allow greater clarity.



Rates by Test Type and Employer Type

#### Tests, Positives, and Refusals by Test Type and Employer Type

					Dr	ugs				
	Ran	dom	Post-A	ccident	Reasonab	le Suspicion	Pre-Em	oloyment	Total	
	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor
Testing Events	108,239	27,058	10,753	2,962	486	171	37,597	28,177	157,075	58,368
Refusals + Positives	847	452	123	101	32	28	683	968	1,685	1,549
Positives	771	399	115	89	28	27	655	907	1,569	1,422
Total Refusals	76	53	8	12	4	1	28	61	116	127
Refusal to take test	47	36	5	11	3	1	19	40	74	88
Shy Bladder	19	8	1	1	1	0	1	3	22	12
Adulterated	6	9	0	0	0	0	4	11	10	20
Substituted	4	0	2	0	0	0	3	8	9	8
Refusal Rate	0.070	0.196	0.074	0.405	0.823	0.585	0.074	0.216	0.074	0.218

					Alc	ohol				Alcohol											
	Ran	dom	Post-A	ccident	Reasonab	le Suspicion	Pre-Em	oloyment	Total												
	Transit Contra		Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor											
Testing Events	34,446	7,871	10,038	2,452	462	158	6,650	3,022	51,596	13,503											
Refusals + Positives	40	8	14	10	45	28	6	3	105	49											
Positives	32	5	8	2	44	24	5	3	89	34											
Total Refusals	8	3	6	8	1	4	1	0	16	15											
Refusal to take test	5	3	3	8	1	4	0	0	9	15											
Shy Lung	3	0	3	0	0	0	1	0	7	0											
Refusal Rate	0.023	0.038	0.060	0.326	0.216	2.532	0.015	0	0.031	0.111											

Tests, Positives, and Refusals by Test Type and Employer Type

Because the reasonable suspicion drug rates by employer size are much higher than those for the other types, separate scales are used in the following graph.



Because all of the alcohol rates by employer size except reasonable suspicion are less than 0.3 percent, the space below "0.3" in the following alcohol graph is expanded under the divider line to allow greater clarity.



#### Tests, Positives, and Refusals by Test Type and Employer Size

								Drug	5						
	F	Random		Pos	t-Accide	ent	Reason	able Su	spicion	Pre-E	Employr	nent	Total		
	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural
TE	108,735	8,556	18,006	11,592	1,104	1,019	559	43	55	49,860	4,678	11,236	170,746	14,381	30,316
R+P	1,063	89	147	196	15	13	41	5	14	1,363	111	177	2,663	220	351
Р	967	76	127	178	13	13	39	5	11	1,290	102	170	2,474	196	321
TR	96	13	20	18	2	0	2	0	3	73	9	7	189	24	30
RTT	60	7	16	14	2	0	1	0	3	50	5	4	125	14	23
SB	18	6	3	2	0	0	1	0	0	2	1	1	23	7	4
Adul	14	0	1	0	0	0	0	0	0	15	0	0	29	0	1
Sub	4	0	0	2	0	0	0	0	0	6	3	2	12	3	2
R Rate	0.088	0.152	0.111	0.155	0.181	0.000	0.358	0.000	5.455	0.146	0.192	0.062	0.111	0.167	0.099
	Alcohol														
	R	andom		Pos	st-Accide	ent	Reaso	nable S	uspicior	n Pre-	-Employ	ment	Total		
	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural
TE	34,699	2,530	5,088	10,853	899	738	538	40	42	8,290	456	926	54,380	3,925	6,794
R+P	35	4	9	23	0	1	60	6	7	8	0	1	126	10	18
Р	29	4	4	10	0	0	56	6	6	7	0	1	102	10	11
TR	6	0	5	13	0	1	4	0	1	1	0	0	24	0	7
RTT	4	0	4	11	0	0	4	0	1	(	0 (	0	19	0	5
SL	2	0	1	2	0	1	0	0	0	1	0	0	5	0	2
R Rate	0.017	0.000	0.098	0.120	0.000	0.136	0.743	0.000	2.381	0.012	0	0	0.044	0.000	0.103
TE = tes	sting events	P	= positives	R÷	refusals	•	TR = tot	al refusals	6 F	R Rate = re	fusal rate	•	•	•	·
RTT = r	efusal to take	e test	SL = sh	ny lung	SB = sł	ny bladde	r Ad	ul = adul	terated	Sub =	substitute	ed			

Because four of the reasonable suspicion drug rates by employer size and employer type are much higher than those for the other types, the reasonable suspicion rates are presented on separate scales in the following graph.



Because all of the alcohol rates by employer size and employer type except the reasonable suspicion rates are less than 0.5 percent, the space below "0.5" in the following alcohol graph is expanded under the divider line to allow greater clarity. Additionally, the following graph does not contain columns for employer size that show a rate of "0" in the preceding test type/employer size graph.



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		, i oon	vc3, unu			cotiy	<i>,</i> בוויך		ize, and					
				Dru	-	_		Alcohol Large Small Rural						
			rge		nall		iral	La	-		r –			
		Transit	Contractor		Contractor		Contractor		Contractor	Transit	Contractor	Transit	Contractor	
	TE	85,550	23,185	6,405	2,151	16,284	1,722	27,875	6,824	1,974	557	4,597	491	
	R+P	661	402	57	32	129	18	28	7	4	0	8	1	
	Р	611	356	51	25	109	18	25	4	4	0	3	1	
Random	TR	50	46	6	7	20	0	3	3	0	0	5	0	
Rahuum	RTT	26	34	5	2	16	0	1	3	0	0	4	0	
	SB Adul	15 5	3	1	5	3	0	2 N. A.	0 N. A.	0 N. A.	0 N. A.	1 N. A.	0 N. A.	
	Sub	4	9	0	0	0		N. A. N. A.	N. A. N. A.	N. A. N. A.	N. A. N. A.	N. A. N. A.	N. A.	
			0.198	0.094	0.325	0.123	0	0.011	0.044	0	0	0.109	0	
	TE	8,917	2,675	915	189	921	98	8,578	2,275	780	119	680	58	
	R+P	104	92	9	6	10	3	13	10	0	0	1	0	
	P	96	82	9	4	10	3	8	2	0	0	0	0	
Post-	TR	90 8	10	0	4	0	0	5	2	0	0	1	0	
Accident	RTT	5	9	0	2	0	0	3	8	0	0	0	0	
Accident	SB	1	1	0	0	0	0	2	0	0	0	1	0	
	Adul	0	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	Sub	2	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	R Rate	0.090	0.374	0	1.058	0	0	0.058	0.352	0	0	0.147	0	
	TE	410	149	27	16	49	6	402	136	25	15	35	7	
	R+P	19	22	1	4	12	2	34	26	4	2	7	0	
	Р	18	21	1	4	9	2	34	22	4	2	6	0	
Reasonable	TR	1	1	0	0	3	0	0	4	0	0	1	0	
Suspicion	RTT	0	1	0	0	3	0	0	4	0	0	1	0	
	SB	1	0	0	0	0	0	0	0	0	0	0	0	
	Adul	0	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	Sub	0	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	R Rate	0.244	0.671	0	0	6.122	0	0	2.941	0	0	2.857	0	
	TE		25,005		1,928	9,992	1,244	5,439	2,851	362	94	849	77	
	R+P	479	884	47	64	157	20	5	3	0	0	1	0	
	P	462	828	42	60	151	19	4	3	0	0	1	0	
Pre-	TR	17	56	5	4	6	1	1	0	0	0	0	0	
Employment	RTT SB	12 0	38 2	3	2	4	0	0	0	0	0	0	0	
	Adul	4		0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	Sub	1	5	2	1	1	1	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	R Rate	0.068	0.224	0.182	0.207	0.060	0.080	0.018	0	0	0	0	0	
	TE	119.732	51,014	10.097	4.284	27.246	3.070	42,294	12.086	3.141	785	6,161	633	
	R+P	1,263	-	114	106	308	43	80	46	. 8	2	17	1	
	P	1,263	,	114	106	308	43	80	46	8	2	17	1	
	TR	1,187		103	93	279	42	71	31	8	2	10	1	
Total	RTT	43	-	8	6	23	0	4	15	0	0	5	0	
	SB	17		1	6	4	0	5	0	0	0	2	0	
	Adul	9		0	0	1	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	Sub	7	-	2	1	1	1	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
	R Rate	0.063	0.222 Vehicle Ope	0.109	0.303	0.106	0.033	0.021 Vehicle and	0.124	0	0	0.114	0.000	

#### Tests, Positives, and Refusals by Test Type, Employer Size, and Employer Type

 RVO = Revenue Vehicle Operation
 RV&EM = Revenue Vehicle and Equipment Maintenance

 RVC/D = Revenue Vehicle Control/Dispatching
 CDL/N-RV = CDL/Non-Revenue Vehicle
 ASP = Armed Security Personnel

 TE = testing events
 P = positives
 R = refusals
 TR = total refusals
 R Rate = refusal rate

RTT = refusal to take test SB = shy bladder Adul = adulterated Sub = substituted

#### 4.2 Data for Four Test Types by Employee Category

The next two graphs show the rates for each test type, as well as the rates for all four types combined, by employee category for drug tests and for alcohol tests, respectively. Because all of the alcohol rates except reasonable suspicion are less than 0.6 percent, the space below "0.6" in the alcohol graph is expanded under the divider line to allow greater clarity. The table on the next page provides the statistical basis for the rates. These data are subdivided by employer type and by employer size later in this section.





#### Rates by Test Type and Employee Category

RVO = Revenue Vehicle Operation

RVC/D = Revenue Vehicle Control/Dispatching

CDL/N-RV = CDL/Non-Revenue Vehicle

RV&EM = Revenue Vehicle and Equipment Maintenance

ASP = Armed Security Personnel
		16313, F	05111765,		usais by	lest type	e and Employee Category				
				Drugs	,				Alcohol	1	
<b></b>		RVO	RV&EM	RVC/D	CDL/N-RV	ASP	RVO	RV&EM	RVC/D	CDL/N-RV	ASP
	TE	92,496	27,602	9,515	3,189	2,495	28,702	8,587	2,882	1,254	892
	R+P	932	266	58	34	9	34	9	1	3	1
	Р	843	240	50	32	5	24	9	0	3	1
Dandam	TR	89	26	8	2	4	10	0	1	0	0
Random	RTT	55	19	5	0	4	7	0	1	0	0
	SB	22	2	1	2	0	3	0	0	0	0
	Adul Sub	10 2	3	2	0	0	N. A. N. A.	N. A. N. A.	N. A. N. A.	N. A. N. A.	N. A. N. A.
	R Rate	0.096	0.094	0.084	0.063	0.160	0.035	0	0.035	0	0
	TE	12,783	630	107	91	104	11,719	539	89	79	64
				0				3	09	0	04
	R+P	203	15		6	0	21				
	Р	185	13	0	6	0	10	0	0	0	0
Post-	TR RTT	18 14	2	0	0	0	11 9	3	0	0	0
Accident	SB	2	0	0	0	0	2	1	0	0	0
	Adul	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.
	Sub	2	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.
	R Rate	0.141	0.317	0	0	0	0.094	0.557	0	0	0
	TE	519	89	28	20	1	491	82	33	14	0
	R+P	49	10	1	0	0	58	9	2	4	0
Reasonable	Р	46	9	0	0	0	56	7	1	4	0
	TR	3	1	1	0	0	2	2	1	0	0
Suspicion	RTT	2	1	1	0	0	2	2	1	0	0
	SB	1	0	0	0	0	0	0	0	0	0
	Adul	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.
	Sub	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.
	R Rate	0.578	1.124	3.571	0		0.407	2.439	3.030	0	0
	TE	54,936	6,271	2,197	903	1,467	7,671	1,120	285	154	442
	R+P	1,413	127	57	28	26	9	0	0	0	0
	P	1,339	122	53	24	24	8	0	0	0	0
Pre-	TR	74	5	4	4	2	1	0	0	0	0
Employment	RTT	47	4	3	3	2	0	0	0	0	0
	SB	3	1	0	0	0	1	0	0	0	0
	Adul	13	0	1	1	0	N.A.	N. A.	N. A.	N.A.	N. A.
	Sub	11	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.
	R Rate		0.080	0.182	0.443	0.136	0.013	0	0	0	0
	TE	160,734		11,847	4,203	4,067	48,583	10,328	3,289	1,501	1,398
	R+P	2,597	418	116	68	35	122	21	3	7	1
	P	2,413	384	103	62	29	98	16	1	7	1
Total	TR	184	34	13	6	6	24	5	2	0	0
	RTT	118	26	9	3	6	18	4	2	0	0
	SB Adul	28 23	3	1	2	0	6 N. A.	N. A.	N. A.	0 N. A.	0 N. A.
	Sub	15	2	0	0	0	N. A.	N. A.	N. A.	N. A. N. A.	N. A.
	R Rate	0.114	0.098	0.110	0.143	0.148	0.049	0.048	0.061	0	0
		) = Revenue \					e Vehicle and E				

### Tests, Positives, and Refusals by Test Type and Employee Category

 RVO = Revenue Vehicle Operation
 RV&EM = Revenue Vehicle and Equipment Maintenance

 RVC/D = Revenue Vehicle Control/Dispatching
 CDL/N-RV = CDL/Non-Revenue Vehicle
 ASP = Armed Security Personnel

 TE = testing events
 P = positives
 R = refusals
 TR = total refusals
 R Rate = refusal rate

 RTT = refusal to take test
 SB = shy bladder
 Adul = adulterated
 Sub = substituted

### 4.2.1 Data for Four Test Types by Employee Category and Employer Type

The following series of graphs subdivide the preceding test type/employee category rates by employer type. Two graphs, one for drugs and one for alcohol, are presented for the four test types combined and for each test type. They show the rates by employer type for each employee category. This series of graphs is followed by two tables that provide the statistical basis for the rates.





The following graphs do not contain columns for employee categories that show a rate of "0" in the test type/employee category graphs on page 4-8. Some of the rates in two of those graphs are presented on a separate scale because their sample sizes are too small to be representative of their populations.



