

HE
4381
.S24
1998
c.1

ment
ation
nsit
ion

Safety Management Information Statistics (SAMIS) 1998 Annual Report

U.S. Department of Transportation
Research and Special Programs Administration
John A. Volpe National Transportation Systems Center
Cambridge, MA 02142-1093

Final Report
December 1999



FTA OFFICE OF SAFETY AND SECURITY

NOTICE

This document is disseminated under the sponsorship of the Department of Transportation in the interest of information exchange. The United States Government assumes no liability for its contents or use thereof.

5/24/01
<http://isweb/Library/library.htm>

On list

wlr

TASC Service / Value / Success

I'm
RIDER
certified

HE
4381
S24
1998
c.1



U.S. Department
of Transportation
**Federal Transit
Administration**

Headquarters

400 Seventh St., S.W.
Washington, D.C. 20590

December 30, 1999

Dear Colleague,

In order to ensure the safety and security of the travelling public and transit system employees, the Federal Transit Administration (FTA) collects pertinent safety and security data. The data are collected via the National Transit Database and then forwarded to the Safety and Management Information Statistics (SAMIS) program for analysis and publication. Enclosed is a compilation and analysis of the 1998 data provided by you and other reporting agencies. This report, among other things, may be used to compare your agency's performance against national rates and trends. It can also be used to support your own agency-specific analyses.

I also wish to take this opportunity to thank you for the time and effort you spent preparing your annual reports. Timely and accurate data provided by transit agencies facilitates timely and accurate feedback from the government, thus helping us all in providing the safest, most secure transit environment possible.

Sincerely,

Judy Z. Meade
Director,
Office of Safety and Security

BC 00330892

12
18
22
29
36

REF
HE
4381
.524
1998
c.1

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE December 1999	3. REPORT TYPE AND DATES COVERED Annual Report January 1998- December 1998
----------------------------------	--	--

4. TITLE AND SUBTITLE Safety Management Information Statistics (SAMIS) 1998 Annual Report	5. FUNDING NUMBERS TM029/U0020
6. AUTHOR(S) Alison Thompson, Gerry Powers*	

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) EG&G Technical Services, Inc.* 55 Broadway Cambridge, MA 02142-1093	8. PERFORMING ORGANIZATION REPORT NUMBER DOT-VNTSC-FTA-99-7
--	---

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Department of Transportation Federal Transit Administration Office of Safety and Security Washington, DC 20590	10. SPONSORING/MONITORING AGENCY REPORT NUMBER FTA-MA-26-5011-00-1
---	--

11. SUPPLEMENTARY NOTES **U.S. Department of Transportation**
*under contract to: **John A. Volpe National Transportation Systems Center
55 Broadway
Cambridge, MA 02142-1093**

12a. DISTRIBUTION/AVAILABILITY STATEMENT This document is available to the public through the National Technical Information Service, Springfield, VA 22161	12b. DISTRIBUTION CODE
---	------------------------

13. ABSTRACT (Maximum 200 words)

The Safety Management Information Statistics 1998 Annual Report is a compilation and analysis of transit accident, casualty, and crime statistics reported under the Federal Transit Administration's National Transit Database Reporting System by transit systems in the United States during 1998.

14. SUBJECT TERMS Transit safety, security, statistics, transit fatalities, transit injuries, casualties, transit accidents, transit crime, transit, grade crossing	15. NUMBER OF PAGES 160
	16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited
--	---	--	--

BC 00330892



PREFACE

The *Safety Management Information Statistics (SAMIS) 1998 Annual Report* is a compilation and analysis of transit accident, casualty, and crime statistics reported under the Federal Transit Administration's (FTA's) National Transit Database Reporting System by FTA-funded transit systems in the United States during 1998.

This report was prepared under the sponsorship of the Federal Transit Administration, Office of Safety and Security. The statistics for the tables, charts, and graphs were generated by the John A. Volpe National Transportation Systems Center (Volpe Center) in Cambridge, Massachusetts. Select tables from this report may be found on the FTA Office of Safety and Security web site at <http://transit-safety.volpe.dot.gov>.

The authors wish to thank Judy Z. Meade, Director of the FTA's Office of Safety and Security; and Carole Ferguson, Transit Safety Specialist at the Office of Safety and Security for their direction, guidance, and valuable comments during the preparation of this report.

METRIC/ENGLISH CONVERSION FACTORS

ENGLISH TO METRIC

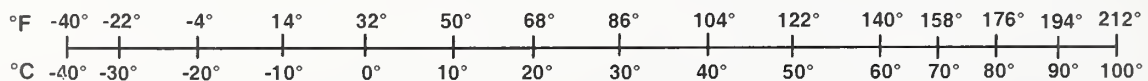
METRIC TO ENGLISH

<p>LENGTH (APPROXIMATE)</p> <p>1 inch (in) = 2.5 centimeters (cm)</p> <p>1 foot (ft) = 30 centimeters (cm)</p> <p>1 yard (yd) = 0.9 meter (m)</p> <p>1 mile (mi) = 1.6 kilometers (km)</p>	<p>LENGTH (APPROXIMATE)</p> <p>1 millimeter (mm) = 0.04 inch (in)</p> <p>1 centimeter (cm) = 0.4 inch (in)</p> <p>1 meter (m) = 3.3 feet (ft)</p> <p>1 meter (m) = 1.1 yards (yd)</p> <p>1 kilometer (km) = 0.6 mile (mi)</p>
<p>AREA (APPROXIMATE)</p> <p>1 square inch (sq in, in²) = 6.5 square centimeters (cm²)</p> <p>1 square foot (sq ft, ft²) = 0.09 square meter (m²)</p> <p>1 square yard (sq yd, yd²) = 0.8 square meter (m²)</p> <p>1 square mile (sq mi, mi²) = 2.6 square kilometers (km²)</p> <p>1 acre = 0.4 hectare (he) = 4,000 square meters (m²)</p>	<p>AREA (APPROXIMATE)</p> <p>1 square centimeter (cm²) = 0.16 square inch (sq in, in²)</p> <p>1 square meter (m²) = 1.2 square yards (sq yd, yd²)</p> <p>1 square kilometer (km²) = 0.4 square mile (sq mi, mi²)</p> <p>10,000 square meters (m²) = 1 hectare (ha) = 2.5 acres</p>
<p>MASS - WEIGHT (APPROXIMATE)</p> <p>1 ounce (oz) = 28 grams (gm)</p> <p>1 pound (lb) = 0.45 kilogram (kg)</p> <p>1 short ton = 2,000 pounds (lb) = 0.9 tonne (t)</p>	<p>MASS - WEIGHT (APPROXIMATE)</p> <p>1 gram (gm) = 0.036 ounce (oz)</p> <p>1 kilogram (kg) = 2.2 pounds (lb)</p> <p>1 tonne (t) = 1,000 kilograms (kg) = 1.1 short tons</p>
<p>VOLUME (APPROXIMATE)</p> <p>1 teaspoon (tsp) = 5 milliliters (ml)</p> <p>1 tablespoon (tbsp) = 15 milliliters (ml)</p> <p>1 fluid ounce (fl oz) = 30 milliliters (ml)</p> <p>1 cup (c) = 0.24 liter (l)</p> <p>1 pint (pt) = 0.47 liter (l)</p> <p>1 quart (qt) = 0.96 liter (l)</p> <p>1 gallon (gal) = 3.8 liters (l)</p> <p>1 cubic foot (cu ft, ft³) = 0.03 cubic meter (m³)</p> <p>1 cubic yard (cu yd, yd³) = 0.76 cubic meter (m³)</p>	<p>VOLUME (APPROXIMATE)</p> <p>1 milliliter (ml) = 0.03 fluid ounce (fl oz)</p> <p>1 liter (l) = 2.1 pints (pt)</p> <p>1 liter (l) = 1.06 quarts (qt)</p> <p>1 liter (l) = 0.26 gallon (gal)</p> <p>1 cubic meter (m³) = 36 cubic feet (cu ft, ft³)</p> <p>1 cubic meter (m³) = 1.3 cubic yards (cu yd, yd³)</p>
<p>TEMPERATURE (EXACT)</p> <p>$[(x-32)(5/9)] \text{ } ^\circ\text{F} = y \text{ } ^\circ\text{C}$</p>	<p>TEMPERATURE (EXACT)</p> <p>$[(9/5) y + 32] \text{ } ^\circ\text{C} = x \text{ } ^\circ\text{F}$</p>

QUICK INCH - CENTIMETER LENGTH CONVERSION



QUICK FAHRENHEIT - CELSIUS TEMPERATURE CONVERSION



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

Updated 6/17/98

TABLE OF CONTENTS

BACKGROUND	1
Introduction	3
Glossary	9
Reporting Agencies	15
TRANSIT SAFETY TRENDS 1990 THROUGH 1998	25
Incidents/Accidents	27
Grade Crossing Fatalities	32
Injuries	43
Collisions	49
Personal Casualties	54
Operating Statistics	56
1998 SAFETY DATA	65
TRANSIT SECURITY TRENDS 1996 THROUGH 1998	115
1998 SECURITY DATA	129

BACKGROUND

INTRODUCTION

In its ninth year of publication, the Safety Management Information Statistics (SAMIS) Annual Report continues to provide uniformly collected comprehensive safety and security data. These data are collected from all recipients or beneficiaries of Urbanized Area Formula funds through the National Transit Database (NTD) Reporting System.¹

This year's report has been reorganized to better illustrate the nation's mass transit incidents and their effects on people and property. Security trend charts for Directly Operated transit modes have been added to this year's report, as well as security data for Purchased Transportation. Purchased Transportation consists of public transit agencies or private carriers who provide public mass transportation services under contract to recipients of Urbanized Area Formula funds. Purchased Transportation reported data are only for those services provided under contract. A list of all reporters is included in the body of this report.

Transit safety data are collected in four basic categories: Collisions, Derailments / Buses going off road, Personal Casualties, and Fires. Each of these categories is further delineated in order to obtain detailed information on the exact nature of the incident. All transit agencies subject to NTD reporting are required to report safety data.

Transit security data are modeled after the Federal Bureau of Investigation's Uniform Crime Reporting System, using standardized offense definitions. Two types of security data are collected: reports of Part I (crime index) offenses, and arrests for Part II (most other) offenses. Transit agencies serving urbanized areas (UZAs) with populations of 200,000 or more are required to report security data.

To facilitate the reader's understanding of the information presented, the safety and security data collection instrument, Form 405, is presented at the end of this introduction.

¹ Transit agencies with nine or fewer vehicles for non-fixed guideway systems, public carriers receiving no Urbanized Area Formula funds, private conventional and subscription bus services operators, and providers of services only under a demonstration grant are not required to report data under the NTD Reporting System, and thus are not included in this Annual Report.

SAMIS reports these safety statistics for the following transit modes:

- Automated Guideway (AG)
- Commuter Rail (CR)
- Demand Response (DR)
- Heavy Rail (HR)
- Light Rail (LR)
- Motor Bus (MB)
- Vanpool (VP)

An abbreviated section is also presented for Cable Car (CC), Ferryboat (FB), Jitney (JT), and Inclined Plane (IP). Monorail (MO), Publico (PB), Aerial Tramway (TR), and Other (OR) modes had no reportable incidents.

As with previous years' SAMIS reports, caution should be used when making comparisons across different modes of transit, and also against data from other transportation reporting systems such as those for aviation and trucking. When comparing modes of transit, key differences should be kept in mind. For example, some transit modes run on exclusive rights of way while others mix with general traffic on surface roads. Some have extensive stations and terminals (where most fires are set) with escalators (where many of the injuries happen) while others have no such facilities. When making comparisons with data from other transportation reporting systems, it is important to consider that the reporting thresholds, assumptions, and definitions may be very different. For example, SAMIS reports property damage when the damage exceeds \$1,000, while other transportation industries use dollar thresholds that may be lower or higher.

Transit Safety Overview

Type of Service*	1990	1991	1992	1993	1994	1995	1996	1997		1998	
	DO	DO	DO	DO	DO	DO	DO	DO	PT	DO	PT
Collisions**	57,726	46,238	36,202	30,338	29,698	25,489	24,953	24,777	2,352	23,781	2,967
Suicide Attempts	126	74	98	95	103	95	85	82	8	82	8
Personal Casualties	25,212	30,352	31,352	29,036	35,359	32,591	30,102	32,367	952	32,255	1,068
Derailment/Left Road	276	229	178	221	274	194	213	147	9	156	10
Fires	6,823	6,246	6,001	5,296	5,259	4,102	4,039	4,188	22	3,820	42
Total Incidents	90,163	83,139	73,831	64,986	70,693	62,471	59,392	61,561	3,343	60,094	4,095

Effects of Transit Incidents by Year

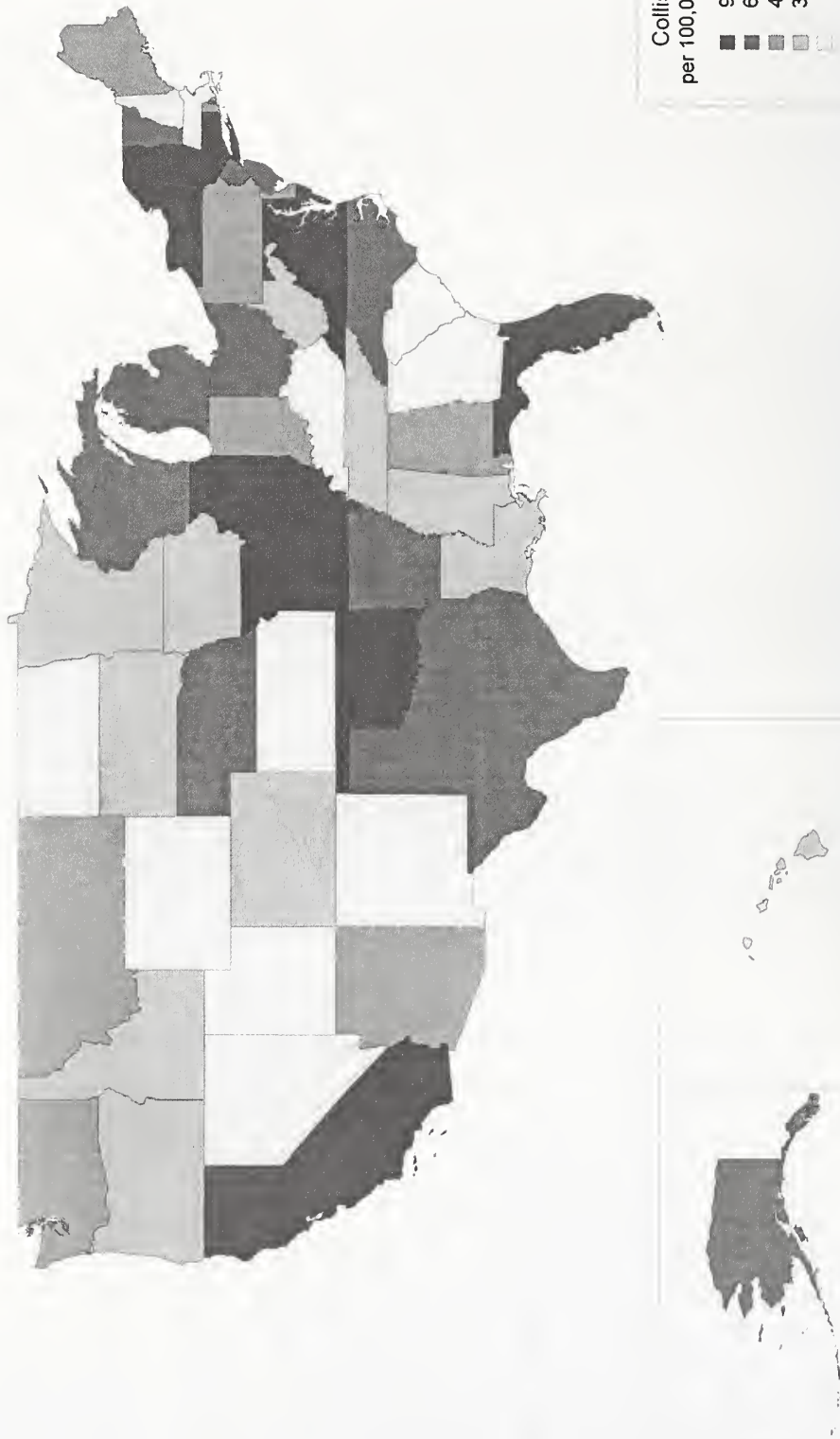
Type of Service*	1990	1991	1992	1993	1994	1995	1996	1997		1998	
	DO	DO	DO	DO	DO	DO	DO	DO	PT	DO	PT
Fatalities	339	300	273	281	320	274	264	275	35	286	43
Injuries	54,556	52,125	55,089	52,688	58,193	57,196	55,288	56,132	2,279	55,990	2,290
Property Damage (\$000)	37,973	37,476	37,455	44,925	38,376	46,266	57,557	55,479	4,727	61,497	6,903

* DO - Directly Operated, PT - Purchased Transportation

** Not including Suicide attempts

1998 Transit Collisions Thematic Map*

per 100,000,000 Vehicle Miles



*Collisions [with vehicles, objects, and people (not suicides)]

Transit Safety and Security Form (405)

Form not Applicable

Page 1 of 2

NTD ID

Mode

Form 005 Included

Type of Service

Line No	a Safety Items	b Incidents	c Fatalities			d Injuries		
			Patrons	Employees	Others	Patrons	Employees	Others
	Collisions							
01	Collisions with other vehicles							
01a	(at grade crossings)							
02	Collisions with objects							
02a	(at grade crossings)							
03	Collisions with people							
03a	(at grade crossings)							
03b	(attempted/successful suicides)							
	Non-Collisions							
	Derailments							
04	Derailments/buses going off road							
	Personal Casualties							
05	Parking facility							
06	Inside vehicle							
07	On right-of-way							
08	Boarding & alighting vehicle							
08a	(associated with lifts)							
09	In stations/bus stops							
09a	(associated with escalators)							
09b	(associated with elevators)							
	Non-Arson Fires (no thresholds)							
10	In vehicles							
11	In stations							
12	Right-of-way & others							
13	Total Transit Property Damage		\$ <input style="width: 100px;" type="text"/>					

Date Prepared

Date Updated

1998 Report Year

Transit Safety and Security Form (405)

Form not Applicable
 NTD ID
 Form 005 Included

Page 2 of 2

Required from transit agencies serving
UZAs of 200,000 or more population

Mode

Based on the Uniform Crime Reporting Handbook

Type of Service

a	Security Items		b	c	d
Line No	Part 1. Offenses (Reports)		In Vehicle	In Station	Other Transit Property
Violent Crime					
01	Homicide	Patrons			
02		Employees			
03		Others			
04	Forcible rape	Patrons			
05		Employees			
06		Others			
07	Robbery	Patrons			
08		Employees			
09		Others			
10	Aggravated assault	Patrons			
11		Employees			
12		Others			
Property Crime					
13	Burglary				
14	Larceny/theft	Patrons			
15		Employees			
16		Others			
17	Motor vehicle theft	Patrons			
18		Employees			
19		Others			
20	Arson				
Part II. Offenses (Arrests)					
21	Other assaults				
22	Vandalism				
23	Sex offenses				
24	Drug abuse violations				
25	Driving under the influence				
26	Drunkenness				
27	Disorderly conduct				
28	Trespassing				
29	Fare evasion				
30	Curfew & loitering laws				
31	Total Transit Property Damage		\$ <input style="width: 100px;" type="text"/>		

Date Prepared

Date Updated

1998 Report Year

GLOSSARY

Safety Definitions

Vehicle Accident

An incident involving a moving vehicle. Includes collisions with another vehicle, object, or person (except suicides) and derailment/left roadway.

Passenger Accident

Same as Vehicle Accident, except that Personal Casualties incidents on the vehicle and entering/exiting the vehicle are also included.

Collision

With Vehicle An incident in which a transit vehicle strikes or is struck by another vehicle. Reports are made if the accident results in death, injury, or property damage over \$1,000.

With Object An incident in which a transit vehicle strikes an obstacle other than a vehicle or person (e.g., building, utility pole). Reports are made if the accident results in a death, injury, or property damage over \$1,000.

With People An incident in which a transit vehicle strikes a person. Except where specifically indicated, collisions with people do not include suicide attempts. Reports are made if the incident results in death, injury, or property damage over \$1,000.

Derailment/Left Roadway

A non-collision incident in which a transit vehicle leaves the rails or road on which it travels. This also includes rollovers. Reports are made for all occurrences.

Employee

An individual who is compensated by the transit agency and whose expense is reported in object class 501 labor.

Fatality

A transit-caused death confirmed within 30 days of a transit incident.

Fire

Uncontrolled combustion made evident by flame and/or smoke which requires suppression by equipment or personnel. There are no thresholds; all fires are reported.

Grade Crossings

An intersection of highway roads, railroad tracks, or dedicated transit rail tracks that run either parallel or across mixed traffic situations with motor vehicles, light rail, commuter rail, heavy rail, trolleybus or pedestrian traffic. Collisions at grade crossings involving transit vehicles apply to light rail, commuter rail, heavy rail or trolleybus.

Incident

Collisions, personal casualties, derailments/left roadway, fires, and property damage greater than \$1,000 associated with transit agency revenue vehicles and all transit facilities.

Injury

Any physical damage or harm to a person requiring medical treatment, or any physical damage or harm to a person reported at the time and place of occurrence. For employees, an injury includes incidents resulting in time lost from duty or any definition consistent with a transit agency's current employee injury reporting practice.

Other

An individual who is neither a patron nor employee of the transit agency.

Passenger Miles

The total number of miles traveled by transit passengers (e.g., a bus that carries 5 passengers for a distance of 3 miles incurs 15 passenger miles).

Patron

A person who intends to use or has used the transit system and is on property affiliated with the transit system within the limits of the law. An employee is not a patron.

Personal Casualty

On Vehicle An incident in which a person is injured on a transit vehicle, but not as a result of a collision, derailment/left roadway, or fire.

Entering/Exiting a Vehicle An incident in which a person is hurt while getting on or off a transit vehicle (e.g., falls or door incidents).

Associated with Lifts An incident in which a person is hurt while using a lift to get on or off a transit vehicle. This is a subset of the Entering/Exiting a vehicle in the Personal Casualties category.

In Stations/Bus Stops An incident in which a person is hurt while using a transit facility. This includes anyone on transit property (e.g., patrons, employees, trespassers) but does not include incidents resulting from illness or criminal activity.

Associated with Escalator An incident in which a person is hurt while using an escalator in a transit facility. Any incident in this category is a subset of Personal Casualties in Stations/Bus Stops.

Associated with Elevators Any incident in which a person is hurt while using an elevator in a transit facility. Any incident in this category is a subset of personal Casualty in Stations/Bus Stops.

Suicide

A person attempting to end his or her own life intentionally. This is a subset of Collision with People.

Transit Property

All facilities which are directly controlled by a transit agency or provided to a transit agency for its use. This includes stations, rights of way, bus stops, and maintenance facilities.

Transit Property Damage

The dollar amount required to repair or replace transit property damaged during an incident.

Vehicle Miles

The total number of miles traveled by transit vehicles. Commuter rail, heavy rail, and light rail report individual car miles rather than train miles for vehicle miles.

Security Definitions

Part I Offenses (Reports):

Homicide

The killing of one or more human beings by another. This includes murder, non-negligent manslaughter and manslaughter by negligence.

Forcible Rape

The carnal knowledge of a female forcibly and against her will. This includes rape and attempt to rape.

Robbery

The taking or attempting to take anything of value from the care, custody, or control of a person or persons by force or threat of force or violence and/or by putting the victim in fear. The use or threat of force includes firearms, knives or cutting instruments, other dangerous weapons (clubs, acid, explosives), and strong-arm techniques (hands, fists, feet).

Aggravated Assault

An unlawful attack by one person upon another for the purpose of inflicting severe or aggravated bodily injury. This type of assault usually is accompanied by the use of a weapon or by means likely to produce death or great bodily harm.

Larceny/Theft

The unlawful taking, carrying, leading, or riding away of property from the possession or constructive possession of another. This includes pocket-picking, purse-snatching, shoplifting, thefts from motor vehicles, thefts of motor vehicle parts and accessories, theft of bicycles, theft from buildings, theft from coin-operated devices or machines, and all other theft not specifically classified.

Motor Vehicle Theft

The theft or attempted theft of a motor vehicle. A motor vehicle is a self-propelled vehicle that runs on the surface of land and not rails. Examples of motor vehicles are automobiles, trucks, buses, motorcycles, motor scooters, etc.

Burglary

The unlawful entry of a structure to commit a felony or a theft. This includes offenses known locally as burglary (any degree), unlawful entry with intent to commit a larceny or felony, breaking and entering with intent to commit a larceny, housebreaking, safe-cracking, and all attempts at these offenses.

Arson

To unlawfully and intentionally damage, or attempt to damage, any real or personal property by fire or incendiary device.

Part II Offenses (Arrests):

Other Assault

An unlawful attack or attempt by one person upon another where no weapon was used or which did not result in serious or aggravated injury to the victim. This includes simple assault, minor assault, assault and battery, injury by culpable negligence, intimidation, coercion, hazing, and all attempts to commit these offenses.

Vandalism

The willful or malicious destruction, injury, disfigurement, or defacement of any public or private property, real or personal, without consent of the owner or person having custody or control by cutting, tearing, breaking, marking, painting, drawing, covering with filth, or any other such means as may be specified by local law.

Sex Offenses

Any sexual acts except forcible rape, prostitution, and commercialized vice. This includes offenses against chastity, common decency, morals, and the like, such as: adultery and fornication; buggery; incest; indecent exposure; indecent liberties; seduction; sodomy or crime against nature; statutory rape (no force); and all attempts to commit any of the above.

Drug Abuse Violations

Arrests requested based on the narcotics used. This includes all arrests for violations of state and local laws, specifically those relating to the unlawful possession, sale, use, growing, manufacturing, and making of narcotic drugs.

Driving Under the Influence (DUI)

The driving or operating of any vehicle or common carrier while drunk or under the influence of liquor or narcotics.

Drunkenness

Arrests for all offenses of drunkenness, defined as the consumption of alcoholic beverages to the extent that one's mental faculties and physical coordination are substantially impaired. This includes drunkenness, drunk and disorderly, common or habitual drunkard, and intoxication.

Disorderly Conduct

All charges of committing a breach of the peace. This includes affray; unlawful assembly; disturbing the peace; disturbing meetings, disorderly conduct in state institutions, at court, at fairs, on trains or public conveyances, etc.; blasphemy, profanity, and obscene language; desecrating the flag; refusing to assist an officer; and all attempts to commit any of the above.

Trespass

To unlawfully enter land, a dwelling, or other real property.

Fare Evasion

The unlawful use of transit facilities by riding without paying the applicable fare.

Curfew and Loitering

All arrests for violations of local curfew or loitering ordinances where such laws exist.

TRANSIT MODE DEFINITIONS

AG - Automated Guideway

Consists of one or more automatically controlled vehicles operating on an exclusive guideway.

CC - Cable Car

Streetcar type of vehicles operating by means of an attachment to a moving cable located below the street surface and powered by engines or motors at a central location not on board the vehicle.

CR - Commuter Rail

Urban passenger train service for local short distance travel between a central city and suburbs. Commuter rail does not include heavy rail or light rail service. Service of a predominantly intercity nature is excluded, except where a local portion is operated under public agency contract for commuter purposes.

DR - Demand Response

Personal transit service operated on roadways providing service on demand. Vehicles are normally dispatched, and used exclusively for this service.

FB - Ferryboat

Vessels carrying passengers and/or vehicles over a body of water. The vessels are generally steam or diesel-powered conventional ferry vessels.

HR - Heavy Rail (Rapid Rail)

Transit service using rail cars powered by electricity which is usually drawn from a third rail and usually operated on exclusive rights of way. It generally uses longer trains and has longer spacing between stations than light rail.

IP - Inclined Plane

Special tramway type of vehicles operating up and down slopes on rails via a cable mechanism so that passenger seats remain horizontal while the undercarriage (truck) is angled parallel to the slope.

JT - Jitney

Passenger cars or vans operating on fixed routes (sometimes with minor deviations) as demand warrants without fixed schedules or fixed stops.

LR - Light Rail (Streetcar)

Urban transit which uses predominantly reserved but not always grade-separated rights of way. Electrically powered rail vehicles operate alone or in trains.

MB - Motor Bus

Rubber-tired passenger vehicles that operate on roadways. Motor bus service implies fixed routes and schedules. SAMIS presents motor bus data in 3 categories. This is done to reflect the differences in operating environments and traffic mix, and to allow meaningful comparison between the motor buses and other transit modes. The categories are determined by the size of an agency's fleet. They are:

LMB - Large Motor Bus, more than 500 buses

MMB - Medium Motor Bus, between 100 and 500 buses

SMB - Small Motor Bus, fewer than 100 buses.

TB - Trolleybus

Rubber-tired passenger vehicles operating singly on city streets. Trolleybuses are driven electrically with the power being drawn from an overhead electric line via trolleys. The data for Trolleybuses are combined with the Motor Bus data.

VP - Vanpool

Public-sponsored commuter service operating under prearranged schedules for pre-formed groups of riders in 8 to 18 seat vehicles. Drivers are also commuters who receive little or no compensation besides free transportation and use of the vehicle during off-hours.

Transit modes whose statistics are insignificant when compared with other modes are addressed in an abbreviated fashion. They are Cable Car (CC), Ferryboat (FB), Inclined Plane (IP), and Jitney (JT). Detailed statistics are available on request. Monorail (MO), Publico (PB), Aerial Tramway (TR), and Other (OR) modes had no reportable incidents.

Reporting Agencies

Directly Operated		Purchased	
Safety	Security	Safety	Security

Directly Operated		Purchased	
Safety	Security	Safety	Security

Alabama

Auburn-Opelika-LETA			X	
Birmingham-MAX			X	X
Huntsville	X		X	
Mobile-MTA	X	X	X	X
Montgomery-Autauga	X	X		
Montgomery-MAT	X	X		
NW Alabama COLG	X			
Tuscaloosa-CP&TA	X			

Alaska

Municipality of Anchorage	X	X	X	X
---------------------------	---	---	---	---

Arizona

Peoria Transit	X	X		
Phoenix PTD	X	X	X	X
Phoenix-Glendale	X	X		
Phoenix-Maricopa STS			X	X
Phoenix-Mesa SunRunner			X	X
Phoenix-RPTA			X	X
Phoenix-Scottsdale			X	X
Phoenix-Sun Cities-SCAT	X	X		
Phoenix-Surprise	X	X		
Phoenix-VPSI	X	X		
Town of Guadalupe	X	X		
Tucson-Sun Tran	X	X		

Arkansas

Fayetteville-CRG	X			
Fayetteville-Springdale	X			
Little Rock-CAT	X	X		
Pine Bluff Transit	X			

California

Bakersfield-GET	X	X	X	X
Chico Area Transit			X	
City of Lodi			X	
City of Los Angeles			X	X
Contra Costa-Connection	X	X	X	X
Contra Costa-WESTCAT			X	X
Davis-UNITRANS	X			
Fairfield			X	
Fresno-FAX	X	X	X	X
San Jose-VTA	X	X	X	X
Santa Barbara-MTD	X			
Santa Clarita Transit			X	X
Santa Cruz-METRO	X		X	
Santa Maria Area Transit			X	
Intelitran			X	X

California (continued)

LA-Access			X	X
LA-Arcadia Transit			X	X
LA-Commerce	X	X		
LA-Culver City	X	X		
LA-Gardena Bus Line	X	X	X	X
LA-La Mirada	X	X		
LA-LACMTA-Consolidated			X	X
LA-Laguna Beach	X	X		
LA-Long Beach Transit	X	X	X	X
LA-Montebello	X	X		
LA-Norwalk	X	X		
LA-OCTA	X	X	X	X
LA-Santa Monica	X	X	X	X
LA-SCRRA	X	X		
LA-Torrance	X	X	X	X
LACMTA-Metro	X	X	X	X
Laidlaw Transit Services	X	X		
Lancaster-AV Transit			X	
Lompoc Transit			X	
Merced County Transit			X	
Modesto-MAX			X	X
Monterey-MST	X		X	
Napa-The V.I.N.E.			X	
Oakland-AC Transit	X	X	X	X
Oakland-AOFS			X	X
Oakland-Vallejo Transit			X	X
Oakland-Wheel			X	X
Oxnard-SCAT	X	X	X	X
Palm Springs-SunBus	X		X	
Redding-RABA			X	
Riverside-Corona			X	X
Riverside-RTA	X	X	X	X
Riverside-Special Transit	X	X		
Roseville Transit			X	X
Ryder/ATE	X	X		
Sacramento-RT	X	X	X	X
Sacramento-Yolobus			X	X
San Bernardino-OMNITRANS	X	X	X	X
San Diego Transit	X	X	X	X
San Diego- The Trolley	X	X		
San Diego-NCTD	X	X	X	X
San Diego-SANDAG			X	X
San Francisco-BART	X	X	X	X
San Francisco-Muni	X	X	X	X
San Joaquin-Smart	X	X	X	X
Santa Rosa-City Bus	X		X	
Santa Rosa-Sonoma County			X	
SF-CalTrain			X	X
SF-Golden Gate	X	X	X	X
SF-SamTrans	X	X	X	X
SF-Union City			X	X
Simi Valley Transit	X			
Tri Delta Transit			X	

Reporting Agencies

Directly Operated		Purchased	
Safety	Security	Safety	Security

California (continued)

Ventura Intercity Service			X	X
Ventura-Thousand Oaks			X	X
Victorville-WTSA			X	
Visalia City Coach			X	
Yuba-Sutter			X	

Colorado

Colorado Springs Transit	X	X	X	X
Dave Transportation	X	X	X	X
Denver-RTD	X	X	X	X
Fort Collins-Transfort	X			
Grand Junction-MesABILITY			X	
Greeley-The Bus	X			
OCTA- Dave Transportation	X	X		
Pueblo-CityBus	X		X	

Connecticut

Bridgeport-VTD	X	X		
CT-Carey Transportation	X	X	X	X
Danbury-HART	X			
Greater Bridgeport TD	X	X	X	X
Hartford-Conn DOT			X	X
Hartford-CT Transit	X	X		
Hartford-GHRC	X	X		
Hartford-Metro			X	X
Middletown-MAT			X	X
New Britain Transit	X			
New Britian - Bristol	X			
New Haven-CT Transit	X	X		
New Haven- Gr. New Haven			X	X
New Haven-Milford	X	X		
New Haven-NET	X			
New London-SEAT	X			
Norwalk-Wheels	X		X	
Stamford-CT Transit	X			
Waterbury-GWTD			X	

Delaware

Delaware-DTC	X	X	X	X
--------------	---	---	---	---

District of Columbia

Washington-Metro	X	X	X	X
------------------	---	---	---	---

Florida

Bradenton-MCT	X	X		
Brevard-SCAT	X	X	X	X
Clearwater-Pasco Shuttle	X	X	X	X
Council on Aging	X			
Daytona Beach-VOTRAN	X	X	X	X

Florida (continued)

Ft. Lauderdale-Bct	X	X	X	X
Ft. Lauderdale-TCRA			X	X
Ft. Myers-LeeTran	X	X	X	X
Ft. Pierce-St. Lucie COA	X		X	
Gainesville-RTS	X			
Jacksonville-JTA	X	X	X	X
Lakeland-Citrus Connect	X			
Miami-COMSYS			X	X
Miami-MDTA	X	X		
Okaloosa County	X		X	
Orlando-LYNX	X	X	X	X
Panama City-Bay Council	X			
Pensacola-ECTS	X	X	X	X
Sarasota-SCTA	X	X	X	X
St. Petersburg-PSTA	X	X	X	X
Tallahassee-TALTRAN	X		X	
Tampa-Hartline	X	X	X	X
Vero Beach-Indian River	X		X	
West Palm-CoTran	X	X	X	X

Georgia

Albany-ATS	X			
Athens-ATS	X			
Atlanta-CCT			X	X
Atlanta-Douglas County	X	X		
Atlanta-MARTA	X	X		
Augusta-APT	X	X		
Columbus-METRA	X	X		
Rome-Transit Department	X			
Savannah-CAT	X		X	

Hawaii

Honolulu-DTS	X	X	X	X
VPSI, Inc.	X	X		

Idaho

Boise Urban Stages	X			
Idaho Falls-C.A.R.T	X			
Pocatello Urban Transit	X			

Illinois

Bloomington-Normal	X			
Champaign-Urbana-MTD	X		X	
Chicago-RTA-CTA	X	X	X	X
Chicago-RTA-Metra	X	X	X	X
Chicago-RTA-Pace	X	X	X	X
Decatur-DPTS	X		X	
Granit City-MCT			X	X
Peoria-GP Transit	X	X	X	X
Peoria-Pekin Municipal	X	X		

Reporting Agencies

Directly Operated		Purchased	
Safety	Security	Safety	Security

Directly Operated		Purchased	
Safety	Security	Safety	Security

Illinois (continued)

Rock Island-Metro Link	X	X	X	X
Rockford-Loves Park	X	X	X	X
Rockford-RMTD	X	X	X	X
Springfield-SMTD	X			

Indiana

Anderson-CATS	X			
Bloomington-BPT	X		X	
City of Kokomo	X		X	
Elkhart-Goshen			X	
Evansville-METS	X			
Fort Wayne-PTC	X	X		
Indianapolis-Metro	X	X	X	X
Lafayette-GLPTC	X			
Muncie-MITS	X			
North Township DAR	X	X		
NW IN-East Chicago	X	X		
NW IN-Gary-GPTC	X	X		
NW IN-Hammond			X	X
NW IN-NICTD	X	X		
NW IN-Trade Winds Rehab	X	X		
NWIN - Opportunity	X	X		
NWIN-LCEOC, Inc.	X	X		
South Bend-Transpo	X	X		
Terre Haute-TU	X			

Iowa

Davenport-Bettendorf	X	X	X	X
Davenport-CitiBus	X	X	X	X
Des Moines-Metro	X	X	X	X
Dubuque, IA-KeyLine	X		X	
Five Seasons Trans	X		X	
Iowa City Transit	X		X	
Iowa City-CAMBUS	X			
Sioux City-STC	X		X	
Waterloo-MET	X		X	

Kansas

Johnson County Transit			X	X
Topeka-TMTA	X		X	
Wichita-MTA	X	X	X	X

Kentucky

Cincinnati-TANK	X	X	X	X
Lexington-Fayette-LexTran	X	X	X	X
Louisville-TARC	X	X	X	X

Louisiana

Alexandria-ATRANS	X			
Baton Rouge-CTC	X	X	X	X
Houma-Terrebonne Parish	X			
Lafayette-COLT	X		X	
Monroe-MTS	X			
New Orleans-Crescent City	X	X		
New Orleans-LA Transit	X	X		
New Orleans-RTA	X	X	X	X
New Orleans-Westside	X	X		
Shreveport-SparTran	X	X	X	X

Maine

Bangor-The Bus	X		X	
Lewiston-Western Maine	X			
Portland-CBL	X			
Portland-METRO	X			
Portland-RTP	X			

Maryland

Annapolis Public Transit	X			
Baltimore-Harford	X	X		
Baltimore-HATS			X	X
Baltimore-MTA	X	X	X	X
City of Frederick	X			
Hagerstown-Commuter	X			
Maryland-Ride-On	X	X	X	X

Massachusetts

Boston-CATA			X	X
Boston-MBTA	X	X	X	X
Brockton-BAT			X	
Fitchburg-MART			X	
Hyannis-Cape Cod-CCRTA			X	
Lawrence-MVRTA			X	X
Lowell-LRTA	X		X	
New Bedford-SERTA			X	
Pittsfield-BRTA			X	
Providence-GATRA			X	X
Springfield-PVTA			X	X
Springfield Transit	X	X		
Worcester-WRTA	X	X	X	X

Michigan

Ann Arbor-AATA	X	X	X	X
Battle Creek-BCT	X			
Bay City-Metro Transit	X			
Benton Harbor-Twin Cities	X			
Detroit-Blue Water	X		X	
Detroit-DOT	X	X	X	X
Detroit-DTC	X	X		

Reporting Agencies

	Directly Operated		Purchased			Directly Operated		Purchased	
	Safety	Security	Safety	Security		Safety	Security	Safety	Security
Michigan (continued)					New Jersey				
Detroit-SMART	X	X	X	X	Community Transit, Inc.	X	X		
Flint-MTA	X	X			Cumberland County	X			
Grand Rapids-GRATA	X	X	X	X	DeCamp Bus Lines	X	X		
Holland Dial-A-Ride			X		Lafayette-Greenville IBOA	X	X		
Jackson-JTA	X				Lakeland Bus Lines, Inc.	X	X		
Kalamazoo-Metro	X		X		Leisure Line	X	X		
Lansing-CATA	X	X	X	X	NJ Transit	X	X	X	X
Muskegon Area Transit	X		X		NJ Transit (Contract)	X	X		
Saginaw-STS	X				NJ-NJTC/Academy	X	X		
South Bend-Niles			X	X	NJ-NJTC/Hudson Transit	X	X		
					NJ-NJTC/Suburban	X	X		
					NJ/NY-Rockland	X	X		
					Olympia Trails Bus	X	X		
					Orange-Newark-Elizabeth	X	X		
					Philadelphia-PATCO	X	X		
					South Orange Avenue IBOA	X	X		
					Trans-Bridge Lines, Inc.	X	X		
					Trans-Hudson Express	X	X		
Minnesota					New Mexico				
Duluth-DTA	X		X		Albuquerque-Sun Tran	X	X		
Minneapolis-St. Paul-MC-T	X	X	X	X	Las Cruces-RoadRUNNER	X			
St. Cloud-Metro Bus	X		X		Santa Fe Trails	X		X	
Mississippi					New York				
Gulfport-Coast	X				Albany-CDTA	X	X	X	X
Jackson-Jatran	X	X			Atlantic Paratrans, Inc.	X	X		
Missouri					Atlantic Paratrans, Inc.	X	X		
Columbia-CATS	X				Broome County	X		X	
Kansas City-KCATA	X	X	X	X	Buffalo-NFTA	X	X	X	X
Springfield-CU	X				Elmira-Chemung County			X	
Springfield-MSU			X		Glens Falls-GGFT	X			
St. Joseph Express	X				Ithaca-Tcat	X		X	
St. Louis-Bi-State	X	X			MTA-Long Island RR	X	X		
Montana					MTA-Metro North RR	X	X	X	X
Billings-MET	X				MTA-NYCT	X	X	X	X
Great Falls-GFT	X		X		New York City DOT	X	X		
Missoula-Mountain Line	X				NY-Clarkstown Mini-Trans	X	X		
Nebraska					NY-Hauppauge-Suffolk Trans			X	X
Lincoln- StarTRAN	X		X		NY-Hart	X	X		
Omaha-TA	X		X	X	NY-Long Beach	X	X		
Nevada					NY-Monsey New Square	X	X		
Las Vegas - ATC/VanCom	X	X			NY-MTA-Long Island Bus	X	X		
Reno-Citifare	X	X	X	X	NY-MTA-Staten Island	X	X		
New Hampshire					NY-Putnam Area			X	X
Manchester-MTA	X				NY-Rockland-Ride Sharing	X	X		
Nashua-City Bus			X		NY-Rockland-Transport			X	X
					NY-Westchester-BEE-LINE			X	X
					NY-Westchester-Liberty	X	X		
					NYCDOT-Bus Tours	X	X		
					NYCDOT-GTJC	X	X		
					NYCDOT-Liberty	X	X		

Reporting Agencies

Directly Operated		Purchased	
Safety	Security	Safety	Security

Directly Operated		Purchased	
Safety	Security	Safety	Security

New York (continued)

NYCDOT-Queens	X	X		
Port Authority-PATH	X	X	X	X
Poughkeepsie-LOOP	X			
Rochester-RTS	X	X		
Syracuse-RTA-Cayuga	X	X		
Syracuse-RTA-Centro	X	X		
T-Tran	X			
Utica-UTA	X			

North Carolina

Asheville-City Coach	X		X	
Charlotte-CTS	X	X	X	X
Durham-Chapel Hill	X	X		
Durham-DATA	X	X	X	X
Durham-Triangle Transit	X	X		
Fayetteville-Fast	X	X		
Greensboro-GTA			X	
High Point-Hitran	X		X	
Raleigh-CAT	X		X	X
Wilmington-WTA	X			
Winston-Salem-WSTA	X			

North Dakota

Bis-Man Transit			X	
Fargo-MAT			X	
Grand Forks-City Bus	X		X	

Ohio

Akron-Kent State	X	X		
Akron-Metro	X	X	X	X
Akron-PARTA	X	X		
Canton-RTA Proline	X	X		
Cincinnati-SORTA	X	X	X	X
Cleveland-Brunswick			X	X
Cleveland-LAKETRAN	X	X	X	X
Cleveland-RTA	X	X	X	X
Columbus-COTA	X	X	X	X
Dayton-RTA	X	X		
Lorain-LCT			X	X
Mansfield-RCT			X	
Middletown-MTS	X			
Newark			X	
Springfield-SCAT	X			
Toledo-TARTA	X	X	X	X
Youngstown-WRTA	X	X		

Oklahoma

Oklahoma-COTPA	X	X	X	X
Tulsa-MTA	X	X	X	X

Oregon

Eugene-LTD	X		X	
Medford-RVTD	X		X	
Portland-Tri-Met	X	X	X	X
Salem-Cherriots	X			

Pennsylvania

Allentown-Lanta	X	X	X	X
Altoona-AMTRAN	X		X	
Beaver County-BCTA			X	X
Erie-EMTA	X			
Harrisburg-Cat	X	X	X	X
Johnstown-CCTA	X		X	
Lancaster-RRTA	X		X	
Monessen-Mid Mon Valley			X	
Philadelphia-Penn DOT			X	X
Philadelphia-SEPTA	X	X	X	X
Pittsburgh-GG&C Bus	X	X		
Pittsburgh-PAT/ACCESS			X	X
Pittsburgh-PA Transit	X	X	X	X
Pittsburgh-Westmoreland			X	X
Reading-BARTA	X		X	
Scranton-Colts	X	X	X	X
State College-Centre Line	X		X	
Wilkes-Barre-(L)	X	X	X	X
Williamsport-City Bus	X		X	
York-YCTA	X		X	

Puerto Rico

San Juan-DTOP			X	X
San Juan-MBA	X	X		
San Juan-PRHTA			X	X
San Juan-Port Authority	X	X		

Rhode Island

Providence-RIPTA	X	X	X	X
------------------	---	---	---	---

South Carolina

Charleston-DASH			X	X
Columbia-SCE&G	X	X	X	X
Florence-PDRTA	X		X	
Greenville-GTA	X	X	X	X
Myrtle Beach-CRPTA	X			
Spartanburg-County			X	
Spartanburg-SPARTA	X			
Sumter-Santee Wateree	X			

South Dakota

Rapid City Transit System	X			
Sioux Falls-The Bus	X		X	

Reporting Agencies

Directly Operated		Purchased	
Safety	Security	Safety	Security

Directly Operated		Purchased	
Safety	Security	Safety	Security

Tennessee

Chattanooga-CARTA	X	X	X	X
Clarksville-CTS	X			
Jackson Transit Authority	X			
Johnson City-JCT	X			
Kingsport	X		X	
Knoxville-K-Trans	X	X		
Memphis-MATA	X	X		
Nashville-MTA	X	X		

Texas

Abilene-CityLink	X			
Amarillo-ACT	X			
Austin-Capital Metro	X	X	X	X
Austin-VPSI	X	X		
Beaumont-BMT	X			
Brazos Transit System	X			
Brownsville-BUS	X			
City of Denton			X	
Corpus Christi-The B	X	X	X	X
Dallas - Handitran	X	X	X	X
Dallas-DART	X	X	X	X
Dallas-DART/ATE	X	X		
Dallas-Grand Prairie	X	X		
Dallas-Mesquite	X	X		
Dallas-VPSI	X	X		
Denison-Texoma			X	
El Paso-Sun Metro	X	X	X	X
Fort Worth-The T	X	X	X	X
Galveston-Island Transit	X			
Houston-Metro	X	X	X	X
Laredo-El Metro	X			
Lubbock-Citibus	X			
Port Arthur-PAT	X			
Ryder/ATE, Inc.	X	X		
San Angelo-Antran	X			
San Antonio-VIA	X	X	X	X
Temple Transit			X	
The Gulf Coast Center	X			
Waco Transit System	X			

Utah

Logan Transit District			X	
Salt Lake City-UTA	X	X		X

Vermont

Burlington-CT	X		X	
---------------	---	--	---	--

Virginia

Alexandria-DASH	X	X		
Arlington Transit			X	X
Charlottesville Transit	X		X	
City of Fairfax	X	X		
Danville-DTS	X			
Fairfax Connector			X	X
James City County	X	X		
Loudon Commuter Bus			X	X
Lynchburg-GLTC	X			
Newport News-Pentran	X	X	X	X
Norfolk-TRT	X	X	X	X
Petersburg Area Transit	X		X	
Prince William-PRTC			X	X
Richmond-GRTC	X	X	X	X
Roanoke-Valley Metro	X		X	
VA-VRE			X	X

Washington

Bellingham-WTA	X		X	
Bremerton-Kitsap Transit	X		X	
Longview-Community Urban	X		X	
Olympia-IT	X			
Richland-Ben Franklin	X		X	
Seattle-Everett	X	X		
Seattle-Metro	X	X	X	X
Seattle-Monorail			X	X
Seattle-Snohomish-Commun.	X	X	X	X
Seattle-Snohomish-Senior	X	X		
Seattle-WSDOT-WSF	X	X		
Spokane-STA	X	X	X	X
Tacoma-Pierce Ferry			X	X
Tacoma-Pierce Transit	X	X	X	X
Vancouver-C-Tran	X	X	X	X
Yakima Transit	X		X	

West Virginia

Charleston-KRT	X			
Huntington-TTA	X		X	
Wheeling-OVRTA	X			

Reporting Agencies

Directly Operated		Purchased	
Safety	Security	Safety	Security

Wisconsin

Appleton-Valley Transit	X		X	
Beloit-City of Beloit	X		X	
Eau Claire-Chippewa Falls			X	
Eau Claire-ECT	X		X	
Green Bay-GBT	X		X	
Janesville-JTS	X		X	
Kenosha-KTC	X		X	
LaCrosse Municipal	X		X	
Madison-MMT	X	X	X	X
Milwaukee-County	X			
Milwaukee-Paratransit			X	X
Milwaukee-Waukesha County			X	X
Milwaukee-Waukesha Metro	X	X		
Oshkosh-OTS	X		X	
Racine-Belle Urban System	X		X	
Sheboygan-ST	X		X	
Wausau-WATS	X		X	

Wyoming

Cheyenne Transit	X			
------------------	---	--	--	--

Reporting Agencies Transit Modes* - Directly Operated

by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	19	20	20	20	20	20	19	22	22
MMB	68	65	67	66	67	68	68	70	73
SMB	265	247	249	255	250	236	239	234	256
DR	166	160	170	173	180	190	189	197	211
CR	9	8	7	9	9	7	6	7	8
HR	12	12	13	14	14	14	14	14	14
LR	13	14	15	16	19	19	20	19	20
AG	3	2	3	3	3	3	3	3	3
VP	16	13	18	18	18	16	17	18	23

* Reporting Form 405 pg. 1 (Safety Data)

Reporting Agencies Transit Modes* - Purchased Transportation

by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
MMB								8	7
SMB								113	121
DR								245	262
CR								10	10
IP								1	1
MO								1	1
PB								0	1
FB								7	9
VP								9	9

* Reporting Form 405 pg. 1 (Safety Data)

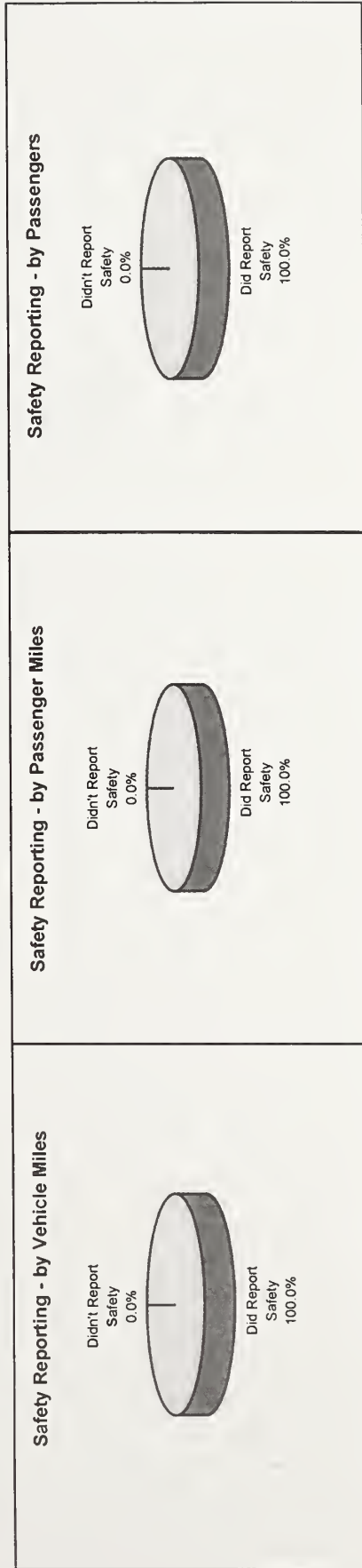
Agencies and Modes Reporting Operational, Safety, and Security Data

	Operational Statistics Form 406		Safety Data Form 405 pg. 1**		No Safety Data Reported*		Security Data 405 pg. 2**		No Security Data Reported*	
	Agencies	Modes	Agencies	Modes	Agencies	Modes	Agencies	Modes	Agencies	Modes
Directly Operated	404	646	404	646	0	0	240	382	164	264
Purchased Transportation	297	422	296	421	1	1	184	272	113	150

* using Form 406 reporters as a basis for the transit universe

** includes Cable Car (CC), Ferryboat (FB), Inclined Plane (IP), Jitney (JT), Monorail (MO) and Trolleybus (TB) as modes

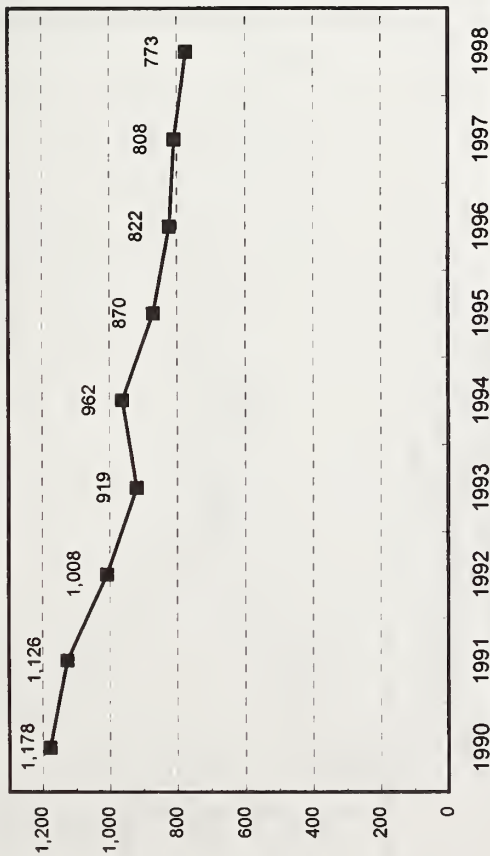
Agencies Reporting Safety Data as Percentage of National Vehicle Miles, Passenger Miles, and Passengers*



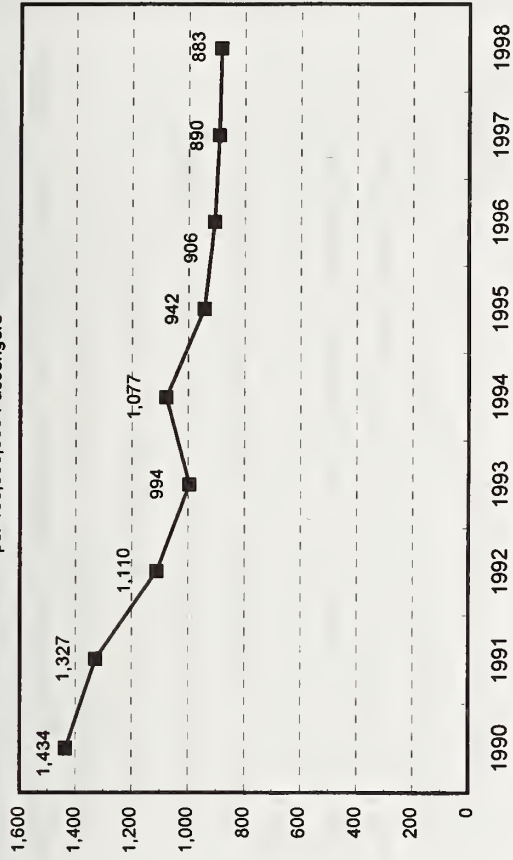
* includes only Directly Operated modes

**Transit Safety Trends
1990 through 1998**

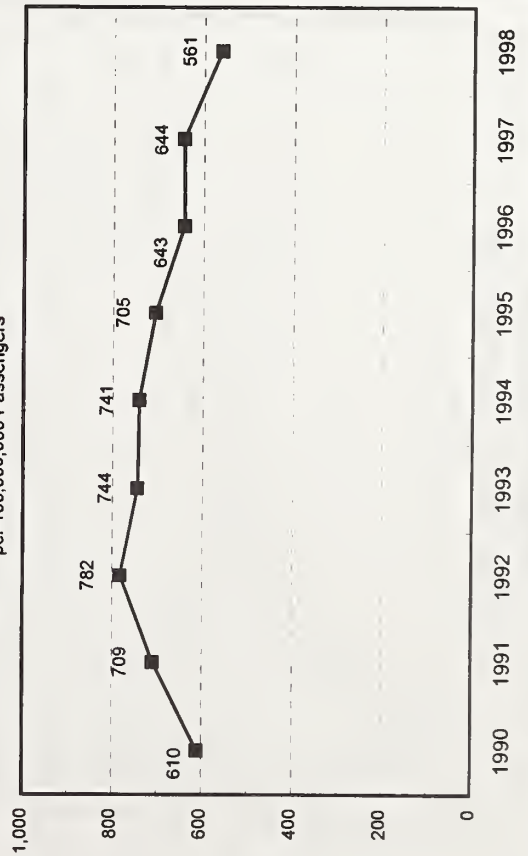
Transit Incidents
of all types
per 100,000,000 Passengers



Bus Incidents
of all types
per 100,000,000 Passengers

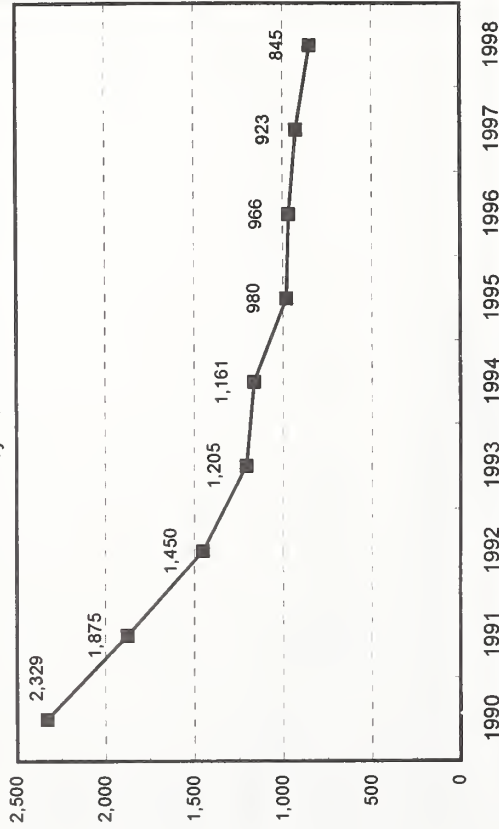


Rail Incidents
of all types
per 100,000,000 Passengers



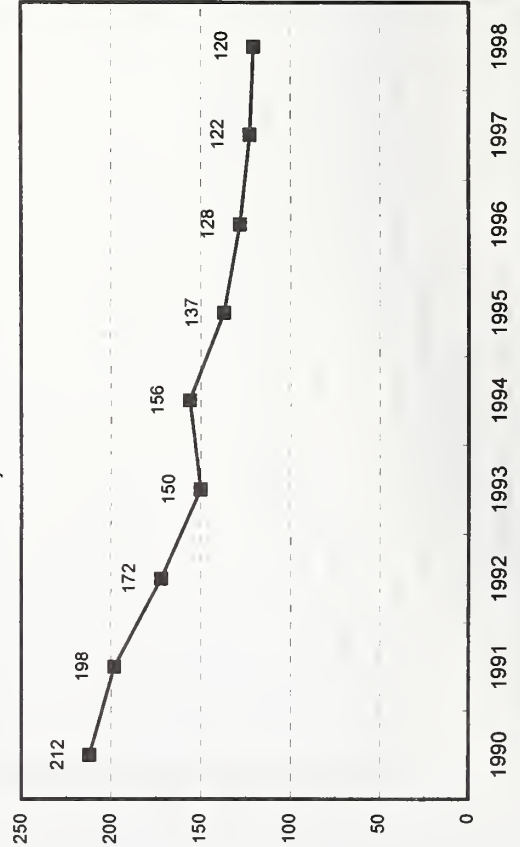
These graphs depict transit trends for the total number of *incidents, fatalities, and injuries* from all causes, i.e., Collisions, Derailments (bus left roadway), Personal Casualties, and Fires.

Transit Accidents
per 100,000 Vehicle Miles
by Year



This graph shows the accident rate which is based only on the number of vehicle accidents. These include all vehicle accidents resulting from **Collisions** [with vehicles, objects, people (not suicides)] and **Deraillments** (vehicle derailed/left roadway). The vehicle mile figure includes both revenue and non-revenue miles since there are risks present during both types of operation. The three rail modes (Commuter Rail, Heavy Rail, and Light Rail) report car rather than train miles for vehicle miles.

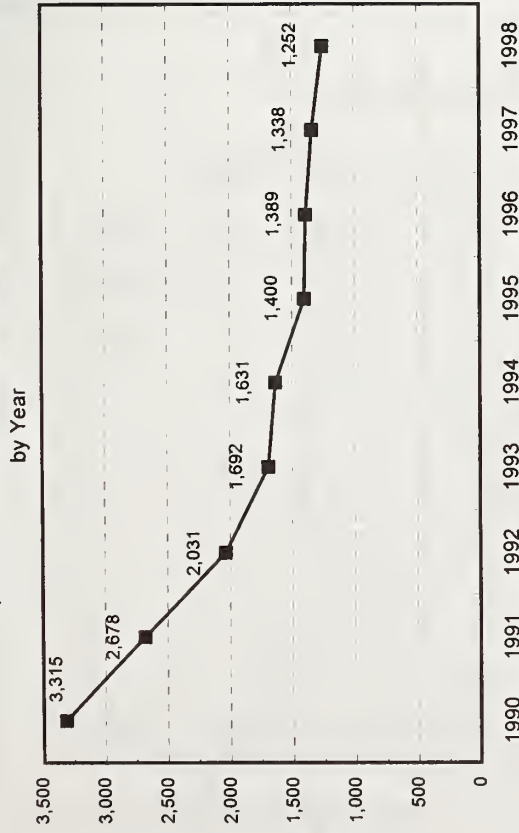
Transit Accidents
per 100,000 Passenger Miles
by Year



This graph shows the trend for accident (or incident) rates, which result from **Collisions** [with vehicles, objects, people (not suicides)], **Deraillments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle and entering/exiting the vehicle). When analyzing the results on this page, consider that the number of passengers, and the average trip length all affect the accident rate. This graph differs from the previous graph in that it includes **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle), and is indexed by Passenger Miles.

Bus Accidents

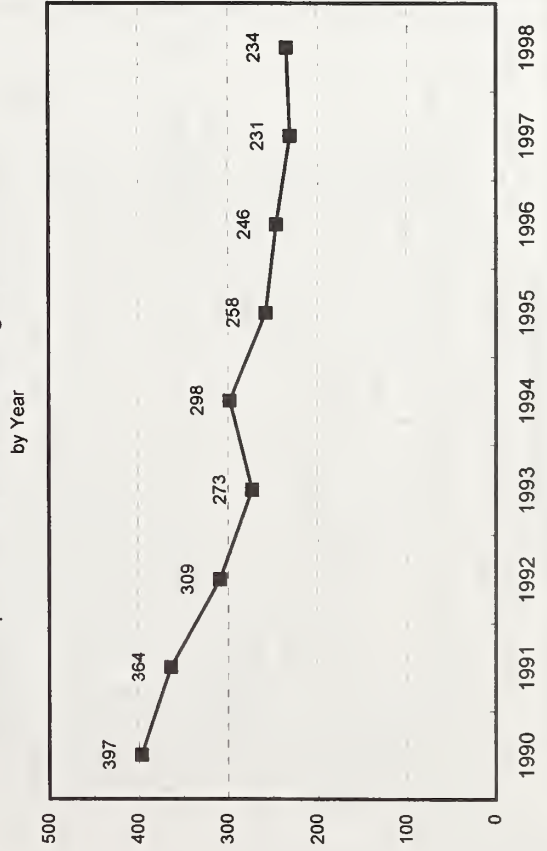
per 100,000,000 Vehicle Miles



This graph shows the accident rate which is based only on the number of vehicle accidents. These include all bus accidents resulting from **Collisions** [with vehicles, objects, people (not suicides)] and **Derailments** (bus left roadway). The vehicle mile figure includes both revenue and non-revenue miles since there are risks present during both types of operation. The three rail modes (Commuter Rail, Heavy Rail, and Light Rail) report car rather than train miles for vehicle miles.

Bus Accidents

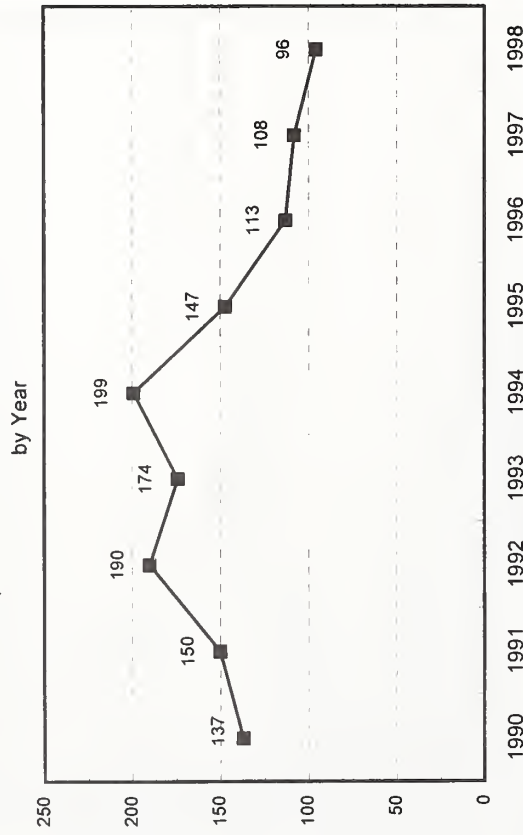
per 100,000,000 Passenger Miles



This graph shows the trend for bus accident (or incident) rates, which result from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (bus left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle). When analyzing the results on this page, consider that the number of vehicle accidents, the number of passengers, and the average trip length all affect the accident rate. This graph differs from the previous graph in that it includes **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle), and is indexed by Passenger Miles.

Rail Accidents

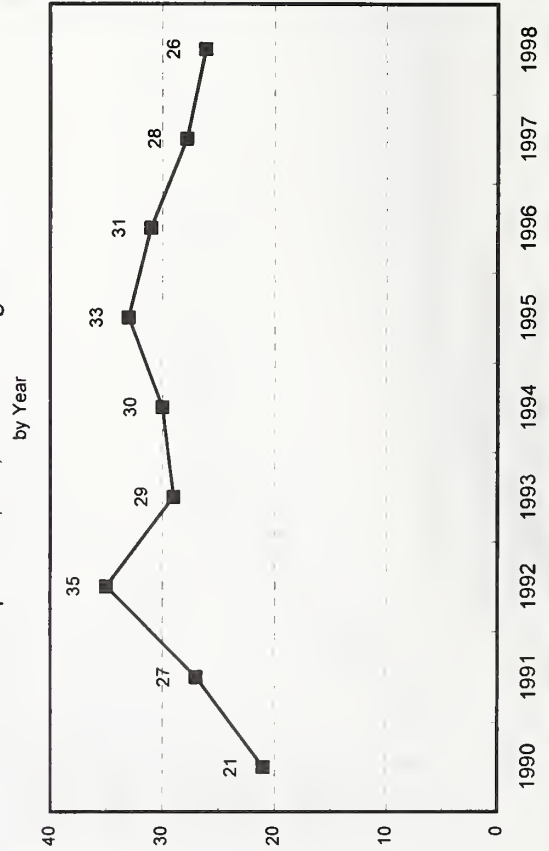
per 100,000 Vehicle Miles



This graph shows the accident rate which is based only on the number of vehicle accidents. These include all rail vehicle accidents resulting from **Collisions** [with vehicles, objects, people (not suicides)] and **Derailements** (bus left roadway). The vehicle mile figure includes both revenue and non-revenue miles since there are risks present during both types of operation. The rail modes (Commuter Rail, Heavy Rail, and Light Rail) report car rather than train miles for vehicle miles.

Rail Accidents

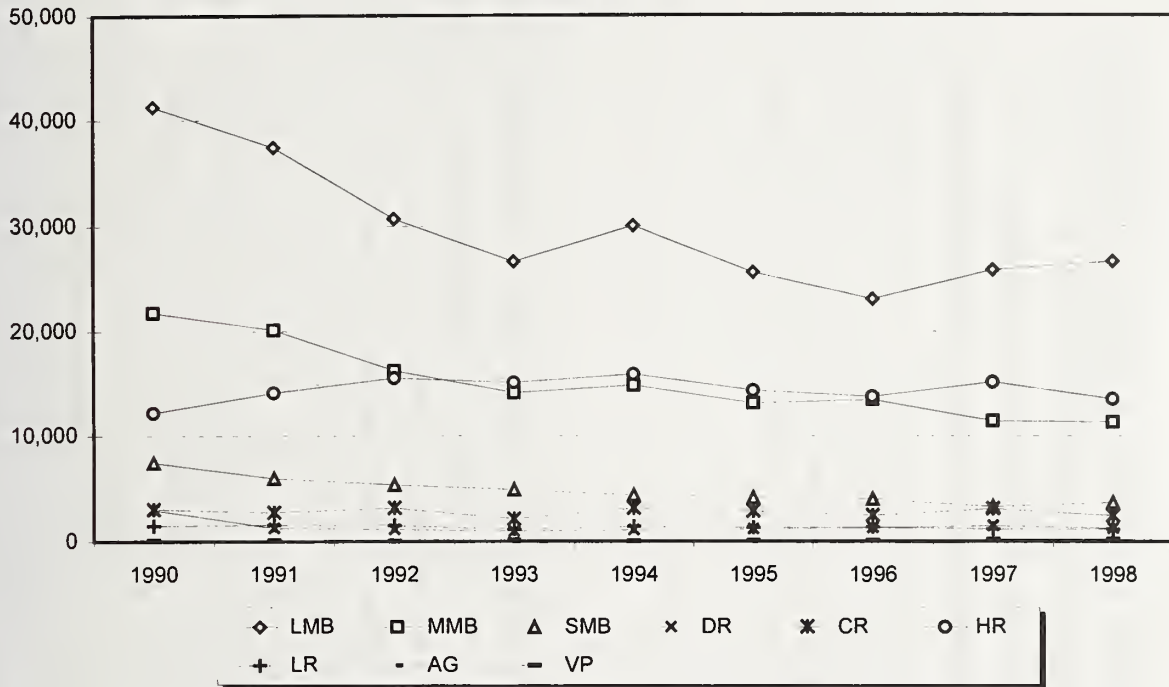
per 100,000 Passenger Miles



This graph shows the trend for rail vehicle accident (or incident) rates, which result from **Collisions** [with vehicles, objects, people (not suicides)], **Derailements** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle). When analyzing the results on this page, consider that the number of vehicle accidents, the number of passengers, and the average trip length all affect the accident rate. This graph differs from the previous graph in that it includes certain **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle), and is indexed by Passenger Miles.

Incidents

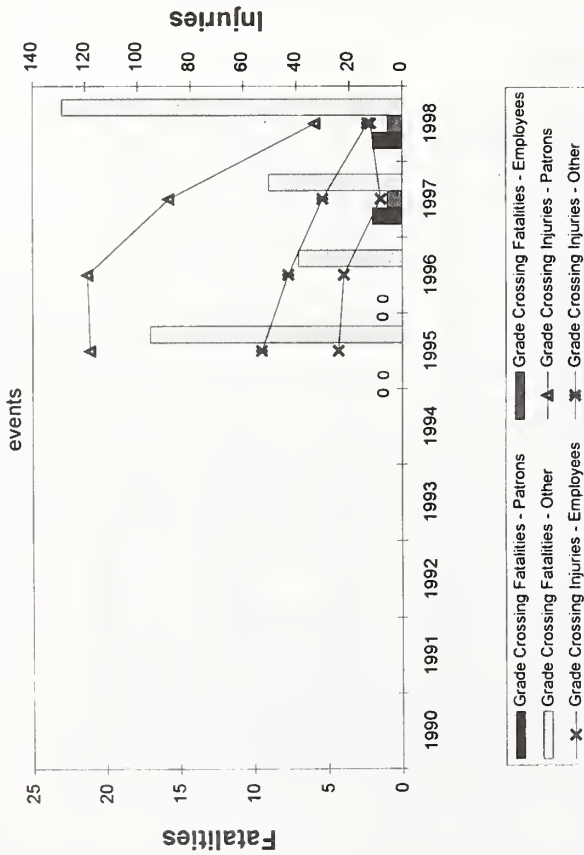
by Mode and Year



Incidents by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	41,266	37,403	30,652	26,626	30,038	25,599	23,060	25,833	26,677
MMB	21,764	20,116	16,222	14,109	14,809	13,102	13,437	11,423	11,308
SMB	7,407	5,934	5,308	4,845	4,338	4,079	3,959	3,268	3,631
DR	2,965	1,241	1,137	946	1,062	1,173	1,284	1,454	1,221
CR	3,031	2,716	3,160	2,111	3,115	2,847	2,449	3,078	2,410
HR	12,178	14,102	15,512	15,082	15,869	14,327	13,748	15,151	13,516
LR	1,465	1,543	1,492	1,136	1,413	1,276	1,350	1,173	1,121
AG	3	1	8	10	10	10	25	19	16
VP	84	83	40	121	39	58	80	162	194
Total	90,163	83,139	73,831	64,986	70,693	62,471	59,392	61,561	60,094

Rail Grade Crossing Fatalities and Injuries



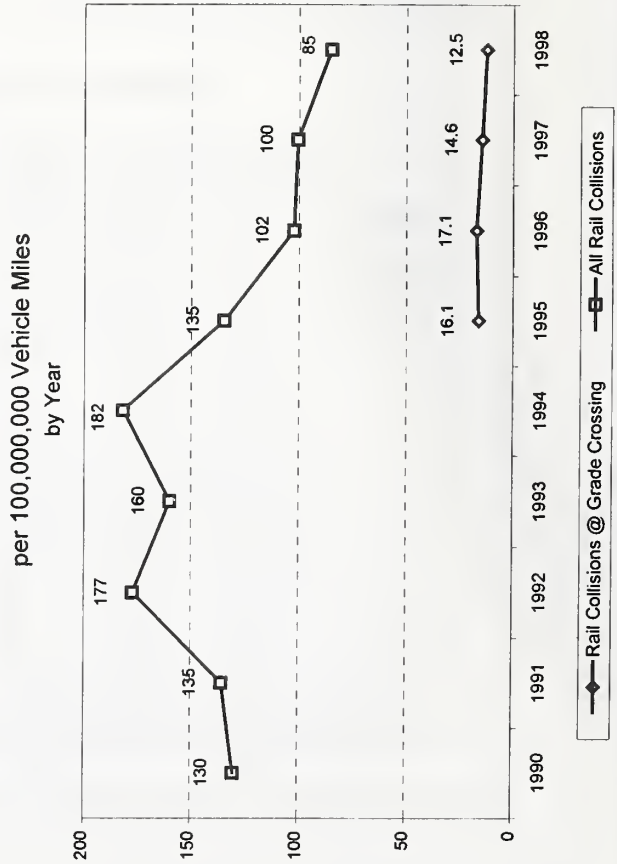
This graph shows the *fatalities* (bars) and *injuries* (lines) that occur at grade crossings.

Note the majority of fatalities are Others (e.g., pedestrians, trespassers, etc.).

The majority of injuries are Patrons.

Both fatalities and injuries are trending down.

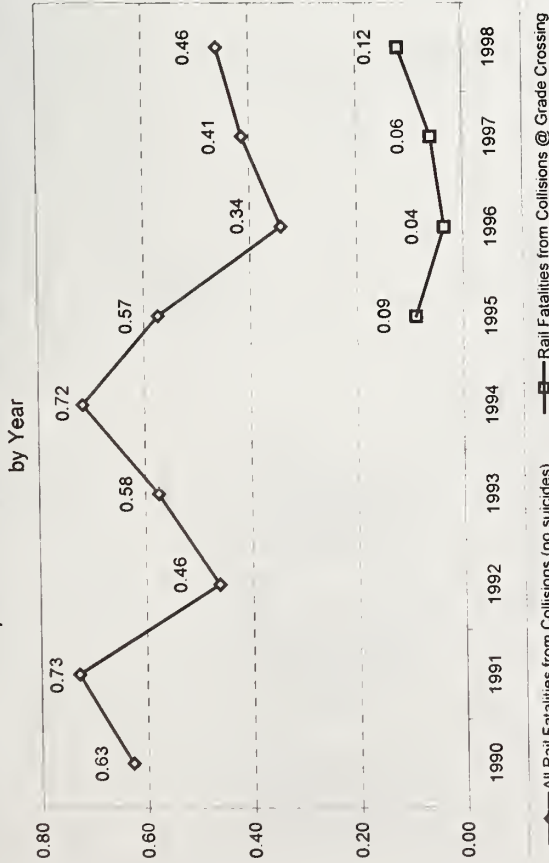
Rail Collisions - All and @ Grade Crossing



This graph shows the collision rate which is based only on the number of vehicle accidents. These include all rail vehicle accidents resulting from **Collisions** [with vehicles, objects, people (not suicides)]. The Rail Collisions @ Grade Crossings rate is a subset of the All Rail Collisions rate. The vehicle mile figure includes both revenue and non-revenue miles since there are risks present during both types of operation. The rail modes (Commuter Rail, Heavy Rail, and Light Rail) report car rather than train miles for vehicle miles. For example, a CR locomotive and 3 cars travelling 10 miles accrues 30 vehicle miles (locomotive not counted, only passenger cars).

Rail Collision Fatalities - All and @ Grade Crossing

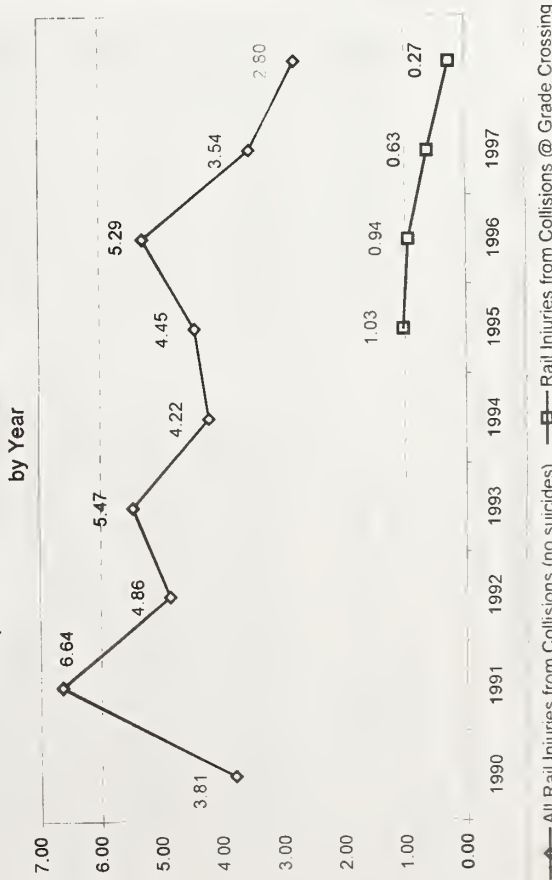
per 100,000,000 Passenger Miles



These statistics represent *fatalities* resulting from all Rail Collisions [with vehicles, objects, people (not suicides)] and the corresponding subset of *fatalities* that occurred due to these collisions at Grade Crossings. When analyzing the results on this page, consider that the number of rail vehicle collisions, the number of passengers, and the average trip length all affect the collision rate.

Rail Collision Injuries - All and @ Grade Crossing

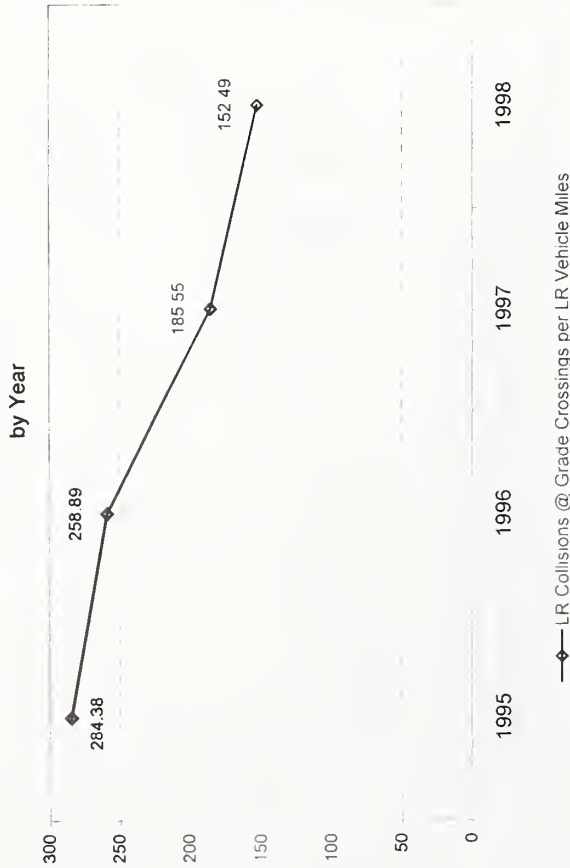
per 100,000,000 Passenger Miles



These statistics represent *injuries* resulting from all Rail Collisions [with vehicles, objects, people (not suicide attempts)] and the corresponding subset of *injuries* that occurred due to these collisions at Grade Crossings. When analyzing the results on this page, consider that the number of rail vehicle collisions, the number of passengers, and the average trip length all affect the collision rate.

Light Rail Collisions @ Grade Crossing

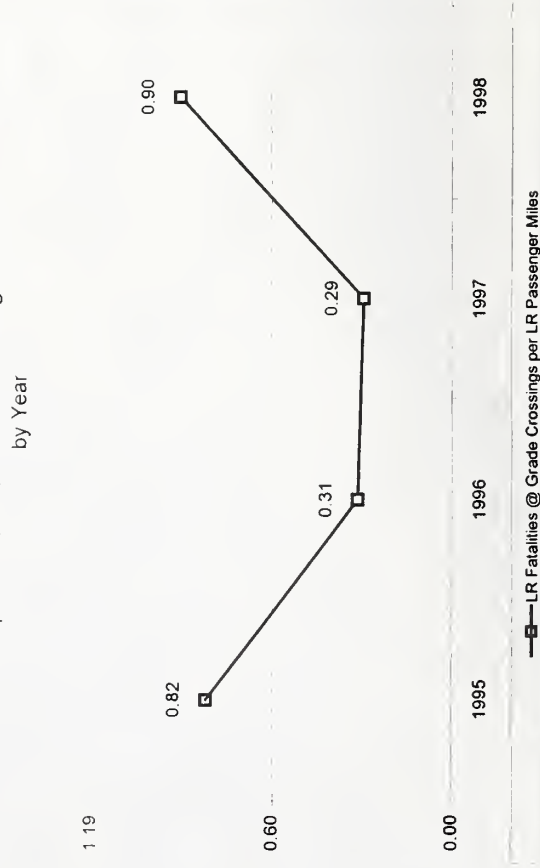
per 100,000,000 LR Vehicle Miles



This includes light rail vehicle accidents resulting from **Collisions @ Grade Crossings** [with vehicles, objects, people]. The LR vehicle mile figure includes both revenue and non-revenue miles since there are risks present during both types of operation.

Light Rail Collision Fatalities - @ Grade Crossing

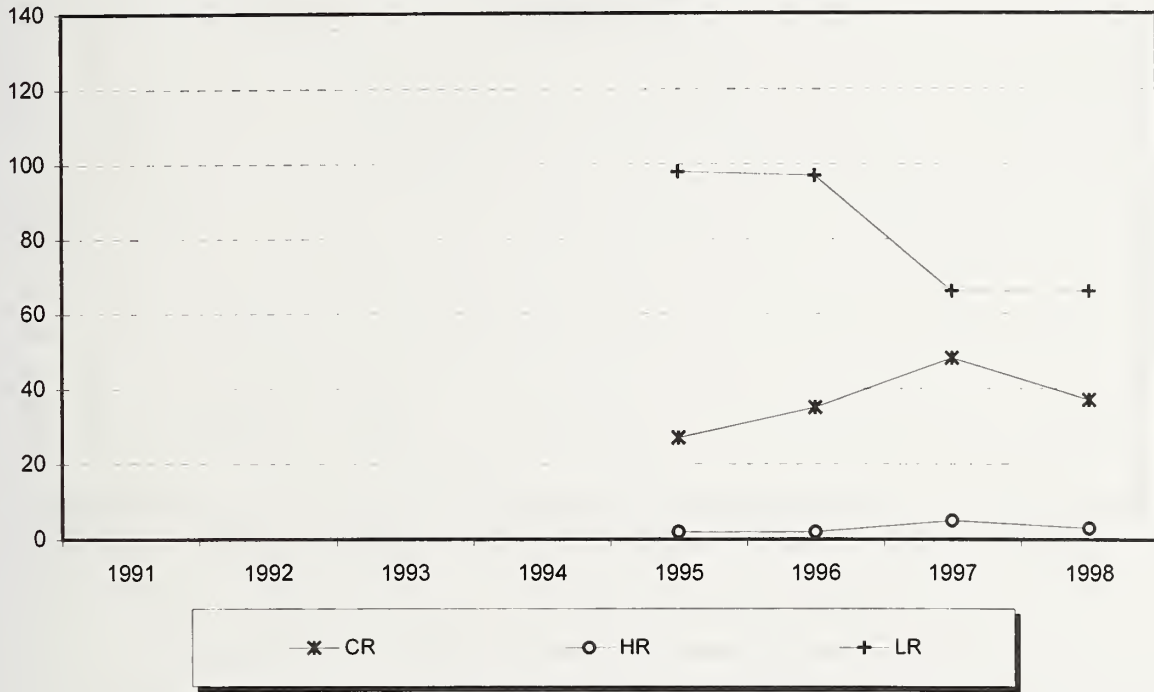
per 100,000,000 LR Passenger Miles



These statistics represent *fatalities* resulting from all Light Rail **Collisions @ Grade Crossings** [with vehicles, objects, people]. When analyzing the results on this page, consider that the number of collisions, the number of passengers, and the average trip length all affect the collision rate.