### Pre-Employment Rates by Employee Category and Employer Type



RVC/D = Revenue Vehicle Control/Dispatching CDL/N-RV = CDL/Non-Revenue Vehicle ASP = Armed Security Personnel

		Drugs									
		Ran	dom	Post-A	ccident		e Suspicion	Pre-Emp	oloyment	Тс	otal
		Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor
	TE	72,705	19,791	10,003	2,780	368	151	31,060	23,876	114,136	46,598
	R+P	583	349	110	93	22	27	582	831	1,297	1,300
	Р	528	315	104	81	20	26	558	781	1,210	1,203
RVO	TR	55	34	6	12	2	1	24	50	87	97
	RTT	34	21	3	11	1	1	16	31	54	64
	SB Adul	17	5	1	1	1	0	2	1	21	7
	Sub	2	8	0	0	0	0	3	10 8	5	18 8
	R Rate	0.076	0.172	0.060	0.432	0.543	0.662	0.077	0.209	0.076	0.208
	TE	23,256	4,346	526	104	75	14	4,054	2,217	27,911	6,681
	R+P	20,200	63	8	7	9	1	4,004 61	66	281	137
	P	187	53			8		61	61	262	122
	TR	187	10	6 2	7 0	8 1	1 0	0	5	19	122
RV&EM	RTT	10	9	2	0	1	0	0	4	13	13
	SB	1	1	0	0	0	0	0	1	1	2
	Adul	3	0	0	0	0	0	0	0	3	0
	Sub	2	0	0	0	0	0	0	0	2	0
	R Rate	0.069	0.230	0.380	0	1.333	0	0	0.226	0.068	0.225
	TE	7,471	2,044	81	26	23	5	1,223	974	8,798	3,049
-	R+P	32	26	0	0	1	0	10	47	43	73
	Р	28	22	0	0	0	0	10	43	38	65
	TR	4	4	0	0	1	0	0	4	5	8
RVC/D	RTT	3	2	0	0	1	0	0	3	4	5
	SB Adul	0	1	0	0	0	0	0	0	0	1
	Sub	0	0	0	0	0	0	0	0	0	0
	R Rate	0.054	0.196	0	0	4.348	0	0	0.411	0.057	0.262
	TE	2,748	441	79	12	20	0	653	250	3,500	703
	R+P	27	7	5	1	0	0	26	2	58	10
	P	26	6	5	1	0	0	22	2	53	9
	TR	1	1	0	0	0	0	4	0	5	1
CDL/N-RV	RTT	0	0	0	0	0	0	3	0	3	0
	SB	1	1	0	0	0	0	0	0	1	1
	Adul	0	0	0	0	0	0	1	0	1	0
	Sub R Rate	0.036	0 0.227	0 0	0	0	0	0 0.613	0	0 0.143	0 0.142
						-			-		
	TE	2,059	436	64	40	0	1	607	860	2,730	1,337
	R+P	2	7	0	0	0	0	4	22	6	29
	Р	2	3	0	0	0	0	4	20	6	23
ASP	TR	0	4	0	0	0	0	0	2	0	6
-	RTT SB	0	4	0	0	0	0	0	2	0	6 0
	Adul	0	0	0	0	0	0	0	0	0	0
	Sub	0	0	0	0	0	0	0	0	0	0
	R Rate	0	0.917	0	0	0	0	0	0.233	0	0.449
			Vehicle Oper	ation	D\/8	EM - Dovonu	e Vehicle and I		intonanco		•

### Tests, Positives, and Refusals by Test Type, Employee Category, and Employer Type

RVO = Revenue Vehicle Operation RV&EM = Revenue Vehicle and Equipment Maintenance

RVC/D = Revenue Vehicle Control/Dispatching CDL/N-RV = CDL/Non-Revenue Vehicle ASP = Armed Security Personnel R Rate = refusal rate

TE = testing events P = positives R = refusals TR = total refusals RTT = refusal to take test SB = shy bladder Adul = adulterated Sub = substituted

							ohol				
		Ran	dom	Post-A	ccident	Reasonabl	e Suspicion	Pre-Emp	oloyment	Тс	otal
		Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contracto
	TE	23,022	5,680	9,376	2,343	359	132	5,082	2,589	37,839	10,744
	R+P	30	4	12	9	36	22	6	3	84	38
	Р	22	2	8	2	36	20	5	3	71	27
RVO	TR	8	2	4	7	0	2	1	0	13	11
	RTT	5	2	2	7	0	2	0	0	7	11
	SL	3	0	2	0	0	0	1	0	6	C
	R Rate	0.035	0.035	0.043	0.299	0.000	1.515	0.020	0	0.034	0.102
	TE	7,288	1,299	466	73	67	15	937	183	8,758	1,570
	R+P	7	2	2	1	5	4	0	0	14	7
	Р	7	2	0	0	4	3	0	0	11	5
RV&EM	TR	0	0	2	1	1	1	0	0	3	2
	RTT	0	0	1	1	1	1	0	0	2	2
	SL	0	0	1	0	0	0	0	0	1	0
	R Rate	0	0	0.429	1.370	1.493	6.667	0	0	0.034	0.127
	TE	2,252	630	67	22	24	9	214	71	2,557	732
	R+P	0	1	0	0	0	2	0	0	0	3
	Р	0	0	0	0	0	1	0	0	0	1
	TR	0	1	0	0	0	1	0	0	0	2
	RTT	0	1	0	0	0	1	0	0	0	2
	SL	0	0	0	0	0	0	0	0	0	0
	R Rate	0	0.159	0	0	0	11.111	0	0	0	0.273
	TE	1,125	129	74	5	12	2	132	22	1,343	158
	R+P	2	1	0	0	4	0	0	0	6	1
	Р	2	1	0	0	4	0	0	0	6	1
CDL/N-RV	TR	0	0	0	0	0	0	0	0	0	0
	RTT	0	0	0	0	0	0	0	0	0	0
	SL	0	0	0	0	0	0	0	0	0	0
	R Rate	0	0	0	0	0	0	0	0	0	0
	TE	759	133	55	9	0	0	285	157	1,099	299
	R+P	1	0	0	0	0	0	0	0	1	0
	Р	1	0	0	0	0	0	0	0	1	0
ASP	TR	0	0	0	0	0	0	0	0	0	0
	RTT	0	0	0	0	0	0	0	0	0	0
	SL	0	0	0	0	0	0	0	0	0	0
F	R Rate	0	0	0	0	0	0	0	0	0	0

### Tests, Positives, and Refusals by Test Type, Employee Category, and Employer Type

### 4.2.2 Data for Four Test Types by Employee Category and Employer Size

The following series of graphs subdivide the test type/employee category rates by employer size. Two graphs, one for drugs and one for alcohol, are presented for the four test types combined and for each test type. This series of graphs is followed by two tables that provide the statistical basis for the rates.

*These graphs do not contain columns for employee categories that show a rate of "0" in the test type/employee category graphs on page 4-8.* 



Rates for Four Test Types Combined by Employee Category and Employer Size

Two of the rates in the next drug graph are presented on a separate scale because their sample sizes are too small to be representative of their populations.





Two of the rates in the next drug graph and two of the rates in the next alcohol graph are presented on a separate scale because their sample sizes are too small to be representative of their populations.



### Reasonable Suspicion Rates by Employee Category and Employer Size





		Drugs														
		F	Random	ı	Post-	Accide	ccident Reasonable Suspicion Pre-Employment					ment	Total			
		Large	Small	Rural	Large			Large	Small	Rural	Large	Small	Rural	Large	Small	Rural
	TE	71.813	6.542	14,141	10,811		977	444	38	37	40.734	4.150	10.052	123,802	11.725	25.207
	R+P	741	71	120	178	13	12	34	5	10	1,145	108	160	2,098	197	302
	P	680	60	103	162	11	12	32	5	9	1,086	99	154	1,960	175	278
	' TR	61	11	17	16		0	2	0	1	59	9	6		22	24
RVO	RTT	35	5	15	10	2	0	1	0	1	39	5	3		12	
	SB	14	6	2	2	0	0	1	0	0	1	1	1	18	7	3
	Adul	10	0	0	0	0	0	0	0	0	13	0	0	23	0	0
	Sub	2	0	0	2	0	0	0	0	0	6	3	2	10	3	_
	R Rate		0.168	0.120		0.201	0	0.450	0	2.703	0.145	0.217	0.060	0.111	0.188	0.095
		25,194	1,079	1,329	515	96	19	79	4	6	5,517	340	414	31,305	1,519	1,768
	R+P	241	11	14	13	2	0	7	0	3	120	1	6	381	14	23
	Ρ	218	10	12	11	2	0	7	0	2	115	1	6	351	13	20
RV&	TR	23	1	2	2	0	0	0	0	1	5	0	0	30	1	3
EM	RTT	17	1	1	2	0	0	0	0	1	4	0	0	23	1	2
	SB	2	-	0	0	0	0	0	0	0	1	0	0	3	0	0
	Adul Sub	2	0	1	0	0	0	0	0	0	0	0	0	2	0	1
	R Rate		0.093	0.150	0.388	0	0	0	0	16.667	-	0	0	0.096	0.066	0.170
	TE	6,733	824	1,958	95	3	9	25	1	2	1,552	130	515	8,405	958	2,484
	R+P	44	7	7	0	0	0	0	0	1	50	2	5	94	9	13
	P	37	6	7	0	0	0	0	0	0	46	2	5	83	8	12
RVC	' TR	7	1	0	0	0	0	0	0	1	4	0	0	11	1	1
/D	RTT	4	1	0	0	0	0	0	0	1	3	0	0	7	1	1
10	SB	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Adul	2	0	0	0	0	0	0	0	0	1	0	0	3	0	0
	Sub	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	R Rate		0.121	0	0	0	0	0	0	50.00	0.258	0	0	0.131	0.104	0.040
	TE	2,539	82	568	74	4	13	10	0	10	592	56	255	3,215	142	846
	R+P	28	0	6	5	0	1	0	0	0	22	0	6	55	0	13
CDL	Ρ	27	0	5		0	1	0	0	0	19	0	5	51	0	11
/N-	TR	1	0	1	0	0	0	0	0	0	3	0	1	4	0	2
RV	RTT SB	0	0	0	0	0	0	0	0	0	2	0	1 0	2	0	1
	Adul	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
	Sub	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	R Rate	0.039	0	0.176	0	0	0	0	0	0	0.507	0.000	0.392	0.124	0	0.236
	TE	2,456	29	10	97	6	1	1	0	0	1,465	2	0	4,019	37	11
	R+P	9	0	0	0	0	0	0	0	0	26	0	0	35	0	0
	P	5	0	0	0	0	0	0	0	0	24	0	0	29	0	0
	TR	4	0	0	0	0	0	0	0	0	2	0	0	6	0	0
ASP	RTT	4	0	0	0	0	0	0	0	0	2	0	0	6	0	0
	SB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Adul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sub P Pato	0 0.163	0	0	0	0	0	0	0	0	0 0.137	0	0	0 0.149	0	0
	r rate		-	-	Operation	-	U	-	-	-	le and Equi	-	-		U	U
	RVC/D =	Revenue =			•		CDI /N		)L/Non-R			•		ed Security F	ersonnel	
		ting events		P = positiv	-	R = ref			R = tota			, ate = refu				
		-			hv bladder											

### Tests, Positives, and Refusals by Test Type, Employee Category, and Employer Size

RTT = refusal to take test SB - shy bladder Adul = adulterated Sub = substituted

		Alcohol														
		R	landom		Pos	t-Accide	ent	Reaso	nable Su	ispicion	Pre-l	Employı	ment		Total	
		Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural
	TE	22,878	1,916	3,908	10,194	822	703	422	35	34	6,487	394	790	39,981	3,167	5,435
	R+P	22	4	8	20	0	1	48	5	5	8	0	1	98	9	15
-	Р	17	4	3	10	0	0	46	5	5	7	0	1	80	9	9
RVO	TR	5	0	5	10	0	1	2	0	0	1	0	0	18	0	6
	RTT	3	0	4	9	0	0	2	0	0	0	0	0		0	4
	SL	2	0	1	1	0	1	0	0	0	1	0	0		0	2
	R Rate	0.022	0	0.128	0.098	0	0.142	0.474	0	0	0.015	0	0	0.045	0	0.110
	TE	7,861	325	401	452	71	16	73	4	5	1,028	45	47	9,414	445	469
	R+P	8	0	1	3	0	0	6	1	2	0	0	0	17	1	3
RV&	Р	8	0	1	0	0	0	5	1	1	0	0	0	13	1	2
EM	TR	0	0	0	3	0	0	1	0	1	0	0	0	4	0	1
	RTT	0	0	0	2	0	0	1	0	1	0	0	0	3	0	1
	SL	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
	R Rate	0	0	0	0.664	0	0	1.370	0	20.00	0	0	0	0.042	0.000	
	TE	2,023	251	608	76	3	10	30	1	2	215	13	57	2,344	268	677
	R+P	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0
RVC	Р	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
/D	TR	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0
	RTT	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0
	SL D. Data	0 0.049	0	0	0	0	0	0 3.333	0	0	0	0	0	0 0.085	0	0
	R Rate		-	-	-	-	-		-		-	-	÷		-	-
	TE	1,054	30	170	67	3	9	13	0	1	118	4	32	1,252	37	212
CDL	R+P	3	0	0	0	0	0	4	0	0	0	0	0	7	0	0
/N-	Р	3	0	0	0	0	0	4	0	0	0	0	0	7	0	0
RV	TR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.1.1	RTT SL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	R Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TE	883	8	1	64	0	0	0	0	0	442	0	0	1,389	8	1
	R+P	1	0	0	0	0	0	0	0	0	0	0	0	1,000	0	0
	P	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
ASP	TR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RTT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	R Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TE =	RVO = Revenue Vehicle Operation       RV&EM = Revenue Vehicle and Equipment Maintenance         RVC/D = Revenue Vehicle Control/Dispatching       CDL/N-RV = CDL/Non-Revenue Vehicle       ASP = Armed Security Personnel         TE = testing events       P = positives       R = refusals       TR = total refusals       RTT = refusal to take test       SL - shy lung       R Rate = refusal rate															

Tests, Positives, and Refusals by Test Type, Employee Category, and Employer Size

## 4.3 Data for Four Test Types by FTA Region

The drug rates and alcohol rates for all four test types combined and random tests are shown by FTA region on the next four maps. The shading variations provide quick comparison. The exact rates are also included. The statistical basis for the rates is provided in the accompanying tables. The rates for post-accident, reasonable suspicion, and pre-employment tests appear in tables following the maps, along with the statistical basis for those rates. Data on the individual types of refusals follow the other data tables. The data by region are subdivided by employer type and employer size in Sections 4.3.1 and 4.3.2, respectively.



Drug Rates for Four Test Types Combined by FTA Region

Alcohol Rates for Four Test Types Combined by FTA Region



Random Drug Rates by FTA Region



Total Drug Tests, Positives, and Refusals for Four Test Types by Region

FOUI	Testi	/pes by l	Region
Region	Events	Positives	Refusals
1	9,558	111	3
2	42,337	490	22
3	24,705	417	40
4	26,239	354	41
5	32,467	517	28
6	17,408	215	17
7	7,792	86	9
8	7,160	127	12
9	37,172	560	59
10	10,605	114	12

Total Alcohol Tests, Positives, and Refusals for Four Test Types by Region

1 0 01	10001		i togion
Region	Events	Positives	Refusals
1	2,006	6	1
2	13,239	7	5
3	9,498	24	1
4	8,868	16	2
5	8,870	21	9
6	7,019	11	4
7	1,451	7	3
8	1,445	2	0
9	9,547	19	4
10	3,156	10	2

Random Drug Tests, Positives, and Refusals

by FIA Region										
Region	Events	Positives	Refusals							
1	6,251	48	2							
2	28,458	164	15							
3	15,367	136	23							
4	15,488	161	21							
5	20,856	222	12							
6	10,883	96	6							
7	4,574	35	4							
8	4,169	49	10							
9	22,279	206	27							
10	6,972	53	9							
Evente - teoting events										

Events = testing events



### Post-Accident Data by FTA Region

		Dru	ıgs		Alcohol				
Region	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate	
1	435	7	1	1.84	396	0	1	0.25	
2	1,930	20	2	1.14	1,840	1	3	0.22	
3	1,153	32	1	2.86	1,022	0	0	0	
4	2,501	28	1	1.16	2,223	2	1	0.13	
5	2,489	40	8	1.93	2,362	1	6	0.30	
6	1,296	13	2	1.16	1,103	0	1	0.09	
7	351	6	0	1.71	299	2	0	0.67	
8	338	11	0	3.25	276	1	0	0.36	
9	2,693	45	5	1.86	2,470	3	1	0.16	
10	529	2	0	0.38	499	0	1	0.20	

### Pre-Employment Data by FTA Region

		Dru	igs		Alcohol				
Region	Testing Events		Refusals	Rate	Testing Events	Positives	Refusals	Rate	
1	2,850	55	0	1.93	255	0	0	0	
2	11,725	296	5	2.57	2,010	0	0	0	
3	8,087	239	16	3.15	2,428	4	1	0.21	
4	8,207	159	19	2.17	1,274	1	0	0.08	
5	9,014	247	7	2.82	691	1	0	0.14	
6	5,204	103	7	2.11	1,021	2	0	0.20	
7	2,852	43	3	1.61	22	0	0	0	
8	2,635	65	2	2.54	84	0	0	0	
9	12,121	299	27	2.69	1,811	0	0	0	
10	3,079	56	3	1.92	76	0	0	0	

### Random Alcohol Tests, Positives, and Refusals by

FTA Region									
Region	Testing Events	Positives	Refusals						
1	1,342	1	0						
2	9,182	4	2						
3	5,962	8	0						
4	5,332	5	1						
5	5,711	6	3						
6	4,870	6	0						
7	1,118	2	3						
8	1,061	0	0						
9	5,186	2	1						
10	2,553	3	1						

### Reasonable Suspicion Data by FTA Region

	Drugs									
Region	Testing Events	Positives	Refusals	Rate						
1	22	1	0	4.55						
2	224 10		0	4.46						
3	98	10	0	10.20						
4	43	6	0	13.95						
5	108	8	1	8.33						
6	25	3	2	20.00						
7	15	2	2	26.67						
8	18	2	0	11.11						
9	79	10	0	12.66						
10	25	3	0	12.00						
		Alco	ohol							
Region	Testing Events	Positives	Refusals	Rate						
1	13	5	0	38.46						
2	207	2	0	0.97						
3	86	12	0	13.95						
4	39	8	0	20.51						
5	106	13	0	12.26						
6	25	3	3	24.00						
7	12	3	0	25.00						
8	24	1	0	4.17						
9	80	14	2	20.00						
10	28	7	0	25.00						

The total number of refusals by FTA Region listed in each of the preceding tables is subdivided by the individual types of refusals in the following table.

										Dru	ıgs													1	Alco	oho	bl			
		Ran	dom		Po	st-A	ccide	ent		easo Susp	icior	1	Pre-					То	tal		Ran	dom	Po Acci	st- dent	R	S	P	·Е	То	otal
Region	RTT	SB	Adul	Sub	RTT	SB	Adul	Sub	RTT	SB	Adul	Sub	RTT	SB	Adul	Sub	RTT	SB	Adul	Sub	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL
1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0
2	6	4	4	1	2	0	0	0	0	0	0	0	3	0	1	1	11	4	5	2	2	0	2	1	0	0	0	0	4	1
3	17	4	1	1	1	0	0	0	0	0	0	0	16	0	0	0	34	4	1	1	0	0	0	0	0	0	0	1	0	1
4	10	10	0	1	1	0	0	0	0	0	0	0	14	2	1	2	25	12	1	3	1	0	1	0	0	0	0	0	2	0
5	9	1	1	1	7	0	0	1	0	1	0	0	1	0	1	5	17	2	2	7	1	2	5	1	0	0	0	0	6	3
6	6	0	0	0	0	1	0	1	2	0	0	0	5	0	0	2	13	1	0	3	0	0	1	0	3	0	0	0	4	0
7	3	1	0	0	0	0	0	0	2	0	0	0	3	0	0	0	8	1	0	0	2	1	0	0	0	0	0	0	2	1
8	8	2	0	0	0	0	0	0	0	0	0	0	1	0	0	1	9	2	0	1	0	0	0	0	0	0	0	0	0	0
9	14	4	9	0	4	1	0	0	0	0	0	0	14	1	12	0	32	6	21	0	1	0	1	0	2	0	0	0	4	0
10	8	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	10	2	0	0	1	0	0	1	0	0	0	0	1	1
-			RT	T = re	fusal	to ta	ke tes	st	S	SB = s	shy bl	adde	r	S	L = sł	ny lur	ig	A	Adul :	= adu	ilterat	ed	ļ	Sub :	= subs	stitute	ed			
																				RS	= Rea	isona	ble Si	uspic	ion	P-E	E – Pr	e-Em	ployn	nent

Data on Refusal Types for Four Test Types by FTA Region

### 4.3.1 Data for Test Types by FTA Region and Employer Type

The drug rates and the alcohol rates by region for all four test types combined and for random tests are subdivided by employer type in the next four maps. The statistical basis for the rates for all four test types combined is provided in the table following the first pair of maps. The statistical basis for the random rates is provided in the table following the second pair of maps. That table is followed by three tables containing the rates by region and employer type for post-accident, reasonable suspicion, and pre-employment tests, respectively, along with the statistical basis for those rates. Data on the individual types of refusals follow the other data tables.



Drug Rates for Four Test Types Combined by FTA Region and Employer Type



Alcohol Rates for Four Test Types Combined by FTA Region and Employer Type



		·	Dru	igs				-	Alco	hol .		
		Transit		C	Contracto	or		Transit		(	Contracto	r
Region	Testing Events	Positives	Refusals	Tests	Positives	Refusals	Testing Events	Positives	Refusals	Tests	Positives	Refusals
1	7,389	90	1	2,169	21	2	1,482	5	0	524	1	1
2	31,523	238	15	10,814	252	7	10,173	5	2	3,066	2	3
3	17,744	187	19	6,961	230	21	7,228	19	1	2,270	5	0
4	20,444	221	22	5,795	133	19	7,706	13	1	1,162	3	1
5	24,687	274	17	7,780	243	11	7,189	12	5	1,681	9	4
6	13,265	133	10	4,143	82	7	5,965	10	1	1,054	1	3
7	7,052	64	5	740	22	4	1,336	7	3	115	0	0
8	4,385	51	6	2,775	76	6	944	1	0	501	1	0
9	23,045	249	17	14,127	311	42	6,935	12	1	2,612	7	3
10	7,541	62	4	3,064	52	8	2,638	5	2	518	5	0

### Random Drug Rates by FTA Region and Employer Type





Random Alcohol Rates by FTA Region and Employer Type

Random Tests, Positives,	and Refusals by	v FTA Region	and Employer Type
		y i i <i>i</i> i i i i i i i i i i i i i i i i	

			Dru	ıgs					Alco	ohol		
		Transit		C	Contracto	r		Transit		(	Contracto	or
Region	Testing Events	Positives	Refusals									
1	5,114	41	1	1,137	7	1	1,069	1	0	273	0	0
2	22,900	90	11	5,558	74	4	7,463	3	1	1,719	1	1
3	12,943	97	14	2,424	39	9	5,082	7	0	880	1	0
4	12,944	121	13	2,544	40	8	4,538	4	1	794	1	0
5	17,225	146	9	3,631	76	3	4,583	4	2	1,128	2	1
6	8,801	69	4	2,082	27	2	4,213	6	0	657	0	0
7	4,260	30	3	314	5	1	1,015	2	3	103	0	0
8	2,939	20	5	1,230	29	5	688	0	0	373	0	0
9	15,616	117	12	6,663	89	15	3,611	2	0	1,575	0	1
10	5,497	40	4	1,475	13	5	2,184	3	1	369	0	0

Post-Accident Data by	FTA Region and Em	ployer Type
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				Dru	ıgs							Alco	ohol			
		Trai	nsit			Contra	actor			Tra	nsit			Contr	actor	
Region	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate
1	344	5	0	1.45	91	2	1	3.30	316	0	0	0	80	0	1	1.25
2	1,434	9	1	0.70	496	11	1	2.42	1,392	1	1	0.14	448	0	2	0.45
3	882	13	0	1.47	271	19	1	7.38	820	0	0	0	202	0	0	0.00
4	2,183	19	0	0.87	318	9	1	3.14	1,973	1	0	0.05	250	1	1	0.80
5	2,124	29	4	1.55	365	11	4	4.11	2,043	1	3	0.20	319	0	3	0.94
6	1,035	8	2	0.97	261	5	0	1.92	910	0	0	0	193	0	1	0.52
7	339	6	0	1.77	12	0	0	0	290	2	0	0.69	9	0	0	0
8	217	5	0	2.30	121	6	0	4.96	170	1	0	0.59	106	0	0	0
9	1,764	20	1	1.19	929	25	4	3.12	1,716	2	1	0.17	754	1	0	0.13
10	431	1	0	0.23	98	1	0	1.02	408	0	1	0.25	91	0	0	0
					TF	E = testin	a events	E P	= positives		R = refu	sals				

IΕ testing events positives R = refusais

F				Cuoonia		piolo		.u by 1 17	( ittegie			ioyor i	760			
				Dru	ıgs							Alco	ohol			
		Tra	nsit			Contr	racto	r		Tra	nsit			Contr	actor	,
Region	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate
1	17	1	0	5.88	5	0	0	0	9	4	0	44.44	4	1	0	25.00
2	192	6	0	3.13	32	4	0	12.50	181	1	0	0.55	26	1	0	3.85
3	69	3	0	4.35	29	7	0	24.14	65	10	0	15.38	21	2	0	9.52
4	31	4	0	12.90	12	2	0	16.67	34	7	0	20.59	5	1	0	20.00
5	85	4	1	5.88	23	4	0	17.39	77	7	0	9.09	29	6	0	20.69
6	17	2	1	17.65	8	1	1	25.00	17	2	1	17.65	8	1	2	37.50
7	14	1	2	21.43	1	1	0	100.00	12	3	0	25.00	0	0	0	0
8	8	0	0	0	10	2	0	20.00	10	0	0	0	14	1	0	7.14
9	42	6	0	14.29	37	4	0	10.81	44	8	0	18.18	36	6	2	22.22
10	11	1	0	9.09	14	2	0	14.29	13	2	0	15.38	15	5	0	33.33
					TI	E = testir	ng even	ts P	= positives		R = refu	sals		•		<u> </u>

### Reasonable Suspicion Data by FTA Region and Employer Type

Pre-Employment Data by FTA Region and Employer Type

				Dru	ugs							Alco	ohol			
		Trar	nsit			Contra	actor			Tra	nsit			Contr	actor	
Region	Tests	Р	R	Rate	Tests	Р	R	Rate	Tests	Р	R	Rate	Tests	Р	R	Rate
1	1,914	43	0	2.25	936	12	0	1.28	88	0	0	0.00	167	0	0	0
2	6,997	133	3	1.94	4,728	163	2	3.49	1,137	0	0	0.00	873	0	0	0
3	3,850	74	5	2.05	4,237	165	11	4.15	1,261	2	1	0.24	1,167	2	0	0.17
4	5,286	77	9	1.63	2,921	82	10	3.15	1,161	1	0	0.09	113	0	0	0
5	5,253	95	3	1.87	3,761	152	4	4.15	486	0	0	0.00	205	1	0	0.49
6	3,412	54	3	1.67	1,792	49	4	2.96	825	2	0	0.24	196	0	0	0
7	2,439	27	0	1.11	413	16	3	4.60	19	0	0	0.00	3	0	0	0
8	1,221	26	1	2.21	1,414	39	1	2.83	76	0	0	0.00	8	0	0	0
9	5,623	106	4	1.96	6,498	193	23	3.32	1,564	0	0	0.00	247	0	0	0
10	1,602	20	0	1.25	1,477	36	3	2.64	33	0	0	0.00	43	0	0	0
					TE	E = testing	g events	P	= positives		R = refu	sals				

Data on Refusal Types for Four Test Types by FTA Region and Employer Type

																			Ī	Dru	Jgs	5				-														
			F	Ran	dor	n				F	os	t-A	ccio	den	t		R	eas	son	abl	e S	usp	icic	n		Pr	e-E	Emp	oloy	me	nt					То	tal			
		Tra	nsit		С	ontr	act	or		Tra	nsit		С	onti	act	or		Tra	nsit		С	ontr	act	or		Tra	nsit		Сс	ontr	act	or		Tra	nsit		С	ontr	acto	or
Regior	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S	RT	SB	А	S
1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
2	4	4	2	1	2	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	0	0	1	7	4	3	1	4	0	2	1
3	9	3	1	1	8	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	11	0	0	0	14	3	1	1	20	1	0	0
4	7	5	0	1	3	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6	1	1	1	8	1	0	1	13	6	1	2	12	6	0	1
5	6	1	1	1	3	0	0	0	3	0	0	1	4	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	1	0	0	3	9	2	2	4	8	0	0	3
6	4	0	0	0	2	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0	3	0	0	0	2	0	0	2	8	1	0	1	5	0	0	2
7	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	4	1	0	0	4	0	0	0
8	3	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3	2	0	1	6	0	0	0
9	8	2	2	0	6	2	7	0	1	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	3	0	1	0	11	1	11	0	12	2	3	0	20	4	18	0
10	3	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	1	0	0	7	1	0	0
				-	-	-	-	R	T = 1	refus	al to	o tał	ke te	st		-	SB	= s	hy b	lado	ler			Α=	ad	ulter	atec	ł		S	= s	ubs	titut	ed	-		-			

										Alco	ohol									
		Ran	dom		P	ost-A	ccider	nt	Reas	onabl	e Sus	picion	Pre	e-Emp	oloyme	ent		To	otal	
	Tra	nsit	Contr	actor	Tra	nsit	Contr	actor	Tra	nsit	Conti	ractor	Tra	nsit	Contr	actor	Tra	nsit	Contr	actor
Region	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL
1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
2	1	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	1	1	3	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0
5	0	2	1	0	2	1	3	0	0	0	0	0	0	0	0	0	2	3	4	0
6	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	1	0	3	0
7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	1	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	3	0
10	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0
							RTT	= refu	sal to ta	ake test	t	SL = s	hy lung							

Data on Refusal Types for Four Test Types by FTA Region and Employer Type

### 4.3.2 Data for Four Test Types by FTA Region and Employer Size

The drug rates and the alcohol rates by region for all four test types combined and for random tests are subdivided by large employer in the following four maps. The shading variations provide quick comparison. The exact rates are also included. The statistical basis for the rates is provided in the accompanying tables. The rates by region and small and rural employers for the four test types combined appear in the table following the first pair of maps, along with the statistical basis for those rates. The rates by region and small and rural employers for random tests appear in the table following the second pair of maps, along with the statistical basis for those rates. That table is followed by three pairs of tables containing the rates by region and all employer size categories for post-accident, reasonable suspicion, and pre-employment tests, respectively, along with the statistical basis for those rates. Data on the individual types of refusals follow the other data tables.