Rail Incidents @ Grade Crossings

by Mode and Year



Rail Grade Crossing Incidents by Mode and Year

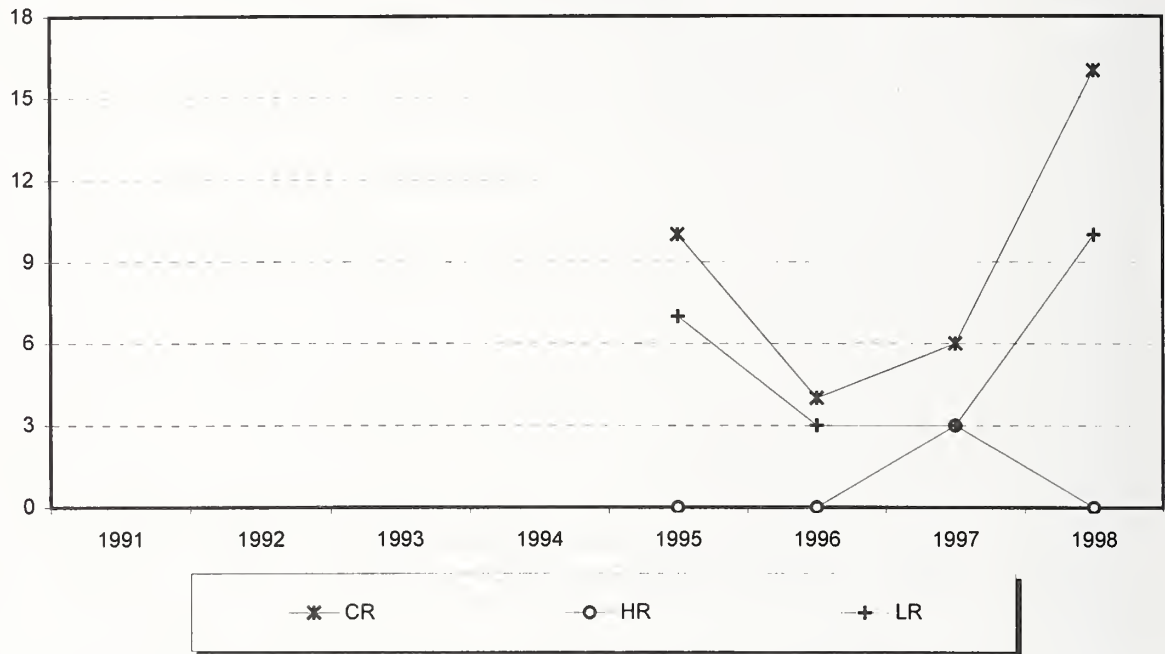
	1991	1992	1993	1994	1995	1996	1997	1998
CR					27	35	48	37
HR					2	2	5	3
LR					98	97	66	66
Total					127	134	119	106

Grade Crossing Incidents Breakout

CR	1995	1996	1997	1998
with Vehicles	17	21	43	26
with Objects	2	11	1	1
with People	8	3	4	10
HR				
With Vehicles	1	2	2	2
With Objects	1	0	0	1
With People	0	0	3	0
LR				
With Vehicles	83	84	61	58
With Objects	3	1	0	1
With People	12	12	5	7

Rail Fatalities @ Grade Crossings

by Mode and Year



Grade Crossing Fatalities by Mode and Year

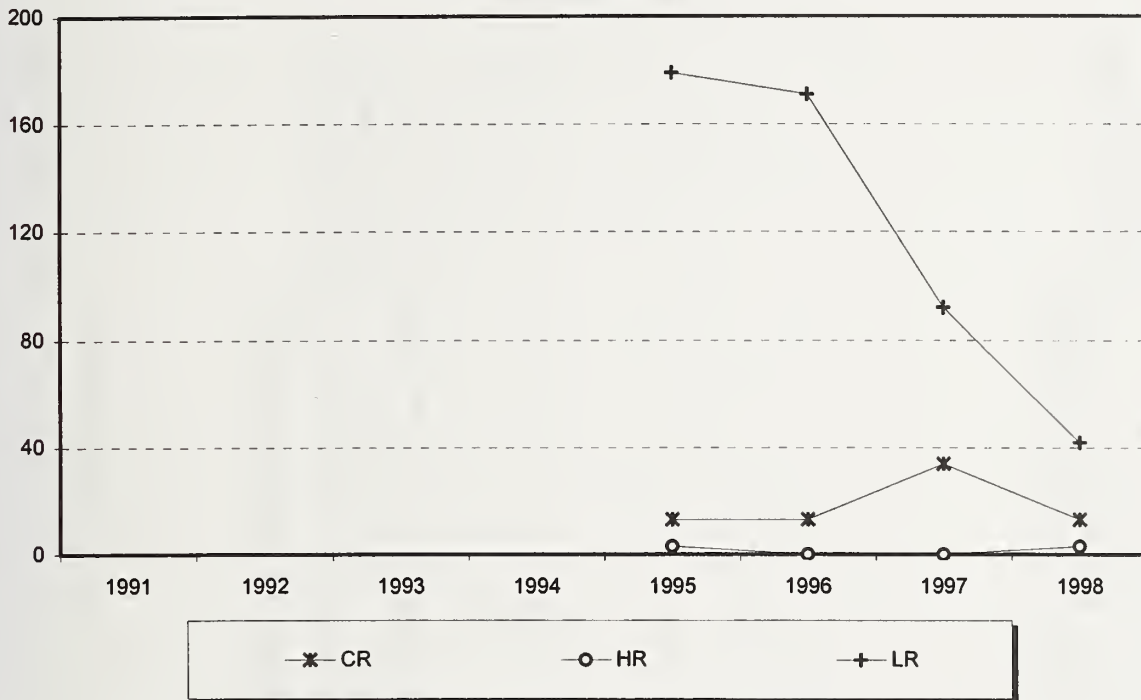
	1991	1992	1993	1994	1995	1996	1997	1998
CR					10	4	6	16
HR					0	0	3	0
LR					7	3	3	10
Total					17	7	12	26

Fatalities @ Grade Crossing Breakout

CR	1995	1996	1997	1998
with Vehicles	2	1	4	12
with Objects	0	1	1	0
with People	8	2	1	4
HR				
With Vehicles	0	0	0	0
With Objects	0	0	0	0
With People	0	0	3	0
LR				
With Vehicles	0	1	0	2
With Objects	0	0	0	0
With People	7	2	3	8

Rail Injuries @ Grade Crossings

by Mode and Year



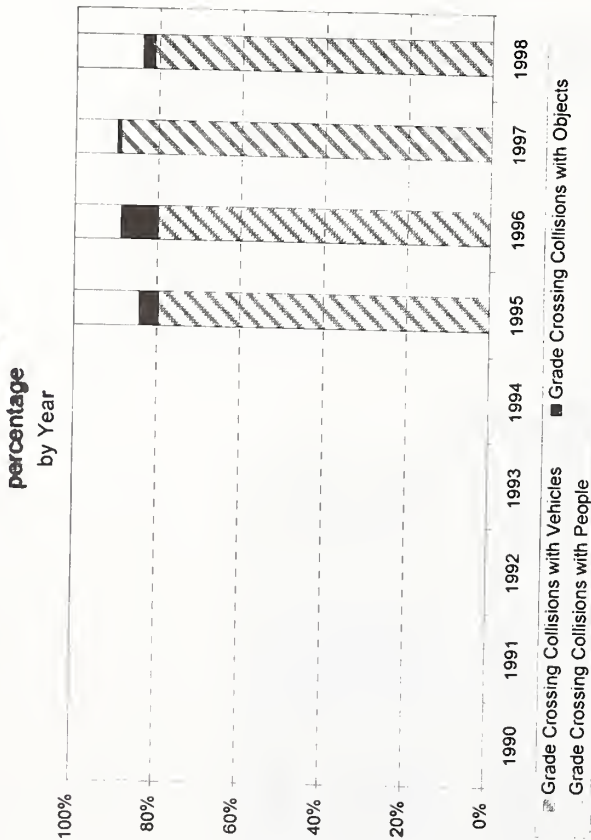
Grade Crossing Injuries by Mode and Year

	1991	1992	1993	1994	1995	1996	1997	1998
CR					13	13	34	13
HR					3	0	0	3
LR					179	171	92	42
Total					195	184	126	58

Injuries @ Grade Crossing Breakout

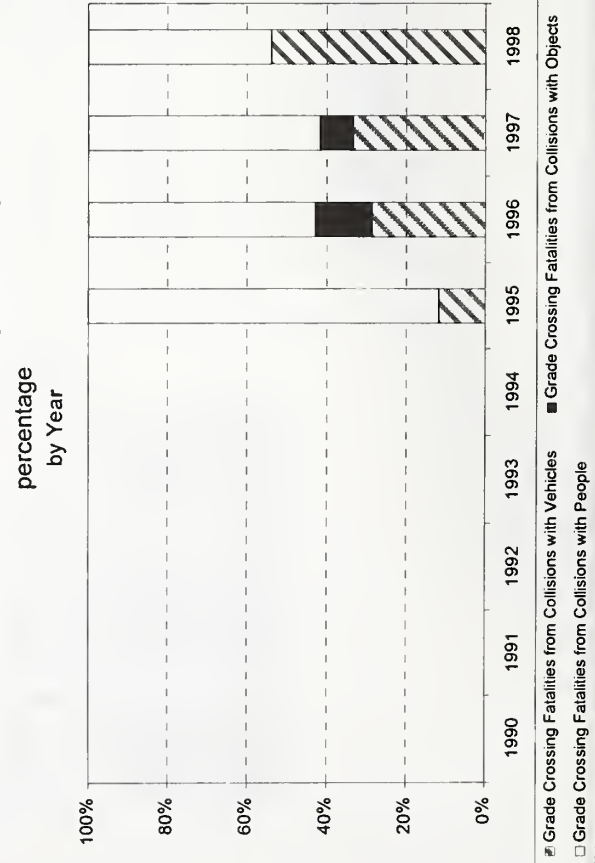
CR	1995	1996	1997	1998
with Vehicles	10	12	31	9
with Objects	2	0	0	0
with People	1	1	3	3
HR				
With Vehicles	3	0	0	3
With Objects	0	0	0	0
With People	0	0	0	0
LR				
With Vehicles	158	34	90	41
With Objects	3	0	0	1
With People	18	4	2	0

Rail Collisions at Grade Crossings - Incident Trend



This graph shows the percentage of each type of grade crossing *incident* (i.e., Collisions with other vehicles, objects, and people) to the total **Collisions at grade crossings**.

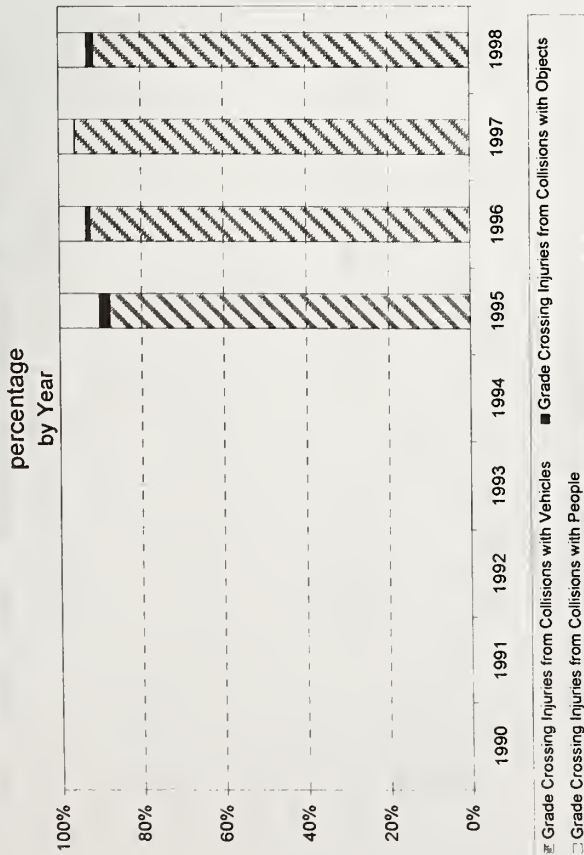
Rail Collisions at Grade Crossings - Fatality Trend



This graph shows the percentage of each type of grade crossing *fatality* (i.e., Collisions with other vehicles, objects, and people) to the total **Fatalities at grade crossings**.

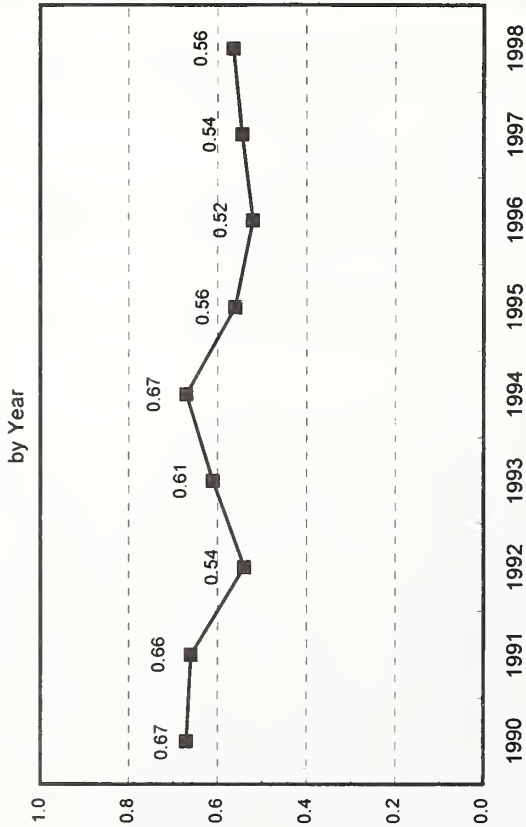
This graph shows the percentage of each type of grade crossing *injury* (i.e., Collisions with other vehicles, objects, and people) to the total **Injuries at grade crossings.**

Rail Collisions at Grade Crossings - Injury Trend



Transit Fatalities

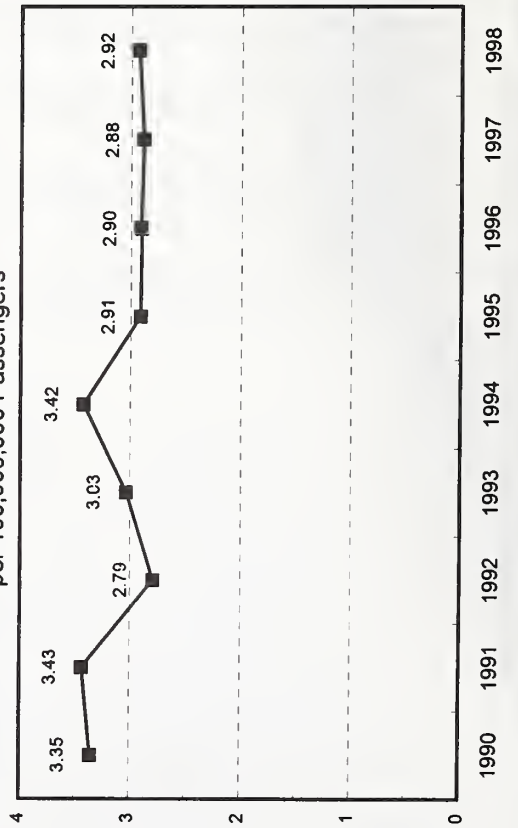
per 100,000,000 Passenger Miles



This graph represents *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and certain **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

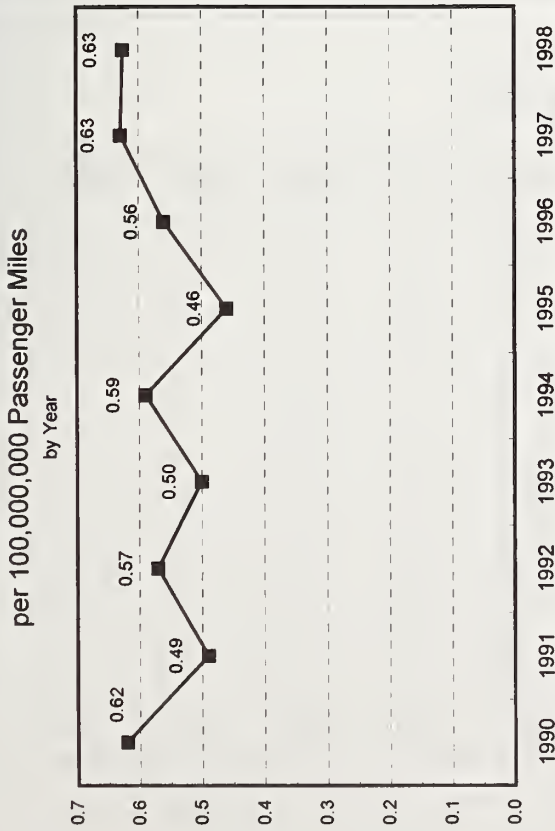
Transit Fatalities

from all causes
per 100,000,000 Passengers



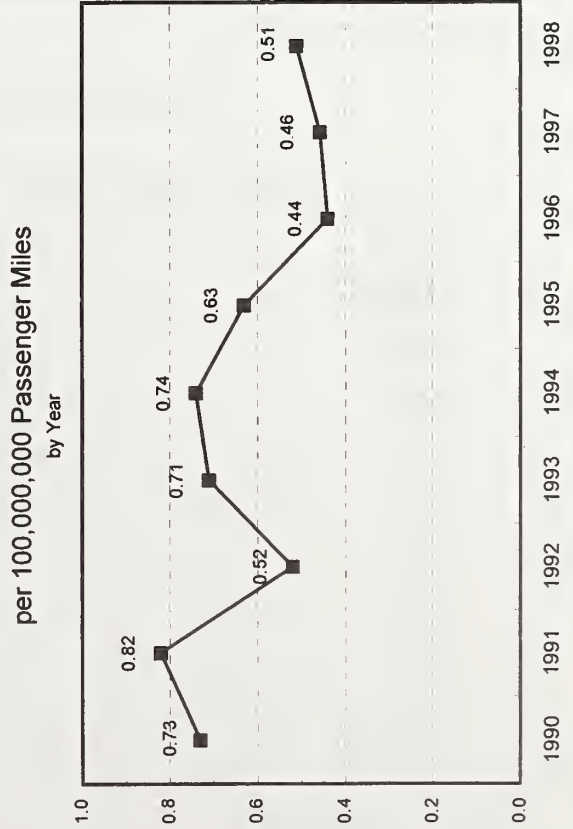
This graph shows the trends for incident, fatality, and injury rates, from all causes (except suicides) listed in the Transit Safety Form (405), i.e., **Collisions, Derailments, Personal Casualties, and Fires.**

Bus Fatalities



The statistics to the left represent bus *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

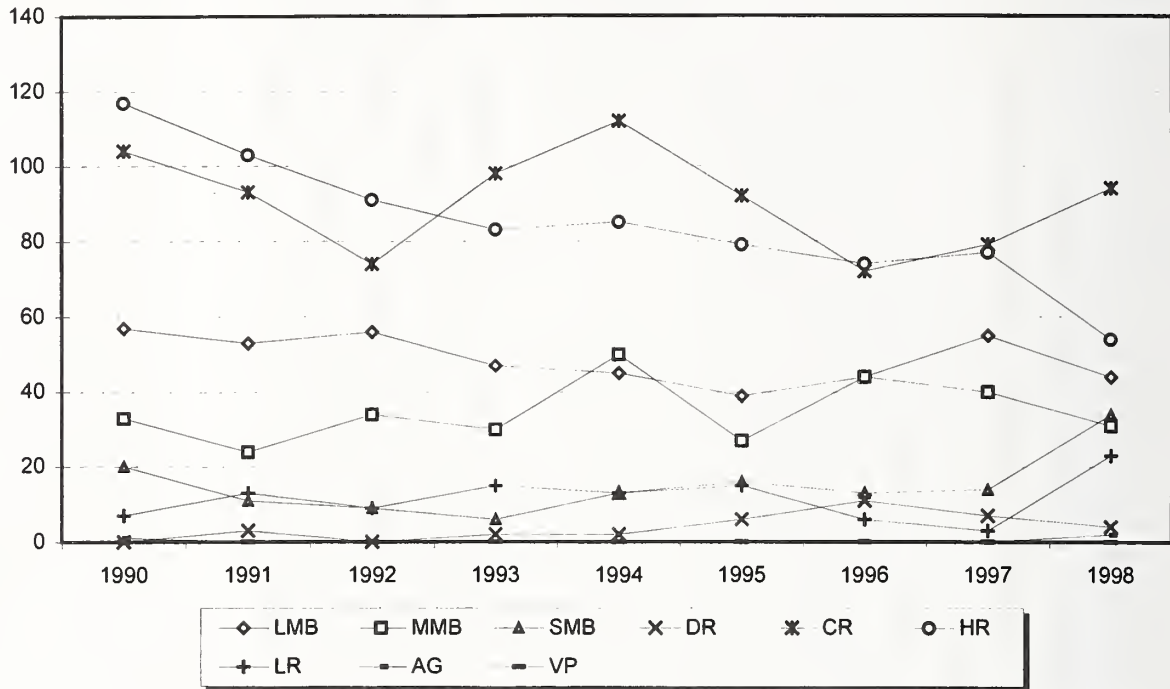
Rail Fatalities



This graph shows rail *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

Fatalities

by Mode and Year



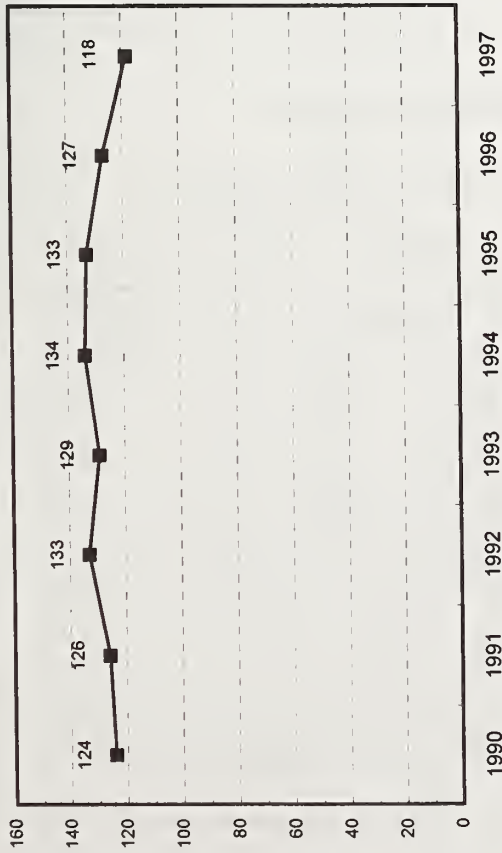
Fatalities by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	57	53	56	47	45	39	44	55	44
MMB	33	24	34	30	50	27	44	40	31
SMB	20	11	9	6	13	16	13	14	34
DR	0	3	0	2	2	6	11	7	4
CR	104	93	74	98	112	92	72	79	94
HR	117	103	91	83	85	79	74	77	54
LR	7	13	9	15	13	15	6	3	23
AG	1	0	0	0	0	0	0	0	2
VP	0	0	0	0	0	0	0	0	0
Total	339	300	273	281	320	274	264	275	286

Transit Injuries

per 100,000 Passenger Miles

by Year

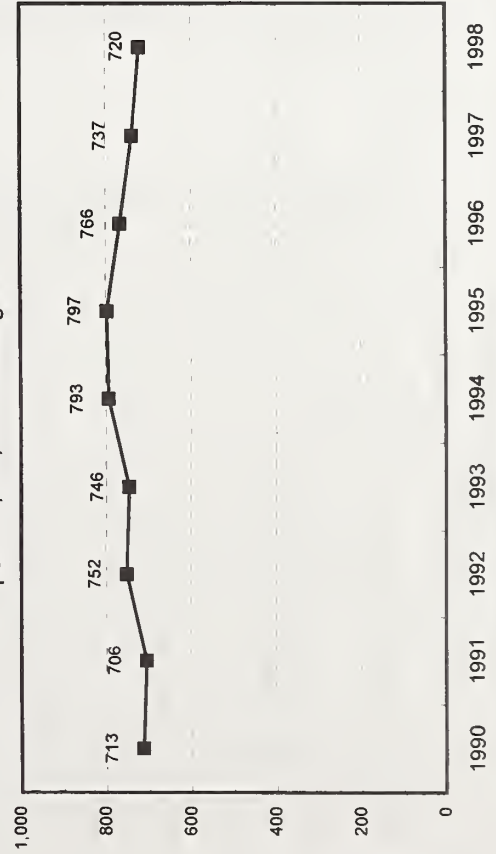


The statistics to the left represent *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle and entering/exiting the vehicle).

Transit Injuries

from all causes

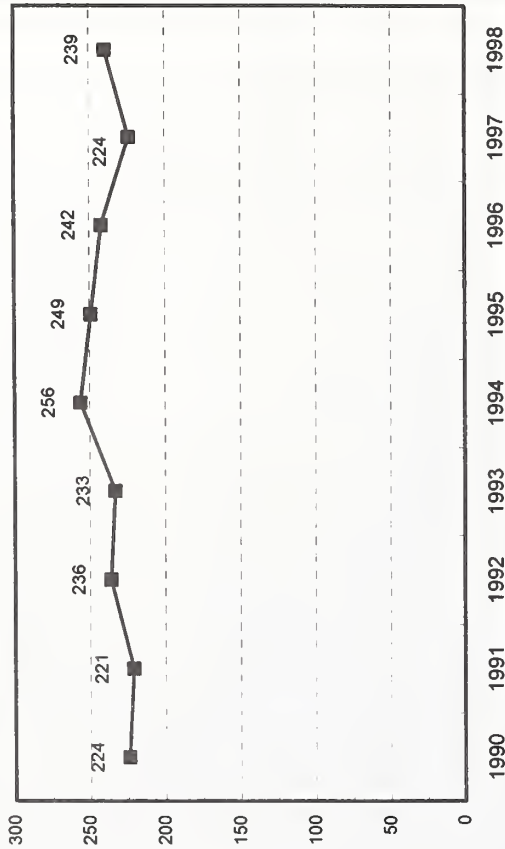
per 100,000,000 Passengers



This graph depicts the trend for the injury rate from all causes (except suicides) listed in the Transit Safety Form (405), i.e., **Collisions, Derailments, Personal Casualties, and Fires.**

Bus Injuries

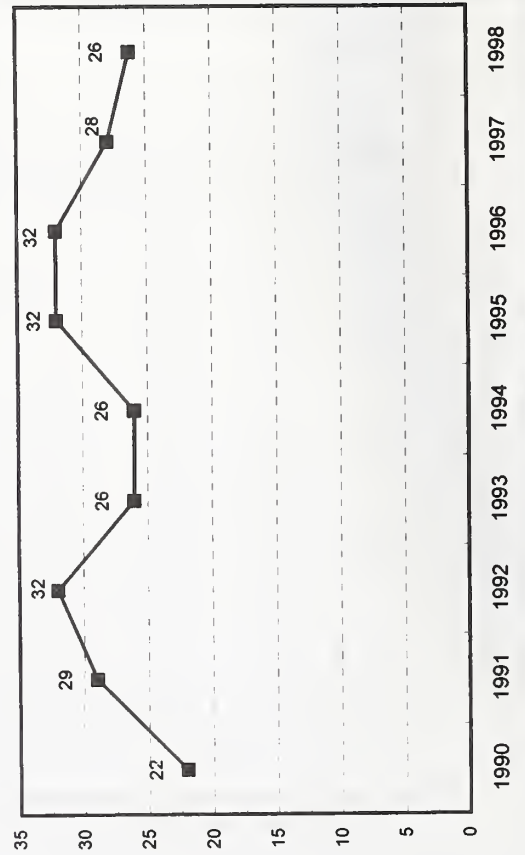
per 100,000 Passenger Miles
by Year



The statistics to the left represent bus *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

Rail Injuries

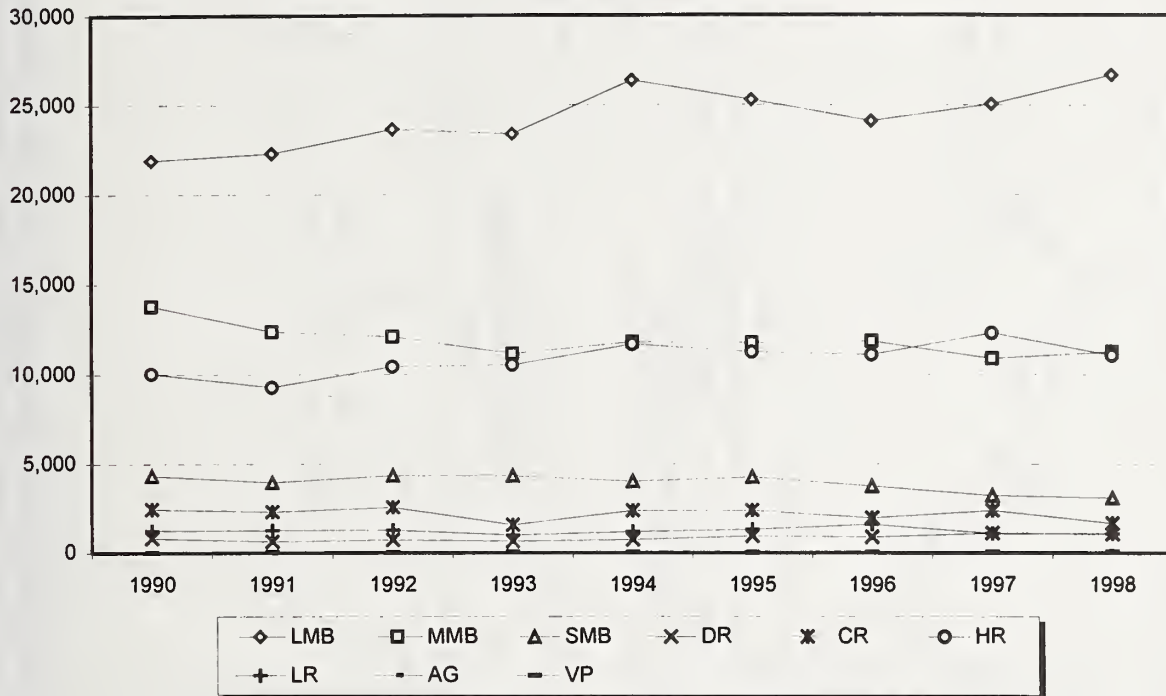
per 100,000 Passenger Miles
by Year



These statistics represent *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments**, and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle). **Personal Casualties** that occur in stations and parking facilities are not part of this measure because they are not generally caused by the operation of rail vehicles.

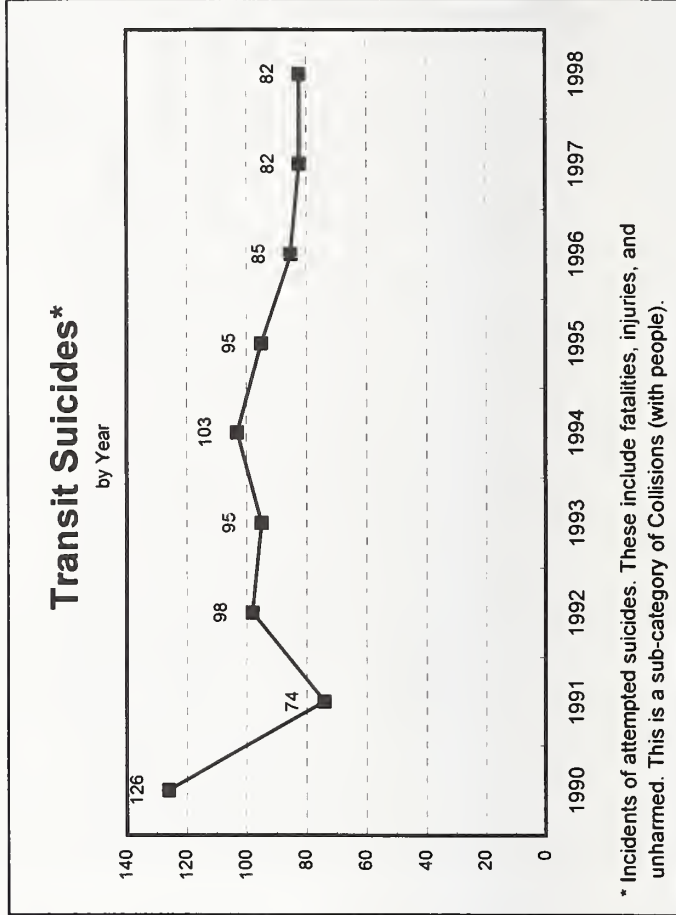
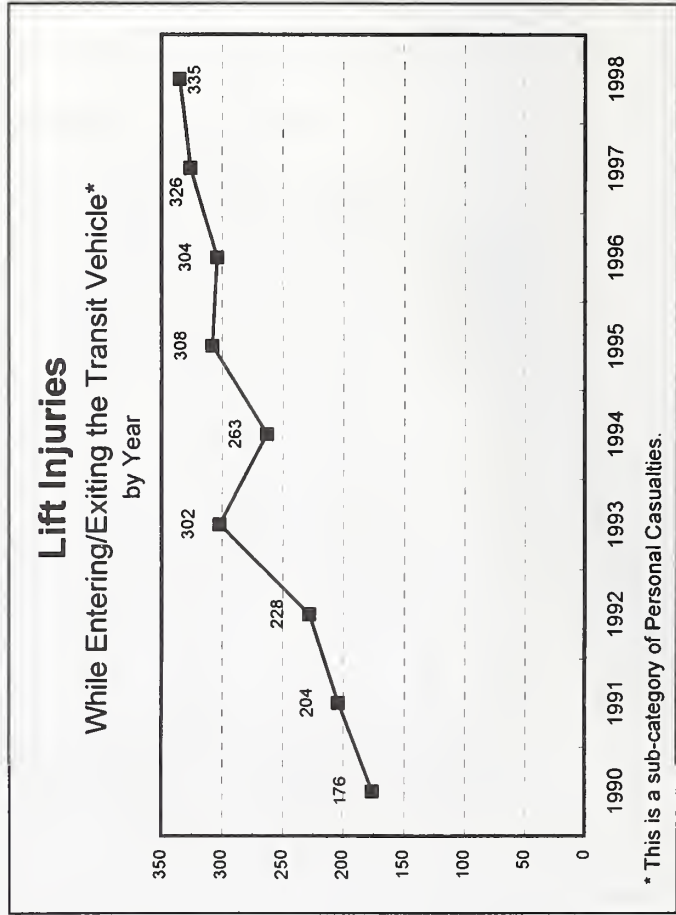
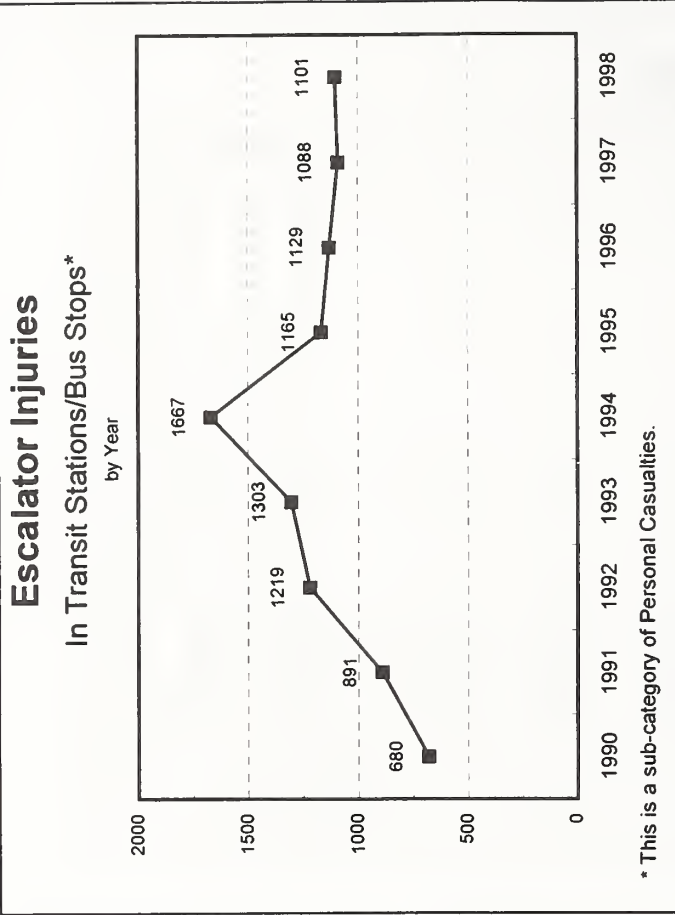
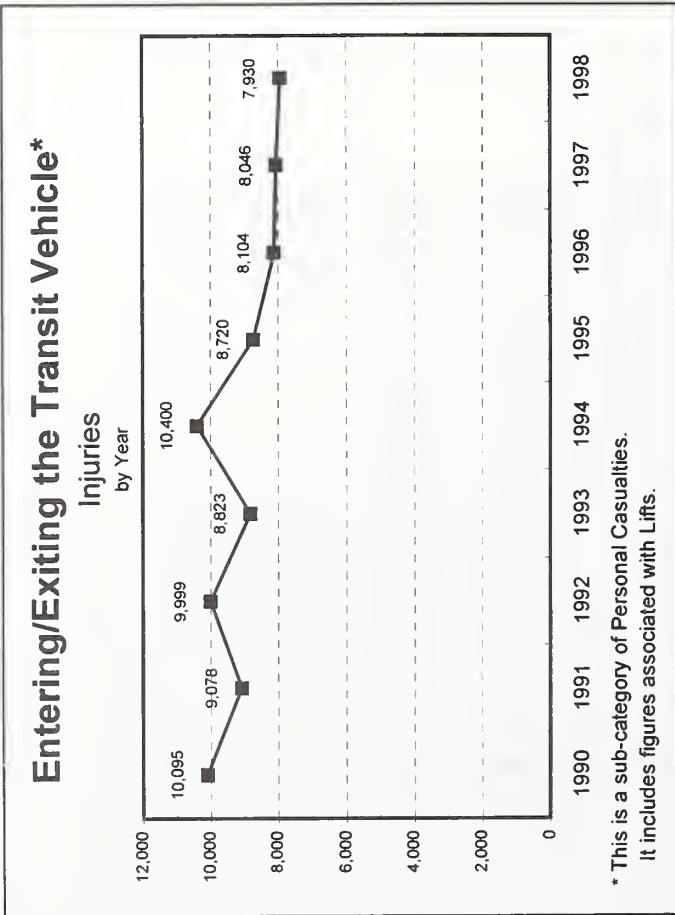
Injuries

by Mode and Year



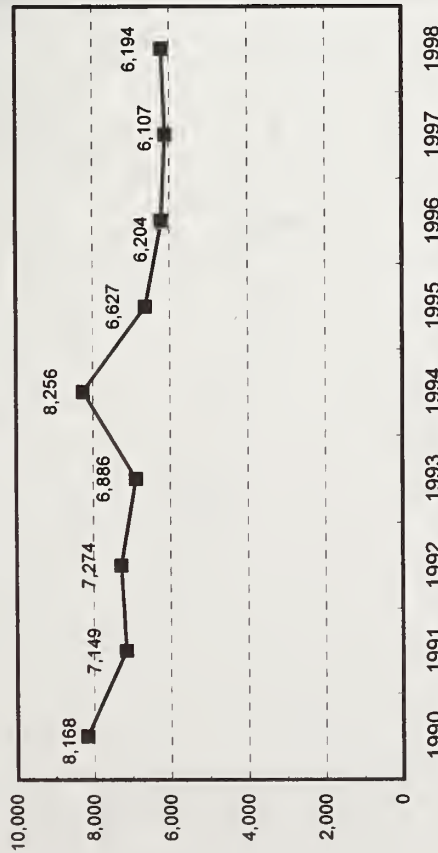
Injuries by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	21,891	22,301	23,654	23,393	26,365	25,284	24,111	25,058	26,671
MMB	13,780	12,366	12,090	11,153	11,798	11,756	11,843	10,882	11,255
SMB	4,335	3,952	4,346	4,327	4,032	4,257	3,755	3,241	3,109
DR	807	622	713	652	731	935	882	1,121	1,064
CR	2,438	2,308	2,546	1,560	2,374	2,374	1,953	2,388	1,677
HR	10,036	9,285	10,446	10,532	11,673	11,238	11,093	12,285	11,059
LR	1,244	1,251	1,268	982	1,181	1,319	1,604	1,087	1,076
AG	4	0	7	10	10	8	20	16	12
VP	21	40	19	59	29	25	27	54	67
Total	54,556	52,125	55,089	52,668	58,193	57,196	55,288	56,132	55,990



Entering/Exiting the Bus*

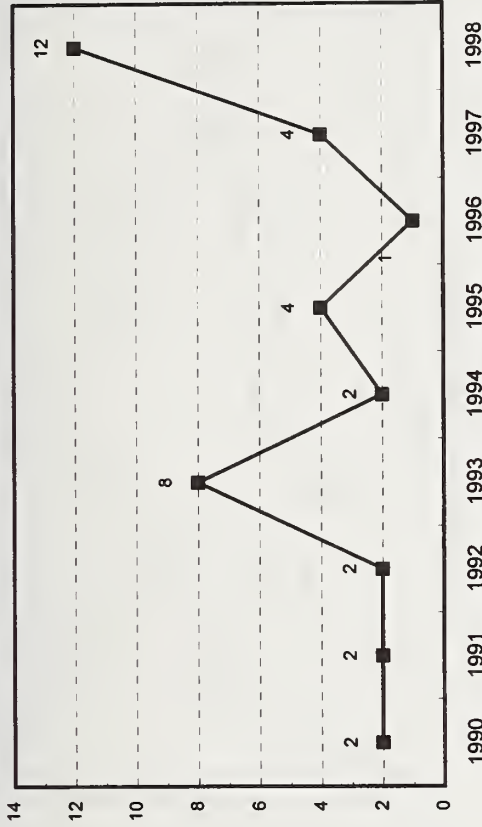
Injuries
by Year



* This is a sub-category of Personal Casualties. It includes figures associated with Lifts.

Escalator Injuries

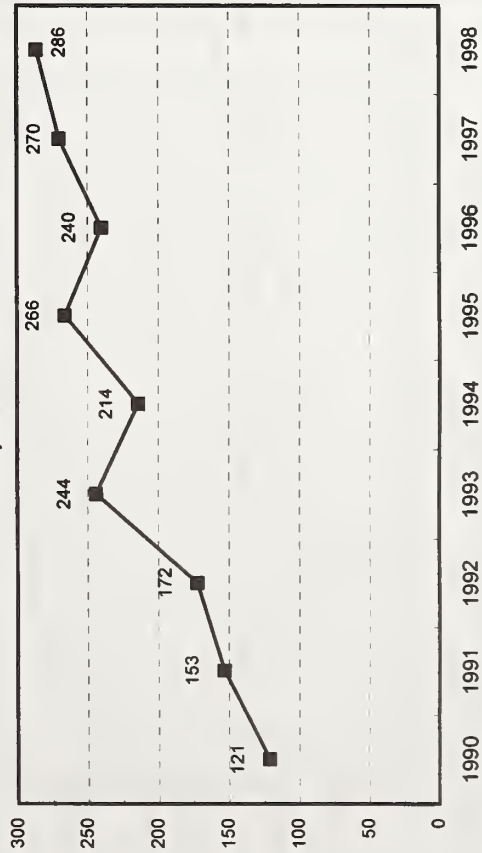
In Bus Stops*
by Year



* This is a sub-category of Personal Casualties.

Lift Injuries

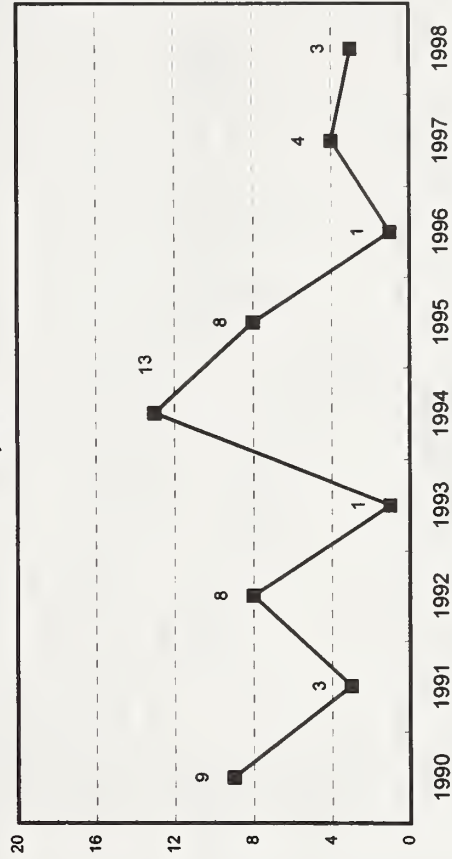
While Entering/Exiting the Bus*
by Year



* This is a sub-category of Personal Casualties.

Suicides*

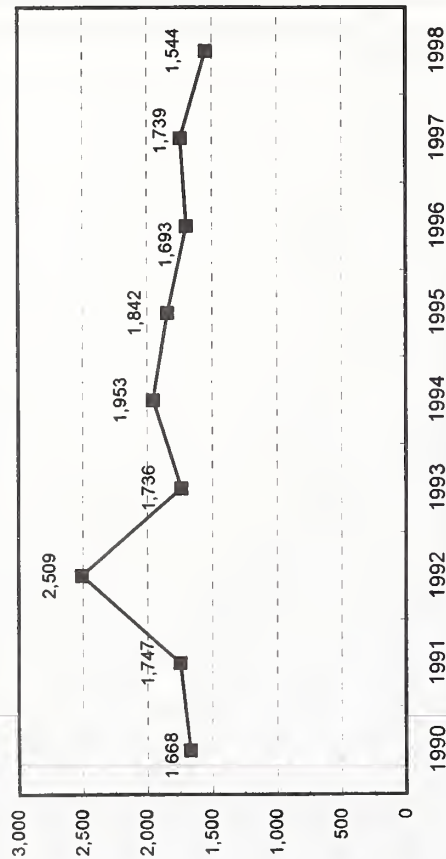
by means of Buses
by Year



* Incidents of attempted suicides. They include fatalities, injuries, and unharmed. This is a sub-category of Collisions (with people)

Entering/Exiting the Rail Vehicle*

Injuries
by Year

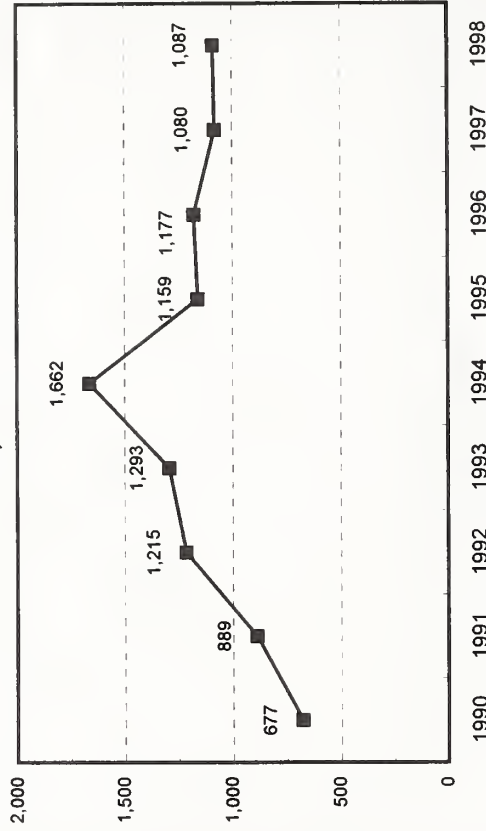


* This is a sub-category of Personal Casualties. It includes figures associated with Lifts.

Escalator Injuries

In Rail Stations*

by Year

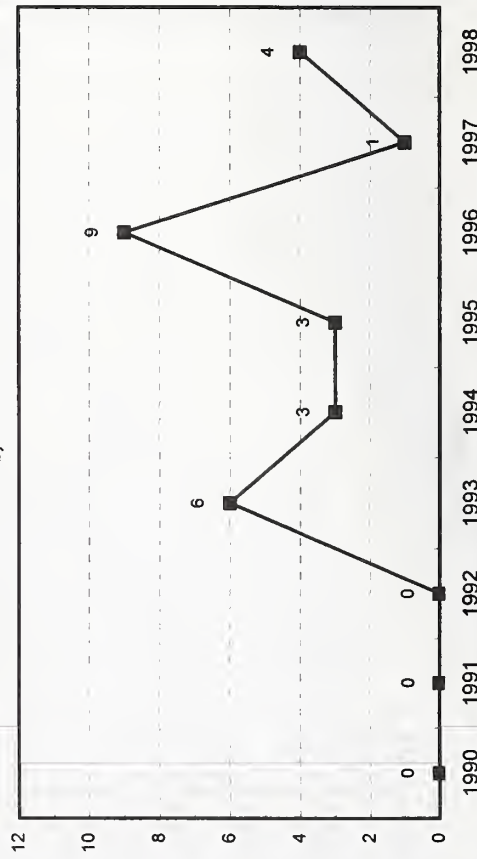


* This is a sub-category of Personal Casualties.

Lift Injuries

While Entering/Exiting the Rail Vehicle*

by Year

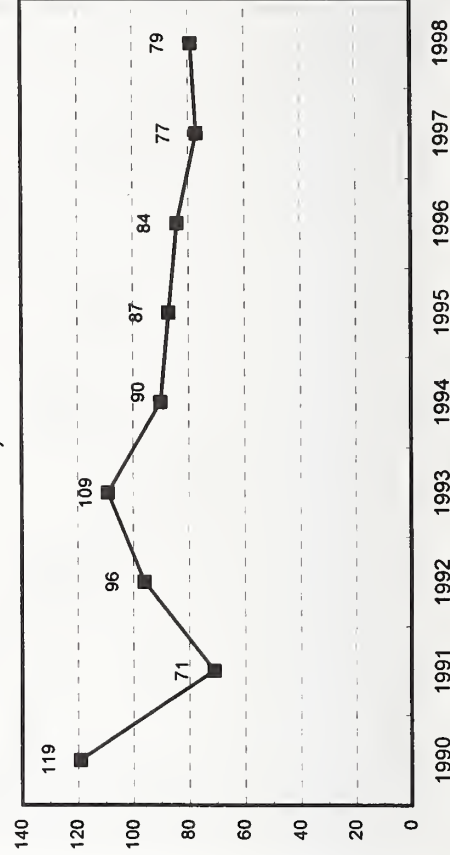


* This is a sub-category of Personal Casualties.

Suicides*

by means of Rail Vehicles

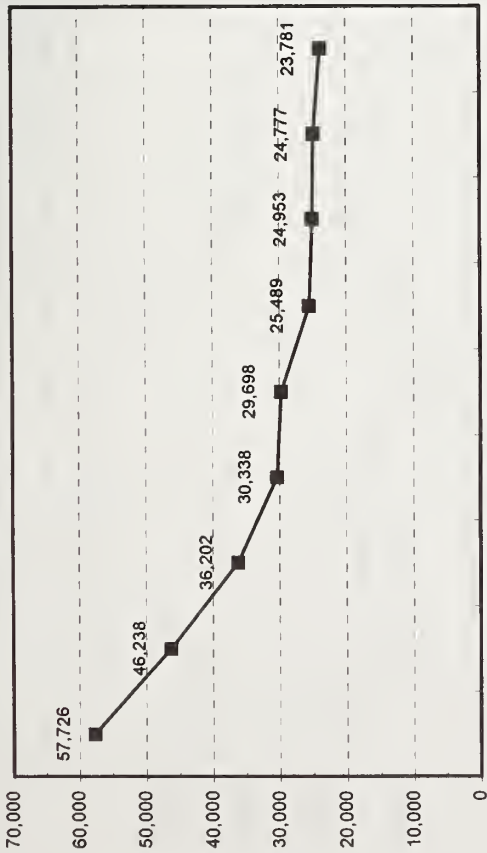
by Year



* Incidents of attempted suicides. They include fatalities, injuries, and unharmed. This is a sub-category of Collisions (with people)

Transit Collisions*

by Year

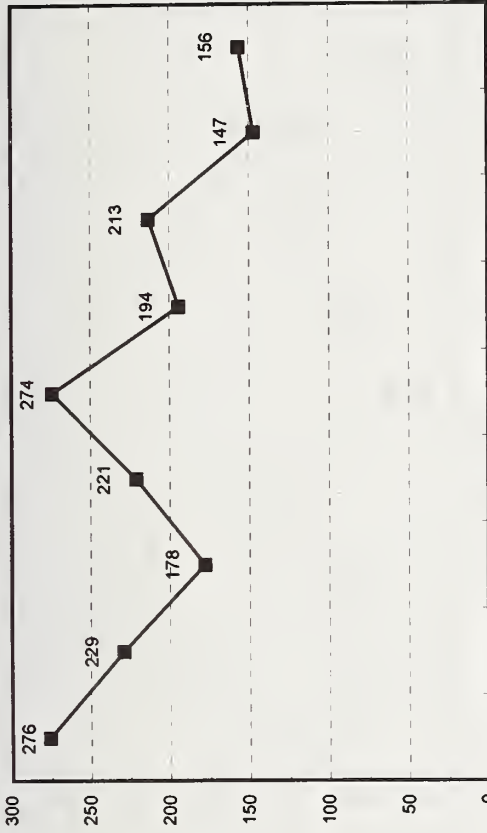


1990 1991 1992 1993 1994 1995 1996 1997 1998

* With Vehicles, Objects, and People (not including suicide attempts).

Transit Derailments/Buses going off road

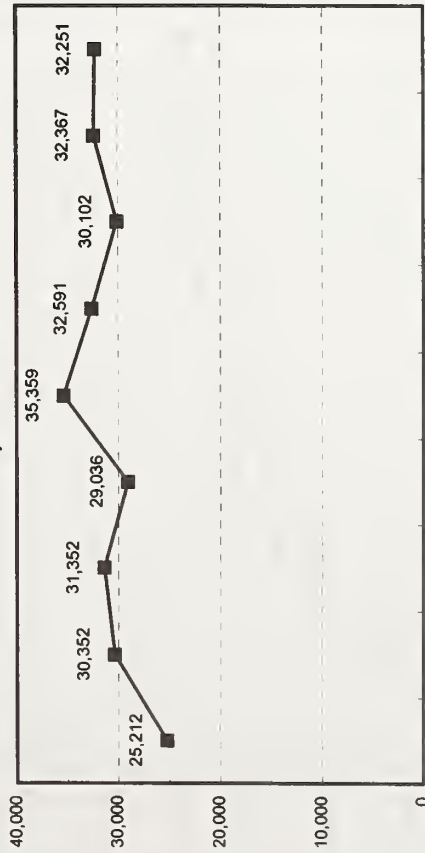
by Year



1990 1991 1992 1993 1994 1995 1996 1997 1998

Transit Personal Casualties*

by Year

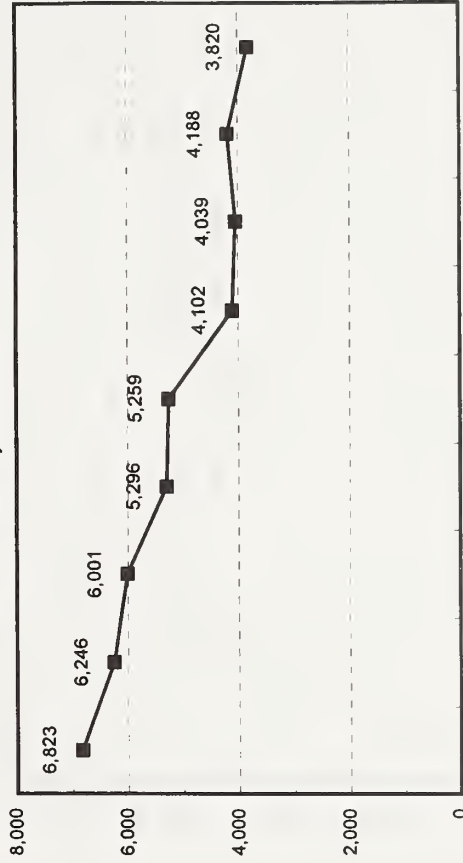


1990 1991 1992 1993 1994 1995 1996 1997 1998

* Personal Casualty is a type of transit mishap category where people are hurt but not as a result of Collisions, Derailments, or Fires. The incidents occur in Parking lots, On Vehicle, Entering/Exiting Vehicle, On R-O-W, and In Station/Stops.

Transit Fires*

by Year

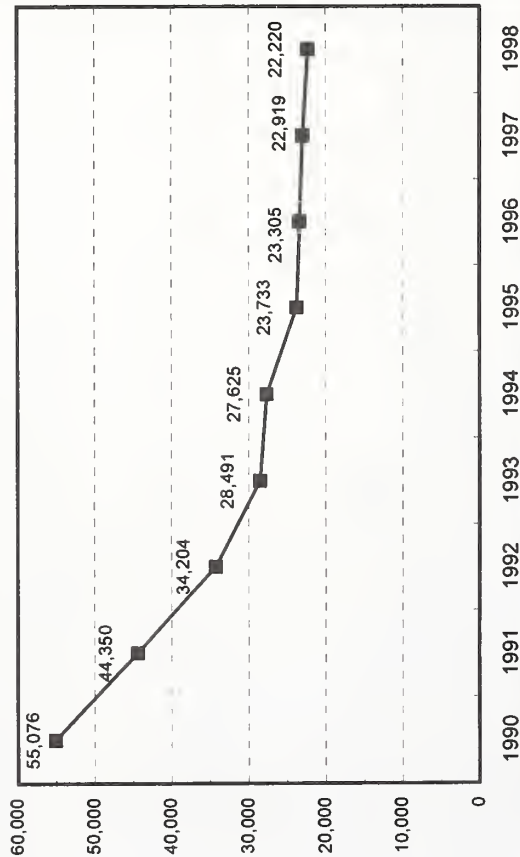


1990 1991 1992 1993 1994 1995 1996 1997 1998

* In Vehicles, Stations, Right of way and Others

Bus Collisions*

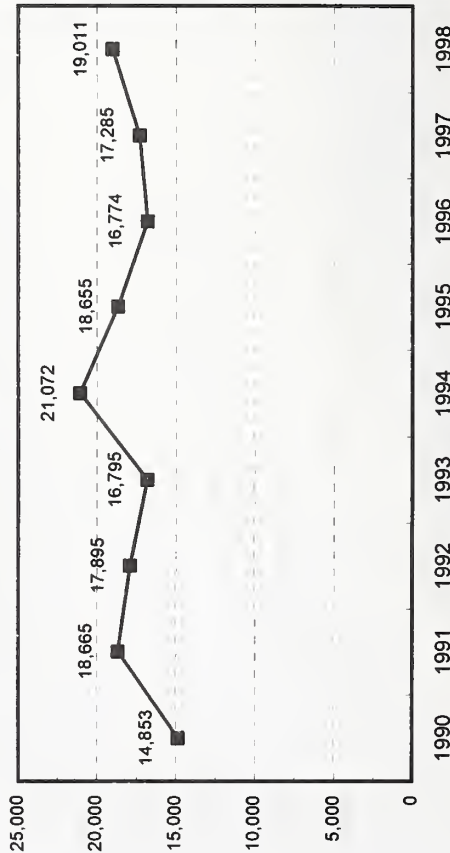
by Year



* With Vehicles, Objects, and People (not including suicide attempts)

Bus Personal Casualties*

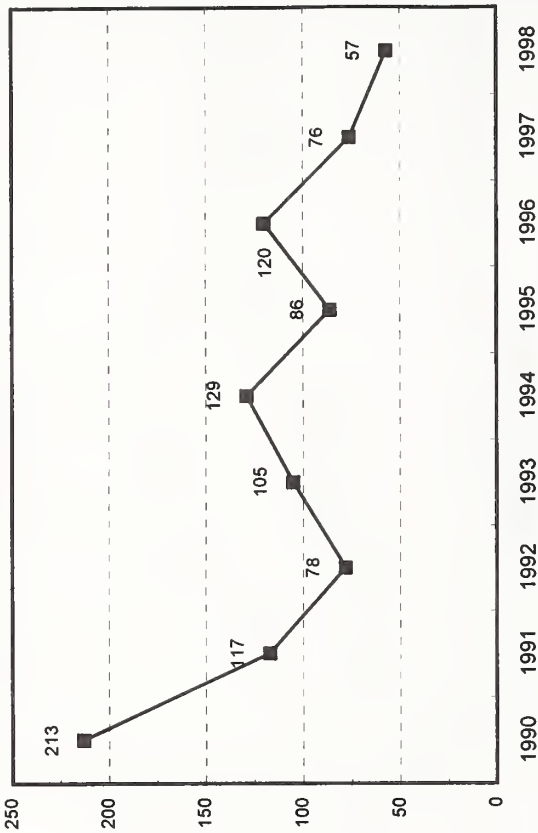
by Year



* Personal Casualty is a type of transit mishap category where people are hurt but not as a result of Collisions, Derailments, or Fires. The incidents occur in Parking lots, On Vehicle, Entering/Exiting Vehicle, On R-O-W, and In Station/Stops.

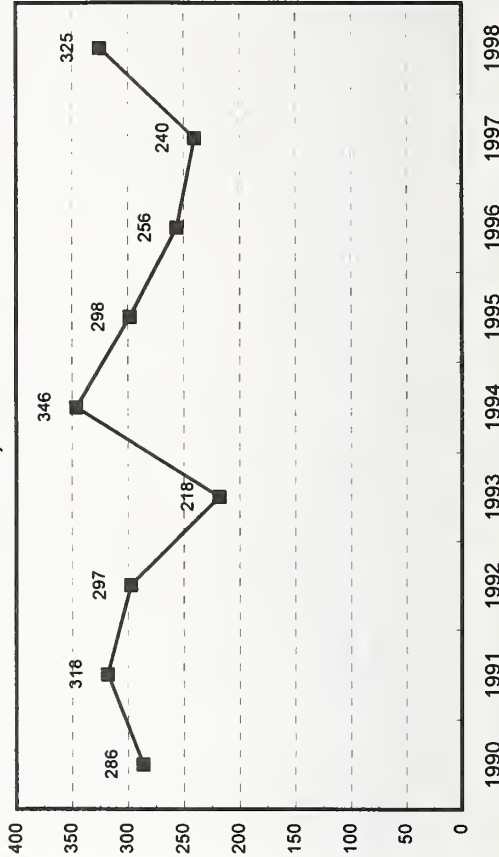
Bus going off road

by Year



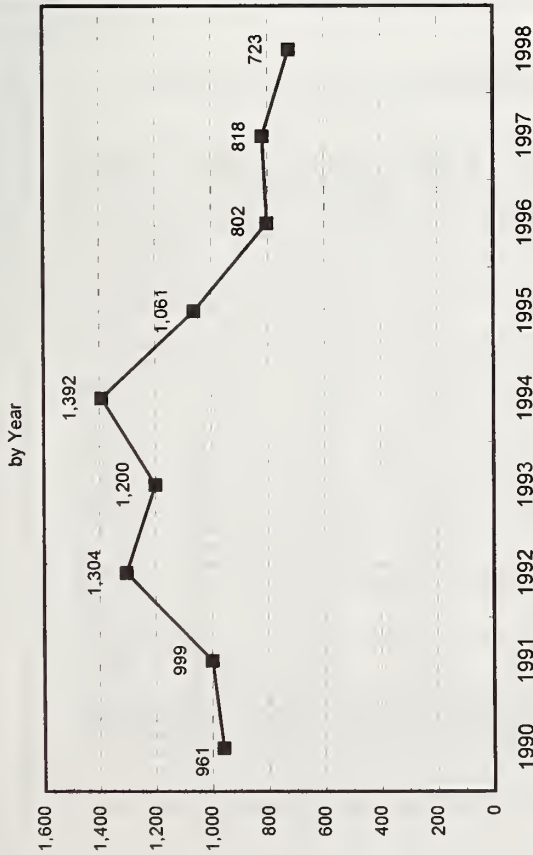
Bus Fires*

by Year



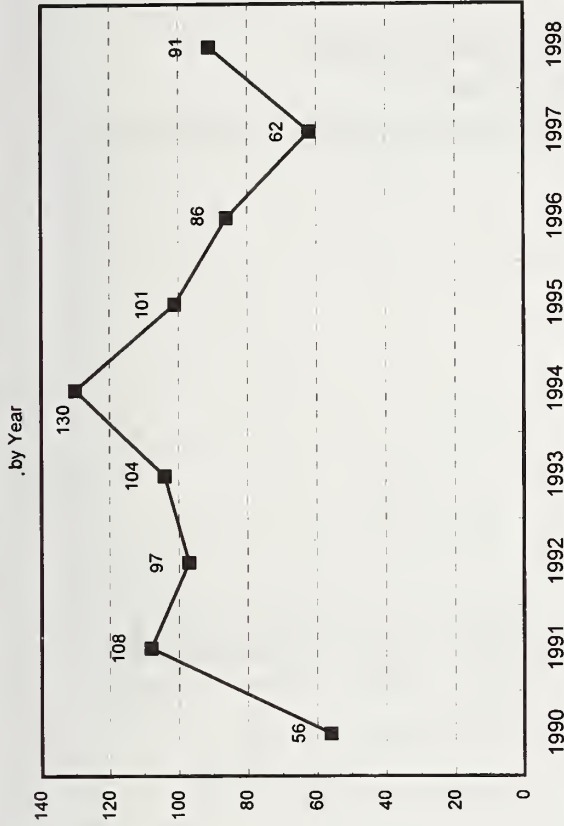
* In Vehicles, Stations, Right of way and others.

Rail Collisions*

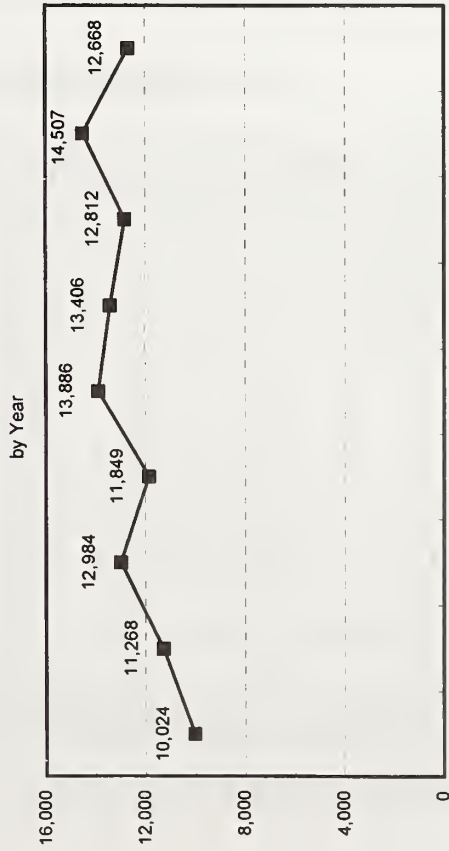


* With Vehicles, Objects, and People (not including suicide attempts)

Derailments

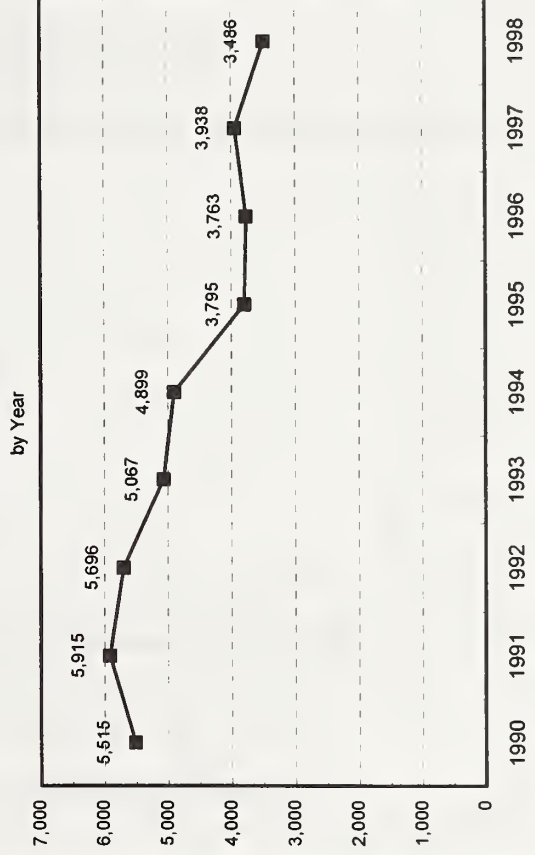


Rail Personal Casualties*



* Personal Casualty is a type of transit mishap category where people are hurt but not as a result of Collisions, Derailments, or Fires. The incidents occur in Parking lots, On Vehicle, Entering/Exiting Vehicle, On R-O-W, and In Station/Stops.

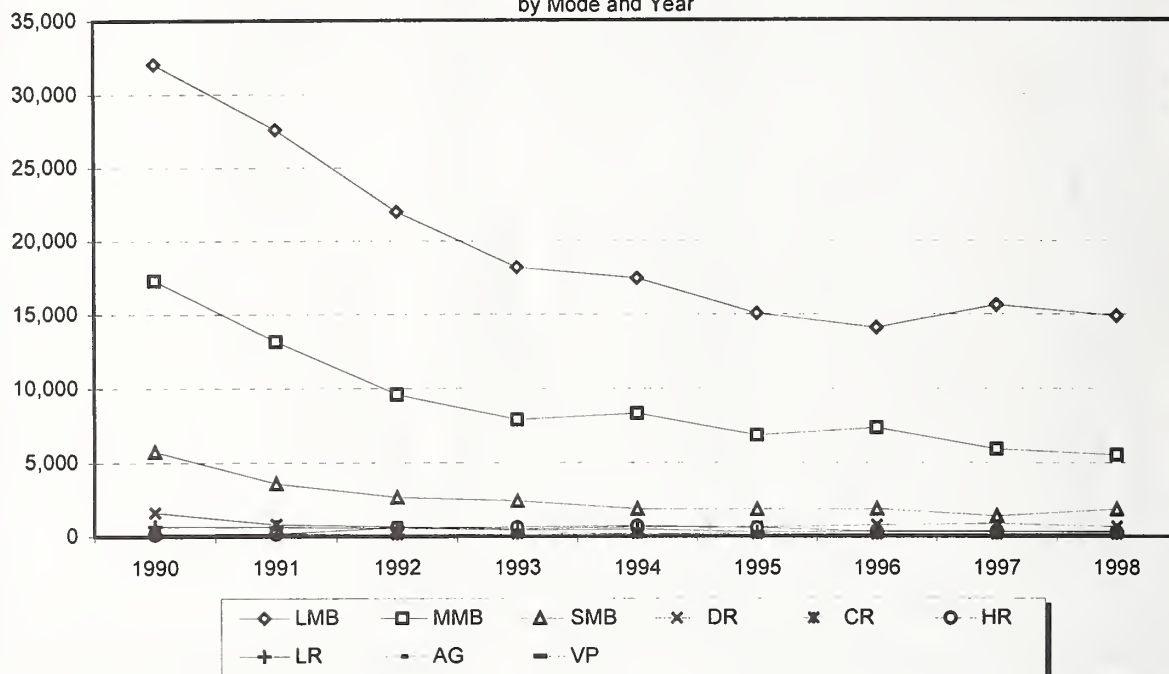
Rail Fires*



* In Vehicles, Stations, Right of way and others.

Collisions

with Vehicles, Objects, and People
by Mode and Year



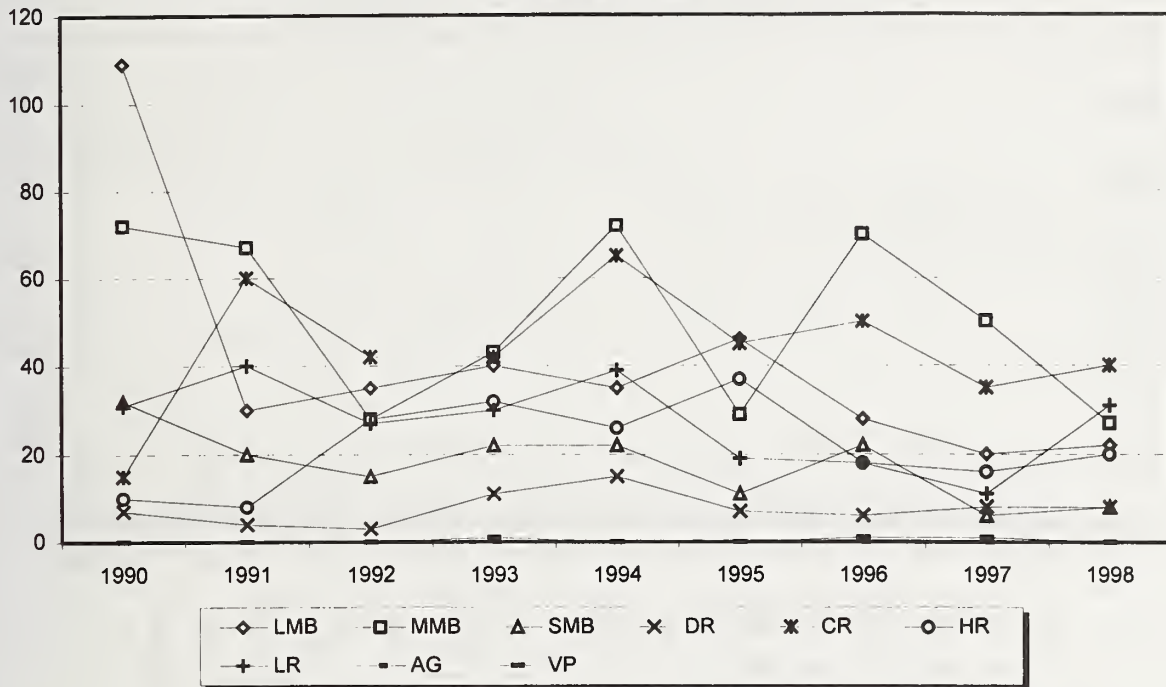
Collisions* by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	32,057	27,608	21,994	18,177	17,450	15,035	14,091	15,619	14,870
MMB	17,282	13,159	9,576	7,904	8,324	6,866	7,366	5,924	5,524
SMB	5,737	3,583	2,634	2,410	1,851	1,832	1,848	1,376	1,826
DR	1,606	810	665	513	644	640	768	878	656
CR	160	188	139	166	201	171	151	157	153
HR	134	180	585	630	718	600	328	309	273
LR	668	631	573	419	473	290	323	352	297
AG	1	0	1	1	1	1	1	3	3
VP	81	79	35	118	36	54	77	159	179
Total	57,726	46,238	36,202	30,338	29,698	25,489	24,953	24,777	23,781

* Does not include suicides

Derailments/Buses going off road

by Mode and Year

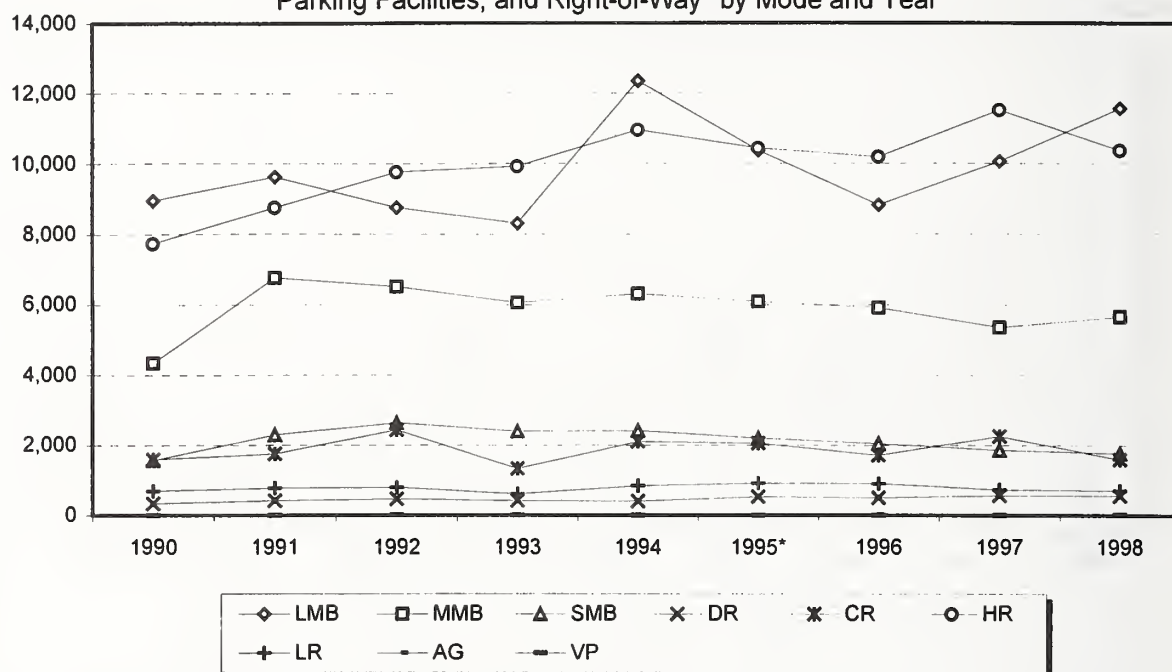


Derailments/Buses going off road by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	109	30	35	40	35	46	28	20	22
MMB	72	67	28	43	72	29	70	50	27
SMB	32	20	15	22	22	11	22	6	8
DR	7	4	3	11	15	7	6	8	8
CR	15	60	42	42	65	45	50	35	40
HR	10	8	28	32	26	37	18	16	20
LR	31	40	27	30	39	19	18	11	31
AG	0	0	0	0	0	0	0	0	0
VP	0	0	0	1	0	0	1	1	0
Total	276	229	178	221	274	194	213	147	156

Personal Casualties

Inside Vehicle, Entering/Exiting Vehicle, In Stations/Bus Stops
Parking Facilities, and Right-of-Way* by Mode and Year



* Starting in 1995, Personal Casualties in Parking Facilities and R-O-W were added to Form 405 as distinct sub-categories of Personal Casualties

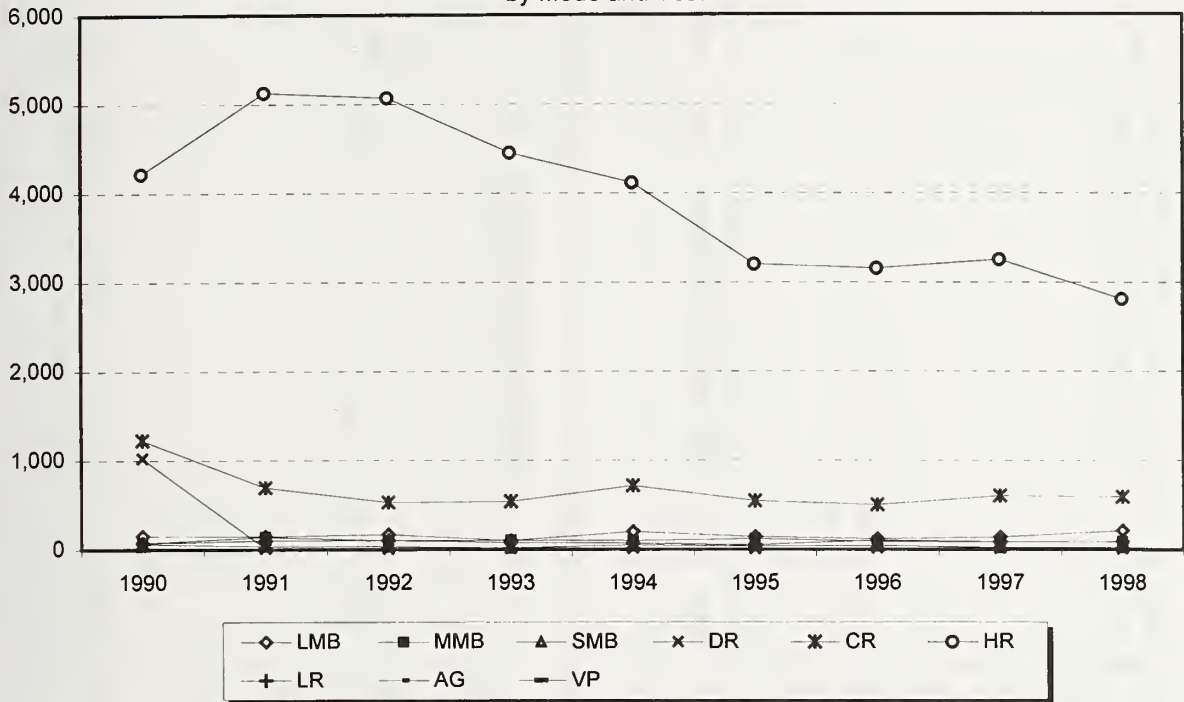
Personal Casualties by Mode and Year

	1990	1991	1992	1993	1994	1995*	1996	1997	1998
LMB	8,949	9,618	8,753	8,309	12,348	10,372	8,820	10,057	11,572
MMB	4,335	6,753	6,514	6,062	6,312	6,084	5,909	5,363	5,669
SMB	1,569	2,294	2,628	2,394	2,412	2,199	2,045	1,865	1,770
DR	330	415	461	412	391	520	494	558	551
CR	1,592	1,751	2,429	1,326	2,102	2,057	1,719	2,254	1,599
HR	7,740	8,743	9,766	9,916	10,952	10,438	10,190	11,526	10,369
LR	692	774	789	607	832	911	903	727	700
AG	2	0	7	9	8	8	20	15	11
VP	3	4	5	1	2	2	2	2	14
Total	25,212	30,352	31,352	29,036	35,359	32,591	30,102	32,367	32,255

* Starting in 1995, Personal Casualties in Parking Facilities and R-O-W were added to Form 405 as distinct sub-categories of Personal Casualties

Fires

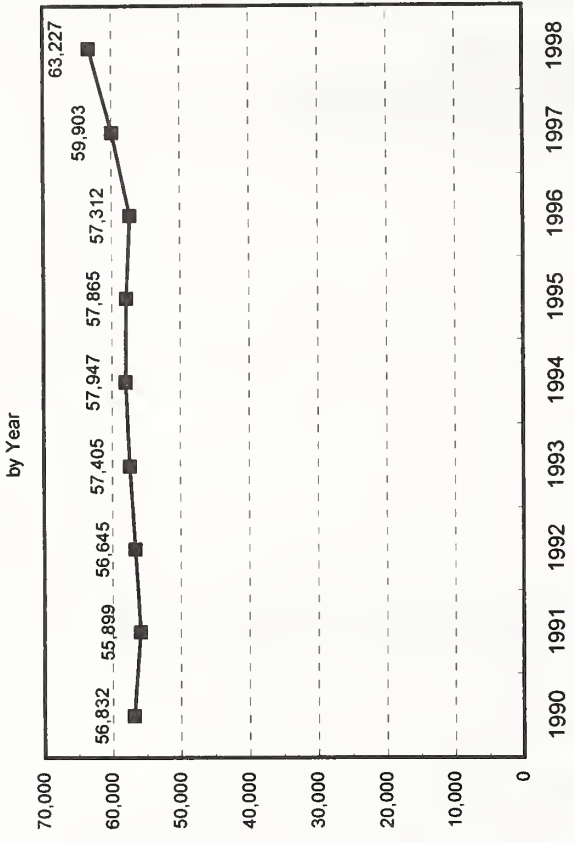
by Mode and Year



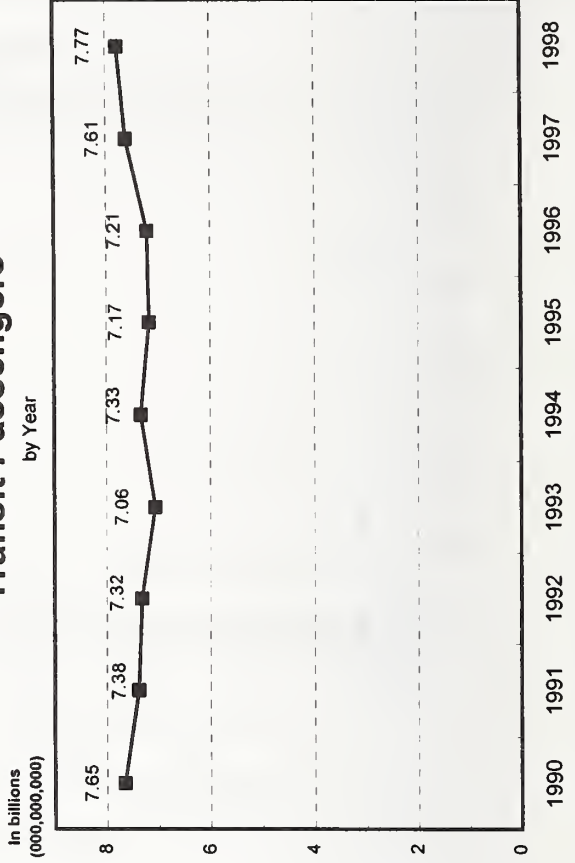
Fires by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	151	146	168	99	197	142	120	136	211
MMB	73	136	98	100	98	119	92	83	87
SMB	62	36	31	19	51	37	44	21	27
DR	1,022	12	8	10	12	6	16	10	6
CR	1,226	695	527	540	715	544	503	602	590
HR	4,217	5,124	5,068	4,452	4,117	3,201	3,154	3,253	2,811
LR	72	96	101	75	67	50	106	83	85
AG	0	1	0	0	1	1	4	0	2
VP	0	0	0	1	1	2	0	0	1
Total	6,823	6,246	6,001	5,296	5,259	4,102	4,039	4,188	3,820