Total Drug Tests, Positives, and Refusals for Four Test Types by Region and Large Employer

Region	Testing Events	Positives	Refusals
1	5,800	72	2
2	41,012	482	22
3	21,349	395	36
4	16,428	225	24
5	24,907	415	20
6	12,703	163	11
7	3,197	49	5
8	4,764	86	6
9	32,516	496	53
10	8,070	91	10



Data for Four Test Types Con	nbined by FTA Region and Emp	lover Size—Small and Rural

				Dru	igs							Alco	ohol			
		Sm	all			Ru	ral			Sm	nall			Ru	ral	
Region	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate
1	1,222	6	1	0.57	216	1	0	0.46	2,536	33	0	1.30	401	1	0	0.25
2	295	1	0	0.34	161	0	0	0	1,030	7	0	0.68	260	0	0	0.00
3	1,236	4	1	0.40	285	1	0	0.35	2,120	18	3	0.99	457	1	0	0.22
4	2,780	57	10	2.41	964	2	0	0.21	7,031	72	7	1.12	1,839	3	1	0.22
5	3,364	46	4	1.49	905	3	0	0.33	4,196	56	4	1.43	1,060	1	0	0.09
6	1,135	14	0	1.23	370	2	0	0.54	3,570	38	6	1.23	992	0	1	0.10
7	618	7	0	1.13	142	1	0	0.70	3,977	30	4	0.85	595	2	3	0.84
8	983	22	2	2.44	242	0	0	0	1,413	19	4	1.63	252	0	0	0.00
9	1,789	29	5	1.90	284	0	0	0	2,867	35	1	1.26	627	2	0	0.32
10	959	10	1	1.15	356	0	0	0	1,576	13	1	0.89	311	1	2	0.96
					TE	E = testin	g events	P	e positives		R = refu	sals				

### Random Drug Rates by FTA Region and Employer Size—Large



#### Random Drug Tests, Positives, and Refusals by Region and Large Employer

itegi	on and	сагус сп	iipioyei
Region	Testing Events	Positives	Refusals
1	3,991	31	1
2	27,585	160	15
3	13,152	124	20
4	9,965	102	13
5	15,983	178	7
6	8,327	77	3
7	1,816	22	2
8	2,806	36	5
9	19,698	189	23
10	5,412	48	7



#### Random Alcohol Tests, Positives, and Refusals by **Region and Large Employer**

Region	Testing Events	Positives	Refusals
1	836	1	0
2	8,887	4	2
3	5,383	7	0
4	3,540	3	0
5	4,370	4	3
6	3,933	4	0
7	474	1	0
8	720	0	0
9	4,547	2	1
10	2,009	3	0

#### Random Test Data by FTA Region and Employer Size—Small and Rural

				Dr	ugs							Alco	ohol			
		Sm	all			Rura	al			Sm	nall			Ru	ral	
Region	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate	TE	Р	R	Rate
1	693	4	1	0.72	1,567	13	0	0.83	162	0	0	0.00	344	0	0	0.00
2	230	1	0	0.43	643	3	0	0.47	111	0	0	0.00	184	0	0	0.00
3	864	2	1	0.35	1,351	10	2	0.89	213	0	0	0.00	366	1	0	0.27
4	1,463	26	5	2.12	4,060	33	3	0.89	457	0	0	0.00	1,335	2	1	0.22
5	2,224	18	1	0.85	2,649	26	4	1.13	608	1	0	0.16	733	1	0	0.14
6	648	5	0	0.77	1,908	14	3	0.89	240	2	0	0.83	697	0	0	0.00
7	388	3	0	0.77	2,370	10	2	0.51	117	1	0	0.85	527	0	3	0.57
8	530	7	1	1.51	833	6	4	1.20	152	0	0	0.00	189	0	0	0.00
9	891	7	3	1.12	1,690	10	1	0.65	185	0	0	0.00	454	0	0	0.00
10	625	3	1	0.64	935	285	0	0	0.00	259	0	1	0.39			
					TE =	testing	positives	F	R = refus	als						

#### Post-Accident Test Data by FTA Region and Employer Size

						Dru	ıgs					
		La	rge			Sm	nall			Ru	ral	
Region	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate
1	341	6	1	2.05	42	0	0	0	52	1	0	1.92
2	1,883	20	2	1.17	13	0	0	0	34	0	0	0
3	1,013	30	1	3.06	80	0	0	0	60	2	0	3.33
4	1,832	21	0	1.15	389	3	1	1.03	280	4	0	1.43
5	2,102	35	7	2.00	233	3	1	1.72	154	2	0	1.30
6	981	9	2	1.12	118	3	0	2.54	197	1	0	0.51
7	257	6	0	2.33	28	0	0	0.00	66	0	0	0.00
8	226	6	0	2.65	61	2	0	3.28	51	3	0	5.88
9	2,505	44	5	1.96	96	1	0	1.04	92	0	0	0
10	452	1	0	0.22	44	1	0	2.27	33	0	0	0

						Alco	phol		<u> </u>			
		La	rge				nall			Ru	ıral	
Region	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate
1	323	0	1	0.31	32	0	0	0	41	0	0	0
2	1,799	1	3	0.22	11	0	0	0	30	0	0	0
3	910	0	0	0	69	0	0	0	43	0	0	0
4	1,652	2	1	0.18	364	0	0	0	207	0	0	0
5	2,049	1	6	0.34	188	0	0	0	125	0	0	0
6	879	0	1	0.11	88	0	0	0	136	0	0	0
7	231	2	0	0.87	21	0	0	0	47	0	0	0
8	211	1	0	0.47	36	0	0	0	29	0	0	0
9	2,349	3	1	0.17	59	0	0	0	62	0	0	0
10	450	0	0	0	31	0	0	0	18	0	1	5.56

### Post-Accident Test Data by FTA Region and Employer Size

### Reasonable Suspicion Test Data by FTA Region and Employer Size

						Dru	ıgs					
		Lai	rge			Sm	nall			Ru	ıral	
Region	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate
1	11	1	0	9.09	1	0	0	0	52	1	0	1.92
2	221	10	0	4.52	0	0	0	0	34	0	0	0
3	94	10	0	10.64	2	0	0	0	60	2	0	3.33
4	26	4	0	15.38	11	1	0	9.09	280	4	0	1.43
5	89	3	1	4.49	16	3	0	18.75	154	2	0	1.30
6	16	3	1	25.00	2	0	0	0	197	1	0	0.51
7	5	0	0	0	0	0	0	0	66	0	0	0
8	16	2	0	12.50	1	0	0	0	51	3	0	5.88
9	61	4	0	6.56	6	1	0	16.67	92	0	0	0
10	20	2	0	10.00	4	0	0	0	33	0	0	0
						Alco	ohol			D	mal	

		La	rge				nall			Ru	ral	
Region	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate
1	9	3	0	33.33	2	1	0	50.00	41	0	0	0
2	205	2	0	0.98	0	0	0	0	30	0	0	0
3	80	11	0	13.75	3	1	0	33.33	43	0	0	0
4	28	6	0	21.43	10	2	0	20.00	207	0	0	0
5	88	11	0	12.50	14	2	0	14.29	125	0	0	0
6	17	3	2	29.41	1	0	0	0	136	0	0	0
7	5	1	0	20.00	0	0	0	0	47	0	0	0
8	17	1	0	5.88	2	0	0	0	29	0	0	0
9	67	12	2	20.90	4	0	0	0	62	0	0	0
10	22	6	0	27.27	4	0	0	0	18	0	1	5.56

			-Employ			-	igs					
		La	rge			Sm	nall			Ru	ıral	
Region	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate
1	1,457	34	0	2.33	486	2	0	0.41	907	19	0	2.09
2	11,323	292	5	2.62	52	0	0	0.00	350	4	0	1.14
3	7,090	231	15	3.47	290	2	0	0.69	707	6	1	0.99
4	4,605	98	11	2.37	917	27	4	3.38	2,685	34	4	1.42
5	6,733	199	5	3.03	891	22	2	2.69	1,390	26	0	1.87
6	3,379	74	5	2.34	367	6	0	1.63	1,458	23	2	1.71
7	1,119	21	3	2.14	202	4	0	1.98	1,531	18	0	1.18
8	1,716	42	1	2.51	391	13	1	3.58	528	10	0	1.89
9	10,252	259	25	2.77	796	20	2	2.76	1,073	20	0	1.86
10	2,186	40	3	1.97	286	6	0	2.10	607	10	0	1.65
						Alco	ohol					
		La	rge			Sm	nall			Ru	ıral	
Region	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate	Testing Events	Positives	Refusals	Rate
1	221	0	0	0	20	0	0	0	14	0	0	0
2	1,927	0	0	0	39	0	0	0	44	0	0	0
3	2,383	4	1	0.21	0	0	0	0	45	0	0	0
4	845	0	0	0	133	0	0	0	296	1	0	0.34
5	398	1	0	0.25	95	0	0	0	198	0	0	0
6	828	2	0	0.24	41	0	0	0	152	0	0	0
7	4	0	0	0	4	0	0	0	14	0	0	0
8	3			0	52	0	0	0	29	0	0	0
9	1,673	0	0	0	36	0	0	0	102	0	0	0
10	8	0	0	0	36	0	0	0	32	0	0	0

### Pre-Employment Test Data by FTA Region and Employer Size

The next two tables subdivide the total number of refusals by region and employer size presented in the preceding tables by the individual types of refusals.

Data on Refusal T	vpes for Four Test	<b>Expes by FTA Red</b>	gion and Employer Size
Bata on noradan i	J 200 101 1 001 1001		

																													Di	ru	g	5						-							-													
					Ra	an	dol	m							P	os	t-/	٩c	cio	de	nt				R	lea	as	on	ab	ble	S	us	pi	cic	n			Ρ	re	E	mp	olc	yn	ne	nt							Т	ota	al				
	l	a	rg	е	ç	Sm	all		F	Rur	al		L	arç	je		S	ma	all		R	ur	al		L	ar	ge	!	S	m	all		R	lura	al		La	rg	е		Sn	na	II	F	Ru	ral		L	ar	ge		Sr	ma	all		Rı	ura	l
Region	R	В	A	S	R	В	A	S	R	B	A	S	RI	B	1 5	S F	RI	BA	1 3	SF	R	3 A	١S	S I	R	B	A	S	RI	B	A S	S F	R	B A	۱S	5 F	RB	A	S	R	В	А	S	R	В	A	S	R	B	A S	SF	RB	3 A	١S	R	В	А	S
1	100010000000100000000000000000000000000																														0	0	0	0	0	0	0	0	0	2	0	0	) 1	0	0	) 0	0	0	0	0								
2	644100000000200000000												) (	) (	0	)	0	0	0	0	0	0	0 0	) (	) (	0 0	0	) 3	3 0	1	1	0	0	0	0	0	0	0	0	11	4 !	52	2 (	0	0	0	0	0	0	0								
3	16 2 1 1 0 1 0 0 1 1 0 0 1 0 0 0 0 0 0 2											2 1	1 (	) (	) (	0	0	0	0	0	0	0 0	) 2	2	1 C	0	) 1;	50	0	0	0	0	0	0	1	0	0	0	32	2	1	1 (	) 1	0	0	2	1	0	0									
4	16 2 1 1 0 1 0 0 1 1 0 0 1 0 0 0 0 0 0 0 2 7 5 0 1 0 5 0 0 3 0 0 0 0 0 0 0 1 1 0 0 0 4												1	1 (	) 2	2 (	0	0	0	0	0	0	0 0	)	1	1 C	) 2	2 Q	) 1	1	0	4	0	0	0	1	1	0	2	16	6	1 1	15	5 5	5 0	0 (	4	1	0	2								
5	5	1	0	1	1	0	0	0	3	0	1 (	0	6	0 0	) 1	1 1	1 (	0 0	) (	) (	3 (	) 1	C	) (	0	1	0	0	0	0	0 0	) (	3 (	) 1	0	) 1	0	1	3	0	0	0	2	0	0	0	0	12	2	1 {	5 2	2 0	0	) 2	3	0	1	0
6	3	0	0	0	0	0	0	0	3	0	0	0	0	1 (	) 1	1 (	) (	) (	) (	) (	6 (	) (	) (	)	1	0	0	0	0	0	0 0	) (	6 (	0 0	0	) 3	3 0	0	2	0	0	0	0	2	0	0	0	7	1 (	0 3	3 (	) (	0	0	6	0	0	0
7	2	0	0	0	0	0	0	0	1	1 (	0	0	0	0 0	) (	) (	) (	0 0	) (	) (	3 1	1	) (	) (	0	0	0	0	0	0	0 0	) (	3 .	1 C	0	) 3	3 0	0	0	0	0	0	0	0	0	0	0	5	0 (	0 (	) (	0	0	) 0	3	1	0	0
8	4	1	0	0	1	0	0	0	3	1	0	0	0	0 0	) (	) (	) (	) C	) (	) (	3 1	1 (	) (	) (	0	0	0	0	0	0	0 0	) (	3 .	1 C	0	) 1	0	0	0	0	0	0	1	0	0	0	0	5	1 (	0 0	) 1	0	0	) 1	3	1	0	0
9	╧╋┽┽┽┽┽┽┽┽┽┽╉╫┼╫╄┼┼┼┼┼													) (	) (	) (	0	0	0	0	0	0	0 0	) '	1 (	0 0	0	1	30	12	0	1	1	0	0	0	0	0	0	27	52	21 (	) 4	1	0	0 (	1	0	0	0								
10	6	1	0	0	1	0	0	0	1	0	0	0	0	0 0	) (	) (	) (	0 0	) (	) ·	1 (	) (	) (	) (	0	0	0	0	0	0	0 (	) ·	1 (	0 0	0	) 2	2 1	0	0	0	0	0	0	0	0	0	0	8	2 (	0 (	) 1	0	0	) 0	1	0	0	0
												R	= r	efu	isa	l to	o ta	ake	te	st					B =	= s	hy	bla	dd	ler				A	/ =	a	dul	tera	ate	d				S	= s	ubs	stit	ute	d									

															Alco	oho														
			Ran	dom	1			Po	st-A	ccid	ent		Re	asoi	nable	e Su	spic	ion		Pre-	Emp	oloyr	nent				То	tal		
	La	rge	Sm	nall	Ru	ıral	La	ge	Srr	nall	Ru	ıral	La	rge	Sm	nall	Ru	ral	La	rge	Sm	nall	Ru	ıral	Lai	ge	Sm	nall	Ru	ral
Region	Region RTT SL														SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	RTT	SL	
1	1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0												0	0	0	0	0	0	0	0	0	1	0	0	0	0	0			
2	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0
3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
4	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
5	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3	0	0	0	0
6	1	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	1	0
7	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
8	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
9	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
10	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
											RTT	= ret	usal t	o tak	e test		SL	= sh	y lung	]										

Data on Refusal Types for Four Test Types by FTA Region and Employer Size

## 4.4 Data for Four Test Types by Type of Drug

The verified positive rates for each type of drug tested for are presented for each test type and for the four test types combined in the following graph. A table follows that provides the statistical basis for the rates. The table is followed by charts that show the percentage by drug type of the total drug type detections<sup>9</sup> for each test type and the four types combined. These rates and data are presented by employer type, employer size, and employee category later in this section.



Positive Rates by Test Type and Drug Type

<sup>&</sup>lt;sup>9</sup> Because multiple drugs are sometimes detected in one specimen, the total number of drug detections may be greater than the total number of verified positives.

	Testing		Ve	erified Positiv	es	
	Events	Marijuana	Cocaine	PCP	Opiates	Amphetamines
Random	135,297	599	433	10	27	61
Post-Accident	13,715	91	94	2	8	13
Reasonable Suspicion	657	21	27	0	2	9
Pre-Employment	65,774	984	463	28	40	56
Total	215,443	1,695	1,017	40	77	139





### 4.4.1 Data for Four Test Types by Employer Type and Drug Type

The following graphs show the rates by drug type for each test type and the four test types combined by employer type. *The reasonable suspicion graph contains no columns for PCP because there were no PCP reasonable suspicion detections.* 



The next table provides the statistical basis for the rates in the previous graphs. The table after that one shows the percentage by drug type of the total drug type detections for each test type and the four test types combined by employer type.

			Trar	nsit					Contra	actor		
	TE	М	С	Р	0	Α	TE	Μ	С	Р	0	Α
Random	108,239	394	280	5	13	43	27,058	205	153	5	14	18
Post-Accident	10,753	49	54	2	8	7	2,962	42	40	0	0	6
Reasonable Suspicion	486	11	14	0	1	3	171	10	13	0	1	6
Pre-Employment	37,597	423	191	15	14	23	28,177	561	272	13	26	33
Total	157,075	877	539	22	36	76	58,368	818	478	18	41	63
TE = testing events		M = Mari	ijuana	C = Coca	aine	P = Phency	vclidine (PCP)	0 =	Opiates	A = Am	phetamine	S

### Tests and Positives by Test Type, Employer Type, and Drug Type

Percentage by Drug Type of Total Drug Detections for Each Test Type by Employer Type

			Transit				(	Contracto	or	
	Marijuana	Cocaine	PCP	Opiates	Ampheta- mines	Marijuana	Cocaine	PCP	Opiates	Ampheta- mines
Random	53.6	38.1	0.7	1.8	5.9	51.9	38.7	1.3	3.5	4.6
Post-Accident	40.8	45.0	1.7	6.7	5.8	47.7	45.5	0	0	6.8
Reasonable Suspicion	37.9	48.3	0	3.4	10.3	33.3	43.3	0	3.3	20.0
Pre-Employment	63.5	28.7	2.3	2.1	3.5	62.0	30.1	1.4	2.9	3.6
Combined	56.6	34.8	1.4	2.3	4.9	57.7	33.7	1.3	2.9	4.4

### 4.4.2 Data for Four Test Types by Employer Size and Drug Type

The next four graphs show the rates by drug type for each test type and for the four test types combined by employer size--the first graph for large employers



Positive Rates by Test Type, Employer Size, and Drug Type—Large Employers

and the other three for small and rural employers. The reasonable suspicion graphs contain no columns for PCP because there were no PCP reasonable suspicion detections. Two tables follow the graphs. The first provides the statistical basis for the rates. The second shows the percentage by drug type of the total drug type detections for each test type by employer size.



Positive Rates by Test Type, Employer Size, and Drug Type—Small and Rural

			Large					Small					Rural		
	Р	0	Α	Μ	С	Р	0	Α	Μ	С	Р	0	Α		
Random	50.7	40.6	1.1	2.4	5.2	58.2	31.3	0	1.5	9.0	68.0	24.6	0	2.5	4.9
Post-Accident	42.4	45.7	1.1	4.3	6.5	58.3	33.3	0	0	8.3	50.0	50.0	0	0	0
Reasonable Suspicion	33.3	54.8	0	4.8	7.1	16.7	50.0	0	0	33.3	54.5	9.1	0	0	36.4
Pre-Employment	60.9	31.2	2.1	2.6	3.2	71.0	25.0	0	1.0	3.0	71.6	17.9	0.6	3.1	6.8
Combined	55.2	36.3	1.6	2.7	4.3	63.8	28.6	0	1.1	6.5	68.7	21.5	0.3	2.6	6.8
	M = N	lariiuana	С	= Cocain	e P	= Pheno	vclidine (	PCP)	0 = 0	piates	A = A	mphetan	nines		

### 4.4.3 Data for Four Test Types by Employee Category and Drug Type

The following five graphs show the rates by drug type for each test type and for the four test types combined by employee category. A graph is presented for the four test types combined and for each test type. Two tables follow the graphs. The first provides the statistical basis for the rates. The second shows the percentage by drug type of the total drug type detections for each test type and the four test types combined by employee category.



#### Positive Rates for Four Test Types Combined by Employee Category and Drug Type





Post-Accident Positive Rates by Employee Category and Drug Type

Note: The following graph does not contain columns for PCP because there were no PCP detections in any reasonable suspicion tests—i.e., "0" in the reasonable suspicion column of the graph on page 4-29.



Reasonable Suspicion Positive Rates by Employee Category and Drug Type



### Pre-Employment Positive Rates by Employee Category and Drug Type

### Tests and Positives, and Refusals by Test Type, Employee Category, and Drug Type

		Testing			erified Positiv		21
		Events	Marijuana	Cocaine	PCP	Opiates	Amphetamines
	RVO	92,496	436	322	8	24	43
	RV&EM	27,602	127	84	2	1	14
Random	RVC/D	9,515	19	14	0	2	3
	CDL/N-RV	3,189	14	12	0	0	1
	ASP	2,495	3	1	0	0	0
	RVO	12,783	85	82	1	7	13
	RV&EM	630	6	8	0	0	0
Post-Accident	RVC/D	107	0	0	0	0	0
	CDL/N-RV	91	0	4	1	1	0
	ASP	104	0	0	0	0	0
	RVO	519	17	23	0	1	7
Deservable	RV&EM	89	4	4	0	1	2
Reasonable Suspicion	RVC/D	28	0	0	0	0	0
Suspicion	CDL/N-RV	20	0	0	0	0	0
	ASP	1	0	0	0	0	0
	RVO	54,936	841	411	20	38	42
	RV&EM	6,271	81	27	4	1	13
Pre-Employment	RVC/D	2,197	37	16	1	0	1
	CDL/N-RV	903	16	7	2	1	0
	ASP	1,467	9	2	1	0	0
	RVO	160,734	1,379	838	29	70	105
	RV&EM	34,592	218	123	6	3	29
Total	RVC/D	11,847	56	30	1	2	4
υιαι	CDL/N-RV	4,203	1,653	991	36	75	138
	ASP	4,067	12	3	1	0	0
	RVO = Reve	enue Vehicle Opera	ation	RV&EM = Revenue	Vehicle and Equipme	ent Maintenance	

RV&EM = Revenue Vehicle and I CDL/N-RV = CDL/Non-Revenue Vehicle

ASP = Armed Security Personnel

	- J -																								
	F	Rever	nue V	/ehic	le	Re	venue	e Veł	nicle	and	F	Rever	iue V	ehicl/	е	C	DL/N	on-R	even	ue	1	Arme	d Se	curity	y
		Op	perati	ion		Equi	pmer	nt Ma	inten	ance	Co	ontrol	/Disp	atchi	ng		V	'ehicl	le			Pe	ersoni	nel	
	М	С	Ρ	0	А	М	M C P O A I			М	С	Ρ	0	А	М	С	Ρ	0	А	М	С	Ρ	0	А	
Random	52.3	38.7	1.0	2.9	5.2	55.7	36.9	0.9	0.4	6.1	50.0	36.8	0	5.3	7.9	51.9	44.4	0	0	3.7	75.0	25.0	0	0	0
Post-Accident	45.2	43.6	0.5	3.7	6.9	42.9	57.1	0	0	0	0	0	0	0	0	0	66.7	16.7	16.7	0	0	0	0	0	0
Reasonable Suspicion	35.4	47.9	0	2.1	14.6	36.4	36.4	0	9.1	18.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pre-Employment	62.2	30.4	1.5	2.8	3.1	64.3	21.4	3.2	0.8	10.3	67.3	29.1	1.8	0	1.8	61.5	26.9	7.7	3.9	0	75.0	16.7	8.3	0	0
Combined 57.034.6 1.2 2.9 4.3 57.532.5 1.6						0.8	7.7	60.2	32.3	1.1	2.1	4.3	50.8	39.0	5.1	3.4	1.7	75.0	18.8	6.3	0.0	0.0			
	M = Marijuana C = Cocaine							Р	= Phe	encycl	idine	(PCP	)	0	= Op	iates		A =	Amp	hetan	nines				

#### Percentage by Drug Type of Total Drug Detections for Each Test Type by Employee Category

### 4.5 Confirmed Alcohol Specimens Between 0.02 and 0.039

The table at right presents the number of confirmed alcohol specimens with levels between 0.02 and 0.039 by test type, the percentage of such specimens of the total number of testing events (events), and the total number of testing events. Those numbers are subdivided by employer type, employer size, employer size and type combined, employee category, and FTA region, respectively, in the tables that follow. (For

all test types except reasonable suspicion and for all the types combined, the percentages of the entire number of tests and the percentage of the total number with levels lower than 0.04 are the same after rounding. Both rates are included in the "percent of tests" column for reasonable suspicion tests where the rates differ.)

# Alcohol Confirmations Between 0.02 and 0.039 by Test Type

			/ P C
	Percent	0.02 to	Testing
	of Events	0.039	Events
Random	0.04	18	42,317
Post-Accident	0.04	5	12,490
Reasonable	4.68/	29	620
Suspicion	5.25*	29	620
Pre-Employment	0.01	1	9,672
Total	0.08	53	65,099

#### Alcohol Confirmations Between 0.02 and 0.039 by Test Type and Employer Type

		Transit		С	ontracto	or
	Percent	0.02 to		Percent	0.02 to	Testing
	of Events	0.039	Events	of Events	0.039	Events
Random	0.04	15	34,446	0.04	3	7,871
Post-Accident	0.04	4	10,038	0.04	1	2,452
Reasonable Suspicion	4.33/ 4.78*	20	462	5.70/ 6.72*	9	158
Pre-Employment	0	0	6, 650	0.03	1	3,022
Total	0.08	39	51,596	0.10	14	13,503

\*Bottom number is the percentage of the number of tests minus confirmed positives. Both percentages are the same for the other reasonable suspicion breakdowns and for the other test types.

-						<u>,</u>			
		Large			Small			Rural	
	Percent	0.02 to	Testing	Percent	0.02 to	Tests	Percent	0.02 to	Testing
	of Events	0.039	Events	of Events	0.039	Tests	of Events	0.039	Events
Random	0.04	14	108,735	0	0	8,556	0.08	4	18,006
Post-Accident	0.03	3	11,592	0.22	2	1,104	0	0	1,019
Reasonable Suspicion	4.28/ 4.77*	23	559	5.00/ 5.88*	2	43	9.52/ 11.11*	4	55
Pre-Employment	0.01	1	49,860	0	0	4,678	0	0	11,236
Total	0.08	41	170,746	0.10	4	14,381	0.12	8	30,316

#### Alcohol Confirmations Between 0.02 and 0.039 by Test Type and Employer Size

\*The bottom number is the percentage of the number of tests minus confirmed positives. Both percentages are the same for the other reasonable suspicion breakdowns and for the other test types.

			La	rge					Sn	nall					Rur	al		
	-	Trar	nsit	Со	ntra	ctor	Т	ran	sit	Cor	ntrac	tor	Т	rans	sit	Con	tra	ctor
	Events .039 Events Events .039					Testing Events	% of Events	.02- .039		% of Events		Testing Events		.02- .039	Testing Events	% of Events		Testing Events
Random	0.04	11	27,875	0.04	3	6,824	0	0	1,974	0	0	556	0.09	4	4,597	0	0	491
Post-Accident	0.02 2 8,578 0.04 1 2,275						0.26	2	780	0	0	119	0	0	680	0	0	58
Reasonable Suspicion	4.23/ 4.62 <sup>*</sup>	17	402	4.41/ 5.26 <sup>*</sup>	6	136	0	0		13.30/ 15.38 <sup>*</sup>		15	8.57/ 10.34 <sup>*</sup>	3	35	14.29	1	7
Pre-Employment						2,851	0	0	362	0	0	94	0	0	849	0	0	77
Total 0.07 30 42,294 0.09 1 12,08						12,086	0.06	2	3,141	0.26	7	784	0.11	7	6,161	0.16	5	633

#### Alcohol Confirmations Between 0.02 and 0.039 by Test Type, Employer Size, and Employer Type

\*The bottom number is the percentage of the number of tests minus confirmed positives. Both percentages are the same for the other reasonable suspicion breakdowns and for the other test types.

#### Alcohol Confirmations Between 0.02 and 0.039 by Test Type and Employee Category

/			nationo	Dotint				<b>J</b> 100				,	logory		
	Rev	renue \	/ehicle	Rever	nue Veł	nicle and	Reve	nue Ve	ehicle	CDL/	Non-Rev	venue	Arm	ned Sec	urity
		Operat	ion	Equipm	ient Ma	intenance	Contro	l/Dispa	atching		Vehicle		F	Personne	el
	% of	.02-	Testing	% of	.02-	Testing	% of	.02-	Testing	% of	.02-	Testing	% of	.02-	Testing
	Events	.039	Events	Events	.039	Events	Events	.039	Events	Events	.039	Events	Events	.039	Events
Random	0.05	15	28,702	0.03	3	8,587	0	0	2,882	0	0	1,254	0	0	892
Post-Accident	0.04	5	11,719	0	0	539	0	0	89	0	0	79	0	0	64
Reasonable Suspicion	3.87/ 4.37 <sup>*</sup>	19	491	8.54/ 9.33 <sup>*</sup>	7	82	6.06/ 6.25 <sup>*</sup>	2	33	7.14/ 10.00 <sup>*</sup>	1	14	0	0	0
Pre-Employment	0.01	1	7,671	0	0	1,120	0	0	285	0	0	154	0	0	442
Total	0.08	40	48,583	0.10	10	10,328	0.06	2	3,289	0.07	1	1,501	0	0	1,398

\*The bottom number is the percentage of the number of tests minus confirmed positives. Both percentages are the same for the other reasonable suspicion breakdowns and for the other test types.