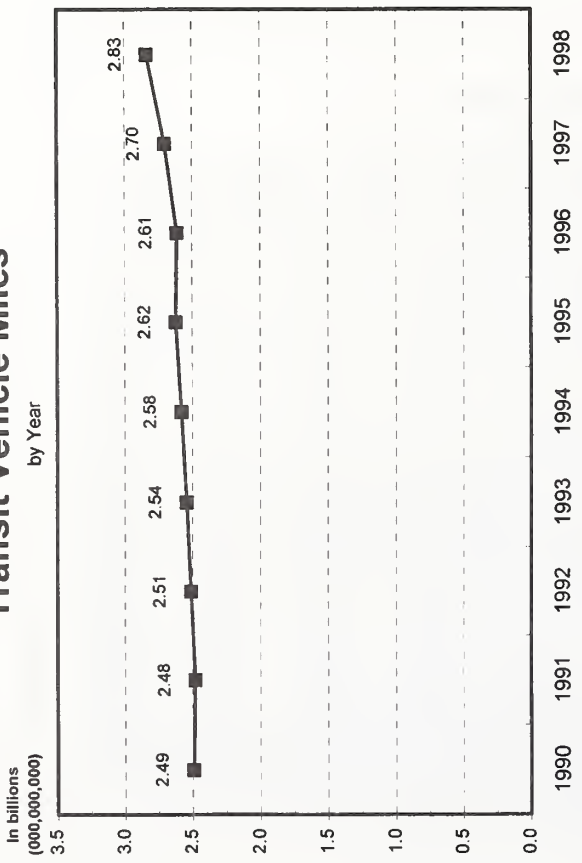
Transit Vehicles



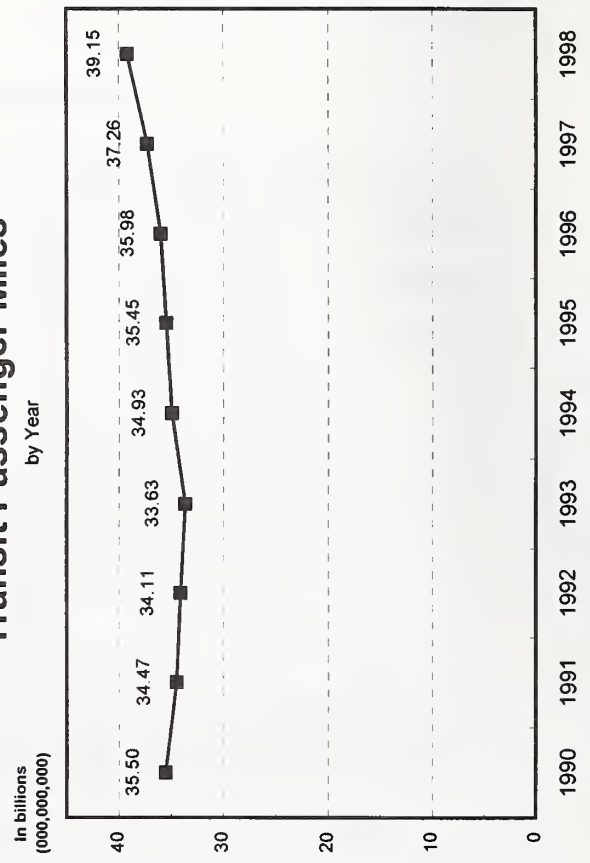
Transit Passengers



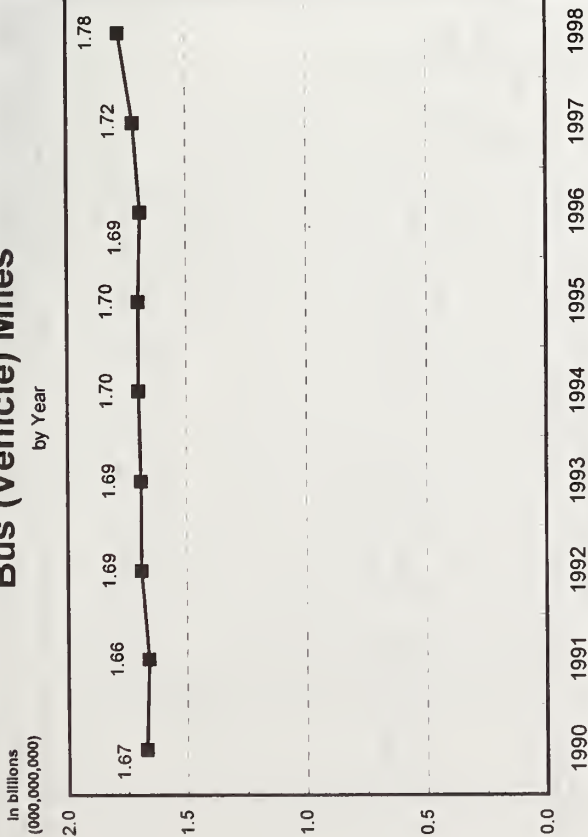
Transit Vehicle Miles



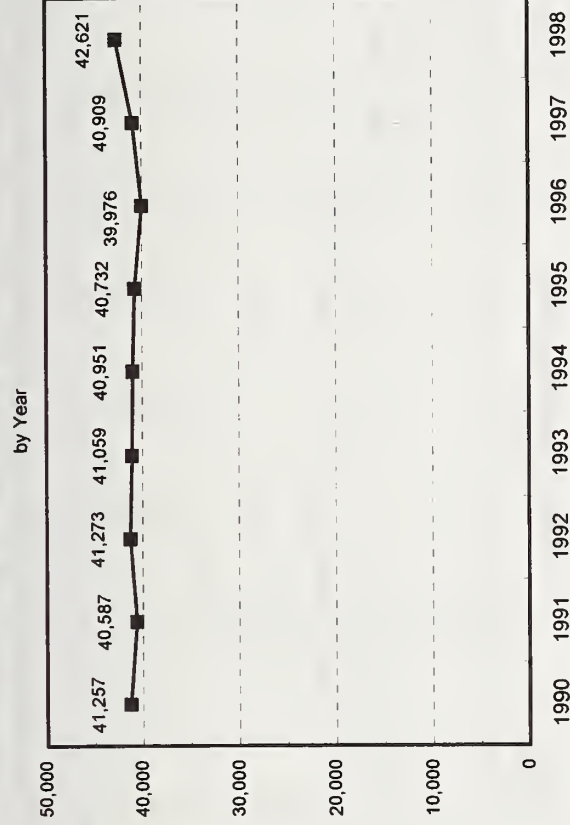
Transit Passenger Miles



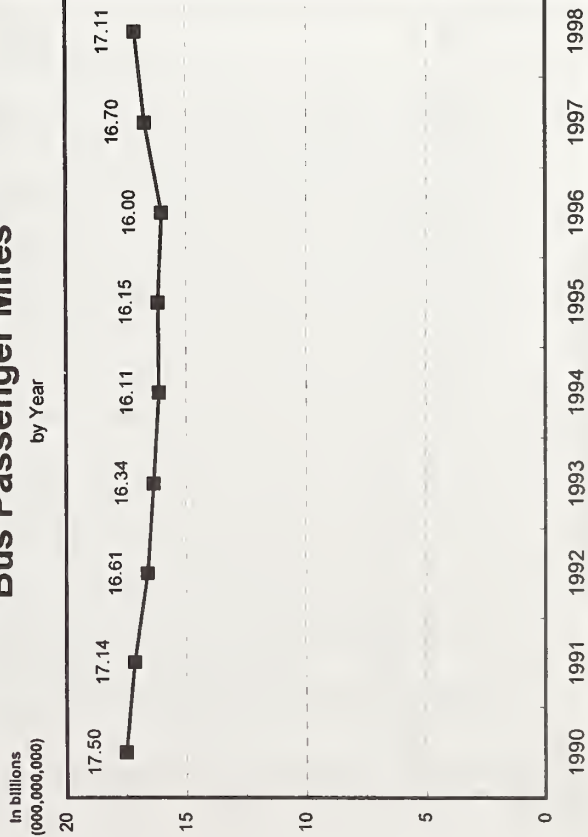
Bus (Vehicle) Miles



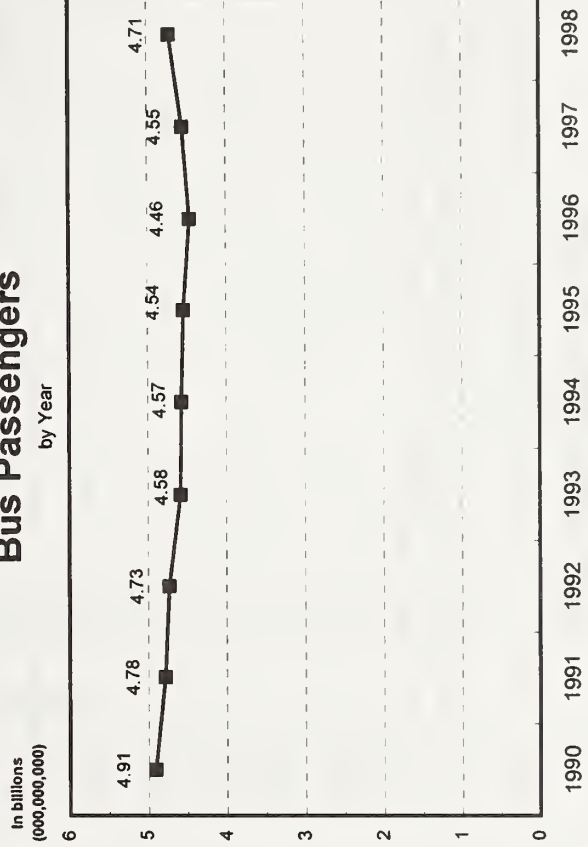
Number of Buses



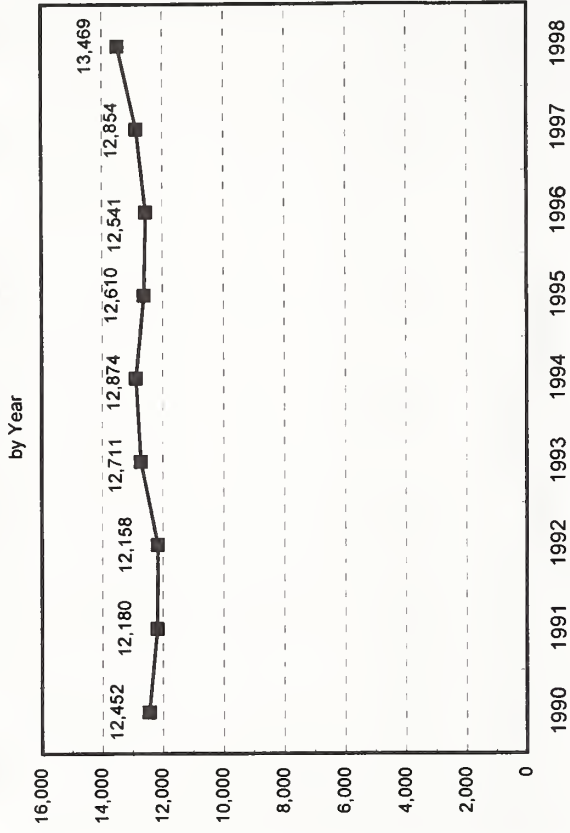
Bus Passenger Miles



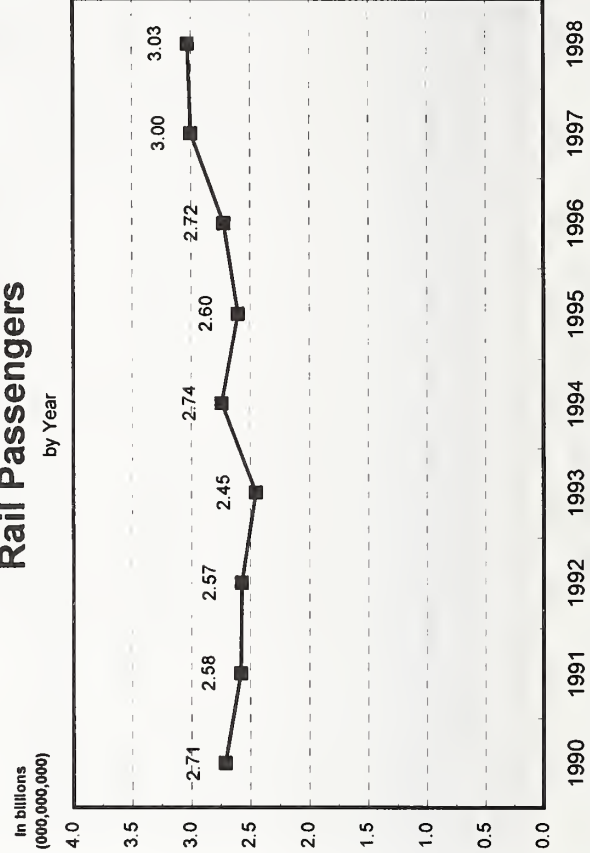
Bus Passengers



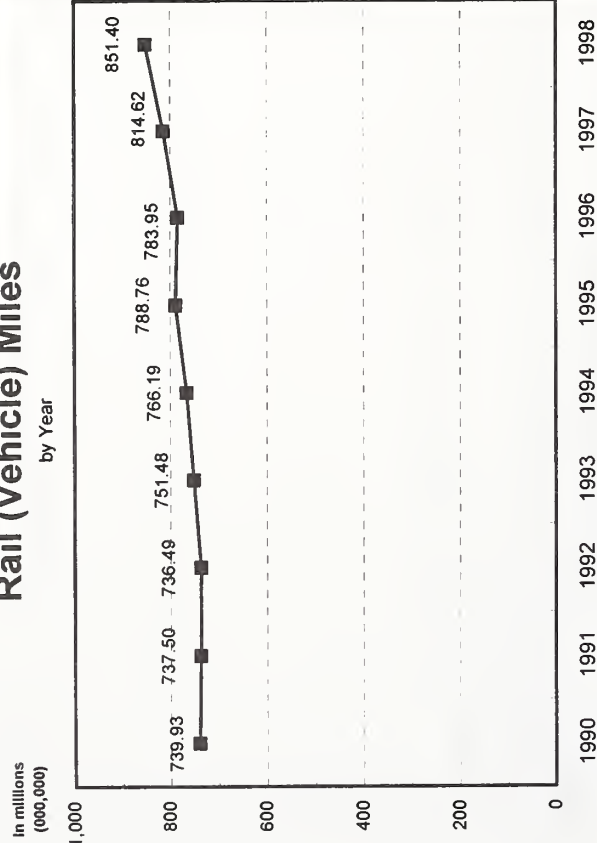
Number of Rail Vehicles



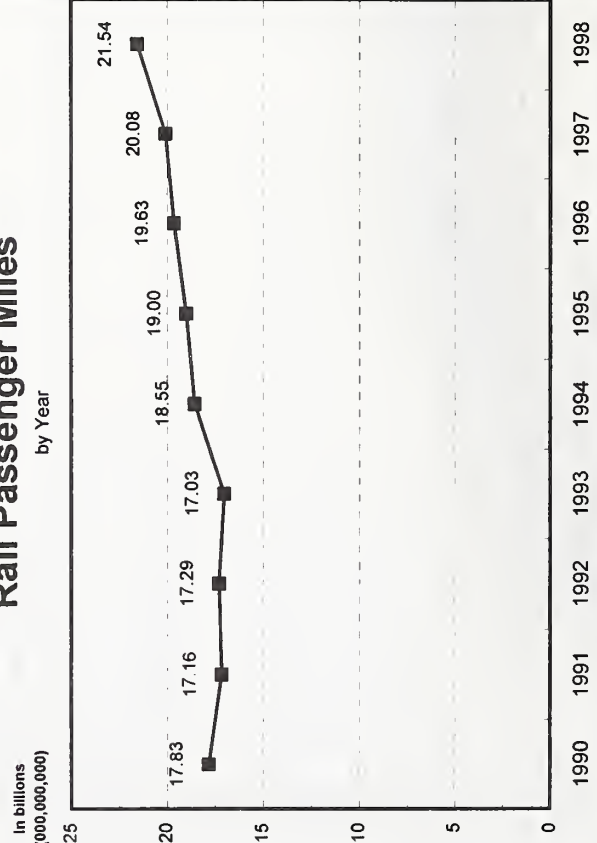
Rail Passengers



Rail (Vehicle) Miles

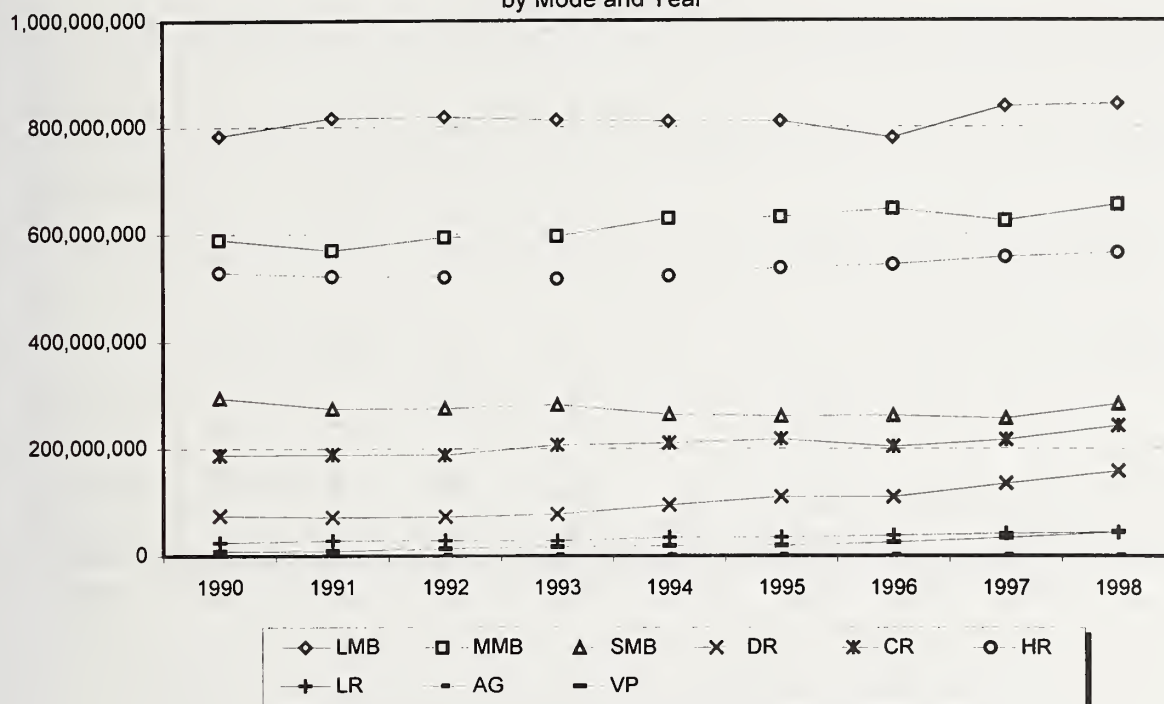


Rail Passenger Miles



Vehicle Miles

by Mode and Year

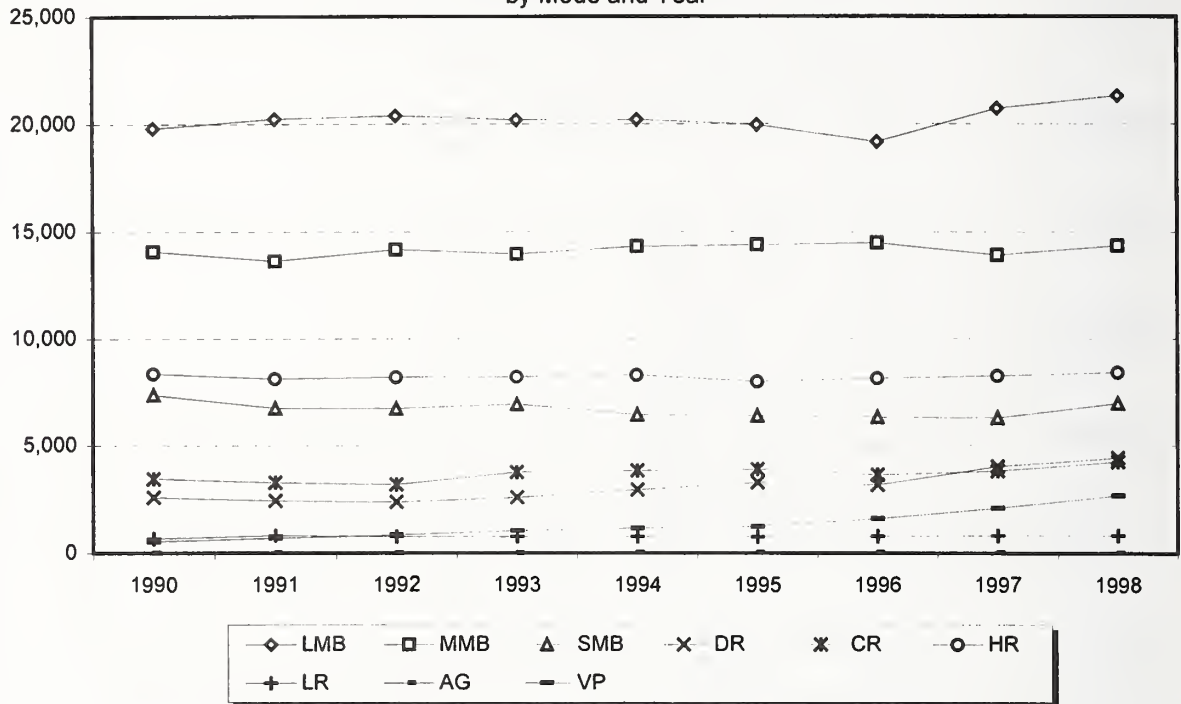


Vehicle Miles by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	783,462,575	816,537,201	818,634,740	812,012,373	809,748,409	810,119,645	779,119,052	838,353,348	842,454,297
MMB	590,034,014	569,705,808	594,265,959	595,797,608	628,481,294	630,797,756	645,586,093	624,084,181	653,465,715
SMB	294,410,421	274,486,151	274,667,270	282,306,693	263,588,384	260,690,837	261,903,415	256,317,566	283,110,563
DR	74,105,006	70,951,677	71,968,135	76,793,858	93,913,122	109,451,896	108,456,674	133,997,635	157,129,756
CR	187,250,786	188,340,972	188,003,333	206,398,036	210,144,656	217,072,438	203,372,845	216,206,241	242,437,870
HR	528,627,222	521,837,984	520,198,883	517,685,338	522,271,573	537,226,212	543,111,720	557,671,749	565,677,634
LR	24,055,177	27,316,440	28,287,567	27,395,870	33,778,116	34,461,491	37,467,839	40,747,527	43,282,733
AG	617,427	491,035	981,072	957,742	1,183,408	1,145,262	1,442,128	1,437,461	1,449,760
VP	7,703,281	8,368,677	12,571,244	15,988,994	18,175,972	18,653,979	24,871,057	32,985,274	43,912,350
Total	2,490,265,909	2,478,035,945	2,509,578,203	2,535,336,512	2,581,284,934	2,619,619,516	2,805,330,823	2,701,800,982	2,832,920,678

Vehicles

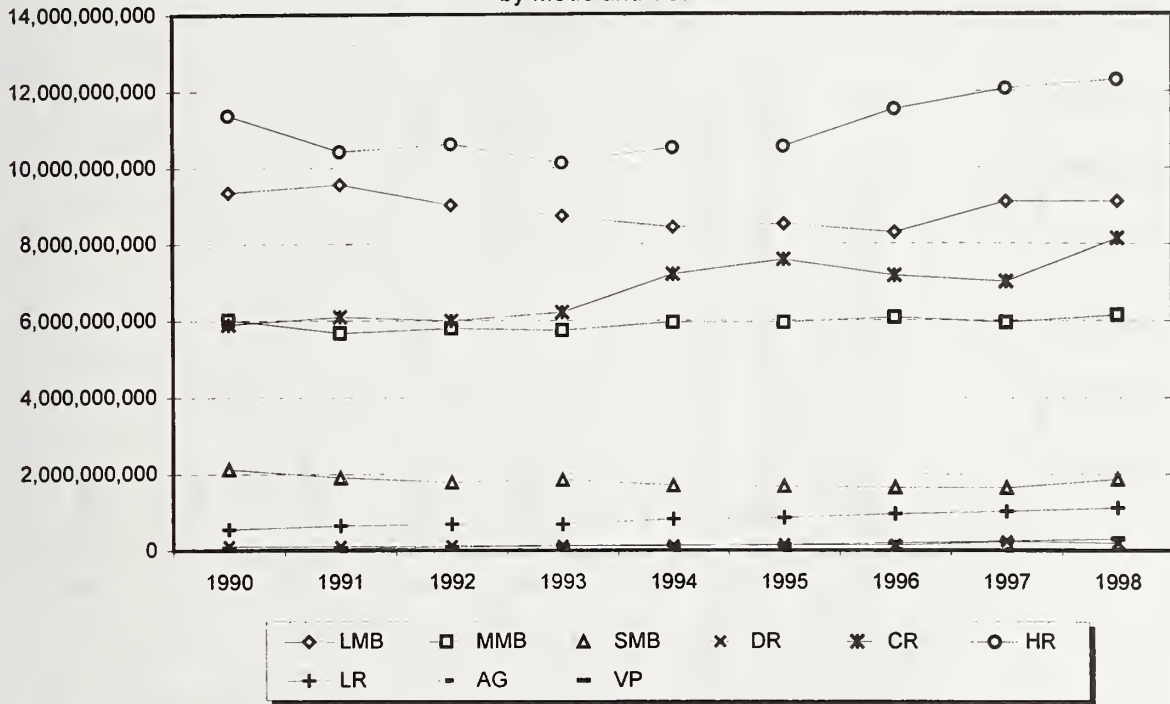
by Mode and Year



Vehicles by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	19,808	20,230	20,383	20,184	20,204	19,962	19,171	20,710	21,298
MMB	14,091	13,634	14,178	13,971	14,330	14,412	14,496	13,932	14,375
SMB	7,358	6,723	6,712	6,904	6,417	6,358	6,309	6,267	6,948
DR	2,588	2,424	2,374	2,588	2,939	3,265	3,169	4,017	4,428
CR	3,444	3,266	3,182	3,755	3,828	3,891	3,626	3,806	4,242
HR	8,347	8,106	8,180	8,187	8,277	7,973	8,129	8,245	8,405
LR	661	808	769	769	769	746	786	803	822
AG	15	11	21	18	29	28	26	24	25
VP	520	697	846	1,029	1,154	1,230	1,600	2,099	2,684
Total	56,832	55,899	56,645	57,405	57,947	57,865	57,312	59,903	63,227

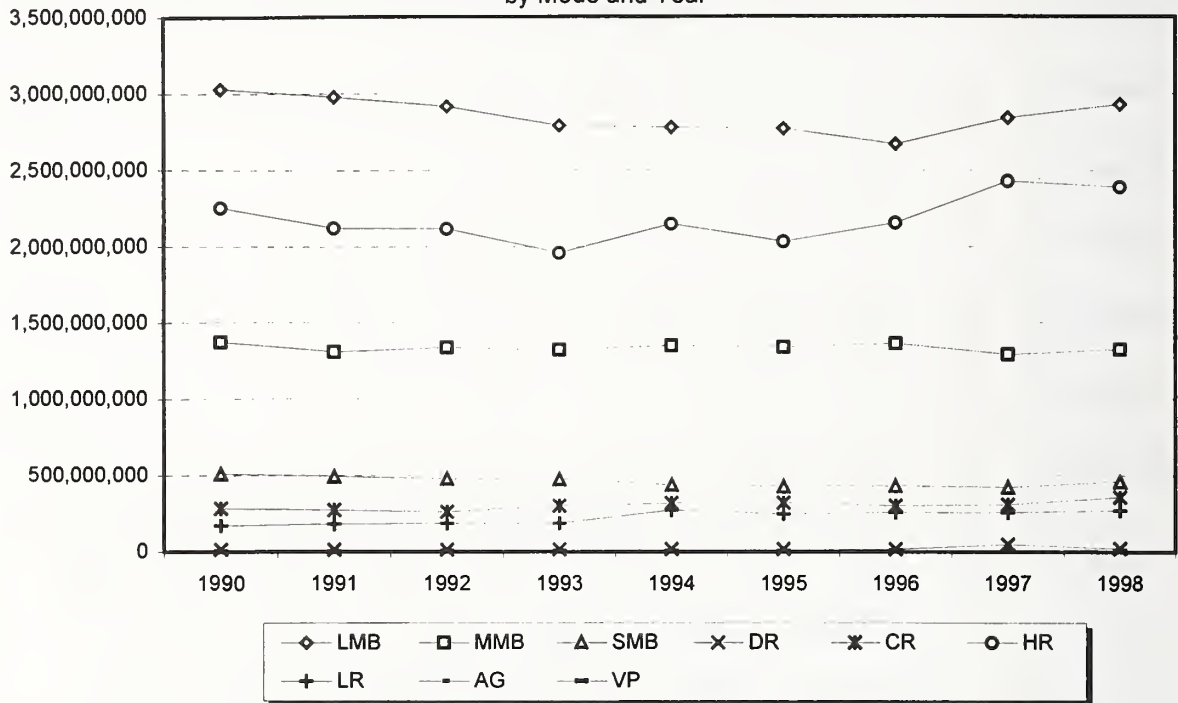
Passenger Miles by Mode and Year



Passenger Miles by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	9,356,105,402	9,559,613,863	9,020,728,495	8,735,111,887	8,436,801,038	8,521,534,025	8,283,906,554	9,091,818,099	9,105,298,835
MMB	6,019,938,132	5,681,140,849	5,802,019,495	5,747,356,634	5,955,895,358	5,948,733,095	6,068,394,699	5,953,021,331	6,143,594,471
SMB	2,125,924,373	1,903,836,382	1,790,385,790	1,859,062,717	1,713,877,588	1,677,851,901	1,653,973,081	1,651,061,898	1,863,794,522
DR	110,086,578	100,765,621	114,051,985	126,183,364	130,130,003	147,096,759	133,167,623	233,633,166	193,003,989
CR	5,901,516,569	6,094,419,108	5,992,300,852	6,210,811,478	7,202,401,370	7,581,255,925	7,148,446,602	7,000,312,146	8,138,007,363
HR	11,373,197,592	10,420,500,859	10,613,108,031	10,129,682,552	10,520,676,890	10,558,821,277	11,530,220,293	12,056,067,800	12,284,362,322
LR	554,554,894	647,579,641	886,289,760	688,961,513	823,832,584	858,701,487	955,245,148	1,023,708,132	1,115,351,940
AG	5,461,306	2,985,061	6,350,377	6,276,663	7,181,392	7,278,418	7,310,160	8,742,225	7,010,367
VP	53,953,693	61,622,268	84,648,188	122,923,428	137,789,656	143,981,569	196,385,808	239,721,989	300,217,925
Total	35,500,740,539	34,472,483,652	34,109,882,973	33,626,370,236	34,928,585,879	35,445,254,456	35,975,049,968	37,256,086,606	39,150,661,734

Passengers by Mode and Year

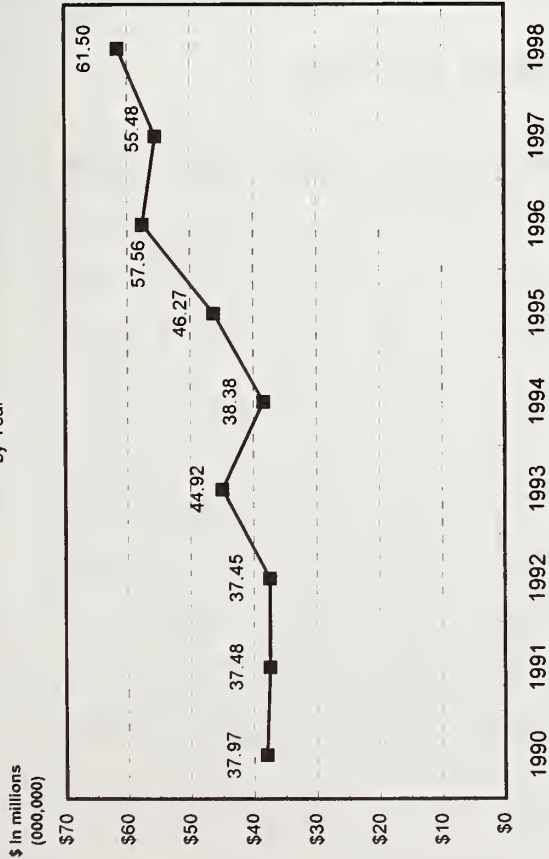


Passengers by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	3,029,861,563	2,978,584,127	2,915,883,332	2,792,806,711	2,780,831,677	2,772,388,139	2,871,080,391	2,840,893,878	2,928,115,948
MMB	1,371,209,547	1,309,022,201	1,334,447,953	1,318,147,322	1,347,246,825	1,337,337,941	1,359,830,038	1,289,810,097	1,322,562,433
SMB	510,598,687	492,859,837	477,450,141	473,672,717	439,024,741	428,959,867	433,100,865	423,496,953	480,949,417
DR	13,829,398	13,296,991	13,221,090	14,814,835	16,651,638	17,687,878	16,797,522	47,992,971	22,071,333
CR	285,861,662	273,938,924	261,870,040	302,598,857	317,788,280	321,557,484	302,216,283	310,706,887	359,832,938
HR	2,252,462,303	2,123,182,878	2,118,769,679	1,960,305,314	2,148,844,066	2,033,506,007	2,156,893,742	2,429,454,599	2,392,834,927
LR	174,000,077	183,563,959	187,321,032	187,336,419	273,685,925	249,302,478	258,731,737	259,404,303	272,944,289
AG	5,882,047	3,534,327	5,499,402	5,163,965	6,250,861	6,479,075	6,309,203	5,887,004	8,159,589
VP	2,025,787	2,324,875	3,255,200	4,220,764	4,543,397	4,658,303	5,857,522	7,899,393	8,869,405
Total	7,645,731,071	7,380,308,119	7,317,717,869	7,059,066,904	7,334,865,410	7,171,857,170	7,210,817,303	7,615,145,885	7,773,940,277

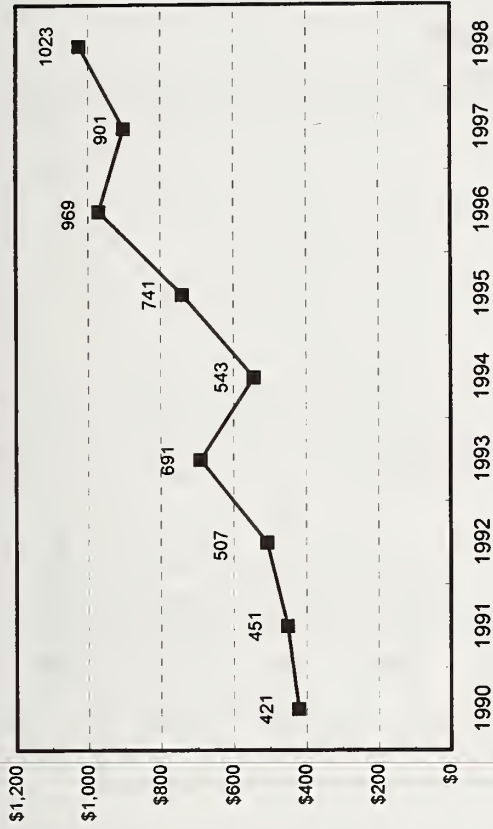
Transit Property Damage

by Year



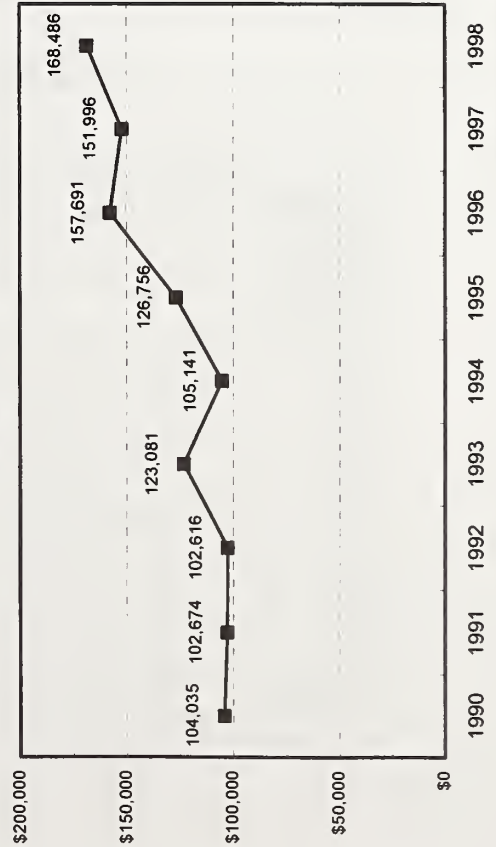
Transit Property Damage

per Incident
by Year



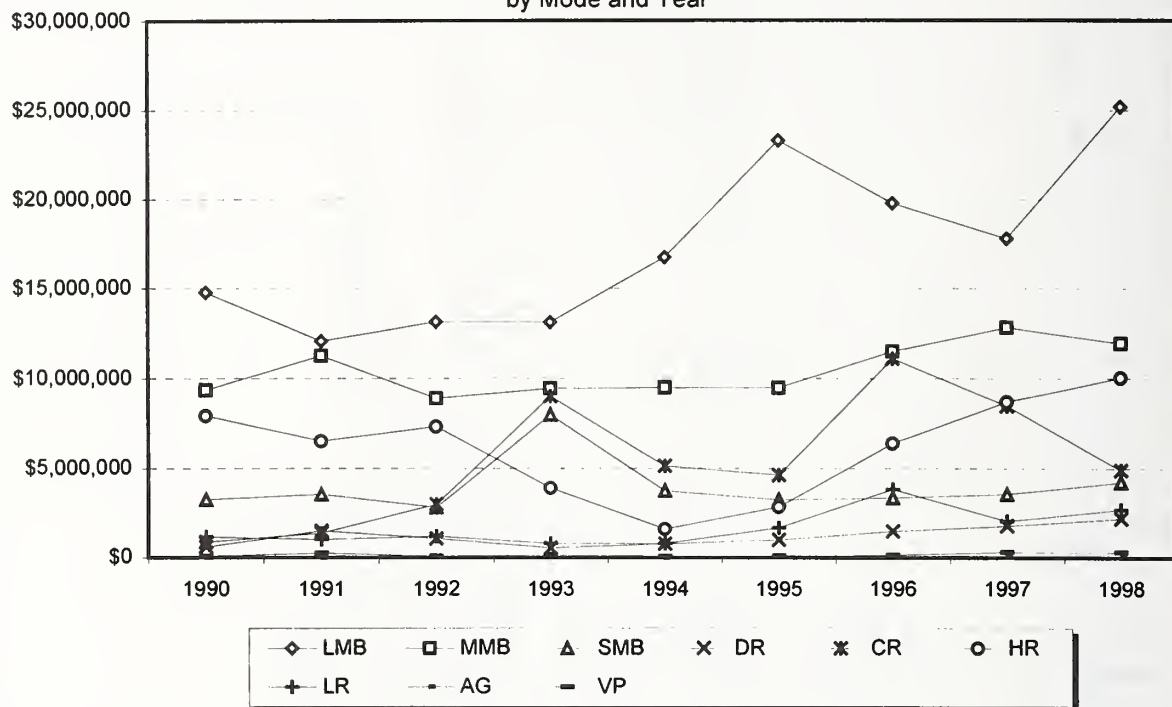
Transit Property Damage

per Day
by Year



These graphs depict the trends for *property damage* to transit agency vehicles or facilities (track, signals, buildings, etc.)
The dollar amounts are not adjusted for inflation.

Property Damage by Mode and Year

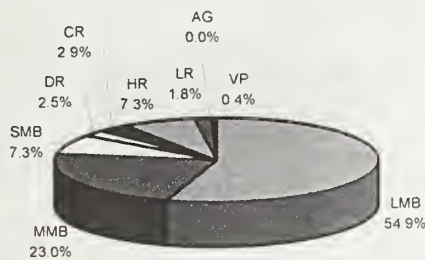


Property Damage by Mode and Year

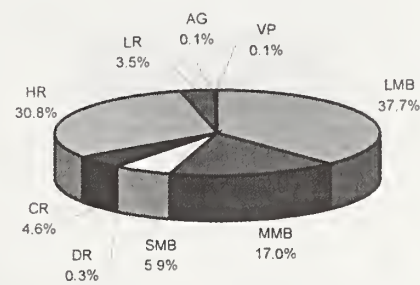
	1990	1991	1992	1993	1994	1995	1996	1997	1998
LMB	\$14,760,209	\$12,050,771	\$13,105,639	\$13,091,179	\$16,754,916	\$23,305,005	\$19,791,293	\$17,801,076	\$25,189,250
MMB	\$9,343,884	\$11,238,640	\$8,900,792	\$9,440,339	\$9,490,771	\$9,474,456	\$11,475,827	\$12,795,432	\$11,929,679
SMB	\$3,264,278	\$3,543,247	\$2,807,956	\$7,971,835	\$3,748,256	\$3,240,757	\$3,355,253	\$3,568,235	\$4,236,504
DR	\$600,594	\$1,492,942	\$1,053,526	\$547,062	\$778,653	\$985,023	\$1,469,590	\$1,776,958	\$2,205,804
CR	\$861,513	\$1,370,729	\$2,986,769	\$9,003,757	\$5,140,604	\$4,628,509	\$11,080,056	\$8,472,858	\$4,902,855
HR	\$7,929,642	\$6,525,828	\$7,333,790	\$3,911,643	\$1,597,031	\$2,853,586	\$6,387,646	\$8,690,402	\$10,029,143
LR	\$1,144,000	\$1,008,107	\$1,184,825	\$801,082	\$784,719	\$1,669,265	\$3,839,037	\$2,047,011	\$2,695,505
AG	\$0	\$2,217	\$11,286	\$0	\$3,051	\$19,789	\$13,507	\$19,972	\$0
VP	\$68,549	\$243,711	\$70,367	\$157,835	\$78,396	\$89,583	\$145,183	\$306,646	\$308,477
Total	\$37,972,669	\$37,476,192	\$37,454,950	\$44,924,732	\$38,376,397	\$46,265,973	\$57,557,392	\$55,478,590	\$61,497,217

1998 Safety Data

Accidents and Passenger Distribution by Transit Mode



Accidents



Passenger Distribution

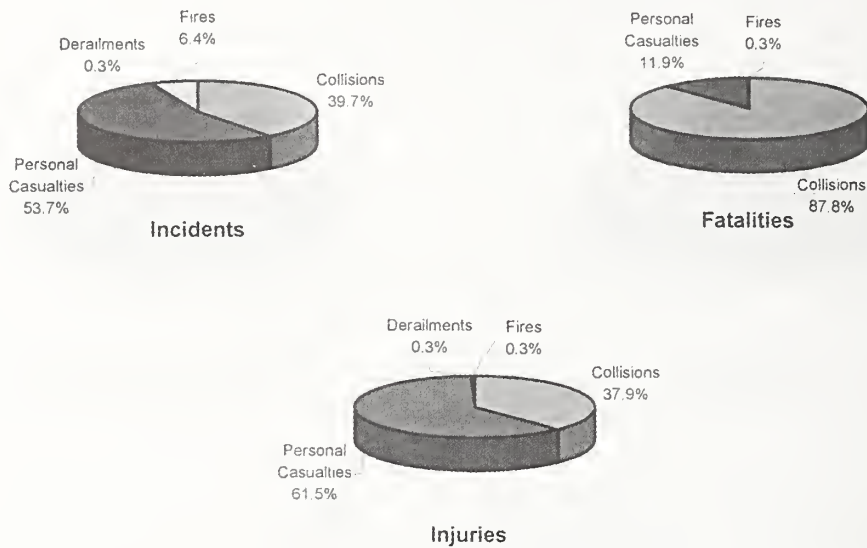
AG - Automated Guideway	LMB - Large Motor Bus	HR - Heavy Rail
CR - Commuter Rail	MMB - Medium Motor Bus	LR - Light Rail
DR - Demand Response	SMB - Small Motor Bus	VP - Vanpool

The pie chart on the left shows the percentage of accidents (or incidents) reported for each mode. The Accidents include **Collisions** (not suicides), **Derailments**, and **Personal Casualties** (inside vehicles, on right of ways, and entering/exiting vehicle) categories.

The pie chart on the right gives the percent of total transit ridership share held by each transit mode.

When compared, these pie charts provide another view of accident rates, e.g., with approximately 31% of transit passengers, Heavy Rail has only 7.3% of the total accidents. If all transit modes were equally safe, the pie charts would be identical.

Incidents, Fatalities, Injuries by Cause



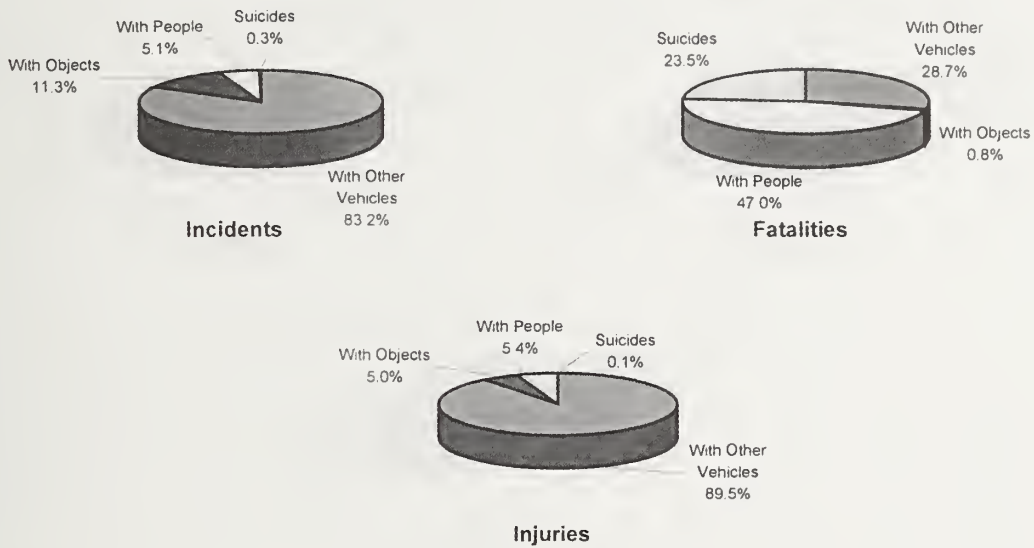
The pie chart on the left shows the percentage of *incidents* reported from each cause (**Collisions, Derailments, Personal Casualties, and Fires**) to the total incidents from all causes

The pie chart on the right shows the percentage of the *fatalities* and the pie chart in the middle shows the percentage of *injuries* from each cause (**Collisions, Derailments, Personal Casualties, and Fires**) to the total.

The *fatalities* chart shows that Collisions are the single most contributing cause of fatalities.

Collisions

Incidents, Fatalities, Injuries
by Type



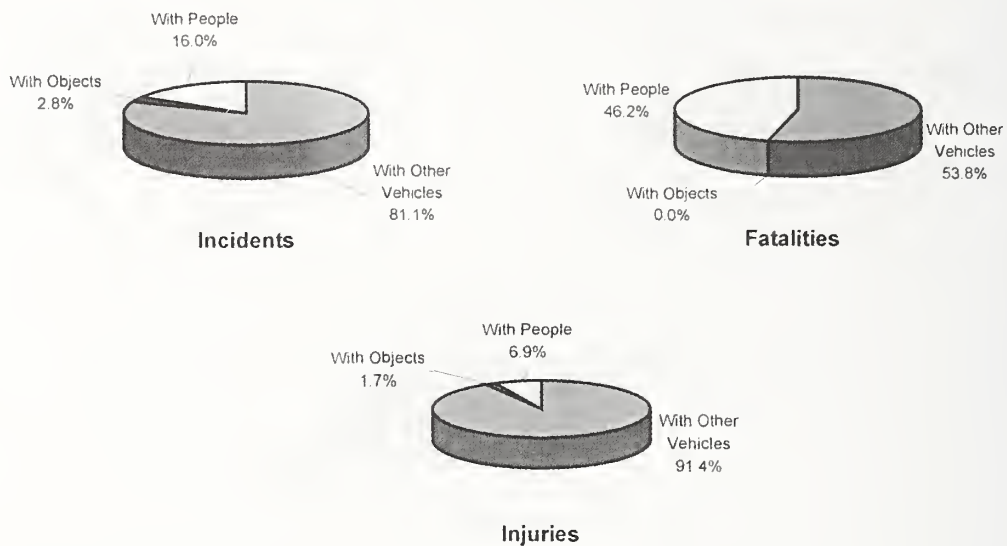
The pie chart on the left shows the percentage of each type of *incident* resulting from **Collisions** (i.e., with other vehicles, objects, and people) to the total Collision *incidents*.

The pie chart on the right shows the percentage of the *fatalities*, and the pie chart in the middle shows the percentage of *injuries* from each type of **Collision** (i.e., with other vehicles, objects, and people) to the total.

Comparing the three charts provides more insight into the causes of incidents, injuries, and deaths from Collisions.

Collisions at Grade Crossings

Incidents, Fatalities, Injuries
by Type



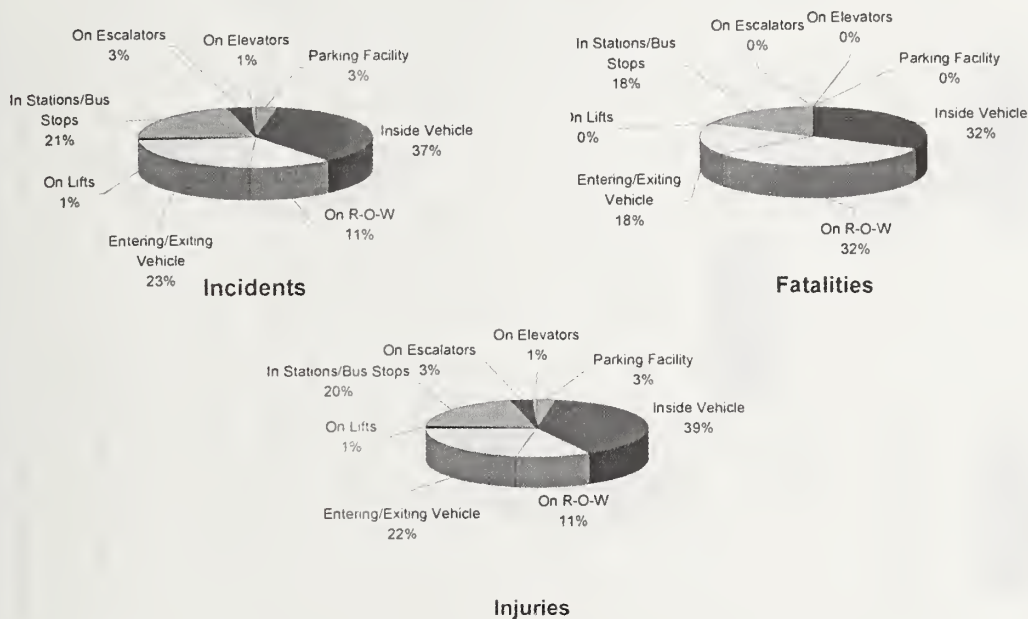
The pie chart on the left shows the percentage of each type of grade crossing *incident* (i.e., Collisions with other vehicles, objects, and people) to the total **Collisions at grade crossings**. **Collisions at grade crossings** apply primarily to rail modes.

The pie chart on the right shows the percentage of the *fatalities*, and the pie chart in the middle shows the percentage of *injuries* from each type of **Collisions at grade crossings** (i.e., with other vehicles, objects, and people) to the total.

Comparing the three charts provides more insight into the causes of incidents, injuries, and deaths from Collisions at grade crossings; e.g., Collisions with people was a small percentage of grade crossing incidents but accounted for a large percentage of the fatalities.

Personal Casualties

Incidents, Fatalities, Injuries by Location

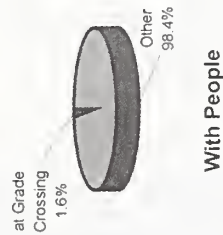


The pie chart on the left shows the percentage of each type of *incident* in the **Personal Casualties** category [in parking facilities, inside vehicles, on right of ways, entering/exiting vehicles (associated with lifts), in stations/bus stops (associated with escalators, and associated with elevators)] to the total incidents of Personal Casualties.

The pie chart on the right shows the percentage of *fatalities*, and the pie chart in the middle shows the percentage of *injuries* from each of these incidents.

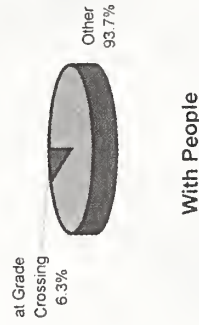
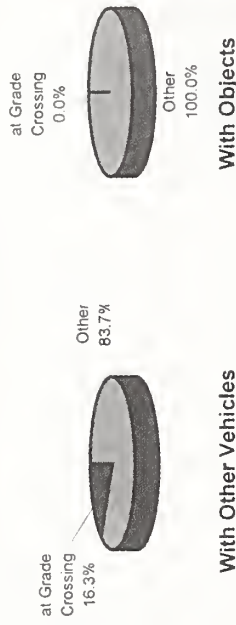
Collision Incidents

by Location



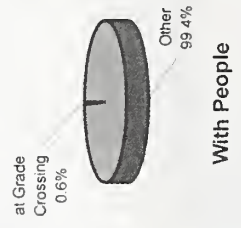
Collision Fatalities

by Location



Collision Injuries

by Location

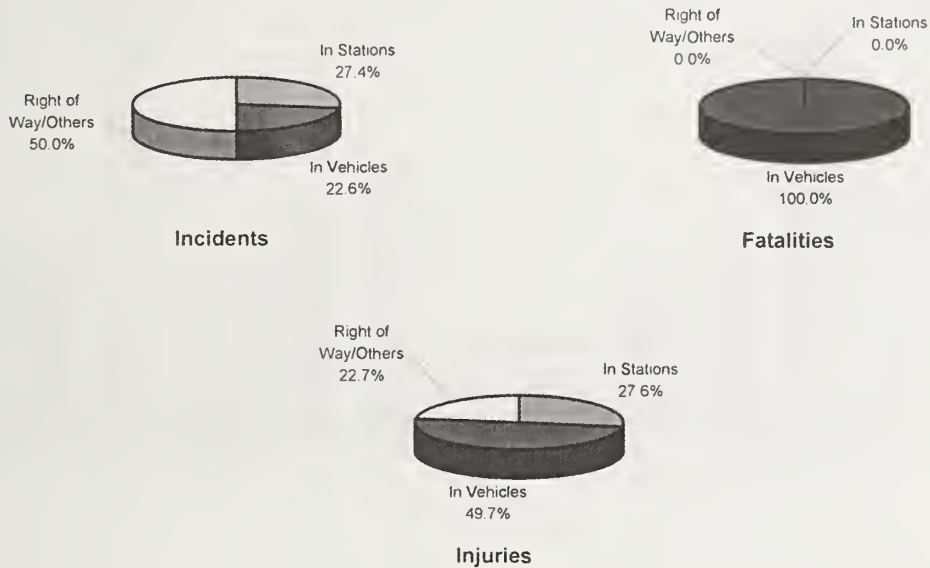


In each of the charts the pie on the left shows the percentage of **Collisions with other vehicles at grade crossings** to the total Collisions with vehicles. The pie on the right is the percentage of **Collisions with objects at grade crossings** to the total Collisions with objects. The pie in the middle shows the percentage of **Collisions with people at grade crossings** to the total Collisions with people.

Each set of three charts show a relatively low percentage of incidents, fatalities, and injuries at grade crossings. However fatalities occurring in **Collisions with other vehicles at grade crossings** was up to 16.3% of the total despite representing less than 1% of total **Collision with other vehicle incidents**. This figure is a 30.4% increase over the 1997 result of 12.5%.

Fires

Incidents, Fatalities, Injuries by Location

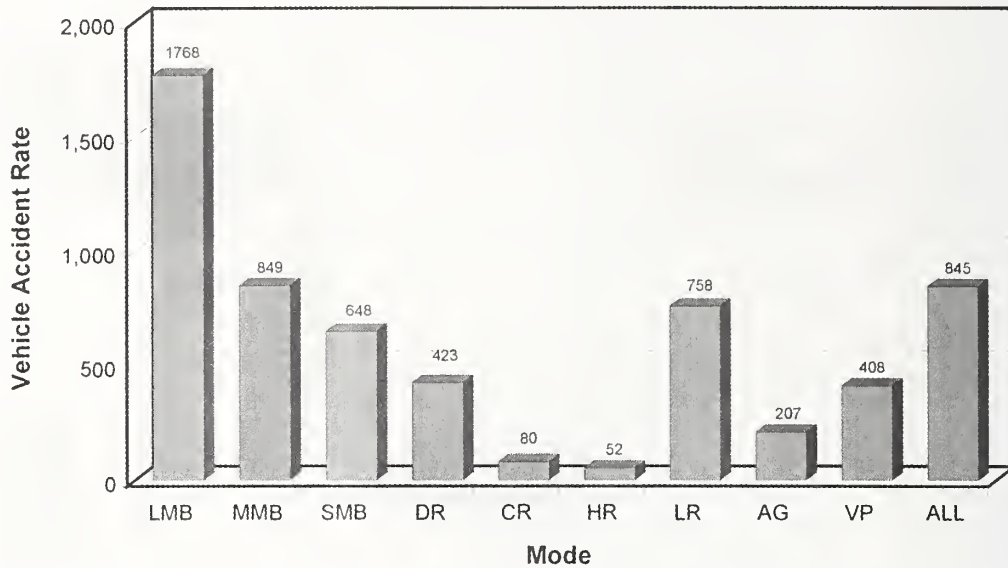


The pie chart on the left shows the percentage of each type of **Fire incident** (in vehicles, in stations, and on right of way and others) to the total incidents of Fires.

Comparing the charts provides more insight into the the types of Fires and the causes of injuries from them, e.g., a fire inside the vehicle (the smallest percentage of fire incidents) resulted in more injuries than a fire on the road or in a station/ bus stop. There was one fatality as a result of Fire in 1998.

Accidents

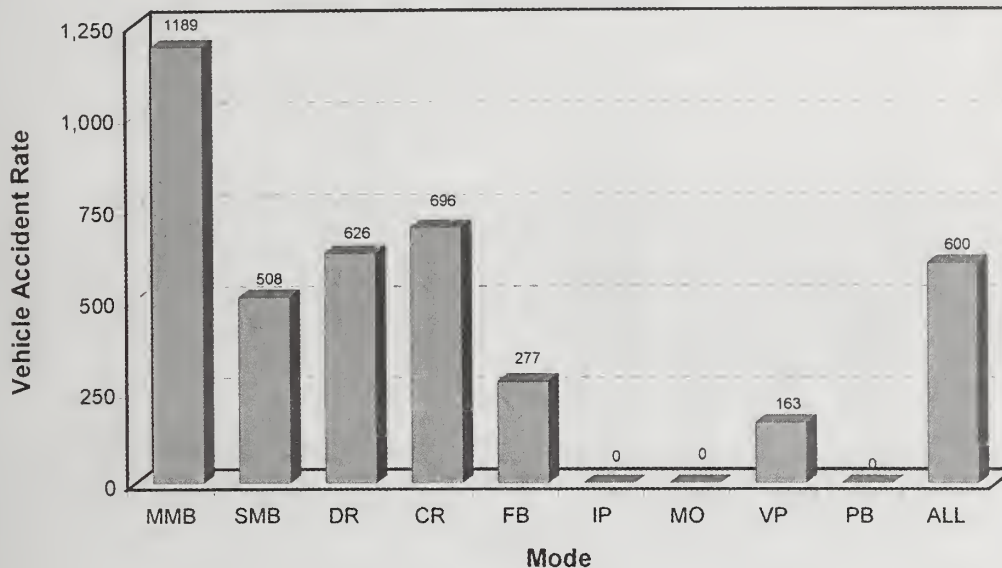
per 100,000,000 Vehicle Miles



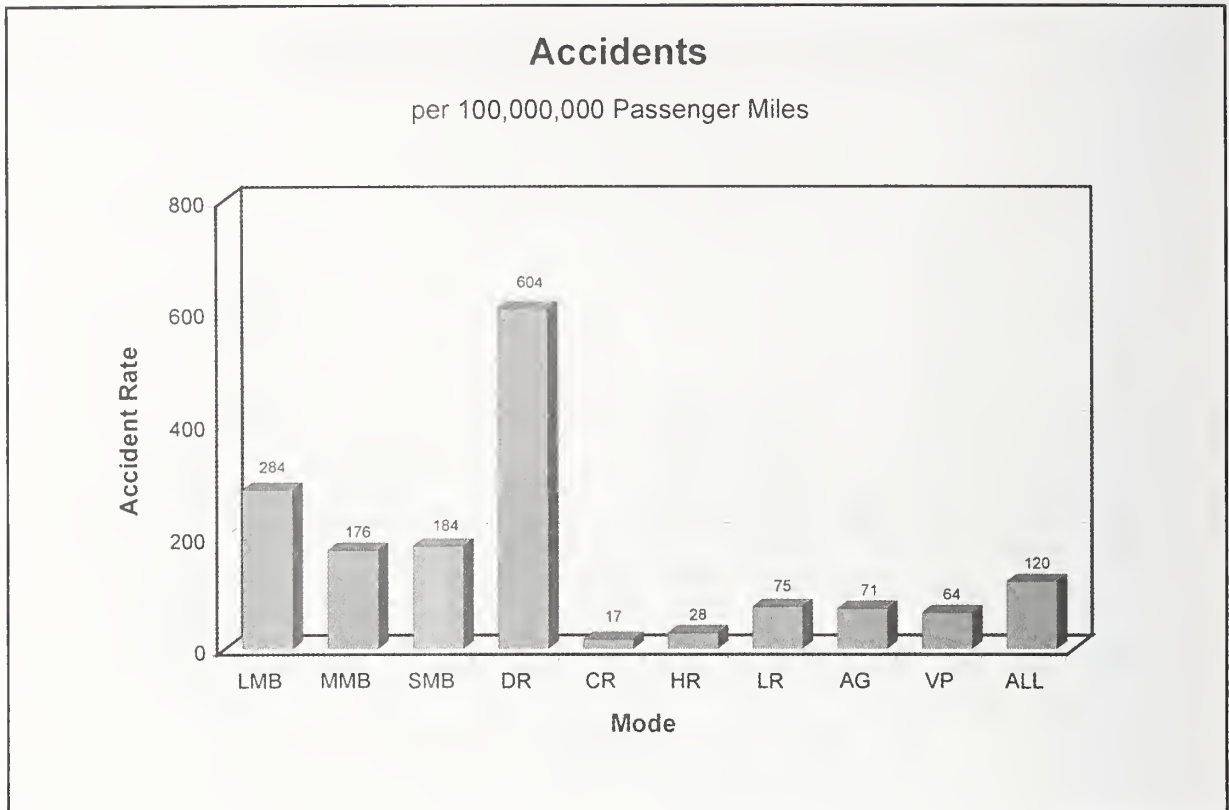
The graph shows the accident rate which is based on the number of vehicle accidents only. These include all vehicle accidents resulting from **Collisions** [with vehicles, objects, people (not suicides)] and **Derailments** (vehicle derailed/left roadway). The vehicle mile figure used includes both revenue and non-revenue miles since there are risks present during both types of operation. The three rail modes (Commuter Rail, Heavy Rail, and Light Rail) report car rather than train miles for vehicle miles.

Purchased Transportation - Accidents

per 100,000,000 Vehicle Miles



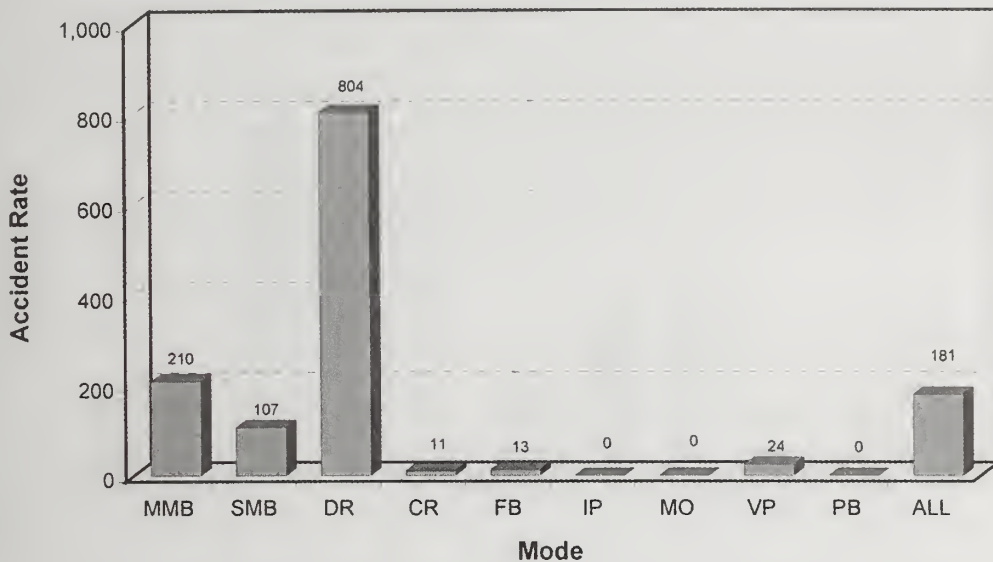
The graph shows the accident rate which is based on the number of vehicle accidents only. These include all vehicle accidents resulting from **Collisions** [with vehicles, objects, people (not suicides)] and **Derailments** (vehicle derailed/left roadway). The vehicle mile figure used includes both revenue and non-revenue miles since there are risks present during both types of operation. The three rail modes (Commuter Rail, Heavy Rail, and Light Rail) report car rather than train miles for vehicle miles.



The graph shows the accident (or incident) rates which result from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle). When analyzing the results on this page, consider that the number of vehicle accidents, the number of passengers, and the average trip length all affect the accident rate. This graph differs from the previous page in that it also includes **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle), and is indexed in Passenger Miles.

Purchased Transportation - Accidents

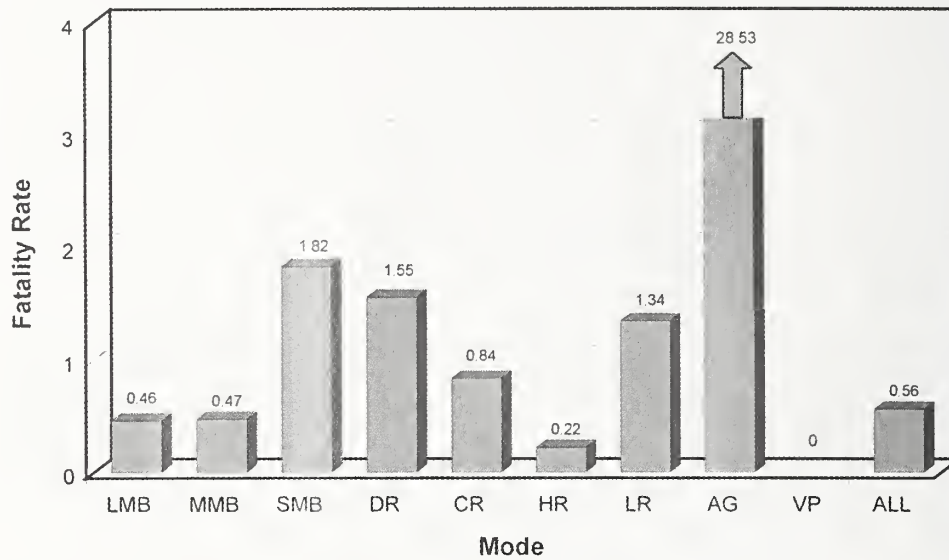
per 100,000,000 Passenger Miles



The graph shows the accident (or incident) rates which result from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle). When analyzing the results on this page, consider that the number of vehicle accidents, the number of passengers, and the average trip length all affect the accident rate. This graph differs from the previous page in that it also includes **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle), and is indexed in Passenger Miles.

Fatalities

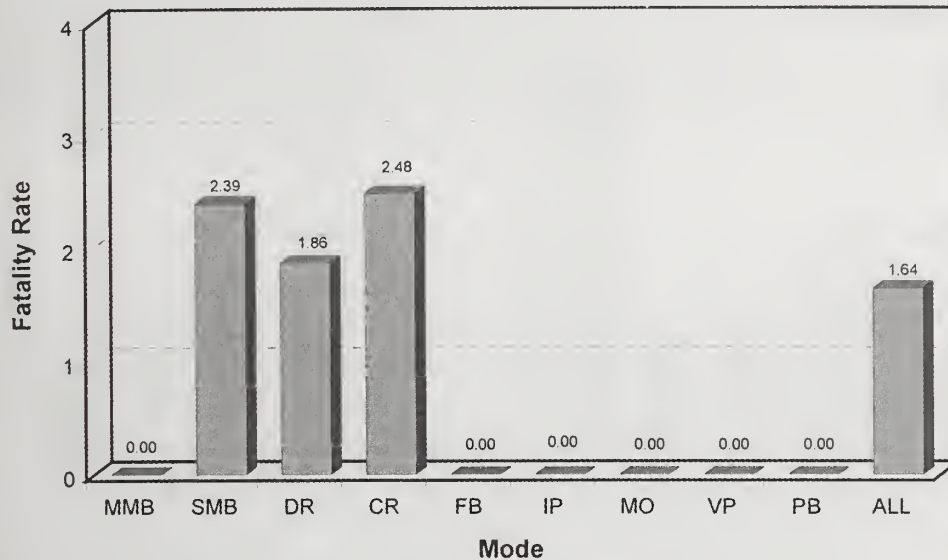
per 100,000,000 Passenger Miles



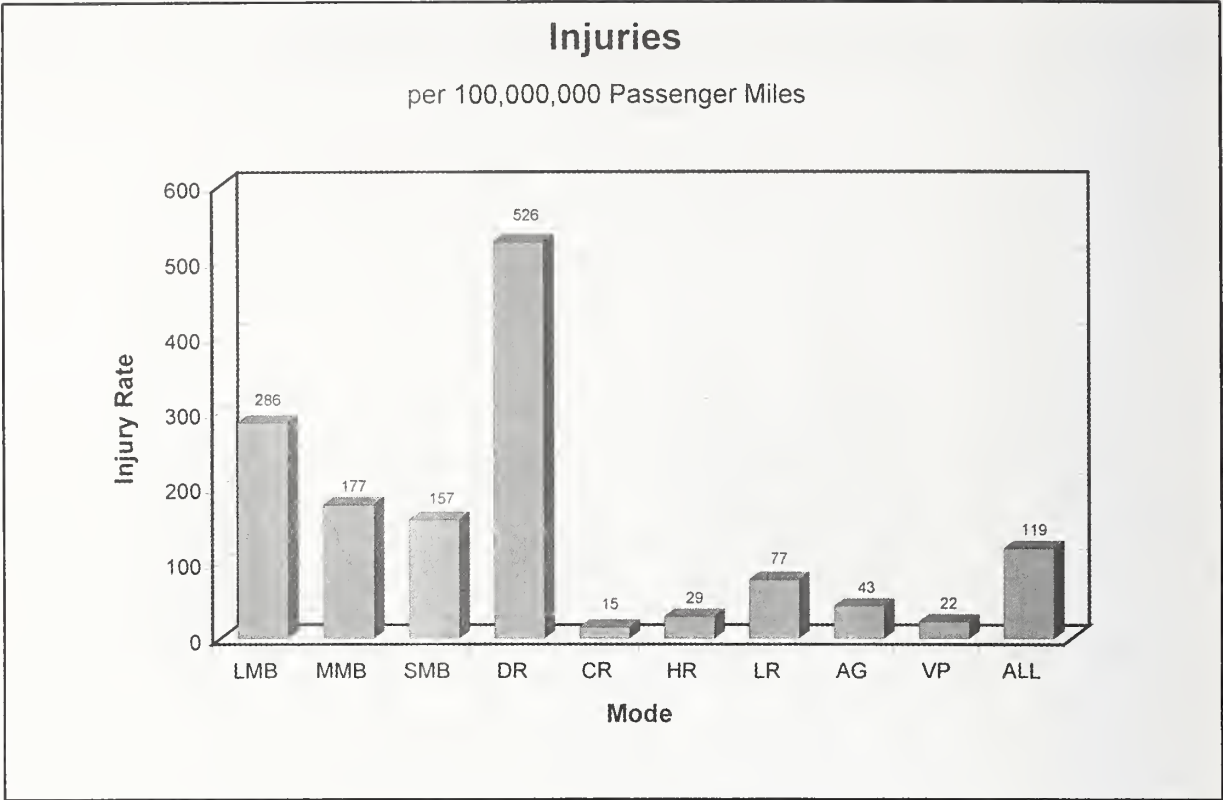
These statistics represent *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

Purchased Transportation - Fatalities

per 100,000,000 Passenger Miles



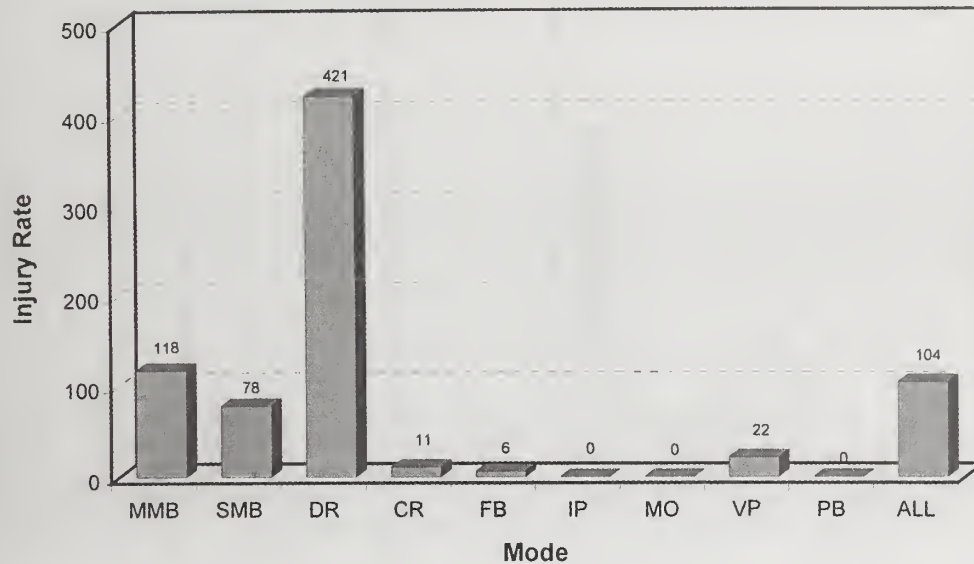
These statistics represent *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle) and **Fires**.



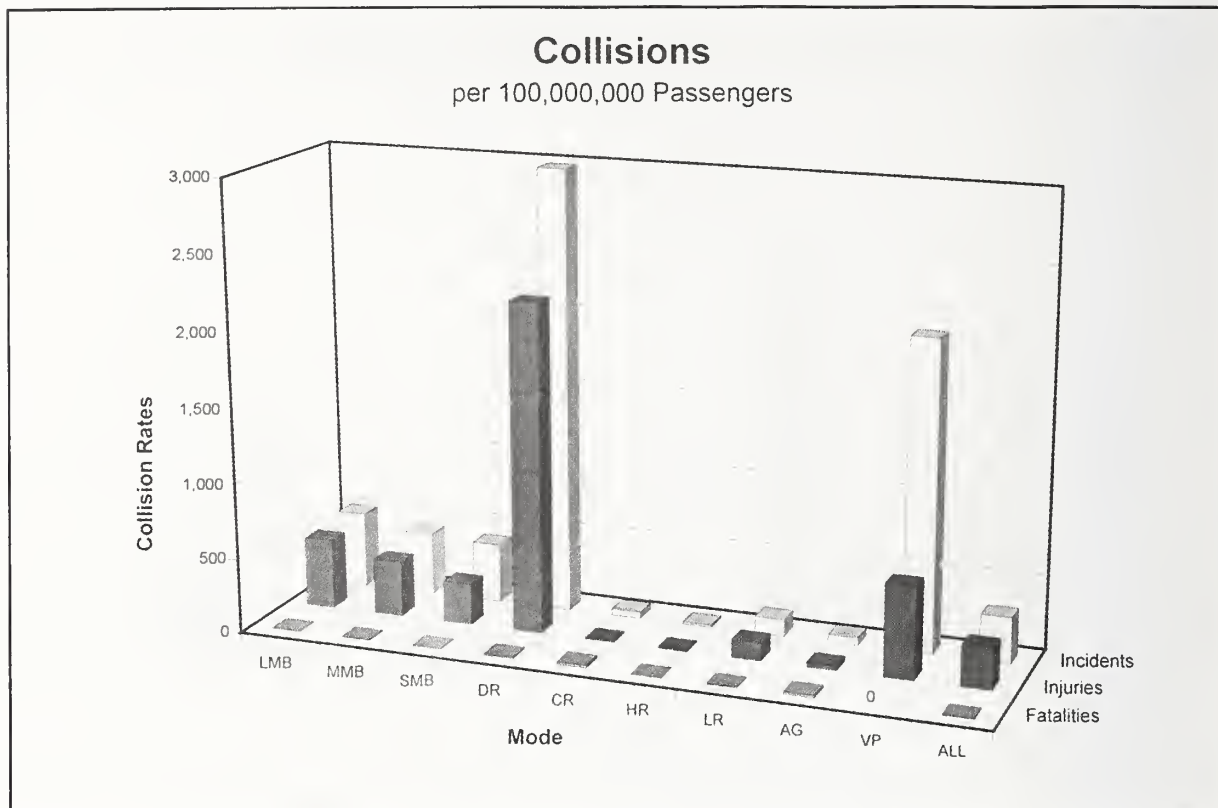
These statistics represent *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

Purchased Transportation - Injuries

per 100,000,000 Passenger Miles



These statistics represent *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle) and **Fires**.

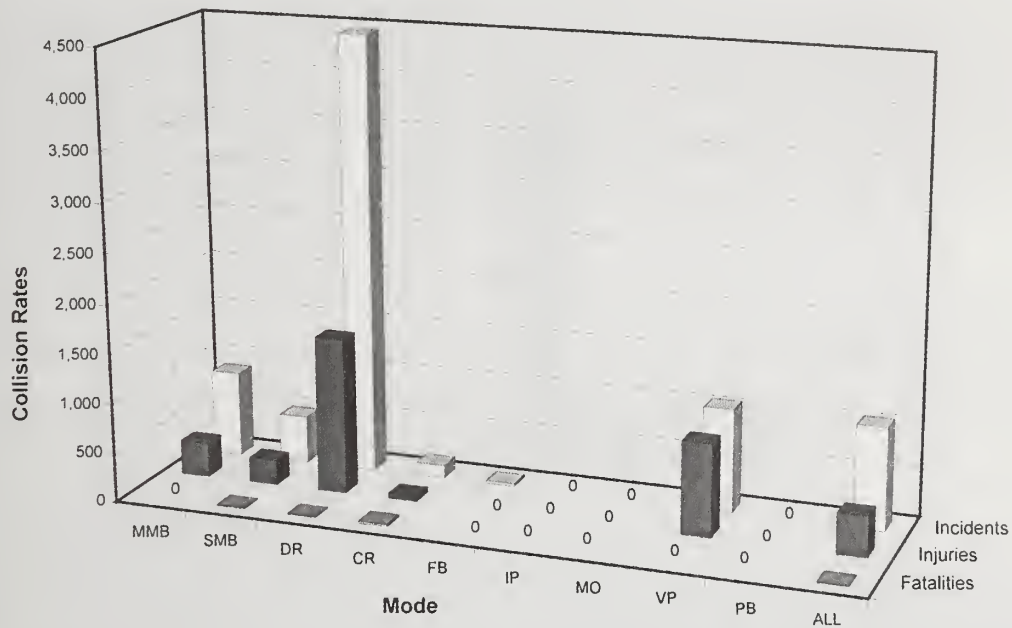


This graph shows the rates of *incidents*, *injuries*, and *fatalities* (except attempted/successful suicides) for the **Collisions** category of Form 405.

The rates show how often incidents, fatalities, and injuries occur as a result of Collisions with respect to the number of passengers carried. These rates should be considered when looking at the Collision figures (stacked bar charts on the next page) which provide only raw numbers. The raw numbers alone do not provide a full picture of relative safety without data on exposure which is provided here.

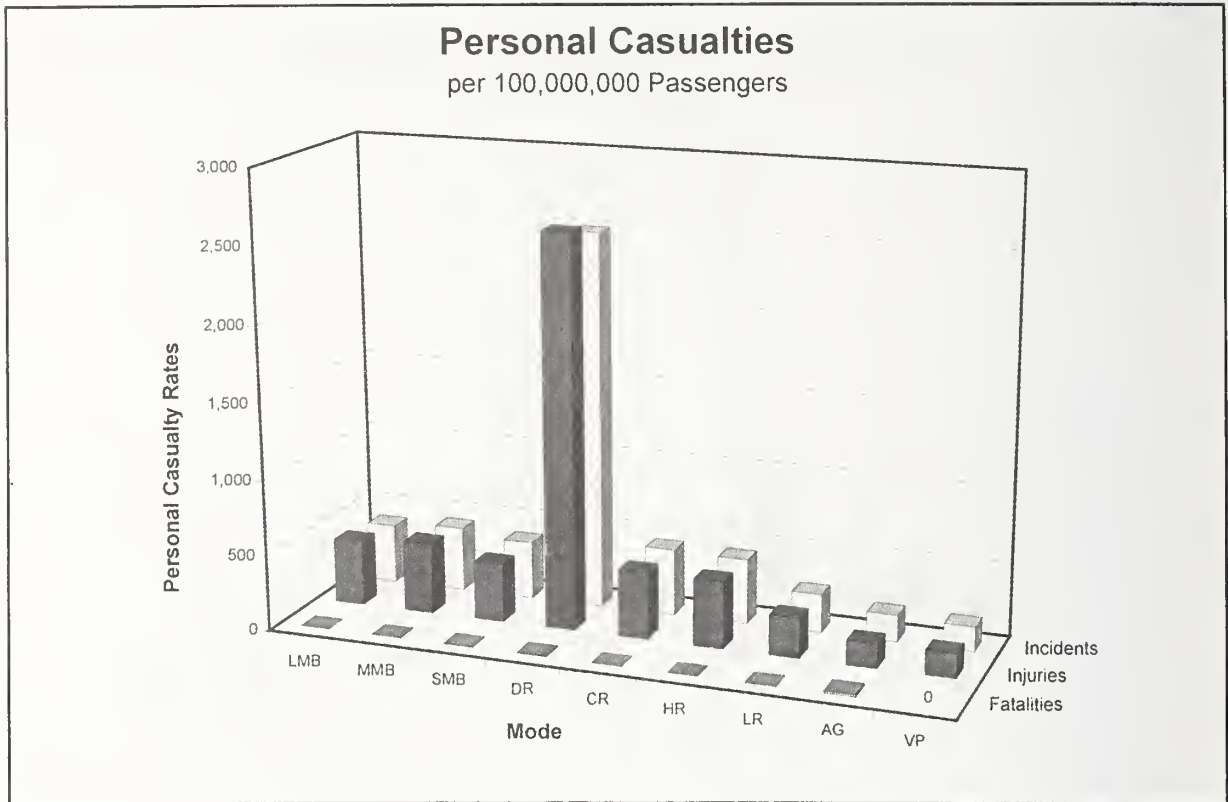
Purchased Transportation - Collisions

per 100,000,000 Passengers



This graph shows the rates of *incidents*, *injuries*, and *fatalities* (except attempted/successful suicides) for the **Collisions** category of Form 405.

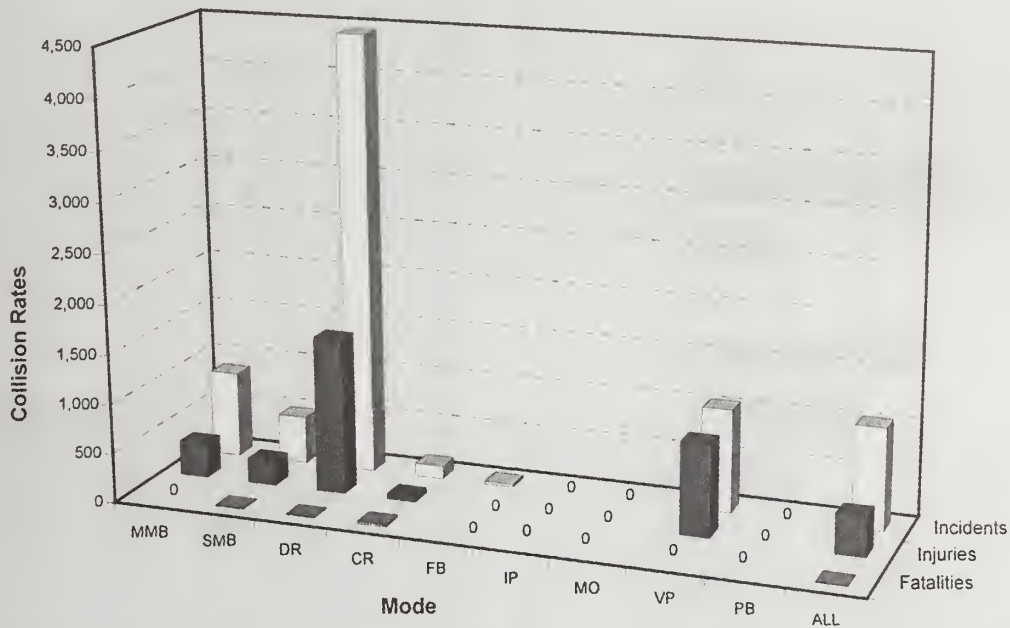
The rates show how often incidents, fatalities, and injuries occur as a result of Collisions with respect to the number of passengers carried. These rates should be considered when looking at the Collision figures (stacked bar charts on the next page) which provide only raw numbers. The raw numbers alone do not provide a full picture of relative safety without data on exposure which is provided here.



This graph provides the rates by transit mode for *incidents, fatalities, and injuries*, classified under the **Personal Casualties** category of Form 405. Keep in mind that **Personal Casualties** is a transit mishap category where people are hurt but not as a result of Collisions, Derailments, or Fires. The rates show how frequently incidents, deaths, and injuries occur, based on passenger exposure to risk. These rates should be kept in mind when looking at the Personal Casualties figures (stacked bar charts) which provide only raw numbers. The raw numbers alone do not provide a full picture of relative safety without data on exposure, which is provided here.

Purchased Transportation - Collisions

per 100,000,000 Passengers

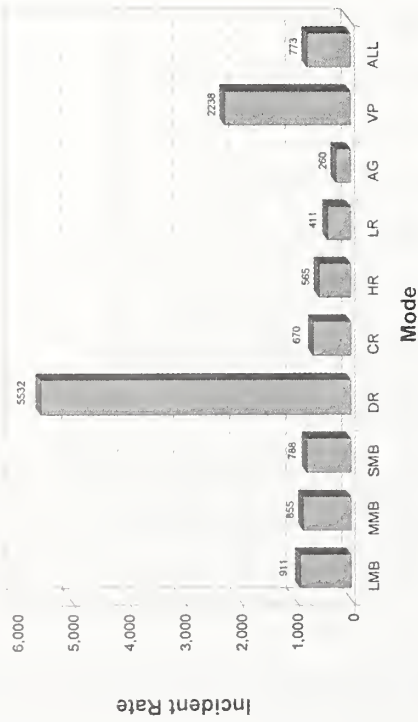


This graph shows the rates of *incidents*, *injuries*, and *fatalities* (except attempted/successful suicides) for the **Collisions** category of Form 405.

The rates show how often incidents, fatalities, and injuries occur as a result of Collisions with respect to the number of passengers carried. These rates should be considered when looking at the Collision figures (stacked bar charts) which provide only raw numbers. The raw numbers alone do not provide a full picture of relative safety without data on exposure which is provided here.

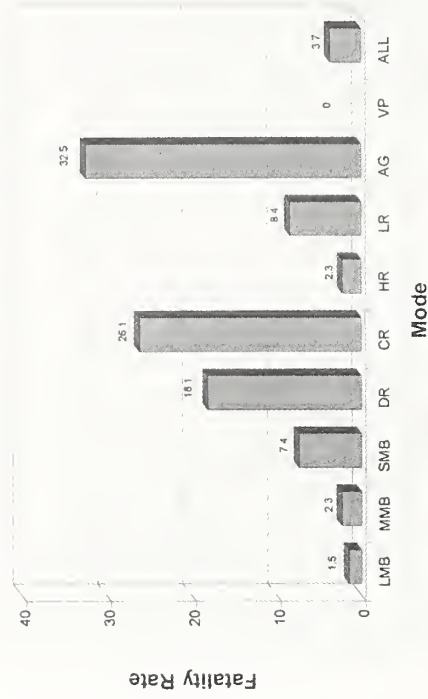
Incidents of all types

per 100,000,000 Passengers



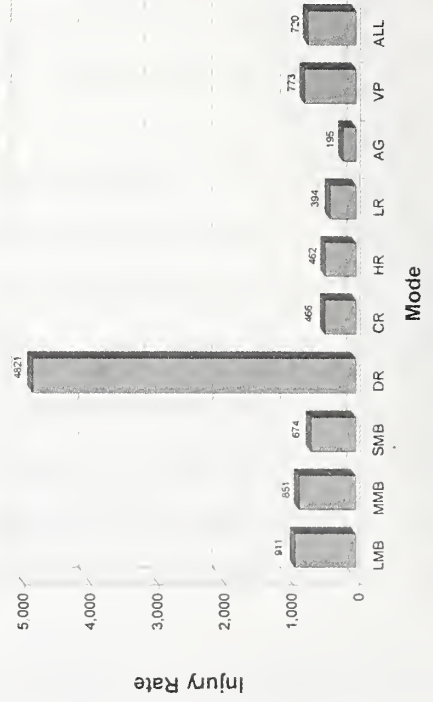
Fatalities from all causes

per 100,000,000 Passengers



Injuries from all causes

per 100,000,000 Passengers

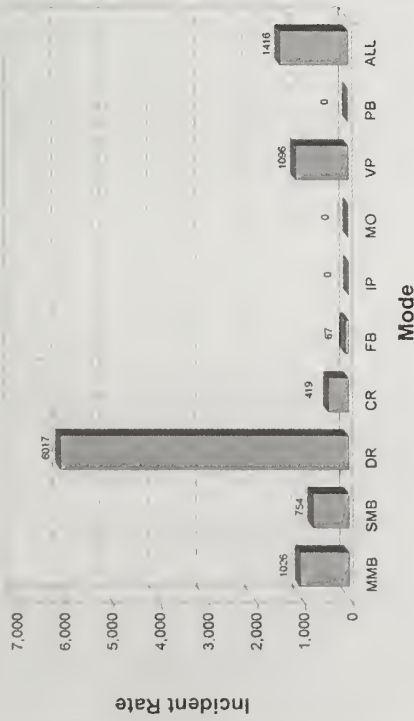


These graphs depict the *incident, fatality, and injury* rates, from all causes listed in the Transit Safety Form (405), i.e., **Collisions, Derailments, Personal Casualties, and Fires.**

Also note that they are indexed in number of Passengers.

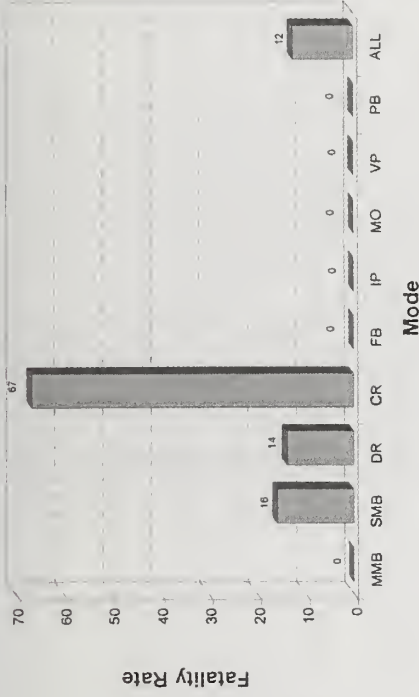
Purchased Transportation - Incidents

of all types
per 100,000,000 Passengers



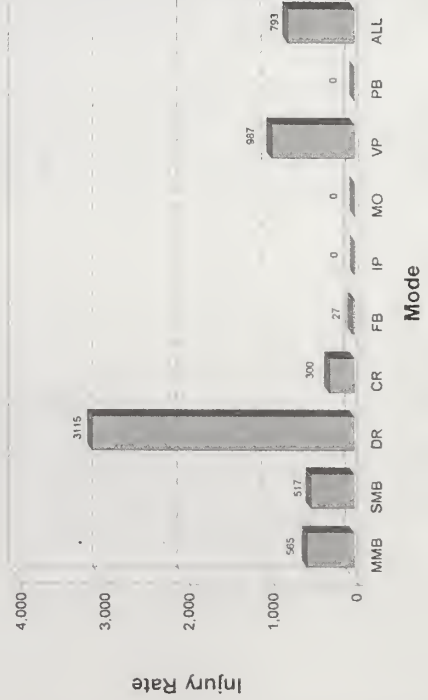
Purchased Transportation - Fatalities

from all causes
per 100,000,000 Passengers



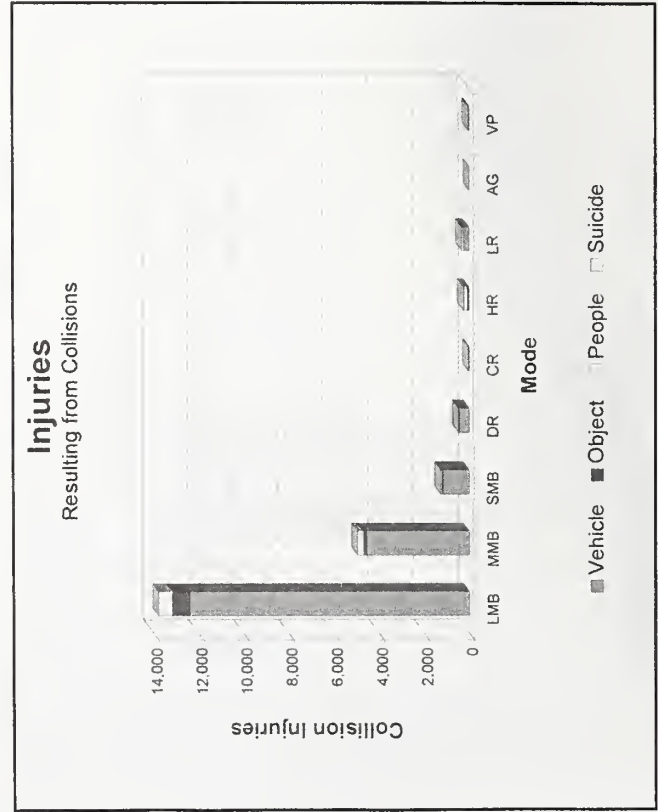
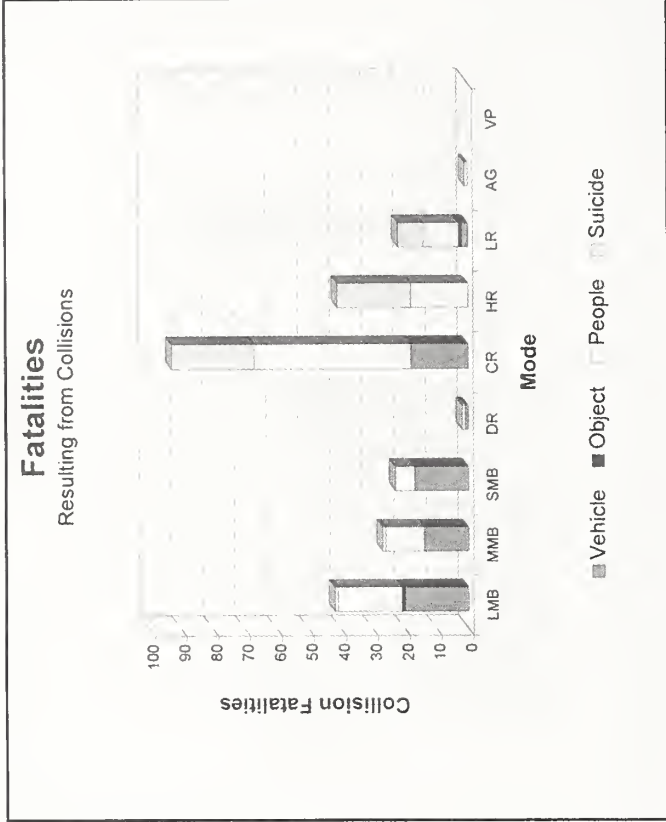
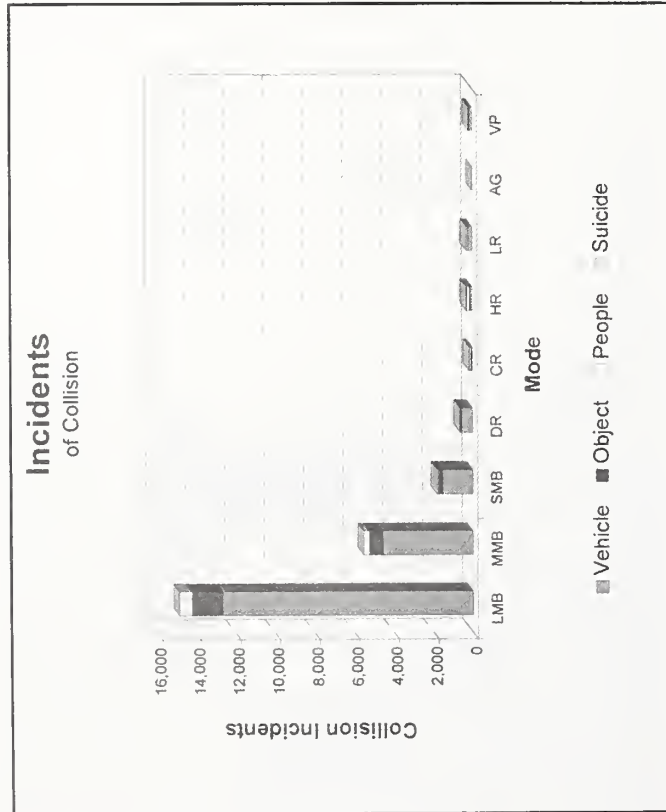
Purchased Transportation - Injuries

from all causes
per 100,000,000 Passengers



These graphs depict the *incident, fatality, and injury* rates, from all causes (except suicides), listed in the Transit Safety Form (405), i.e., **Collisions, Derailments, Personal Casualties, and Fires.**

Also note that they are indexed in number of Passengers.

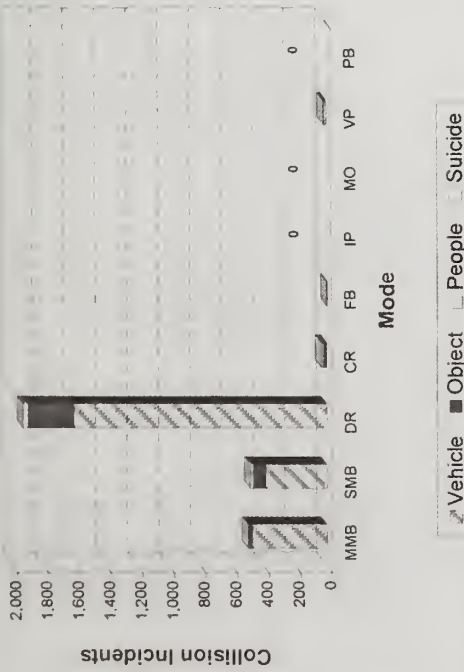


These graphs break down by type *incidents*, *injuries*, and *fatalities* resulting from **Collisions** (with vehicles, objects, people, and suicides).

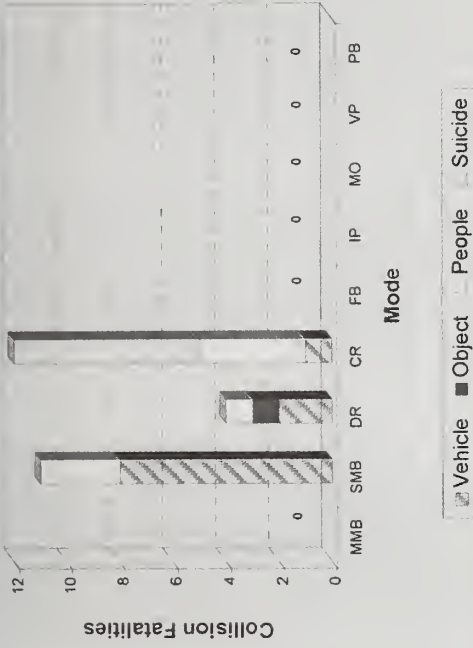
In 1998, fatalities were up significantly in the Light Rail (+733%) and Small Motor Bus (+91%) modes and moderately in the Commuter Rail mode (+31%) from 1997 totals. Fatalities were down moderately in the Large Motor Bus (-19%), Medium Motor Bus (-27%), and Heavy Rail (-36%) modes.

Note that the Motor Bus categories refer to the size of the agency's fleet as opposed to the size of the vehicles. See glossary for details.

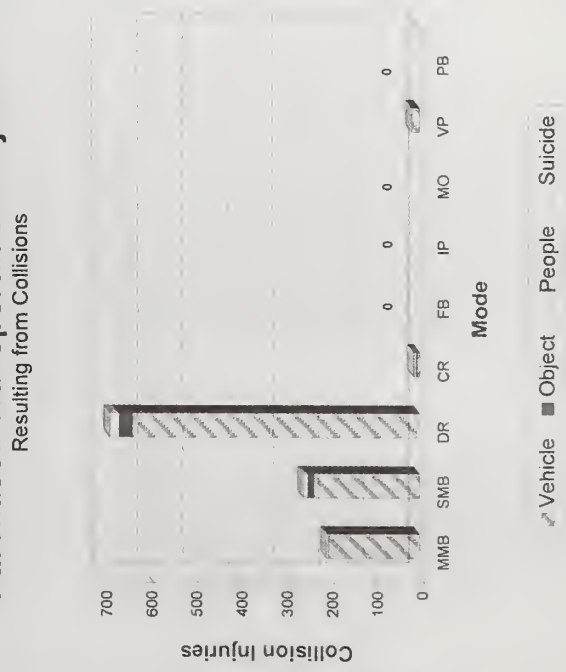
Purchased Transportation - Incidents of Collision



Purchased Transportation - Fatalities Resulting from Collisions



Purchased Transportation - Injuries Resulting from Collisions

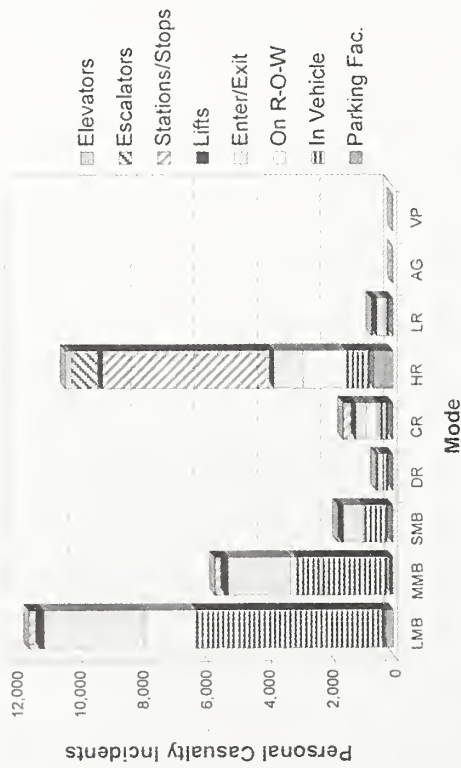


These graphs break down by type *incidents, injuries, and fatalities* resulting from **Collisions** (with vehicles, objects, and people).

Not surprisingly, most of the fatalities are the result of collisions with people.