											10001	1000 8		<u>vogion</u>	
		Random		Po	st-Accid	ent	Reasor	nable Su	spicion	Pre-	Employr	nent		Total	
Region	Percent	0.02 to	Testing	Percent	0.02 to	Testing	Percent	0.02 to	Testing	Percent	0.02 to	Testing	Percent	0.02 to	Testing
Region	of Events	0.039	Events	of Events	0.039	Events	of Events	0.039	Events	of Events	0.039	Events	of Events	0.039	Events
1	0.22	2	1,342	0	0	435	15.38	2	13	0	0	255	0.20	4	2,006
2	0.02	2	9,182	0.05	1	1,930	3.86	8	207	0	0	2,010	0.08	11	13,239
3	0.02	1	5,962	0	0	1,153	2.33	2	86	0	0	2,428	0.03	3	9,498
4	0.04	2	5,332	0	0	2,501	5.13	2	39	0	0	1,274	0.05	4	8,868
5	0.04	2	5,711	0	0	2,489	2.83	3	106	0	0	691	0.06	5	8,870
6	0.02	1	4,870	0.27	3	1,296	0	0	25	0	0	1,021	0.06	4	7,019
7	0.18	2	1,118	0.33	1	351	0	0	12	0	0	22	0.21	3	1,451
8	0.09	1	1,061	0	0	338	29.17	7	24	0	0	84	0.55	8	1,445
9	0.08	4	5,186	0	0	2,693	5.00	4	80	0.06	1	1,811	0.09	9	9,547
10	0.04	1	2,553	0	0	529	3.57	1	28	0	0	76	0.06	2	3,156

#### Alcohol Confirmations Between 0.02 and 0.039 for Four Test Types by FTA Region

\*The bottom number is the percentage of the number of tests minus confirmed positives. Both percentages are the same for the other reasonable suspicion breakdowns and for the other test types.

# 5. Drug and Alcohol Data for Return to Duty Testing and Follow-up Testing

This chapter presents test data on persons who have been returned to FTA safety-sensitive duty after testing positive for drugs or alcohol or refusing to submit to a required test and who have subsequently completed a rehabilitation program designed by a substance abuse professional (SAP). Section 5.1 summarizes data for return to duty tests performed in 2003. Section 5.2 summarizes data for follow-up tests performed in 2003. The results are sorted and presented by employer type, employer size, employee category, FTA region, and drug type.

### 5.1 Return to Duty Test Data

The combined percentage of positive tests plus test refusals for return to duty drug tests and alcohol tests<sup>10</sup> are shown in the graph at right. The statistical basis for those rates is provided in the table next to the graph. The rates are subdivided by employer type and size, by employee category, by



Return to Duty Tests, Positives, and Refusals										
	Drugs	Alcohol								
Testing Events	1,283	713								
Refusals + Positives	36	4								
Positives	28	3								
Total Refusals	8	1								
Refusal to take test	5	1								
Shy Bladder/Lung	2	0								
Adulterated	0	N. A.								
Substituted	1	N. A.								
Refusal Rate	0.624	0.140								

FTA region, and by type of drug later in this section.

### 5.1.1 Return to Duty Test Data by Employer Type and Size

The rates in the preceding graph are subdivided by employer type, by employer size, and by employer size and type, respectively, in the three graphs on the next page. The three tables that follow the graphs provide the statistical basis for the rates.

The graph (at right on the next page) showing employer size rates subdivided by employer type shows alcohol rates for only large transit employers because no confirmed alcohol positives or test refusals were reported by small or rural employers or by contractors.

<sup>&</sup>lt;sup>10</sup> A positive alcohol test is a confirmed specimen with a breath alcohol level of at least 0.04.



### Return to Duty Tests, Positives, and Refusals by Employer Type

-	Dri	ugs	Alc	ohol
	Transit	Contractor	Transit	Contractor
Testing Events	1,027	256	642	71
Refusals + Positives	30	6	4	0
Positives	24	4	3	0
Total Refusals	6	2	1	0
Refusal to take test	4	1	1	0
Shy Bladder/Lung	1	1	0	0
Adulterated	0	0	N. A.	N. A.
Substituted	1	0	N. A.	N. A.
Refusal Rate	0.584	0.781	0.156	0

#### Return to Duty Tests, Positives, and Refusals by Employer Size

	I	Drugs	;	Alcohol							
	Large	Small	Rural	Large	Small	Rural					
Testing Events	1,074	99	110	658	34	21					
R+P	33	1	2	4	0	0					
Positives (P)	26	1	1	3	0	0					
Total Refusals (R)	7	0	1	1	0	0					
Refusal to take test	5	0	0	1	0	0					
Shy Bladder/Lung	1	0	1	0	0	0					
Adulterated	0	0	0	N. A.	N. A.	N. A.					
Substituted	1	0	0	N. A.	N. A.	N. A.					
Refusal Rate	0.652	0.000	0.909	0.152	0	0					

### Return to Duty Tests, Positives, and Refusals by Employer Size and Employer Type

			Dru	ugs			Alcohol							
	Large		Sn	nall	Rı	Rural		Large		Small		ural		
	Transit	Contractor												
Testing Events	842	232	86	13	99	11	592	66	30	4	20	1		
Refusals + Positives	27	6	1	0	2	0	4	0	0	0	0	0		
Positives	22	4	1	0	1	0	3	0	0	0	0	0		
Total Refusals	5	2	0	0	1	0	1	0	0	0	0	0		
Refusal to take test	4	1	0	0	0	0	1	0	0	0	0	0		
Shy Bladder/Lung	0	1	0	0	1	0	0	0	0	0	0	0		
Adulterated	0	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.		
Substituted	1	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.		
Refusal Rate	0.594	0.862	0.000	0.000	1.010	0.000	0.169	0	0	0	0	0		

### 5.1.2 Return to Duty Test Data by Employee Category

The following graph shows the rates for return to duty drug tests and alcohol tests by employee category. The table next to it provides the statistical basis for the rates.



Return to Duty Tests, Positives, and Refusals
by Employee Category

			Drugs		
	RVO	RV&EM	RVC/D	CDL/N-RV	ASP
Testing Events	934	248	51	43	7
Refusals + Positives	27	7	0	2	0
Positives	22	6	0	0	0
Total Refusals	5	1	0	2	0
Refusal to take test	4	1	0	0	0
Shy Bladder	0	0	0	2	0
Adulterated	0	0	0	0	0
Substituted	1	0	0	0	0
Refusal Rate	0.535	0.403	0	4.651	0
			Alcoho	I	
	RVO	RV&EM	RVC/D	CDL/N-RV	ASP
Testing Events	494	167	20	26	6
Refusals + Positives	4	0	0	0	0
Positives	3	0	0	0	0
Total Refusals	1	0	0	0	0
Refusal to take test	1	0	0	0	0
Shy Lung	0	0	0	0	0
Refusal Rate	0.202	0	0	0	0

The rates in the preceding graph are subdivided by employer type and by employer size, respectively, in the two graphs below. The tables on the next page provide the statistical basis for the rates. *The graphs below do not contain columns for employee categories that show a rate of "0" in the preceding graph.* Some of the rates in each graph are presented on a separate scale because their sample sizes are too small to be representative of their populations. *The graph at far right* 

contains alcohol rate columns for only large employers because no positive return to duty alcohol tests were reported by small or rural employers in 2003.



		Drugs											
	R۱	V0	RVa	&EM	RV	C/D	CDL	/N-RV	ASP				
	Transit	Contractor											
Testing Events	745	189	200	48	38	13	38	5	6	1			
Refusals + Positives	24	3	5	2	0	0	1	1	0	0			
Positives	20	2	4	2	0	0	0	0	0	0			
Total Refusals	4	1	1	0	0	0	1	1	0	0			
Refusal to take test	3	1	1	0	0	0	0	0	0	0			
Shy Bladder	0	0	0	0	0	0	1	1	0	0			
Adulterated	0	0	0	0	0	0	0	0	0	0			
Substituted	1	0	0	0	0	0	0	0	0	0			
Refusal Rate	0.537	0.529	0. 500	0	0	0	2.632	20.000	0	0			
	Alashal												

#### Return to Duty Tests, Positives, and Refusals by Employee Category and Employer Type

		Alcohol											
	R۱	/0	RV&EM RVC/D			C/D	CDL	/N-RV	ASP				
	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor			
Testing Events	448	46	143	24	19	1	26	0	6	0			
Refusals + Positives	4	0	0	0	0	0	0	0	0	0			
Positives	3	0	0	0	0	0	0	0	0	0			
Total Refusals	1	0	0	0	0	0	0	0	0	0			
Refusal to take test	1	0	0	0	0	0	0	0	0	0			
Shy Lung	0	0	0	0	0	0	0	0	0	0			
Refusal Rate	0.223	0	0	0	0	0	0	0	0	0			
F	RVO = Rever	O = Revenue Vehicle Operation RV&EM = Revenue Vehicle and Equipment Maintenance											

RVC/D = Revenue Vehicle Control/Dispatching

CDL/N-RV = CDL/Non-Revenue Vehicle

ASP = Armed Security Personnel

### Return to Duty Tests, Positives, and Refusals by Employee Category and Employer Size

		Drugs													
		RVO RV&EM RVC/D CDL/N-RV ASP													
	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural
Testing Events	765	75	94	227	13	8	40	7	4	37	2	4	5	2	0
Refusals + Positives	25	1	1	7	0	0	0	0	0	1	0	1	0	0	0
Positives	20	1	1	6	0	0	0	0	0	0	0	0	0	0	0
Total Refusals	5	0	0	1	0	0	0	0	0	1	0	1	0	0	0
Refusal to take test	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Shy Bladder	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Adulterated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Substituted	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Refusal Rate	0.654	0	0	0.441	0	0	0	0	0	2.703	0	25.00	0	0	0

		Alcohol													
		RVO RV&EM RVC/D CDL/N-RV ASP													
	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural
Testing Events	454	24	16	161	5	1	14	3	3	25	0	1	4	2	0
Refusals + Positives	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Positives	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Refusals	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Refusal to take test	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shy Lung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Refusal Rate	0.220	0	0	0	0	0	0	0	0	0	0	0	0	0	0

RVO = Revenue Vehicle Operation RVC/D = Revenue Vehicle Control/Dispatching RV&EM = Revenue Vehicle and Equipment Maintenance

CDL/N-RV = CDL/Non-Revenue Vehicle

ASP = Armed Security Personnel

### 5.1.3 Return to Duty Test Data by FTA Region

The following map shows the rates for return to duty drug tests for each of FTA's ten regions. The shading variations enable quick comparison. The exact rates are also included. The statistical basis for those rates is provided in the accompanying table. The total number of refusals by FTA Region listed in that table is subdivided by the individual types of refusals in the table that follows the map. That table also includes the overall return to duty drug test refusal rates by FTA region.



Return to Duty Drug Tests, Positives, and Refusals

	by FTA Region											
Region	Testing Events	Positives	Refusals									
1	53	3	0									
2	226	6	0									
3	209	5	6									
4	178	1	0									
5	208	5	0									
6	78	2	0									
7	26	1	0									
8	33	1	0									
9	221	3	2									
10	51	1	0									

#### Data on Return to Duty Drug Test Refusal Types by FTA Region

								<u> </u>		
Region	1	2	3	4	5	6	7	8	9	10
Refusal to take test	0	0	3	0	0	0	0	0	2	0
Shy Bladder	0	0	2	0	0	0	0	0	0	0
Adulterated	0	0	0	0	0	0	0	0	0	0
Substituted	0	0	1	0	0	0	0	0	0	0
Overall Refusal Rate	0	0	2.871	0	0	0	0	0	0.905	0

Because only three return to duty alcohol positives and one refusal were reported in 2003, the alcohol rates for each region appear in a table, along with the statistical basis for those rates.

Return to Duty Alconol Data by LIA Region										
Region	1	2	3	4	5	6	7	8	9	10
Rate	0	0	1.17	0	0	2.50	0	0	0	5.88
Testing Events	24	150	171	75	83	40	14	11	128	17
Refusals + Positives	0	0	2	0	0	1	0	0	0	1
Positives	0	0	1	0	0	1	0	0	0	1
Total Refusals	0	0	1	0	0	0	0	0	0	0
Refusal to take test	0	0	1	0	0	0	0	0	0	0
Shy Lung	0	0	0	0	0	0	0	0	0	0
Refusal Rate	0	0	0.585	0	0	0	0	0	0	0

#### Return to Duty Alcohol Data by FTA Region

### 5.1.4 Return to Duty Test Data by Type of Drug

The table at immediate right shows the number of drug testing events and the number and percent that were verified positive for each drug type. The table at far right shows the percentage by drug type of the total drug type detections. These data are subdivided by employer

#### Return to Duty Tests, Positives, and Rates by Drug Type

	, ,							
1,283 Testing Events								
Positives Percent								
Marijuana	18	1.40						
Cocaine	8	0.62						
PCP	0	0						
Opiates	1	0.08						
Amphetamines	0	0						

#### Percentage by Drug Type for **Return to Duty Positives** Marijuana 66.7 Cocaine 29.6 PCP 0 Opiates 3.7 Amphetamines 0

type, by employer size, and by employee category in the tables below.

#### Return to Duty Tests, Positives, and Rates by Employer Type and Drug Type

	Tra	nsit	Contractor							
Testing Events	1,0	)27	256							
	Positives	Percent	Positives	Percent						
Marijuana	16	1.56	2	0.78						
Cocaine	6	0.58	2	0.78						
PCP	0	0	0	0						
Opiates	1	0.10	0	0						
Amphetamines	0	0	0	0						

#### Percentage by Employer Type and Drug Type for Return to Duty Positives

<u></u>									
	Transit	Contractor							
Marijuana	69.6	50.0							
Cocaine	26.1	50.0							
PCP	0	0							
Opiates	4.3	0							
Amphetamines	0	0							

#### Return to Duty Tests, Positives, and Rates by Employer Size and Drug Type

	Lai	rge	Sm	nall	Rural				
Testing Events	1,074		9	9	110				
	Positives Percent		Positives	Percent	Positives	Percent			
Marijuana	16	1.49	1	1.01	1	0.91			
Cocaine	8	0.74	0	0	0	0			
PCP	0	0	0	0	0	0			
Opiates	1	0.09	0	0	0	0			
Amphetamines	0	0.00	0	0	0	0			

#### Percentage by Employer Size and Drug Type for Return to Duty Positives

	Large	Small	Rural
Marijuana	64.0	100	100
Cocaine	32.0	0	0
PCP	0	0	0
Opiates	4.0	0	0
Amphetamines	0	0	0

### Return to Duty Tests, Positives, and Rates by Employee Category and Drug Type

#### Percentage by Employee Category and Drug Type for n to Duty Positives

RVC CDL/

/D

0

0

0

0

0

N-RV

0

0

0

0

0

ASP

0

0

0

0

0

RV&

ΕM

50.0

50.0

0

0

0

	R\	/0	RV&EM		RV	RVC/D		CDL/N-RV		ASP		Return to		
Testing Events	934		248		51		43		7			RVO	RV	
	Positives	Percent	Positives	Percent	Positives	Percent	Positives	Percent	Positives	Percent		RVU	EM	
Marijuana	15	1.61	3	1.21	0	0	0	0	0	0	Μ	71.4	50.	
Cocaine	5	0.54	3	1.21	0	0	0	0	0	0	С	23.8	50.	
PCP	0	0	0	0	0	0	0	0	0	0	Ρ	0	0	
Opiates	1	0.11	0	0	0	0	0	0	0	0	0	4.8	0	
Amphetamines	0	0	0	0	0	0	0	0	0	0	А	0	0	
RVO = Revenue Vehicle Operation						RV&EM = Revenue Vehicle and Equip			pment Maintenance					
RVC/D = Revenue Vehicle Control/Dispatching						CDL/N-RV = CDL/Non-Revenue Vehicle			ASP = Armed S					

#### C = Cocaine P = Phencyclidine (PCP)

med Security Personnel O = Opiates

A = Amphetamines

M = Marijuana
# 5.2 Follow-Up Test Data

The combined percentage of positive tests plus test refusals for follow-up drug tests and alcohol tests are shown in the graph at right. The statistical basis for those rates is provided in the table next to the graph. The rates are subdivided by employer type and size, employee category, FTA region, and type of drug later in this section.