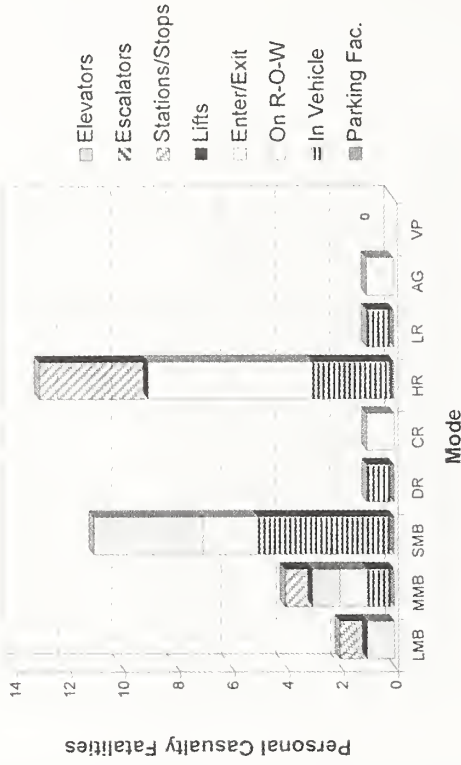
Incidents

of Personal Casualty



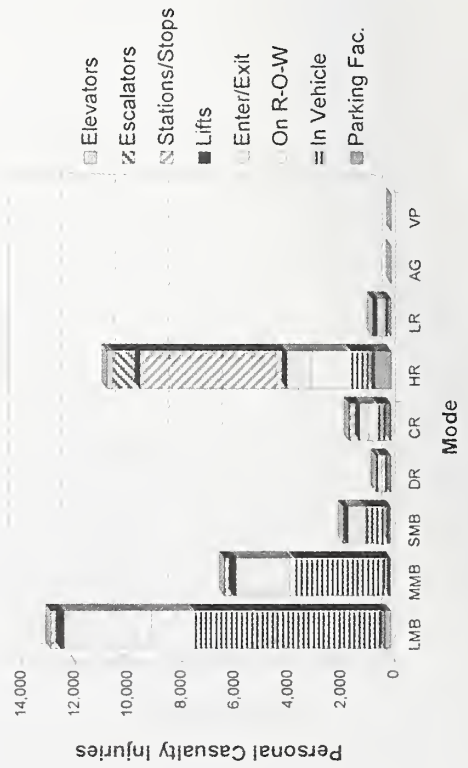
Fatalities

Resulting from Personal Casualty



Injuries

Resulting from Personal Casualty



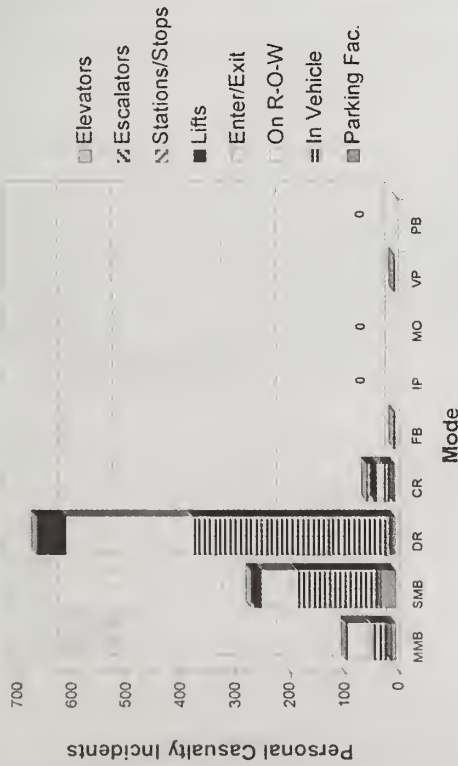
These graphs break down by type *incidents, injuries, and fatalities* that are classified under the **Personal Casualties** category of Form 405 [in parking facilities, inside vehicle, on right of way, entering/exiting the vehicle (associated with lifts), in station/bus stops (associated with escalators, and associated with elevators)].

Keep in mind that **Personal Casualties** is a transit mishap category (in Form 405) where people are hurt but not as a result of Collisions, Derailments, or Fires.

1998 saw Small Motor Bus *fatalities* from **Personal Casualties** increase dramatically (from 1 to 11) over 1997, while Commuter Rail *fatalities* from **Personal Casualties** decreased from 8 to 1.

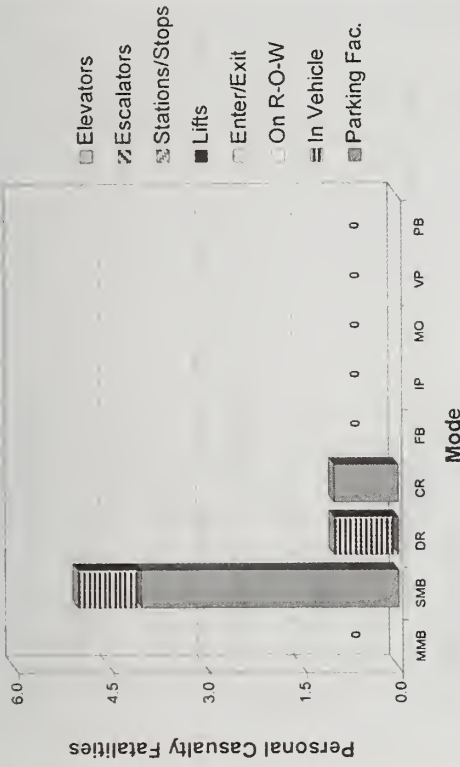
Purchased Transportation - Incidents

of Personal Casualty



Purchased Transportation - Fatalities

Resulting from Personal Casualty



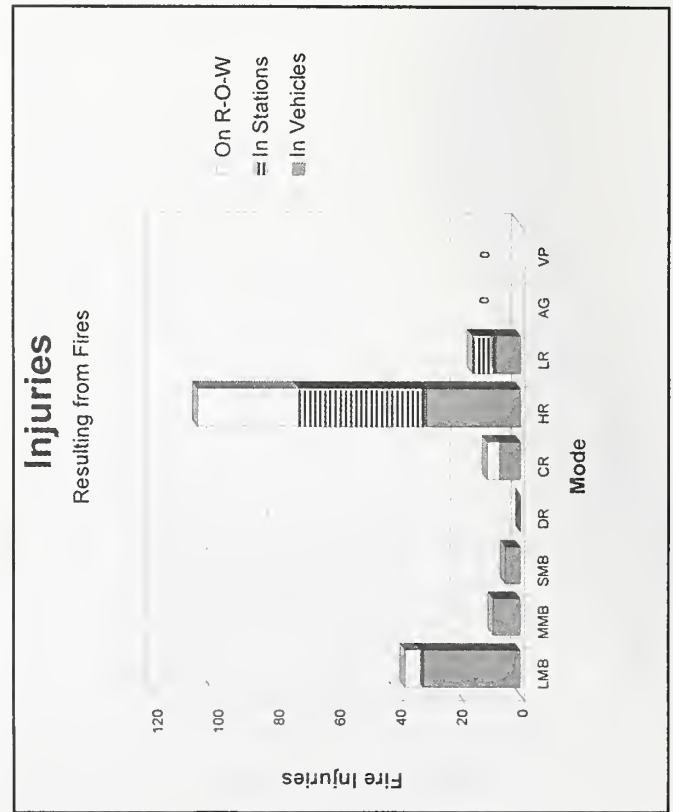
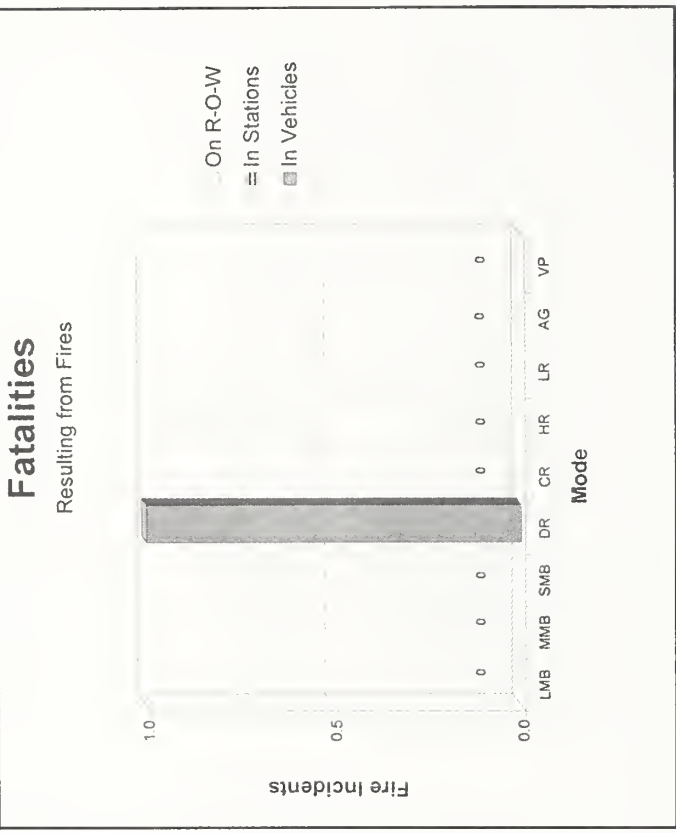
Purchased Transportation - Injuries

Resulting from Personal Casualty



These graphs break down by type *incidents, injuries, and fatalities* that are classified under the **Personal Casualties** category of Form 405 [in parking facilities, inside vehicle, on right of way, entering/exiting the vehicle (associated with lifts), in station/bus stops (associated with escalators, and associated with elevators)].

Keep in mind that **Personal Casualties** is a transit mishap category (in Form 405) where people are hurt but not as a result of Collisions, Derailments, or Fires.

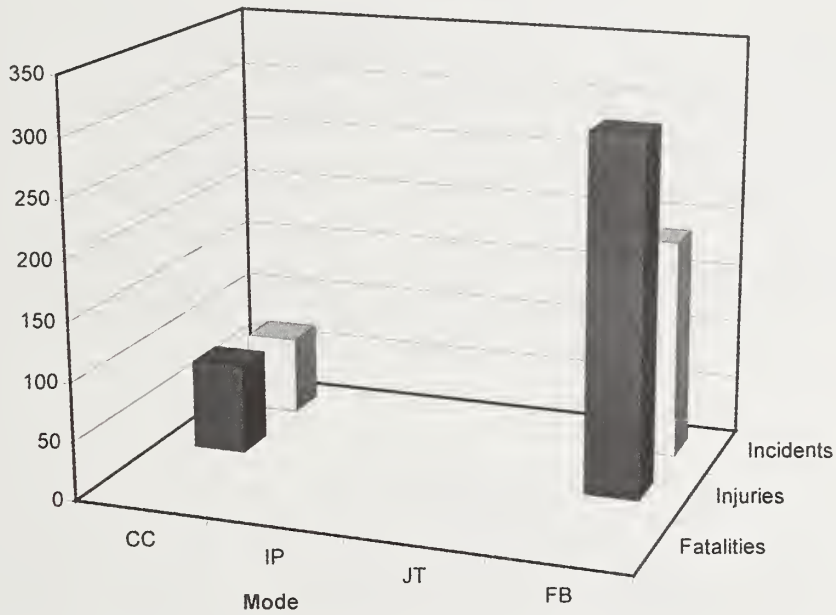


These graphs break down by type: the *incidents*, and resulting *fatalities and injuries*, from **Fires** (in vehicles, in stations, and on right of way/road and others).

While there were relatively few incidents of Fires, the graph clearly shows that the vast majority of such incidents occurred in heavy rail stations and rights of way. However, the only fatality occurred in the Demand Response mode despite it having only 6 incidents of Fire in 1998.

Other Transit Modes

Incidents, Fatalities, Injuries
from all causes



Totals for Cable Car, Inclined Plane, Jitney, and Ferry Boat

by Year

	1990	1991	1992	1993	1994	1995	1996	1997	1998
Incidents	186	411	400	411	650	536	301	353	253
Fatalities	2	1	0	1	0	0	1	0	0
Injuries	378	327	399	383	616	598	354	357	379
Damage*	335,100	410,450	288,308	220,674	321,705	3,262,700	157,184	66,850	23,887

* Property Damage in Dollars (\$)

Collisions

Bus

INCIDENTS

Collisions ¹	LMB	MMB	SMB
With Other Vehicles	12,674	4,565	1,523
(w/vehicles at grade crossings)	2	28	11
With Objects	1,577	678	242
(w/objects at grade crossings)	2	2	2
With People ²	621	282	61
(w/people at grade crossings)	0	0	4
(attempted suicides) ³	2	1	0
Total⁴	14,872	5,525	1,826

FATALITIES

Collisions ¹	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
With Other Vehicles	1	4	0	0	0	0	19	10	17
(w/vehicles at grade crossings)	0	0	0	0	0	0	0	0	0
With Objects	0	0	0	1	0	0	0	0	0
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	0	1	2	0	0	0	21	12	4
(w/people at grade crossings)	0	0	0	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0	1	1	0
Total⁴	1	5	2	1	0	0	40	22	21

INJURIES

Collisions ¹	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
With Other Vehicles	7,980	3,213	855	1,360	583	155	3,073	768	169
(w/vehicles at grade crossings)	0	65	8	0	4	0	1	0	3
With Objects	573	121	40	160	21	6	55	7	1
(w/objects at grade crossings)	0	1	2	0	0	0	4	0	0
With People ²	121	99	20	37	13	2	440	139	35
(w/people at grade crossings)	0	0	1	0	0	0	0	0	2
(attempted suicides)	0	2	0	0	0	0	1	0	0
Total⁴	8,674	3,433	915	1,557	617	163	3,568	914	205

¹ Collisions with vehicles, objects, and people include their respective "at grade crossing" figures.

² People figures include suicides.

³ Incidents of suicide include fatalities, injuries, and unharmed.

⁴ Total figures do not include parenthetical items.

Purchased Transportation - Collisions

Bus

INCIDENTS

Collisions ¹	MMB	SMB
With Other Vehicles	477	390
(w/vehicles at grade crossings)	1	21
With Objects	23	83
(w/objects at grade crossings)	0	2
With People ²	3	14
(w/people at grade crossings)	0	0
(attempted suicides) ³	0	0
Total⁴	503	487

FATALITIES

Collisions ¹	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
With Other Vehicles	0	7	0	0	0	1
(w/vehicles at grade crossings)	0	0	0	0	0	0
With Objects	0	0	0	0	0	0
(w/objects at grade crossings)	0	0	0	0	0	0
With People ²	0	0	0	0	0	3
(w/people at grade crossings)	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0
Total⁴	0	7	0	0	0	4

INJURIES

Collisions ¹	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
With Other Vehicles	131	148	49	47	22	39
(w/vehicles at grade crossings)	4	2	0	0	1	1
With Objects	0	8	0	7	1	0
(w/objects at grade crossings)	0	0	0	0	0	0
With People ²	0	4	0	1	3	3
(w/people at grade crossings)	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0
Total⁴	131	160	49	55	26	42

¹ Collisions with vehicles, objects, and people include their respective "at grade crossing" figures

² People figures include suicides.

³ Incidents of suicide include fatalities, injuries, and unharmed

⁴ Total figures do not include parenthetical items

Collisions

Rail

INCIDENTS

Collisions ¹	CR	HR	LR
With Other Vehicles	57	105	223
(w/vehicles at grade crossings)	26	2	58
With Objects	26	42	18
(w/objects at grade crossings)	1	1	1
With People ²	98	169	64
(w/people at grade crossings)	10	0	7
(attempted suicides) ³	28	43	8
Total⁴	181	316	305

FATALITIES

Collisions ¹	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
With Other Vehicles	5	0	0	2	0	0	11	0	2
(w/vehicles at grade crossings)	2	0	0	1	0	0	9	0	2
With Objects	0	0	0	0	0	0	0	0	1
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	7	31	0	0	0	0	68	10	19
(w/people at grade crossings)	0	0	0	0	0	0	4	0	8
(attempted suicides)	0	15	0	0	0	0	26	8	8
Total⁴	12	31	0	2	0	0	79	10	22

INJURIES

Collisions ¹	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
With Other Vehicles	5	10	170	7	42	45	11	7	39
(w/vehicles at grade crossings)	2	0	31	3	1	8	4	2	2
With Objects	0	3	6	1	23	6	0	0	2
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	1
With People ²	4	70	23	5	94	11	13	3	30
(w/people at grade crossings)	0	0	0	0	0	0	4	0	0
(attempted suicides)	1	18	0	0	6	0	1	0	0
Total⁴	9	83	199	13	159	62	24	10	71

¹ Collisions with vehicles, objects, and people include their respective "at grade crossing" figures.

² People figures include suicides.

³ Incidents of suicide include fatalities, injuries, and unharmed.

⁴ Total figures do not include parenthetical items.

Purchased Transportation - Collisions

Rail

INCIDENTS

Collisions ¹	CR
With Other Vehicles	7
(w/vehicles at grade crossings)	5
With Objects	13
(w/objects at grade crossings)	0
With People ²	15
(w/people at grade crossings)	2
(attempted suicides) ³	8
Total⁴	35

FATALITIES

Collisions ¹	Patrons	Employees	Others
	CR	CR	CR
With Other Vehicles	0	0	1
(w/vehicles at grade crossings)	0	0	1
With Objects	0	0	0
(w/objects at grade crossings)	0	0	0
With People ²	0	0	11
(w/people at grade crossings)	0	0	2
(attempted suicides)	0	0	7
Total⁴	0	0	12

INJURIES

Collisions ¹	Patrons	Employees	Others
	CR	CR	CR
With Other Vehicles	2	2	2
(w/vehicles at grade crossings)	2	0	2
With Objects	3	0	0
(w/objects at grade crossings)	0	0	0
With People ²	0	0	5
(w/people at grade crossings)	0	0	0
(attempted suicides)	0	0	2
Total⁴	5	2	7

¹ Collisions with vehicles, objects, and people include their respective "at grade crossing" figures

² People figures include suicides

³ Incidents of suicide include fatalities, injuries, and unharmed

⁴ Total figures do not include parenthetical items

Collisions

Automated Guideway, Demand Response, Vanpool

INCIDENTS

Collisions ¹	AG	DR	VP
With Other Vehicles	0	566	138
(w/vehicles at grade crossings)	0	2	12
With Objects	0	81	39
(w/objects at grade crossings)	0	0	0
With People ²	3	9	2
(w/people at grade crossings)	0	0	0
(attempted suicides) ³	0	0	0
Total⁴	3	656	179

FATALITIES

Collisions ¹	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
With Other Vehicles	0	0	0	0	1	0	0	0	0
(w/vehicles at grade crossings)	0	0	0	0	0	0	0	0	0
With Objects	0	0	0	0	0	0	0	0	0
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	0	0	0	0	0	0	1	1	0
(w/people at grade crossings)	0	0	0	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0	0	0	0
Total⁴	0	0	0	0	1	0	1	1	0

INJURIES

Collisions ¹	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
With Other Vehicles	0	242	42	0	137	0	0	74	7
(w/vehicles at grade crossings)	0	0	8	0	0	0	0	0	0
With Objects	0	17	3	0	6	0	0	1	0
(w/objects at grade crossings)	1	0	0	0	0	0	0	0	0
With People ²	0	0	0	0	1	0	1	7	1
(w/people at grade crossings)	0	0	0	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0	0	0	0
Total⁴	0	259	45	0	144	0	1	82	8

¹ Collisions with vehicles, objects, and people include their respective "at grade crossing" figures.

² People figures include suicides.

³ Incidents of suicide include fatalities, injuries, and unharmed.

⁴ Total figures do not include parenthetical items.

Purchased Transportation - Collisions

Demand Response, Ferryboat, Vanpool*

INCIDENTS

Collisions ¹	DR	FB	VP
With Other Vehicles	1,604	0	17
(w/vehicles at grade crossings)	4	0	0
With Objects	296	2	2
(w/objects at grade crossings)	2	0	0
With People ²	29	0	0
(w/people at grade crossings)	1	0	0
(attempted suicides) ³	0	0	0
Total⁴	1,929	2	19

FATALITIES

Collisions ¹	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
With Other Vehicles	2	0	0	0	0	0	0	0	0
(w/vehicles at grade crossings)	0	0	0	0	0	0	0	0	0
With Objects	1	0	0	0	0	0	0	0	0
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	0	0	0	0	0	0	1	0	0
(w/people at grade crossings)	0	0	0	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0	0	0	0
Total⁴	3	0	0	0	0	0	1	0	0

INJURIES

Collisions ¹	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
With Other Vehicles	340	0	8	196	0	3	100	0	6
(w/vehicles at grade crossings)	4	0	0	1	0	0	1	0	0
With Objects	22	0	0	7	0	0	2	0	0
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	8	0	0	0	0	0	11	0	0
(w/people at grade crossings)	0	0	0	0	0	0	1	0	0
(attempted suicides)	0	0	0	0	0	0	0	0	0
Total⁴	370	0	8	203	0	3	113	0	6

¹ Collisions with vehicles, objects, and people include their respective "at grade crossing" figures

² People figures include suicides.

³ Incidents of suicide include fatalities, injuries, and unharmed

⁴ Total figures do not include parenthetical items

* Monorail (MO), Inclined Plane (IP), and Publico (PB) had no incidents

Personal Casualties

Bus

INCIDENTS

Personal Casualties	LMB	MMB	SMB
Parking Facility	225	43	43
Inside Vehicle	6,029	3,032	875
On Right of Way	1,619	196	40
Entering/Exiting Vehicle ¹	3,321	2,048	675
(associated With lifts)	129	91	54
In Stations/Stops ²	378	350	137
(associated with escalators)	3	9	0
(associated with elevators)	0	2	0
Total³	11,572	5,669	1,770

FATALITIES

Personal Casualties	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Parking Facility	0	0	0	0	0	0	0	0	0
Inside Vehicle	0	1	5	0	0	0	0	0	0
On Right of Way	0	0	2	0	0	0	0	1	0
Entering/Exiting Vehicle ¹	1	0	4	0	0	0	0	1	0
(associated With lifts)	0	0	0	0	0	0	0	0	0
In Stations/Stops ²	1	1	0	0	0	0	0	0	0
(associated with escalators)	0	0	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	2	2	11	0	0	0	0	2	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Parking Facility	2	9	9	221	34	33	2	0	0
Inside Vehicle	5,696	3,055	755	1,449	499	142	6	10	6
On Right of Way	147	154	21	1,473	20	11	0	21	6
Entering/Exiting Vehicle ¹	3,043	1,995	644	332	114	41	23	1	1
(associated With lifts)	97	92	45	35	7	10	0	0	0
In Stations/Stops ²	136	280	96	200	31	41	42	41	2
(associated with escalators)	3	9	0	0	0	0	0	0	0
(associated with elevators)	0	2	0	0	0	0	0	0	0
Total³	9,024	5,493	1,525	3,675	698	268	73	73	15

¹ Enter/Exit figures include lift figures.

² Station/Bus Stop figures include escalator and elevator figures.

³ Total figures do not include the parenthetical items as they are accounted for in the Enter/Exit and Station/Bus Stop figures.

Purchased Transportation - Personal Casualties

Bus

INCIDENTS

Personal Casualties	MMB	SMB
Parking Facility	8	27
Inside Vehicle	37	152
On Right of Way	7	7
Entering/Exiting Vehicle ¹	37	70
(associated With lifts)	0	10
In Stations/Stops ²	2	9
(associated with escalators)	0	0
(associated with elevators)	0	0
Total³	91	265

FATALITIES

Personal Casualties	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
Parking Facility	0	4	0	0	0	0
Inside Vehicle	0	1	0	0	0	0
On Right of Way	0	0	0	0	0	0
Entering/Exiting Vehicle ¹	0	0	0	0	0	0
(associated With lifts)	0	0	0	0	0	0
In Stations/Stops ²	0	0	0	0	0	0
(associated with escalators)	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0
Total³	0	5	0	0	0	0

INJURIES

Personal Casualties	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
Parking Facility	4	2	4	21	0	0
Inside Vehicle	43	139	4	17	0	0
On Right of Way	7	6	0	1	0	0
Entering/Exiting Vehicle ¹	55	67	1	1	0	3
(associated With lifts)	0	8	0	0	0	2
In Stations/Stops ²	3	6	0	3	0	0
(associated with escalators)	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0
Total³	112	220	9	43	0	3

¹ Enter/Exit figures include lift figures

² Station/Bus Stop figures include escalator and elevator figures.

³ Total figures do not include the parenthetical items as they are accounted for in the Enter/Exit and Station/Bus Stop figures.

Personal Casualties

Rail

INCIDENTS

Personal Casualties	CR	HR	LR
Parking Facility	28	618	8
Inside Vehicle	466	865	203
On Right of Way	350	1,367	64
Entering/Exiting Vehicle ¹	335	919	243
(associated With lifts)	1	0	3
In Stations/Stops ²	420	6,600	182
(associated with escalators)	14	1,004	36
(associated with elevators)	3	178	6
Total³	1,599	10,369	700

FATALITIES

Personal Casualties	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Parking Facility	0	0	0	0	0	0	0	0	0
Inside Vehicle	0	3	1	0	0	0	0	0	0
On Right of Way	0	4	0	1	2	0	0	0	0
Entering/Exiting Vehicle ¹	0	0	0	0	0	0	0	0	0
(associated With lifts)	0	0	0	0	0	0	0	0	0
In Stations/Stops ²	0	4	0	0	0	0	0	0	0
(associated with escalators)	0	0	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	0	11	1	1	2	0	0	0	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Parking Facility	15	53	7	10	568	0	3	2	1
Inside Vehicle	208	679	188	256	212	29	2	0	5
On Right of Way	2	66	1	316	1,383	62	31	6	1
Entering/Exiting Vehicle ¹	254	873	228	81	88	18	0	2	0
(associated With lifts)	1	0	3	0	0	0	0	0	0
In Stations/Stops ²	177	5,395	173	195	1,329	12	48	12	3
(associated with escalators)	11	1,004	39	0	29	0	3	1	0
(associated with elevators)	1	195	5	2	5	1	0	0	0
Total³	656	7,066	597	858	3,580	121	84	22	10

¹ Enter/Exit figures include lift figures.

² Station/Bus Stop figures include escalator and elevator figures.

³ Total figures do not include the parenthetical items as they are accounted for in the Enter/Exit and Station/Bus Stop figures.

Purchased Transportation - Personal Casualties

Rail

INCIDENTS

Personal Casualties	CR
Parking Facility	3
Inside Vehicle	16
On Right of Way	1
Entering/Exiting Vehicle ¹	17
(associated With lifts)	3
In Stations/Stops ²	15
(associated with escalators)	1
(associated with elevators)	0
Total³	52

FATALITIES

Personal Casualties	Patrons	Employees	Others
	CR	CR	CR
Parking Facility	1	0	0
Inside Vehicle	0	0	0
On Right of Way	0	0	0
Entering/Exiting Vehicle ¹	0	0	0
(associated With lifts)	0	0	0
In Stations/Stops ²	0	0	0
(associated with escalators)	0	0	0
(associated with elevators)	0	0	0
Total³	1	0	0

INJURIES

Personal Casualties	Patrons	Employees	Others
	CR	CR	CR
Parking Facility	2	0	0
Inside Vehicle	12	2	2
On Right of Way	0	0	1
Entering/Exiting Vehicle ¹	16	0	1
(associated With lifts)	3	0	0
In Stations/Stops ²	12	2	1
(associated with escalators)	1	0	0
(associated with elevators)	0	0	0
Total³	42	4	5

¹ Enter/Exit figures include lift figures.

² Station/Bus Stop figures include escalator and elevator figures

³ Total figures do not include the parenthetical items as they are accounted for in the Enter/Exit and Station/Bus Stop figures

Personal Casualties

Automated Guideway, Demand Response, Vanpool

INCIDENTS

Personal Casualties	AG	DR	VP
Parking Facility	0	23	0
Inside Vehicle	1	296	8
On Right of Way	1	21	0
Entering/Exiting Vehicle ¹	0	185	6
(associated With lifts)	0	43	0
In Stations/Stops ²	9	26	0
(associated with escalators)	2	0	0
(associated with elevators)	0	0	0
Total³	11	551	14

FATALITIES

Personal Casualties	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Parking Facility	0	0	0	0	0	0	0	0	0
Inside Vehicle	0	1	0	0	0	0	0	0	0
On Right of Way	1	0	0	0	0	0	0	0	0
Entering/Exiting Vehicle ¹	0	0	0	0	0	0	0	0	0
(associated With lifts)	0	0	0	0	0	0	0	0	0
In Stations/Stops ²	0	0	0	0	0	0	0	0	0
(associated with escalators)	0	0	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	1	1	0	0	0	0	0	0	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Parking Facility	0	5	0	5	15	0	0	3	0
Inside Vehicle	1	225	8	0	79	0	0	12	0
On Right of Way	0	13	0	0	8	0	0	0	0
Entering/Exiting Vehicle ¹	0	131	6	0	48	0	0	7	0
(associated With lifts)	0	31	0	0	14	0	0	0	0
In Stations/Stops ²	9	14	0	0	12	0	0	0	0
(associated with escalators)	2	0	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	10	388	14	5	162	0	0	22	0

¹ Enter/Exit figures include lift figures.

² Station/Bus Stop figures include escalator and elevator figures.

³ Total figures do not include the parenthetical items as they are accounted for in the Enter/Exit and Station/Bus Stop figures.

Purchased Transportation - Personal Casualties

Demand Response, Ferryboat, Vanpool*

INCIDENTS

Personal Casualties	DR	FB	VP
Parking Facility	4	0	0
Inside Vehicle	366	2	0
On Right of Way	23	0	0
Entering/Exiting Vehicle ¹	262	0	1
(associated With lifts)	52	0	0
In Stations/Stops ²	2	0	0
(associated with escalators)	0	0	0
(associated with elevators)	0	0	0
Total³	657	2	1

FATALITIES

Personal Casualties	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
Parking Facility	0	0	0	0	0	0	0	0	0
Inside Vehicle	1	0	0	0	0	0	0	0	0
On Right of Way	0	0	0	0	0	0	0	0	0
Entering/Exiting Vehicle ¹	0	0	0	0	0	0	0	0	0
(associated With lifts)	0	0	0	0	0	0	0	0	0
In Stations/Stops ²	0	0	0	0	0	0	0	0	0
(associated with escalators)	0	0	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	1	0	0	0	0	0	0	0	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
Parking Facility	2	0	0	0	0	0	0	0	0
Inside Vehicle	305	2	0	64	0	0	1	0	0
On Right of Way	17	0	0	6	0	0	0	0	0
Entering/Exiting Vehicle ¹	217	0	1	45	0	0	0	0	0
(associated With lifts)	44	0	0	8	0	0	0	0	0
In Stations/Stops ²	2	0	0	0	0	0	0	0	0
(associated with escalators)	0	0	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	543	2	1	115	0	0	1	0	0

¹ Enter/Exit figures include lift figures

² Station/Bus Stop figures include escalator and elevator figures

³ Total figures do not include the parenthetical items as they are accounted for in the Enter/Exit and Station/Bus Stop figures.

* Monorail (MO) and Inclined Plane (IP) had no incidents

Fires

Bus

INCIDENTS

Fires	LMB	MMB	SMB
In Vehicles	181	3	27
In Station	82	3	2
Right of Way and Others	25	2	0
Total	288	8	29

FATALITIES

Fires	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
In Vehicles	0	0	0	0	0	0	0	0	0
In Stations	0	0	0	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

INJURIES

Fires	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
In Vehicles	18	6	3	14	3	2	0	0	0
In Stations	0	0	0	1	0	0	0	0	0
Right of Way and Others	0	0	0	5	0	0	0	0	0
Total	18	6	3	20	3	2	0	0	0

Purchased Transportation - Fires

Bus

INCIDENTS

Fires	MMB	SMB
In Vehicles	0	9
In Station	0	0
Right of Way and Others	0	1
Total	0	10

FATALITIES

Fires	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
In Vehicles	0	0	0	0	0	0
In Stations	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0
Total	0	0	0	0	0	0

INJURIES

Fires	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
In Vehicles	0	0	0	0	0	0
In Stations	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0
Total	0	0	0	0	0	0

Fires

Rail

INCIDENTS

Fires	CR	HR	LR
In Vehicles	70	30	490
In Station	492	982	1337
Right of Way and Others	6	27	52
Total	568	1039	1879

FATALITIES

Fires	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
In Vehicles	0	0	0	0	0	0	0	0	0
In Stations	0	0	0	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

INJURIES

Fires	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
In Vehicles	0	19	7	7	12	1	0	0	0
In Stations	0	2	1	0	40	7	0	0	0
Right of Way and Others	0	5	0	4	28	0	0	0	0
Total	0	26	8	11	80	8	0	0	0

Purchased Transportation - Fires

Rail

INCIDENTS

Fires	CR
In Vehicles	1
In Station	0
Right of Way and Others	8
Total	9

FATALITIES

Fires	Patrons	Employees	Others
	CR	CR	CR
In Vehicles	0	0	0
In Stations	0	0	0
Right of Way and Others	8	0	0
Total	8	0	0

INJURIES

Fires	Patrons	Employees	Others
	CR	CR	CR
In Vehicles	0	0	0
In Stations	0	0	0
Right of Way and Others	0	0	0
Total	0	0	0

Fires

Automated Guideway, Demand Response, Vanpool

INCIDENTS

Fires	AG	DR	VP
In Vehicles	0	6	2
In Station	0	0	0
Right of Way and Others	0	0	1
Total	0	6	3

FATALITIES

Fires	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
In Vehicles	0	0	0	0	1	0	0	0	0
In Stations	0	0	0	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	0	0

INJURIES

Fires	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
In Vehicles	0	0	0	0	0	0	0	0	0
In Stations	0	0	0	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Purchased Transportation - Fires

Demand Response, Ferryboat, Vanpool*

INCIDENTS

Fires	DR	FB	VP
In Vehicles	22	1	0
In Station	0	0	0
Right of Way and Others	0	0	0
Total	22	1	0

FATALITIES

Fires	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
In Vehicles	0	0	0	0	0	0	0	0	0
In Stations	0	0	0	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

INJURIES

Fires	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
In Vehicles	6	0	0	0	0	0	0	0	0
In Stations	0	0	0	0	0	0	0	0	0
Right of Way and Others	0	0	0	0	0	0	0	0	0
Total	6	0	0	0	0	0	0	0	0

* Inclined Plane (IP), Monorail (MO), and Publico (PB) had no incidents

Derailments/Buses Left Roadway

Mode	INCIDENTS	FATALITIES			INJURIES		
		Patrons	Employees	Others	Patrons	Employees	Others
LMB	22	0	0	0	60	1	1
MMB	27	0	0	0	16	1	1
SMB	8	0	0	0	13	0	0
DR	8	0	0	0	4	3	0
CR	40	0	0	0	17	5	0
HR	20	0	0	0	32	1	0
LR	31	0	0	0	0	0	0
AG	0	0	0	0	0	0	0
VP	0	0	0	0	0	0	0
Total	156	0	0	0	142	11	2

Derailments/Buses Left Roadway - Purchased Transportation

Mode	INCIDENTS	FATALITIES			INJURIES		
		Patrons	Employees	Others	Patrons	Employees	Others
MMB	0	0	0	0	0	0	0
SMB	1	0	0	0	0	0	0
DR	9	1	0	0	0	2	0
CR	0	0	0	0	0	0	0
PB	0	0	0	0	0	0	0
MO	0	0	0	0	0	0	0
IP	0	0	0	0	0	0	0
FB	0	0	0	0	0	0	0
VP	0	0	0	0	0	0	0
Total	10	1	0	0	0	2	0

Total¹ of Incidents, Fatalities, and Injuries

Mode	INCIDENTS	FATALITIES			INJURIES		
		Patrons	Employees	Others	Patrons	Employees	Others
LMB	26,677	3	1	40	17,776	5,253	3,642
MMB	11,308	7	0	24	8,948	1,319	988
SMB	3,631	13	0	21	2,456	433	220
DR	1,221	1	2	1	651	309	104
CR	2,410	12	3	79	682	887	108
HR	13,516	42	2	10	7,207	3,820	32
LR	1,121	1	0	22	804	191	81
AG	16	1	0	1	11	0	1
VP	194	0	0	0	59	0	8
Total	60,094	80	8	198	38,594	12,212	5,184

Total¹ of Incidents, Fatalities, and Injuries - Purchased Transportation

Mode	INCIDENTS	FATALITIES			INJURIES		
		Patrons	Employees	Others	Patrons	Employees	Others
MMB	594	0	0	0	243	58	26
SMB	763	12	0	4	380	98	45
DR	2617	5	0	1	919	321	115
CR	96	9	0	12	47	6	12
PB	0	0	0	0	0	0	0
MO	0	0	0	0	0	0	0
IP	0	0	0	0	0	0	0
FB	5	0	0	0	2	0	0
VP	20	0	0	0	9	3	6
Total	4095	26	0	17	1600	486	204

¹ These are the totals of Collisions, Derailments, Personal Casualties, and Fires

Operating Statistics and Property Damage

Mode	Property Damage	Passengers	Passenger Miles	Vehicle Miles
LMB	\$25,189,250.00	2,928,115,946	9,105,298,835	842,454,297
MMB	\$11,929,679.00	1,322,562,433	6,143,594,471	653,465,715
SMB	\$4,236,504.00	460,949,417	1,863,794,522	283,110,563
DR	\$2,205,804.00	22,071,333	193,003,989	157,129,756
CR	\$4,902,855.00	359,632,938	8,138,007,363	242,437,870
HR	\$10,029,143.00	2,392,834,927	12,284,382,322	565,677,634
LR	\$2,695,505.00	272,944,289	1,115,351,940	43,282,733
AG	\$0.00	6,159,589	7,010,367	1,449,760
VP	\$308,477.00	8,669,405	300,217,925	43,912,350
Total	\$61,497,217	7,773,940,277	39,150,661,734	2,832,920,678

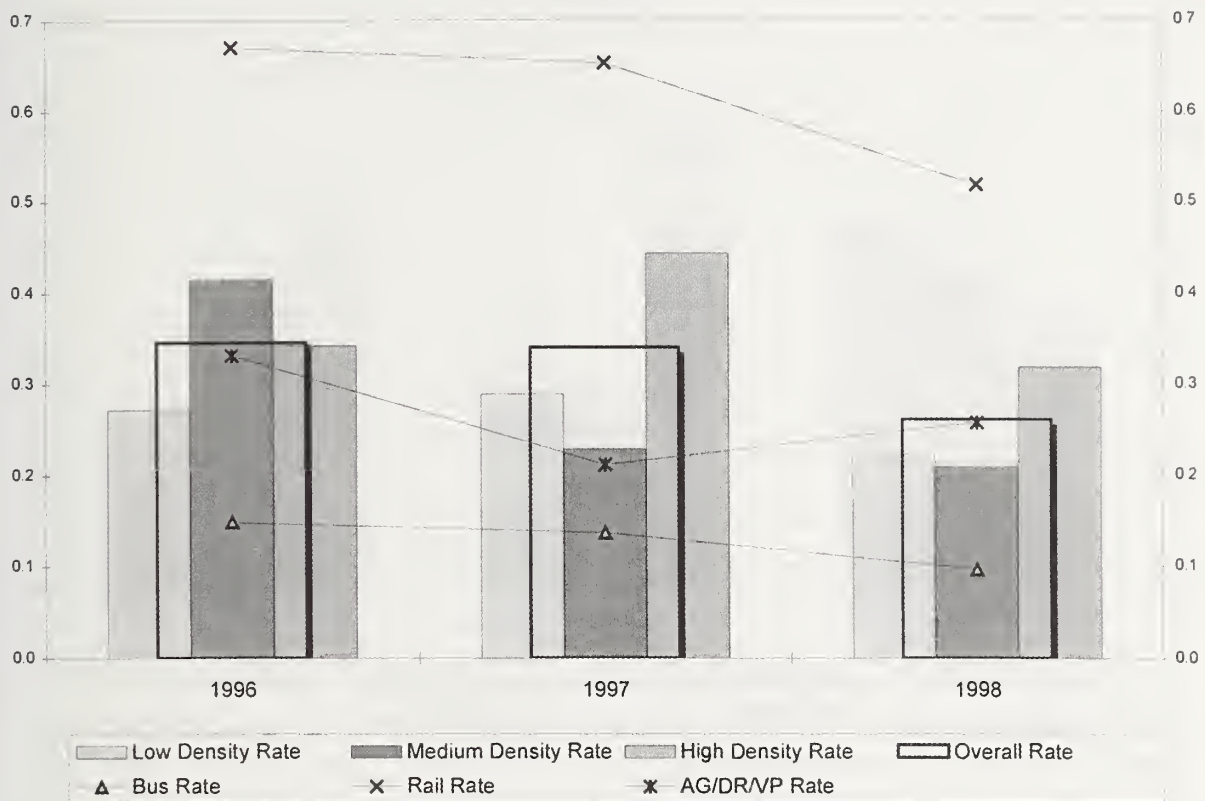
Operating Statistics and Property Damage - Purchased Transportation

Mode	Property Damage	Passengers	Passenger Miles	Vehicle Miles
MMB	\$1,303,344.00	57,871,709	277,922,896	42,289,914
SMB	\$1,524,904.00	101,162,379	669,292,773	96,105,261
DR	\$3,364,339.00	43,493,128	322,064,385	309,438,545
CR	\$188,897.00	21,014,699	564,251,549	3,876,724
PB	\$0.00	52,572,268	250,005,895	31,974,913
MO	\$0.00	2,659,599	2,393,639	50,816
IP	\$0.00	460,339	69,051	21,829
FB	\$458,500.00	7,502,959	30,929,679	722,044
VP	\$63,367.00	1,824,395	82,567,334	11,643,870
Total	\$6,903,351	288,561,475	2,199,497,201	496,123,916

**Transit Security Trends
1996 through 1998**

Part I Offenses - By Mode Group and Population Density

per 100,000 Passengers
by Year

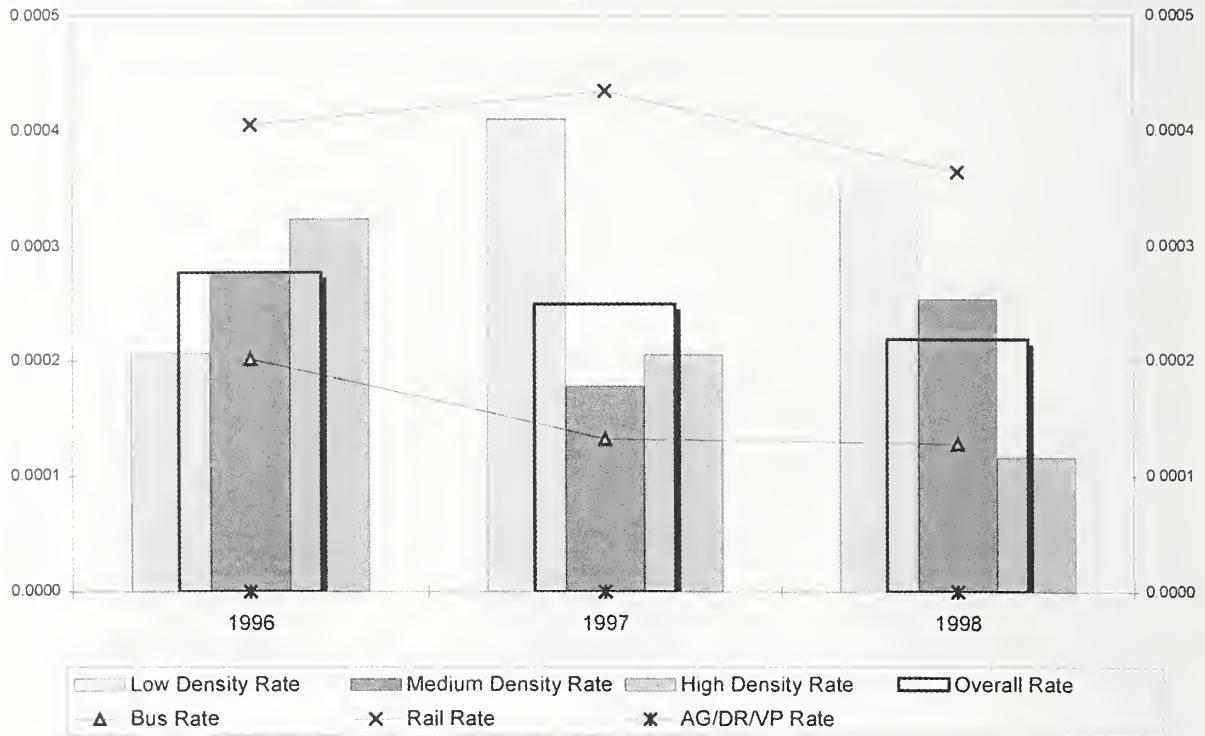


This chart displays the transit-related crime rate for Part I (Reports) Offenses. There are two sets of indicators: population density (colored bars) and mode group (lines). The overall rate is represented by the clear bars. The chart is useful in exposing the overall trend and a variety of factors that are influencing the trend.

The charts that follow display the specific Part I Offense trends. Taken separately they provide insight into the factors that influenced the cumulative overall, density, and mode group trends seen above.