**Follow-Up Rates** 

by Employer Size and Employer Type

# 5.2.1 Follow-Up Test Data by Employer Type and Size

The rates in the preceding graph are subdivided by employer type, by employer size, and by employer size and type, respectively, in the following three graphs. Two of the rates in the graph at right are presented on a separate scale because their sample sizes are too small to be

representative of their populations. The tables on the next page provide the statistical basis for the rates.



by Employer Type								
	Dru	ıgs	Alc	ohol				
	Transit	Contractor	Transit	Contractor				
Testing Events	7,126	854	5,428	522				
Refusals + Positives	129	31	18	1				
Positives	122	27	16	1				
Total Refusals	7	4	2	0				
Refusal to take test	6	3	2	0				
Shy Bladder/Lung	0	0	0	0				
Adulterated	0	1	N. A.	N. A.				
Substituted	1	0	N. A.	N. A.				
Refusal Rate	0.098	0.468	0.037	0				

### Follow-Up Tests, Positives, and Refusals by Employer Type

# Follow-Up Tests, Positives, and Refusals by Employer Size

by Employer Size							
	I	Drugs		Alcohol			
	Large	Small	Rural	Large	Small	Rural	
Testing Events	7,576	146	258	5,806	71	73	
Refusals + Positives	140	7	13	17	1	1	
Positives	130	6	13	15	1	1	
Total Refusals	10	1	0	2	0	0	
Refusal to take test	8	1	0	2	0	0	
Shy Bladder/Lung	0	0	0	0	0	0	
Adulterated	1	0	0	N. A.	N. A.	N. A.	
Substituted	1	0	0	N. A.	N. A.	N. A.	
Refusal Rate	0.132	0.685	0	0.034	0	0	

# Follow-Up Tests, Positives, and Refusals by Employer Size and Employer Type

			Dru	ugs			Alcohol						
	Large		Sn	nall	Rural		La	rge	Sn	nall	Rı	ural	
	Transit	Contractor											
Testing Events	6,766	810	127	19	233	25	5,307	499	56	15	65	8	
Refusals + Positives	114	26	4	3	11	2	16	1	1	0	1	0	
Positives	108	22	3	3	11	2	14	1	1	0	1	0	
Total Refusals	6	4	1	0	0	0	2	0	0	0	0	0	
Refusal to take test	5	3	1	0	0	0	2	0	0	0	0	0	
Shy Bladder/Lung	0	0	0	0	0	0	0	0	0	0	0	0	
Adulterated	0	1	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
Substituted	1	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	
Refusal Rate	0.089	0.494	0.787	0	0	0	0.038	0	0	0	0	0	

# 5.2.2 Follow-Up Test Data by Employee Category

The graph at right shows the rates for follow-up drug tests and alcohol tests by employee category. The table on the next page provides the statistical basis for the rates. These data are further subdivided by employer type and employer size in the subsequent graphs and tables. The graphs subdivided by employer type and employer size do not contain columns for employee categories that show a rate of "0" in the graph at right. Three of the drug rates and one of the alcohol rates in the employer size graph are presented on a separate scale because their sample sizes are too small to be representative of their populations.



			Drugs			Alcohol					
	RVO	RV&EM	RVC/D	CDL/N-RV	ASP	RVO	RV&EM	RVC/D	CDL/N-RV	ASP	
Testing Events	5,107	2,357	271	231	14	3,617	2,058	161	114	0	
Refusals + Positives	122	27	7	4	0	8	11	0	0	0	
Positives	114	25	6	4	0	7	10	0	0	0	
Total Refusals	8	2	1	0	0	1	1	0	0	0	
Refusal to take test	6	2	1	0	0	1	1	0	0	0	
Shy Bladder	0	0	0	0	0	0	0	0	0	0	
Adulterated	1	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	
Substituted	1	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	
Refusal Rate	0.157	0.085	0.369	0	0	0.028	0.049	0	0	0	
$P_{1} = P_{2} = V_{2} = V_{2} = V_{2} = V_{2} = P_{1} = P_{2}$							and Equipmon	t Maintonan	20		

### Follow-Up Tests, Positives, and Refusals by Employee Category

RVO = Revenue Vehicle Operation RVC/D = Revenue Vehicle Control/Dispatching

RV&EM = Revenue Vehicle and Equipment Maintenance CDL/N-RV = CDL/Non-Revenue Vehicle

ASP = Armed Security Personnel



RVO = Revenue Vehicle Operation RV&EM = Revenue Vehicle and Equipment Maintenance RVC/D = Revenue Vehicle Control/Dispatching CDL/N-RV = CDL/Non-Revenue Vehicle



## Follow-Up Rates by Employee Category and Employer Size

		Drugs									
	R۱	/0	RV	&EM	RV	C/D	CDL	/N-RV	A	SP	
	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	
Testing Events	4,554	553	2,132	225	220	51	208	23	12	2	
Refusals + Positives	102	20	20	7	4	3	3	1	0	0	
Positives	97	17	18	7	4	2	3	1	0	0	
Total Refusals	5	3	2	0	0	1	0	0	0	0	
Refusal to take test	4	2	2	0	0	1	0	0	0	0	
Shy Bladder	0	0	0	0	0	0	0	0	0	0	
Adulterated	0	1	0	0	0	0	0	0	0	0	
Substituted	1	0	0	0	0	0	0	0	0	0	
Refusal Rate	0.110	0.542	0.094	0	0	0.1961	0	0	0	0	
					Alc	ohol					
	R۱	/0	RV	RV&EM RVC/D			D CDL/N-RV			SP	
	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	Transit	Contractor	
Testing Events	3,318	299	1,868	190	139	22	103	11	0	0	
Refusals + Positives	8	0	10	1	0	0	0	0	0	0	
Positives	7	0	9	1	0	0	0	0	0	0	
Total Refusals	1	0	1	0	0	0	0	0	0	0	
Refusal to take test	1	0	1	0	0	0	0	0	0	0	
Shy Lung	0	0	0	0	0	0	0	0	0	0	
Refusal Rate	0.030	0	0.054	0	0	0	0	0	0	0	
	N/O = Povon	ua Vahiela Or	oration	R\/8 EM - Revenue \/ehicle and Equinment Maintenance							

### Follow-Up Tests, Positives, and Refusals by Employee Category and Employer Type

RVO = Revenue Vehicle Operation RVC/D = Revenue Vehicle Control/Dispatching

RV&EM = Revenue Vehicle and Equipment Maintenance CDL/N-RV = CDL/Non-Revenue Vehicle

ASP = Armed Security Personnel

# Follow-Up Tests, Positives, and Refusals by Employee Category and Employer Size

		Drugs													
		RVO RV&EM			Л	RVC/D			CDL/N-RV			ASP			
	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural
Testing Events	4,798	104	205	2,298	30	29	242	12	17	224	0	7	14	0	0
Refusals + Positives	107	5	10	24	1	2	6	1	0	3	0	1	0	0	0
Positives	100	4	10	22	1	2	5	1	0	3	0	1	0	0	0
Total Refusals	7	1	0	2	0	0	1	0	0	0	0	0	0	0	0
Refusal to take test	5	1	0	2	0	0	1	0	0	0	0	0	0	0	0
Shy Bladder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adulterated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Substituted	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Refusal Rate	0.146	0.962	0	0.087	0	0	0.413	0	0	0	0	0	0	0	0
								1 1							

		Alcohol														
		RVO			RV&EM			RVC/D			CDL/N-RV			ASP		
	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	Large	Small	Rural	
Testing Events	3,502	58	57	2,037	13	8	154	0	7	113	0	1	0	0	0	
Refusals + Positives	7	0	1	10	1	0	0	0	0	0	0	0	0	0	0	
Positives	6	0	1	9	1	0	0	0	0	0	0	0	0	0	0	
Total Refusals	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Refusal to take test	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Shy Lung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Refusal Rate	0.029	0	0	0.049	0	0	0	0	0	0	0	0	0	0	0	

RVO = Revenue Vehicle Operation RVC/D = Revenue Vehicle Control/Dispatching

RV&EM = Revenue Vehicle and Equipment Maintenance

CDL/N-RV = CDL/Non-Revenue Vehicle

ASP = Armed Security Personnel

# 5.2.3 Follow-Up Test Data by FTA Region

The following two maps show the rates for follow-up drug tests and alcohol tests for each of FTA's ten regions. The shading variations enable quick comparison. The exact rates are also included. The statistical basis for those rates is provided in the accompanying tables. The total number of test refusals is subdivided by the individual types of refusals in the table following the maps.



Follow-Up Alcohol Rates by FTA Region

0

0.39

6

10

0

0.50

0.92

8

#### Follow-Up Drug Tests, Positives, and Refusals by FTA Region

	0 9 1 1/	r negioi	1
Region	Testing Events	Positives	Refusals
1	302	10	0
2	1,904	26	3
3	1,474	17	3
4	382	8	0
5	1,310	33	1
6	316	6	0
7	191	10	0
8	198	4	2
9	1,409	28	2
10	494	7	0

Follow-Up Alcohol Tests, Positives, and Refusals by FTA Region

3			a Regioi	1
	Region	Testing Events	Positives	Refusals
	1	243	0	0
	2	1,819	5	0
	3	1,276	3	1
	4	136	1	0
	5	506	1	0
	6	259	1	0
	7	87	0	0
	8	109	1	0
	9	1,203	5	1
	10	312	0	0

### Data on Return to Duty Drug Test Refusal Types by FTA Region

0.74

0.3

	Drugs								Alcohol											
Region	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
RTT	0	2	3	0	1	0	0	2	1	0	0	0	1	0	0	0	0	0	1	0
SB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adul	0	1	0	0	0	0	0	0	0	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.
Sub	0	0	0	0	0	0	0	0	1	0	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.
R Rate	0	0.158	0.204	0	0.076	0	0	1.010	0.142	0	0	0	0.078	0	0	0	0	0	0.083	0
RTT :	= refusa	al to take	e test	SB	= shy bl	adder	SI	_ = shy l	ung	Adul	= adult	erated	Su	ub = sub	stituted		R Rate :	= overal	l refusal	rate

# 5.2.4 Follow-Up Test Data by Type of Drug

The two tables at right show follow-up test data for each type of drug tested for. The table at immediate right shows the number of testing events and the number and percent of those verified positive by drug type. The table at far right shows the

### Follow-Up Tests, Positives, and Rates by Drug Type

7,980 Testing Events								
	Positives	Percent	f					
Marijuana	58	0.73	М					
Cocaine	79	0.99	С					
PCP	0	0	P					
Opiates	4	0.05	0					
Amphetamines	11	0.14	Aı					

#### ercentage by Drug Type for Follow-Up Positives

	03111403
Marijuana	38.2
Cocaine	52.0
PCP	0
Opiates	2.6
Amphetamines	7.2

percentage by drug type of the total drug type detections. These data are divided by employer type, employer size, and employee category in the tables that follow.

### Follow-Up Tests, Positives, and Rates by Employer Type and Drug Type

	, ,		0 71			
	Tra	nsit	Contractor			
Testing Events	7,1	26	854			
	Positives	Percent	Positives	Percent		
Marijuana	47	0.66	11	1.30		
Cocaine	68	0.95	11	1.30		
PCP	0	0	0	0		
Opiates	4	0.06	0	0		
Amphetamines	8	0.11	3	0.35		

### Percentage by Employer Type and **Drug Type for Follow-Up Positives**

	Transit	Contractor
Marijuana	37.0	44.0
Cocaine	53.6	44.0
PCP	0	0
Opiates	3.1	0
Amphetamines	6.3	12.0

### Follow-Up Tests, Positives, and Rates by Employer Size and Drug Type

	<u> </u>		<u> </u>						
	Lar	ge	Sm	nall	Rural				
Testing Events	7,5	576	14	16	258				
	Positives	Percent	Positives	Percent	Positives	Percent			
Marijuana	52	0.69	3	2.05	3	2.05			
Cocaine	68	0.90	3	2.05	8	5.48			
PCP	0	0	0	0	0	0			
Opiates	4	0.05	0	0	0	0			
Amphetamines	9	0.12	0	0	2	0.78			

### Percentage by Employer Size and **Drug Type for Follow-Up Positives**

	Large	Small	Rural
Marijuana	39.1	50.0	23.1
Cocaine	51.1	50.0	61.5
PCP	0	0	0
Opiates	3.0	0	0
Amphetamines	6.8	0	15.4

### Follow-Up Tests, Positives, and Rates hy Employee Category and Drug Type

by Employee Category and Drug Type										
	R۱	/0	RV8	RV&EM		C/D	CDL/	N-RV	ASP	
<b>Testing Events</b>	5,107		2,357		271		23	31	14	
	Positives	Percent								
Marijuana	41	0.80	11	0.47	3	1.11	3	1.30	0	0
Cocaine	66	1.29	11	0	2	0.74	0	0	0	0
PCP	0	0	0	0	0	0	0	0	0	0
Opiates	3	0.06	1	0.04	0	0	0	0	0	0
Amphetamines	7	0.14	4	0.17	0	0	0	0	0	0

RVO = Revenue Vehicle Operation RVC/D = Revenue Vehicle Control/Dispatching

RV&EM = Revenue Vehicle and Equipment Maintenance CDL/N-RV = CDL/Non-Revenue Vehicle

A 6.0 14.8

ASP = Armed Security Personnel

Percentage by Employee

Category and Drug Type for Follow-Up Positives

RVC

/D

0

0

0

CDL/

N-RV

100

0

0

0

0

ASP

0

0

0

0

0

RV&

ΕM

M 35.0 40.7 60.0

C 56.4 40.7 40.0

0

3.7

RVO

Ρ 0

O 2.6

# Appendix A. Glossary

**Alcohol:** The intoxicating agent in beverage alcohol, ethyl alcohol, or other low molecular weight alcohols including methyl or isopropyl alcohol.

**Alcohol concentration:** The alcohol in a volume of breath expressed in terms of grams of alcohol per 210 liters of breath as indicated by a breath test using an evidential breath testing (EBT) device.

**Alcohol positive:** A confirmed specimen with a breath alcohol level of at least 0.04.

**Alcohol use:** The consumption of any beverage, mixture, or preparation, including any medication containing alcohol.

**Armed security personnel:** A safety-sensitive employee category that includes any person who provides security to protect persons or property, and any person who carries a firearm.

**Canceled or invalid test:** A drug or alcohol test that has been declared invalid by a Medical Review Officer (MRO). It is neither a positive nor a negative test.

**CDL/non-revenue vehicle:** A safety-sensitive employee category that includes any person who holds a Commercial Driver's License (CDL), performs a function requiring a CDL, and is not included in any other job category.

**Confirmed alcohol specimen (or test result):** The breath alcohol level obtained using an evidential breath testing (EBT) device. The specimen, referred to as a confirmation test, is required to be taken from any employee who completes an initial screening test producing a breath alcohol level of at least 0.02. The confirmed result is the official alcohol test result.

**Consortium:** An entity, including a group or association of employers, operators, recipients, subrecipients, or contractors, that provides drug testing services and acts on behalf of the employer.

**Contractor:** A person or organization that provides a service for a recipient, subrecipient, employer, or operator consistent with a specific understanding or arrangement. The understanding can be a written contract or an informal arrangement that reflects an ongoing relationship between the parties.

**Drug metabolite:** The specific substance produced when the human body metabolizes a prohibited drug as it passes through the body and is excreted in urine.

# Drug positive: See "verified positive."

**Drug type:** A classification of the five prohibited substances that must be tested for in accordance with Part 40: marijuana, cocaine, phencyclidine (PCP), opiates, and amphetamines.

**Employee category:** One of five classifications of safety-sensitive employees defined by Part 655. The categories are listed under "safety-sensitive employees" and each category is defined under its title.

**Employer:** A recipient or other entity that provides mass transportation services or performs a safety-sensitive function for such recipient or other entity. This term includes subrecipients, operators, and contractors.

**Employer size:** A classification of employers based on the population of the primary area in which they operate: large, small, or rural. These categories are defined under "large employers," "small employers," and "rural employers," respectively.

**Employer type:** A classification of employers based on whether they receive funding from FTA: transit agency or contractor. These categories are defined under their titles.

**Follow-up testing:** Required of employees who have returned to duty in a safety-sensitive position following a verified positive drug test, a confirmed alcohol result of 0.04 or greater, a refusal to submit to a test, or any other violation of Part 40 or 655. A minimum of six tests for the test or violation at issue (drug or alcohol) must be performed during the first 12 months after the employee returns to duty. Testing for both drugs and alcohol is permitted. The SAP can require that additional follow-up tests be performed, up to 5 years following return to duty.

**FTA:** The Federal Transit Administration, an agency of the U.S. Department of Transportation (DOT).

**Large operator:** A recipient or subrecipient primarily operating in an area with a population of 200,000 or more.

**Medical Review Officer (MRO):** A licensed physician (Doctor of Medicine or Doctor of Osteopathy) who is responsible for receiving laboratory results generated by an employer's drug testing program and who has knowledge of substance abuse disorders and appropriate medical training to interpret and evaluate a person's positive test result together with appropriate medical history and any other relevant biomedical information.

**Part 40:** US DOT's testing regulation titled *Procedures for Transportation Workplace Drug and Alcohol Testing Programs*, which was enacted in 1994, revised in 2000, and amended in 2003.

**Part 655:** FTA's testing regulation titled *Prevention of Alcohol Misuse and Prohibited Drug Use in Transit Operations.* In was enacted in 2001 to expand the minimum requirements of the revised Part 40 and to combine the previous FTA testing regulations enacted in 1994: Part 653, *Prevention of Prohibited Drug Use in Transit Operations*, and Part 654, *Prevention of Alcohol Misuse in Transit Operations*.

**Post-accident testing:** Required for both prohibited drugs and alcohol following a mass transit accident that meets any of three other criteria and the employee's involvement cannot be completely discounted as a contributing factor: (1) when a person suffers a bodily injury and immediately receives medical attention away from the scene, (2) when any vehicle involved in the accident incurs damage requiring it to be transported away from the scene by a tow truck or other vehicle, or (3) when the mass transit vehicle involved is a rail car, trolley car, trolley bus, or vessel and is removed from revenue service due to the accident. Employees to be tested include the vehicle operator and any other safety-sensitive employee not in the vehicle whose performance could have contributed to the accident.

**Pre-employment testing:** Required for drugs before an applicant or existing employee performs a safety-sensitive function for the first time or following an absence from safety-sensitive duties for more than 90 consecutive calendar days. Employers are not required to perform pre-employment alcohol tests, but are permitted to perform such tests under their own authority providing they are performed in accordance with the requirements of Part 40.

**Random testing:** Required for both drugs and alcohol for a certain percentage (specified by the FTA Administrator) of each employer's safety-sensitive employees each year. The tests are to be unannounced, the pattern is to unpredictable, and tests are to be performed during all days and hours that employees in the random pool perform safety-sensitive duties. Employees are selected based on a scientifically valid random-number selection method. Random testing is considered by FTA to be the most effective deterrent to drug use and alcohol misuse.

**Random testing rate:** The rate at which each employer must conduct random tests each year. The number of random drug tests must equal a percentage (specified by FTA each year) of the number of the employer's safety-sensitive employees. In 2002, the drug testing rate was 50 percent, and the alcohol testing rate was 10 percent. These rates remained the same in 2003. They can

be amended (per Part 655.45) by the FTA Administrator based on the combined percentage of positive tests plus test refusals.

**Reasonable suspicion testing:** Required when an employer has reasonable suspicion that an employee has used a prohibited drug or has misused alcohol as defined in Part 40. Reasonable suspicion testing must be based on specific, contemporaneous, articulable observations made by a trained supervisor concerning the appearance, behavior, speech, or body odor of a safety-sensitive employee.

**Recipient:** An entity receiving financial assistance under Section 5307, 5309, or 5311 of the Federal Transit Act or under Section 103(e)(4) of Title 23 of the U.S. Code. A *direct recipient* receives funding directly from FTA, i.e., most large transit agencies, state governments, and metropolitan planning organizations (MPOs). A *subrecipient* receives funding from a state government or from an MPO.

**Return to duty testing:** Required before an employee is allowed to return to duty to perform a safety-sensitive function following a verified positive drug test, a confirmed alcohol result of 0.04 or greater, a refusal to submit to a test, or any other violation of Part 40 or 655. The test performed (drug or alcohol) must be the same as the test or violation at issue. Testing for both drugs and alcohol is permitted.

**Revenue vehicle and equipment maintenance:** A safety-sensitive employee category that includes any person who maintains revenue service vehicles or equipment. It also includes many maintenance contract employees who perform routine, ongoing repair or maintenance for FTA recipients and subrecipients that have employees, including supervisors, who perform or could be called upon to perform any of the FTA safety-sensitive functions. Maintenance contractors of 5311 funding recipients are not subject to the testing regulations.

**Revenue vehicle control/dispatching:** A safety-sensitive employee category that includes any person who controls the dispatch or movement of revenue service vehicles.

**Revenue vehicle operations:** A safety-sensitive employee category that includes any person who operates or works as a crewman on revenue service vehicles at any time, even if the vehicles are not in service.

**Rural operator:** A subrecipient of 5311 funding primarily operating in an area with a population of less than 50,000.

**Safety-sensitive employee:** An employee who performs any of the five safety-sensitive job functions specified in Part 40:

- Revenue vehicle operations
- Revenue vehicle and equipment maintenance
- Revenue vehicle control/dispatching
- CDL/non-revenue vehicle
- Armed security personnel

**Small operator:** A recipient or subrecipient primarily operating in an area with a population of 50,000 or greater and less than 200,000.

**Substance Abuse Professional (SAP):** A licensed physician (Doctor of Medicine or Doctor of Osteopathy), or a licensed or certified psychologist, social worker, employee assistance professional, or addiction counselor (certified by the National Association of Alcoholism and Drug Abuse Counselors Certification Commission), with knowledge of and clinical experience in the diagnosis and treatment of drug and alcohol-related disorders.

**Test refusal:** Failure to produce a required urine or breath screen or specimen in accordance with Part 40. There are four types of drug test refusals and two types of alcohol test refusals:

- Adulterated submittal of an adulterated urine specimen
- Substituted submittal of urine not produced at the collection site
- Shy bladder with no medical explanation failure to provide enough urine at the collection site, and no medical reason for the failure is found by the MRO
- Other refusals to submit to drug testing Examples include failure to report to the collection site as directed by the employer, leaving the collection site without permission, and failure to empty pockets at the collection site.
- Shy lung with no medical explanation failure to provide enough breath at the collection site, and no medical reason for the failure is found by the MRO
- Other refusals to submit to alcohol testing same examples as for drug tests

**Test type:** A classification of the five circumstances that safety-sensitive employees must be tested for in accordance with Part 40: random, post-accident, reasonable suspicion, pre-employment, and return to duty/follow-up (which consists of both return to duty tests and follow-up tests, in accordance with Part 655). These test types are defined under their titles.

**Testing event:** A scheduled test that is submitted to or refused by the employee and not canceled by the MRO.

**Transit agency:** The public entity responsible for providing mass transit services that receives funding from FTA, either directly from FTA or indirectly from a state government or MPO.

**Verified drug positive:** A urine specimen with a concentration above the minimum thresholds specified in Part 40 obtained during a second urine test procedure and verified by an MRO during an independent review conducted in accordance with Part 40. A second test is required for any employee who produces a positive result in the initial drug screening test. The verified result, which identifies and quantifies the presence of any of the five prohibited drugs or drug metabolites, is the official drug test result. Both the initial and second specimens must be collected in accordance with Part 40 and analyzed in a DHHS-approved laboratory.

# Appendix B. FTA Regions

The Federal Transit Administration (FTA) has ten regions, which are identified below. The data provided by these regions have facilitated the comparison of drug and alcohol test results and the identification of regional trends.

		•	•	U
Region 1	Region 2	Region 3	Region 4	Region 5
Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	New Jersey New York Virgin Islands	Delaware District of Columbia Maryland Pennsylvania Virginia West Virginia	Alabama Florida Georgia Kentucky Mississippi North Carolina Puerto Rico South Carolina Tennessee	Illinois Indiana Michigan Minnesota Ohio Wisconsin
Region 6	Region 7	Region 8	Region 9	Region 10
Arkansas Louisiana New Mexico Oklahoma Texas	lowa Kansas Missouri Nebraska	Colorado Montana North Dakota South Dakota Utah Wyoming	American Samoa Arizona California Guam Hawaii Nevada Northern Mariana Islands	Alaska Idaho Oregon Washington

# U.S. States and Territories Reporting to the 10 FTA Regions

# Appendix C. MIS Data Collection Form

## U.S. DEPARTMENT OF TRANSPORTATION DRUG AND ALCOHOL TESTING MIS DATA COLLECTION FORM

		ar Covered by t					OL TESI		DATAC	OMB No. 2			
Company Name:													
Doing Business As (I	DBA) N	ame (if applical	ole):										
Address:									E-ma	uil:			
Name of Certifying C													
Telephone: ()_													
Prepared by (if differ													
C/TPA Name and Te										)			
Check the DOT agency	for whi	ch you are rep	orting MI	S data;	and compl	ete the inf	formation	n on that sa	me line a	s approp	riate:	VEC and	
FMCSA – Motor Ca FAA – Aviation: Ce RSPA – Pipeline: (C	ertificate	# (if applicable	e):		_ Owner-o	Plan /	Registrati	$1 \pm 3$ of $1 \pm 3$ of $1 \pm 3$ of $1 \pm 3$ of $1 \pm 3$	no Explicable):	empt (Ch	cie Olie)	165 01 1	NU
RSPA – Pipeline: (C	Check) C	Gas Gathering	Gas Tran	smission	Gas Dis	stribution	_ Transpo	ort Hazardo	us Liquid	s Trans	port Carbo	on Dioxide	<u> </u>
FRA – Railroad: To USCG – Maritime:	Vessel I	D # (USCG- or	State-Issu	ed Part . ed):	219 Rule C	J Observ	ations for	covered en	If more	e than one	vessel, lis	st separate	ly.)
FTA – Transit									_		-		
I. Covered Employe				ifety-Sei	nsitive Emj	ployees In	All Emp	loyee Cate	gories:				
B) Enter Total Numbe	er of En	ployee Catego	ries:						<u> </u>				
C) Employee	Categor	у	Tot	tal Numb in this	er of Emplo Category	oyees	and II	have multip (A) & (B).	Take that t	filled-in fo	orm and ma	ake one cop	у
								ch employee / for each se				s II (C), III	,
II. Drug Testing Da	t <b>a</b> : 1	2	3	4	5	6	7	8	9	10	11	12	13
		ci l			1		1			Refusa	l Results		1
	Fotal Number Of Test Results [Should equal	the sum of Columns 2, 3, 9, 10, 11, and 12] Verified Negative Results	Verified Positive Results ~ For One Or More Drugs					les			, II	ပ	ts
	ould	the sum of Column: 3, 9, 10, 11, and 12. Verified Negative Results	Verified Positive Results ~ For One More Drugs	For na	For	For	For	Positive For Amphetamines	_		"Shy Bladder" ~ With No Medical Explanation	Other Refusals To Submit To Testing	Cancelled Results
	Vumb s [Sh	n of ), 11 ed Ne	ed Po 5 ~ F	Positive For Marijuana	Positive For Cocaine	Positive For PCP	Positive For Optates	tive ]	rated	uted	sladd Jo M atior	Refus t To	led F
<b>T</b>	otal N esult:	e sur 9, 1( erifie esults	erifie esults lore I	Posi	Posi	Posit PCP	Posi	Posi	Adulterated	Substituted	shy E 'ith N xplar	Other Re Submit Testing	ancel
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Pre-Employment													
Random													
Post-Accident													
Reasonable Susp./Cause												<u> </u>	
Return-to-Duty												<u> </u>	
Follow-Up													
TOTAL													
V. Alcohol Testing	Data:	1	2		3		4	5	6	7	8	9	
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Type of Test	Total Number Of Screening Test Results [Should e the sum of Colum 2, 3, 7, and 8]	Screening Tests V Results Below 0.0	Screening Tests V Results 0.02 Or Greater	Number Of Confirmation Tes Results	Confirmation Tes With Results 0.02 Through 0.039	Confirmation Tes With Results 0.04 Greater	"Shy Lung" ~ With No Medical Explanation	Other Refusals To Submit To Testing	Cancelled Results
Pre-Employment									
Random									
Post-Accident									
Reasonable Susp./Cause									
Return-to-Duty									
Follow-Up									
TOTAL									

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