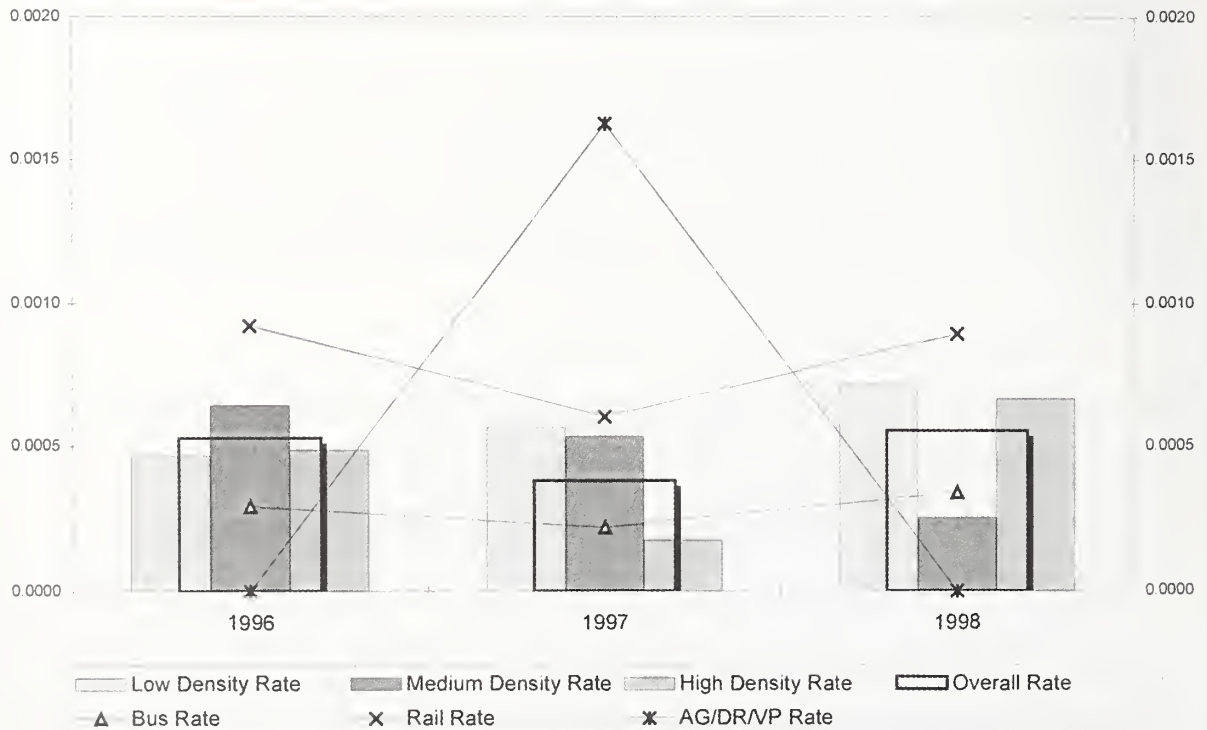
Homicide - By Mode Group and Population Density

per 100,000 Passengers
by Year



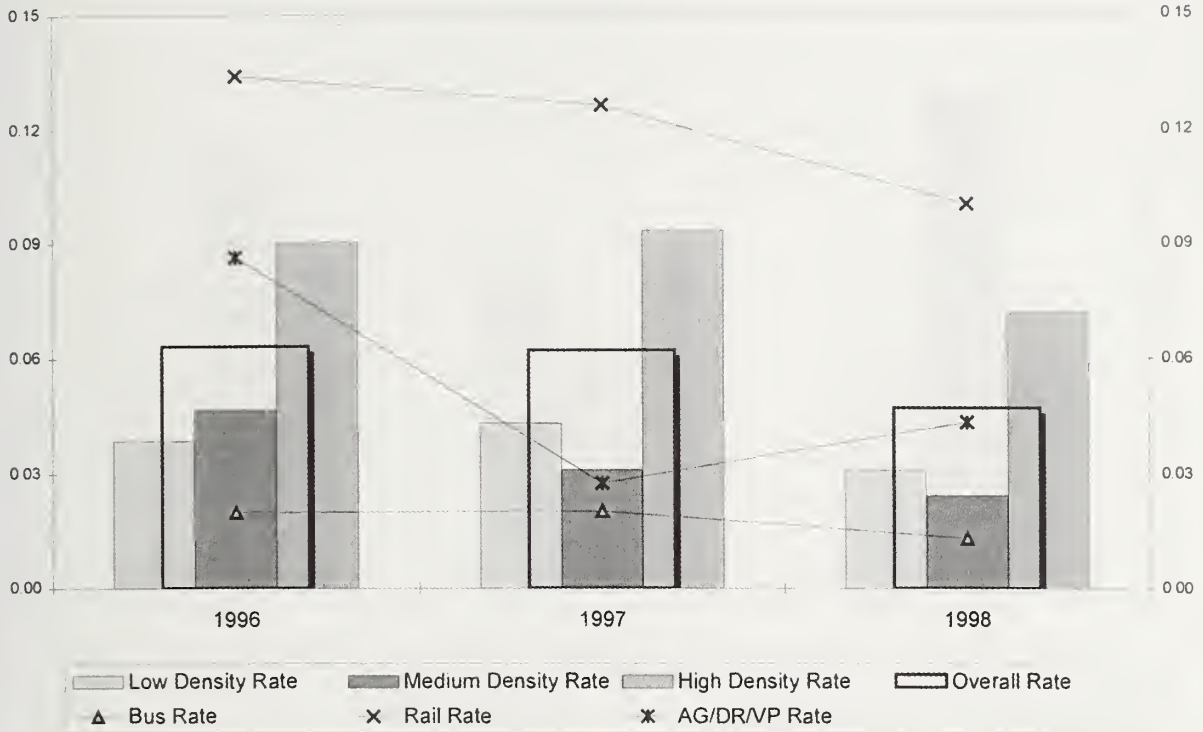
Forcible Rape - By Mode Group and Population Density

per 100,000 Passengers
by Year



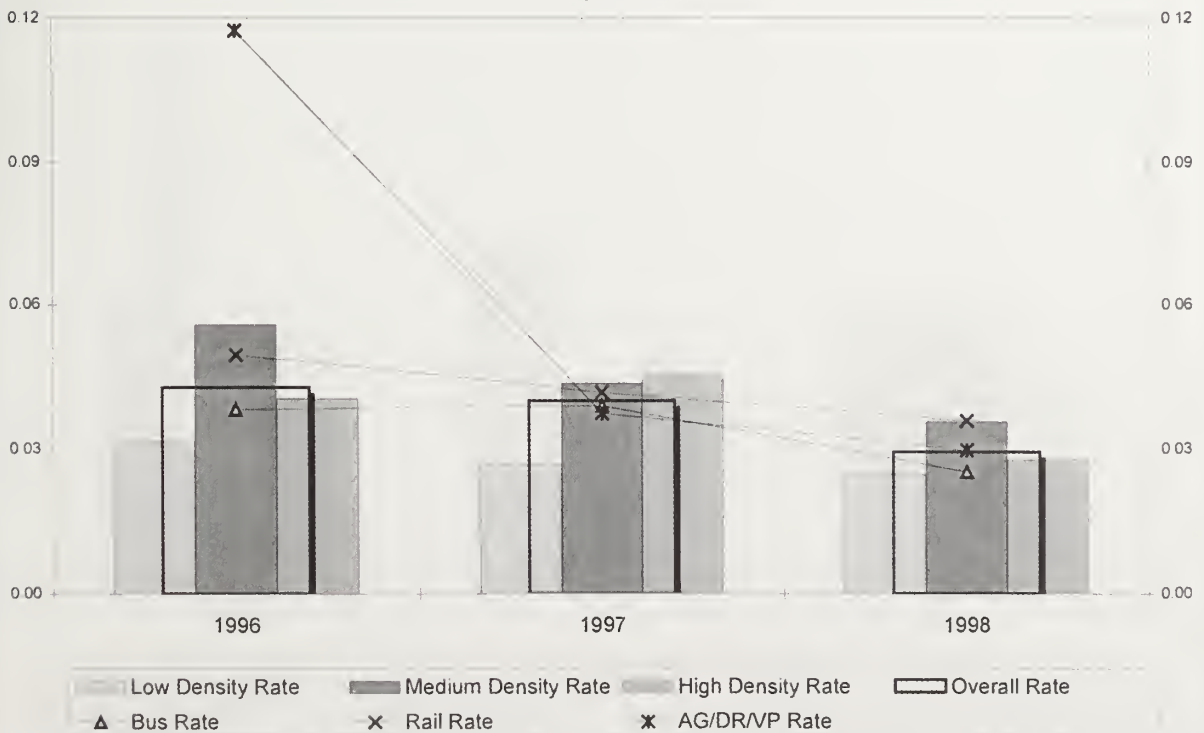
Robbery - By Mode Group and Population Density

per 100,000 Passengers
by Year



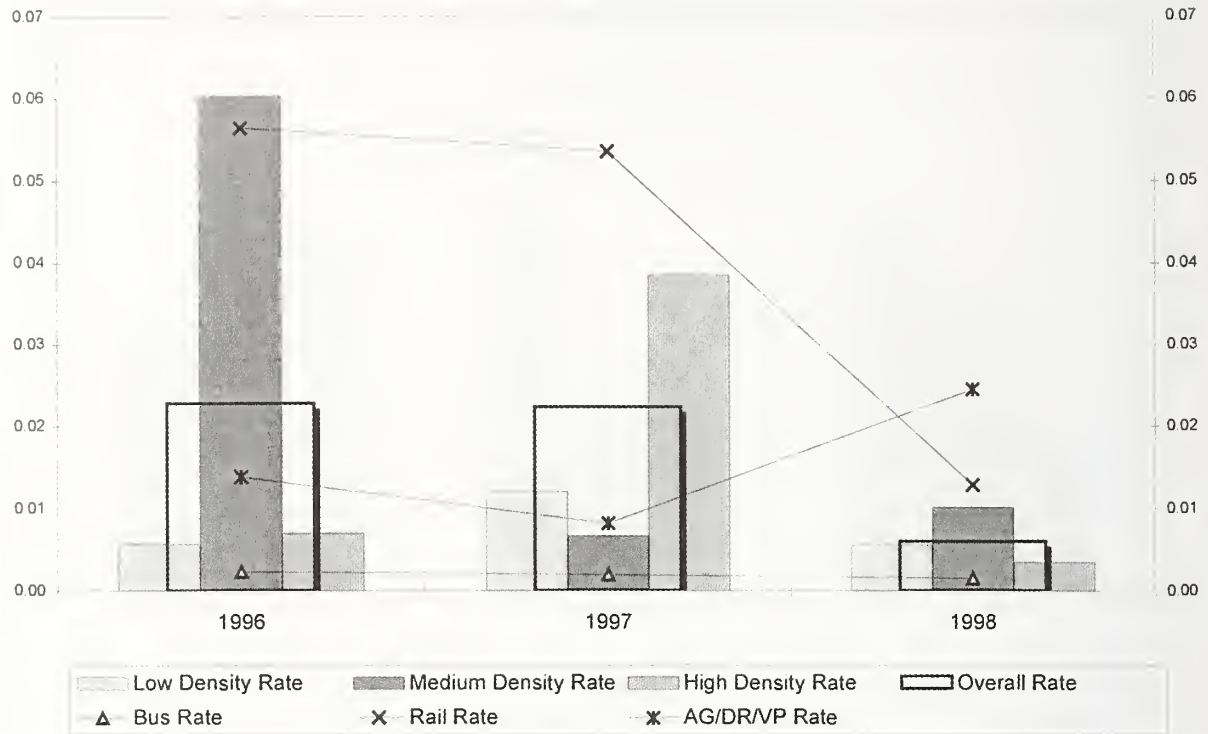
Aggravated Assault - By Mode Group and Population Density

per 100,000 Passengers
by Year



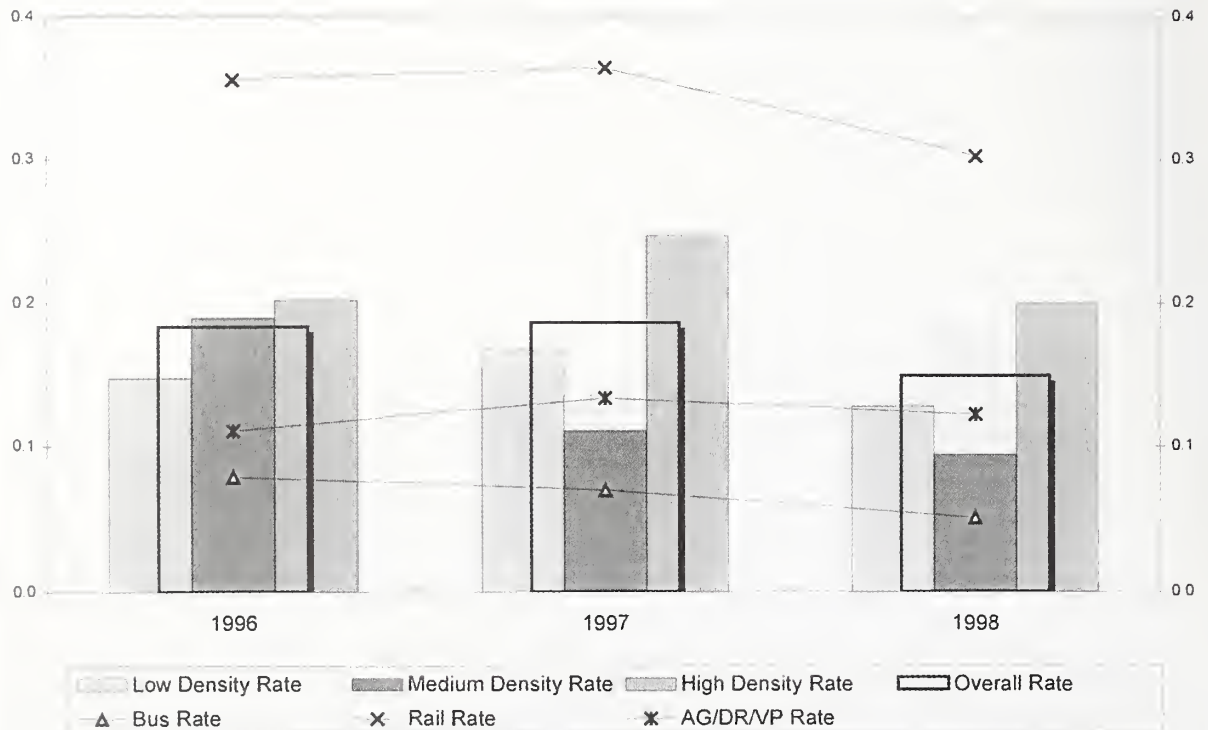
Burglary - By Mode Group and Population Density

per 100,000 Passengers
by Year



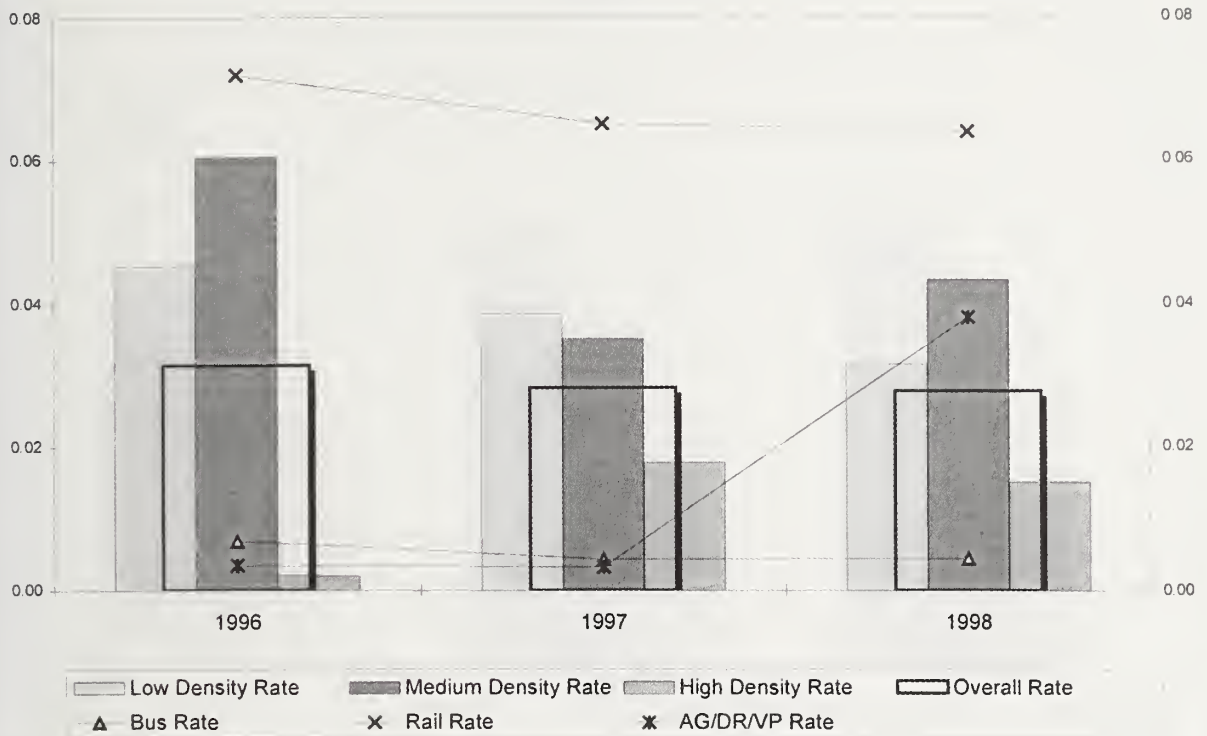
Larceny/Theft - By Mode Group and Population Density

per 100,000 Passengers
by Year



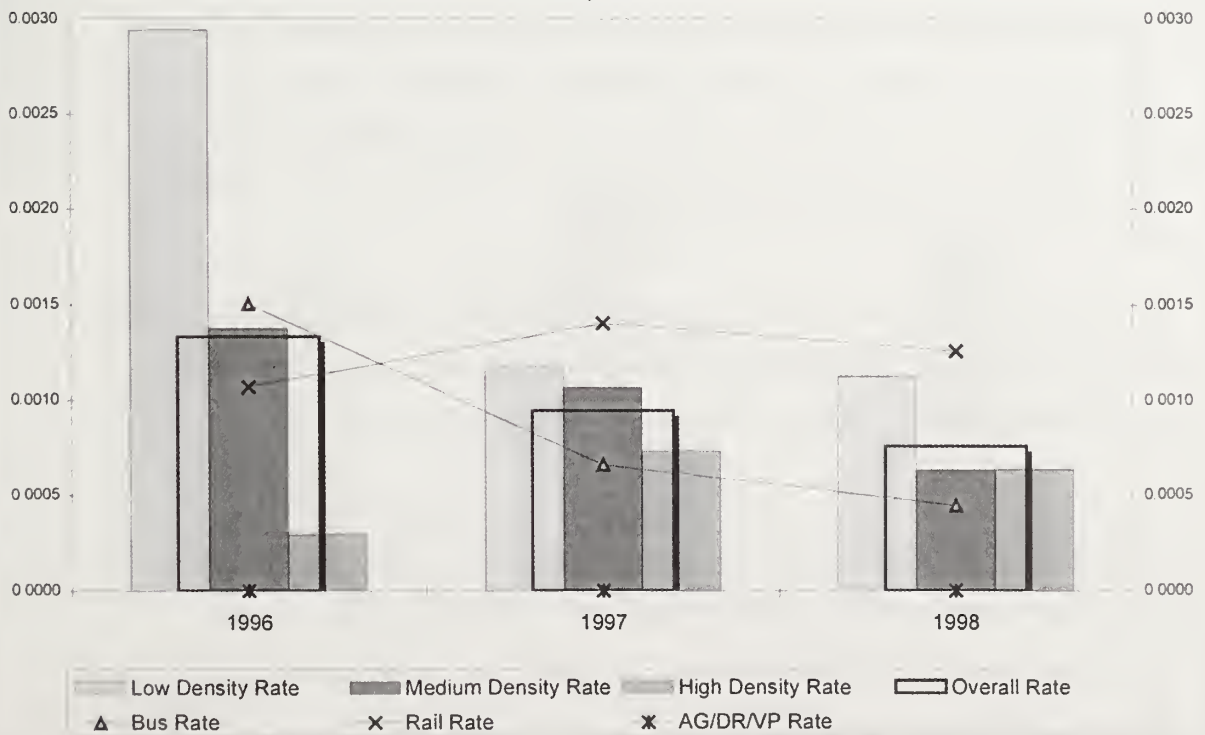
Motor Vehicle Theft - By Mode Group and Population Density

per 100,000 Passengers
by Year



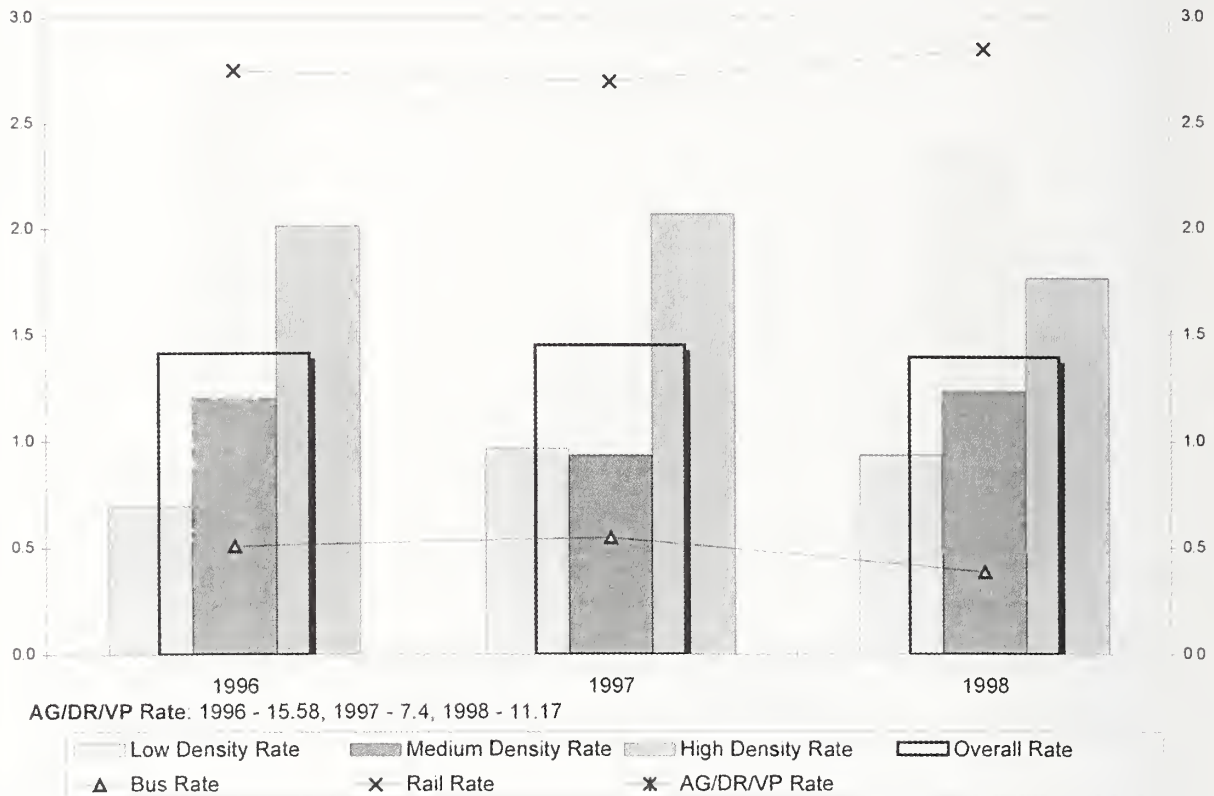
Arson - By Mode Group and Population Density

per 100,000 Passengers
by Year



Part II Offenses (Arrests) Overall - By Mode Group and Population Density

per 100,000 Passengers
by Year



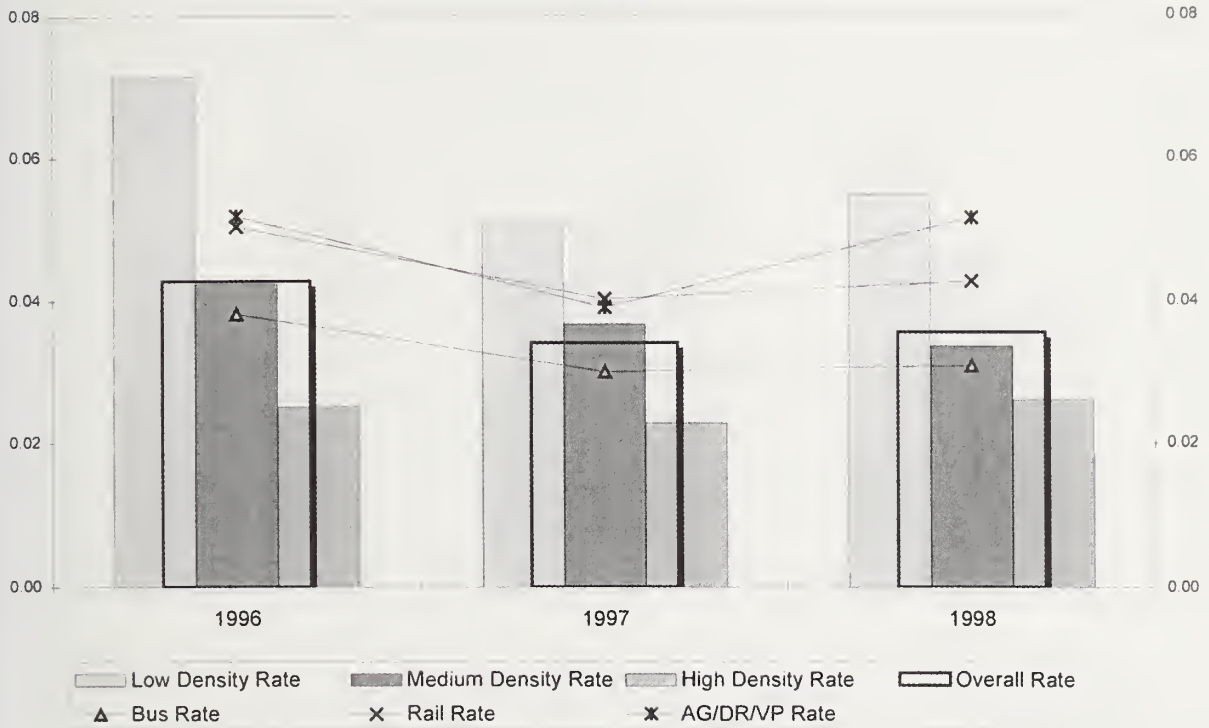
This chart displays the transit-related crime rate for arrests for Part II Offenses. There are two sets of indicators: population density (colored bars) and mode group (lines). The overall rate is represented by the clear bars. The chart is useful in exposing the overall trend and a variety of factors that are influencing the trend.

The charts that follow display the specific Part II Offense trends. Taken separately they provide insight into the factors that influenced the cumulative overall, density, and mode group trends seen above.

At times the AG/DR/VP rate was significantly higher than any other factor and obscured the other trends. Thus, it was omitted from those particular charts and noted in text at the bottom of each.

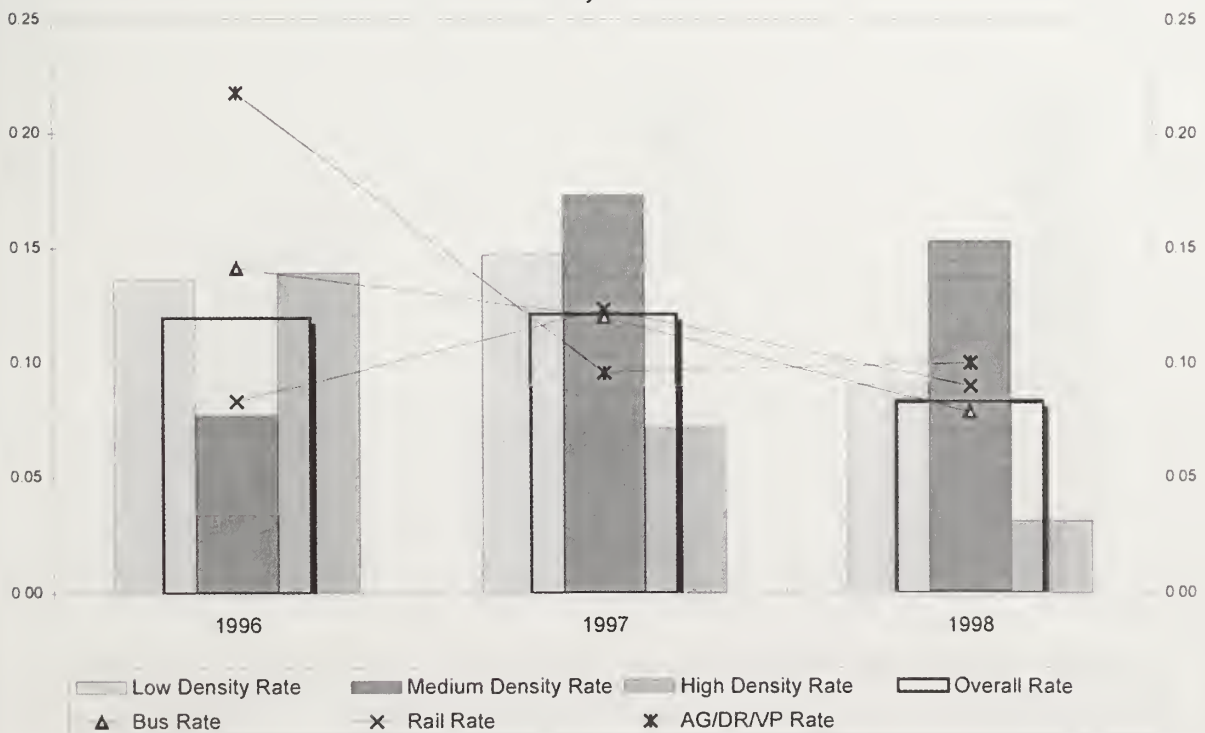
Other Assaults - By Mode Group and Population Density

per 100,000 Passengers
by Year



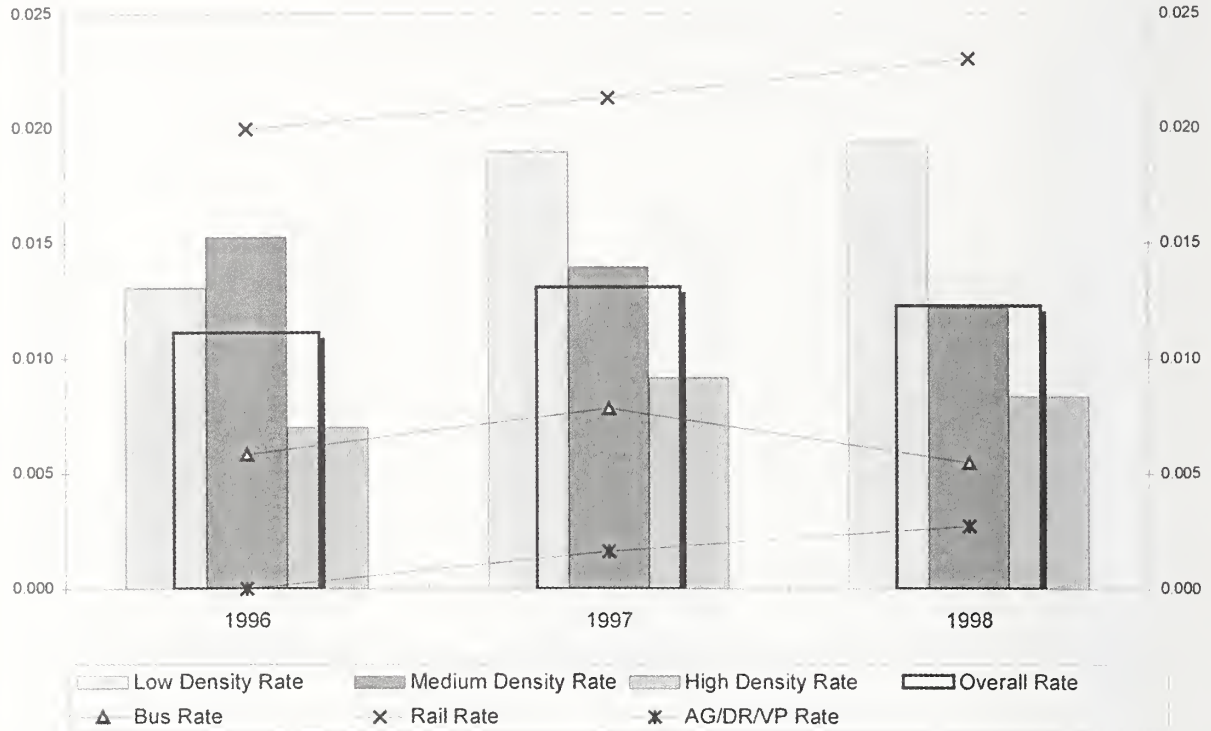
Vandalism - By Mode Group and Population Density

per 100,000 Passengers
by Year



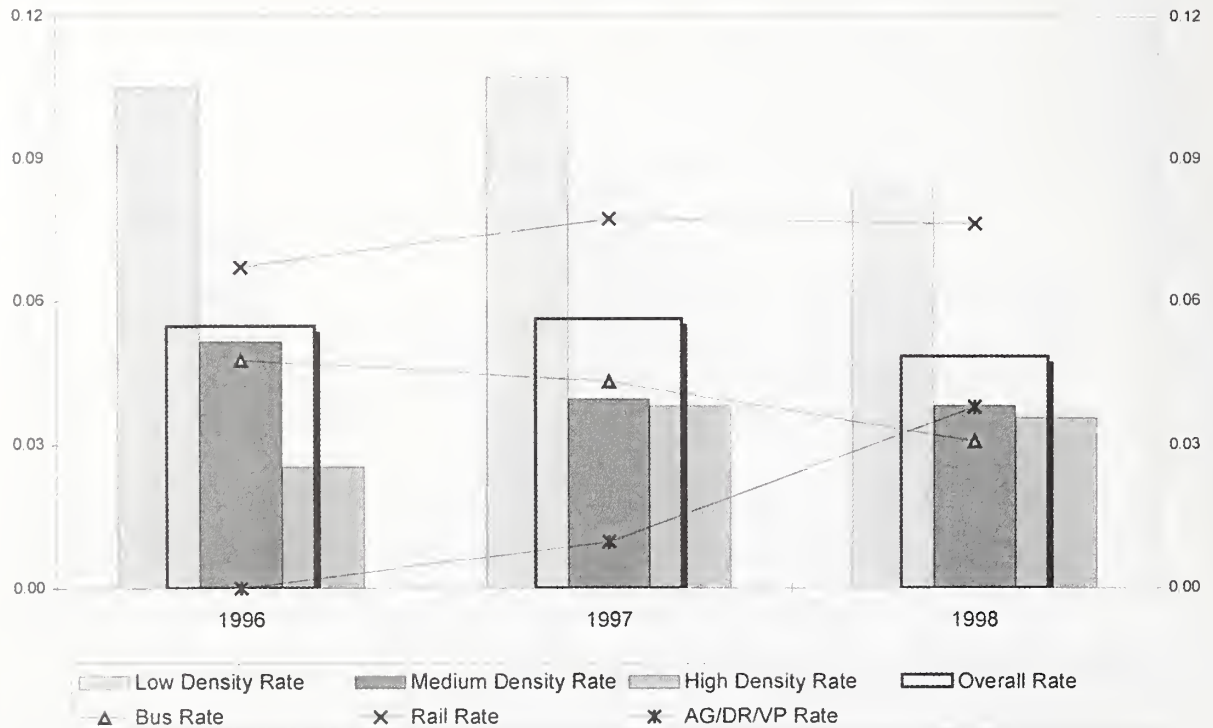
Sex Offenses - By Mode Group and Population Density

per 100,000 Passengers
by Year



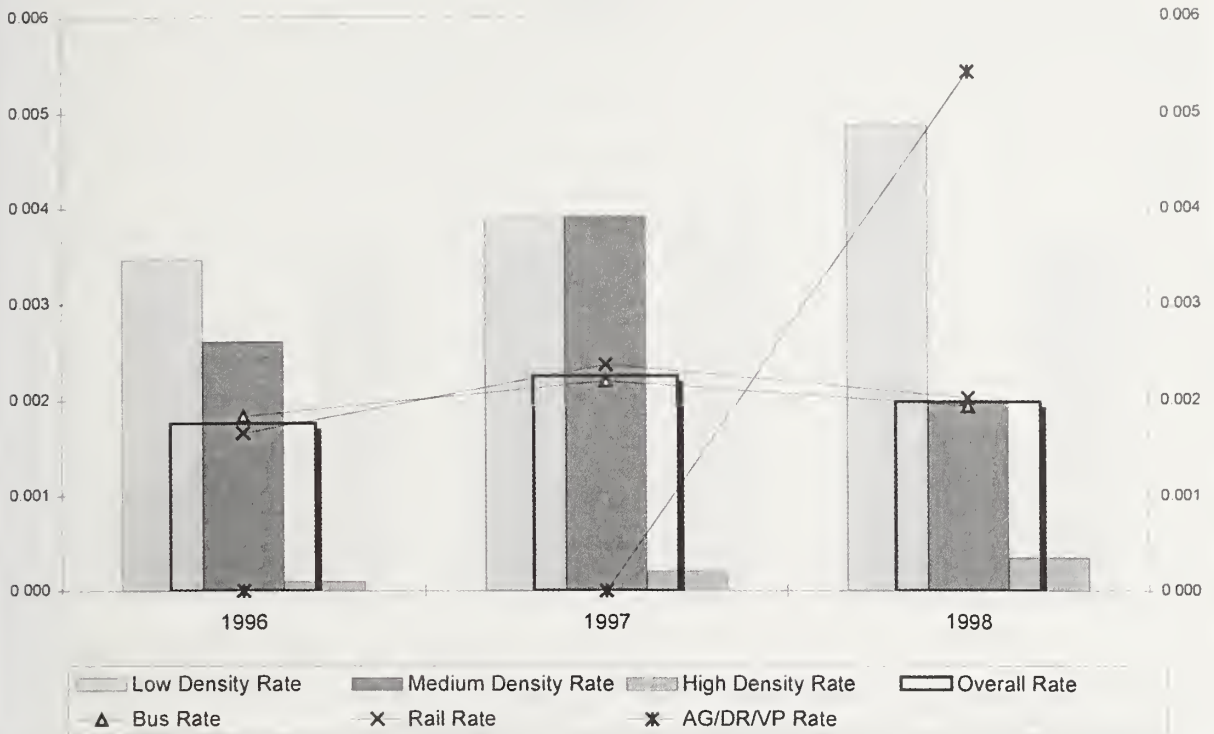
Drug Abuse Violations - By Mode Group and Population Density

per 100,000 Passengers
by Year



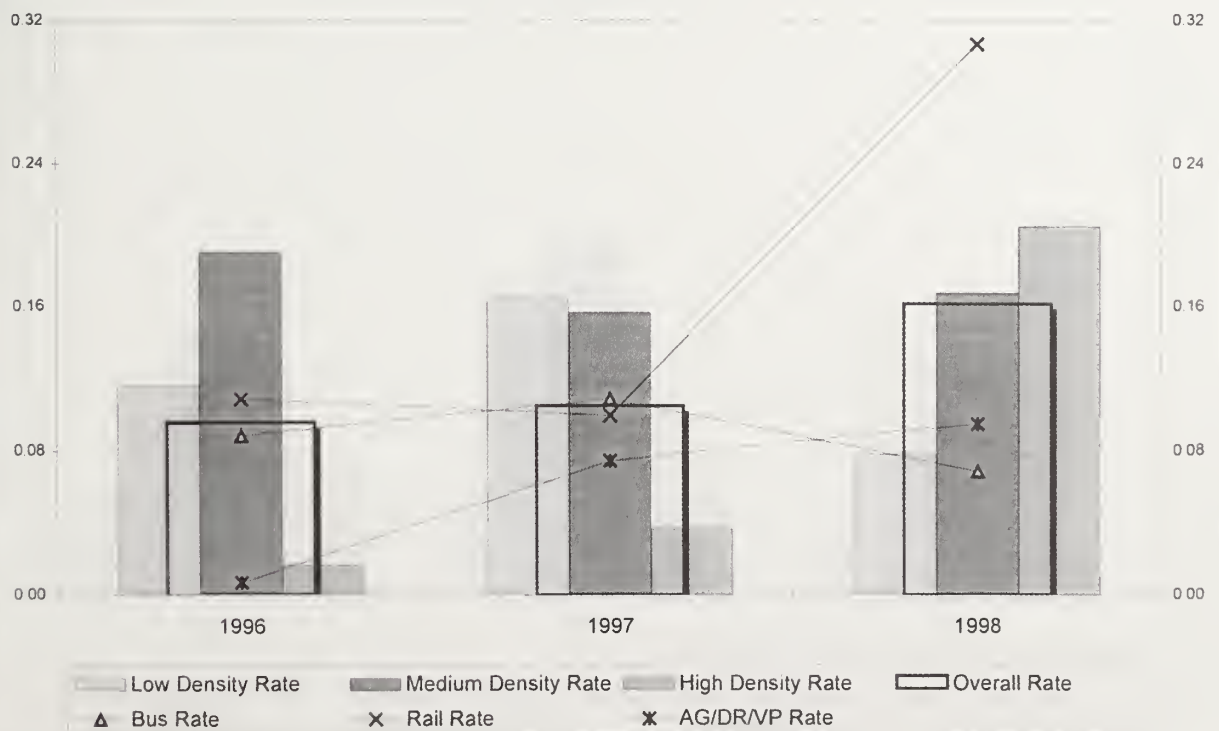
DUI - By Mode Group and Population Density

per 100,000 Passengers
by Year



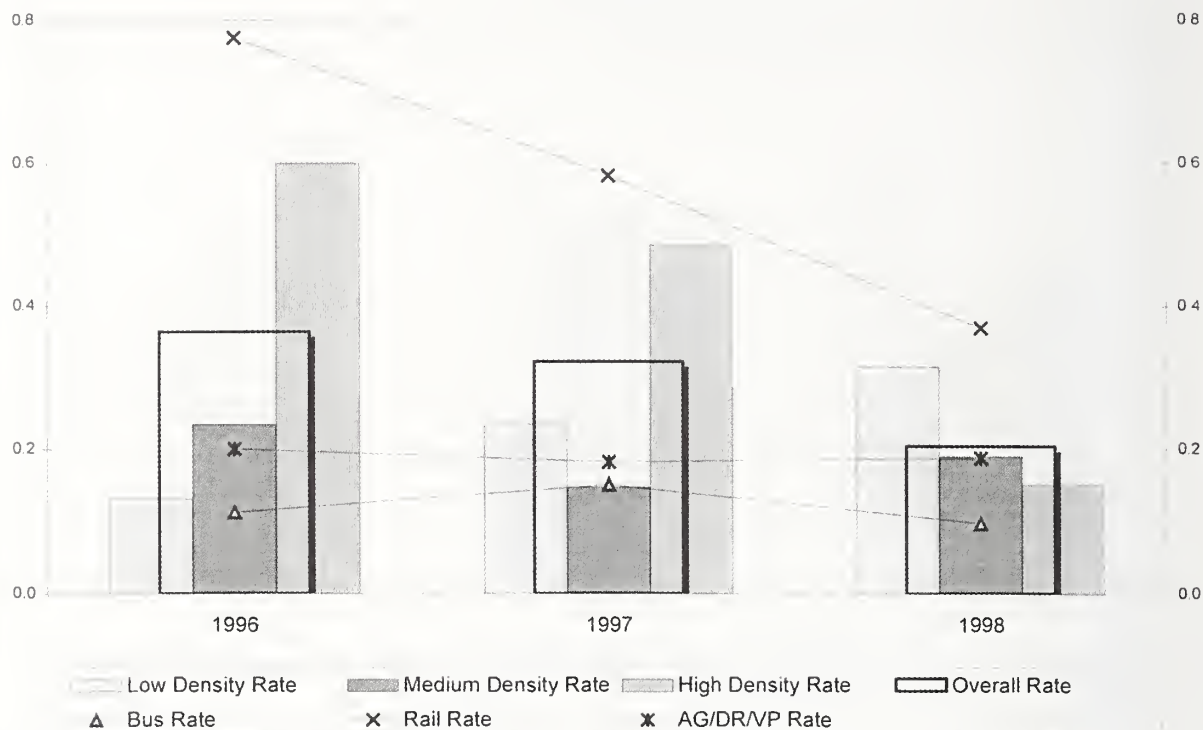
Drunkenness - By Mode Group and Population Density

per 100,000 Passengers
by Year



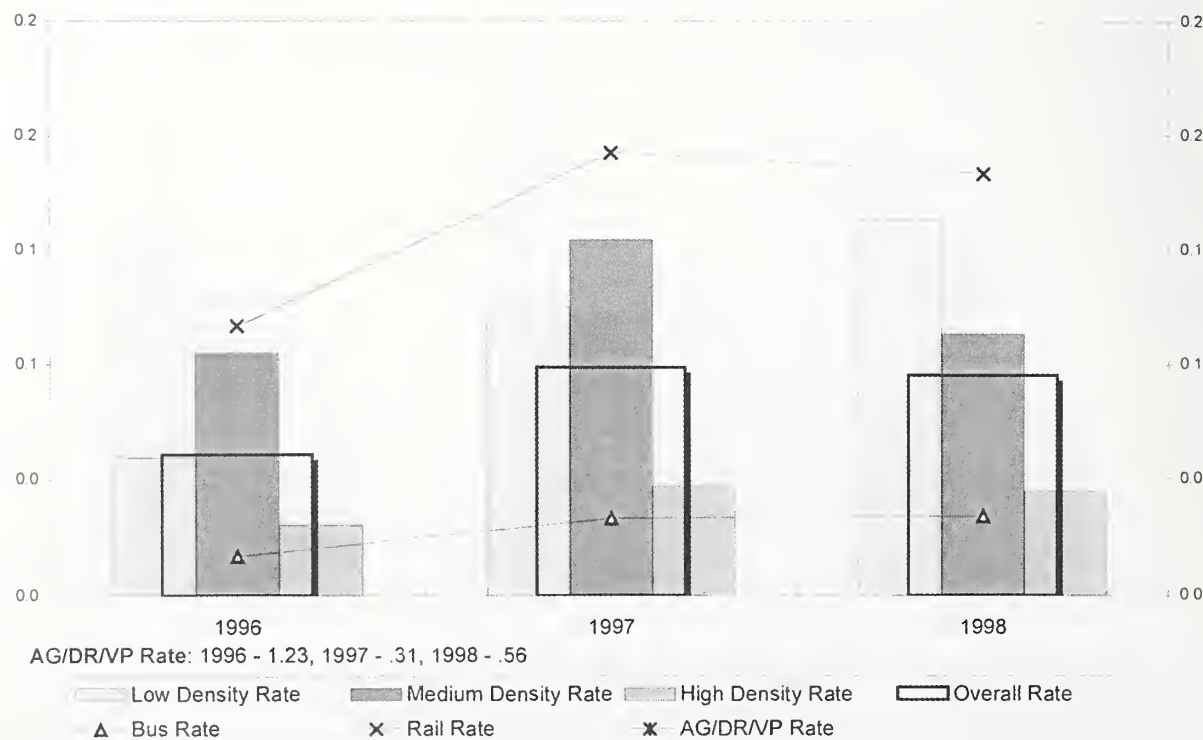
Disorderly Conduct - By Mode Group and Population Density

per 100,000 Passengers
by Year



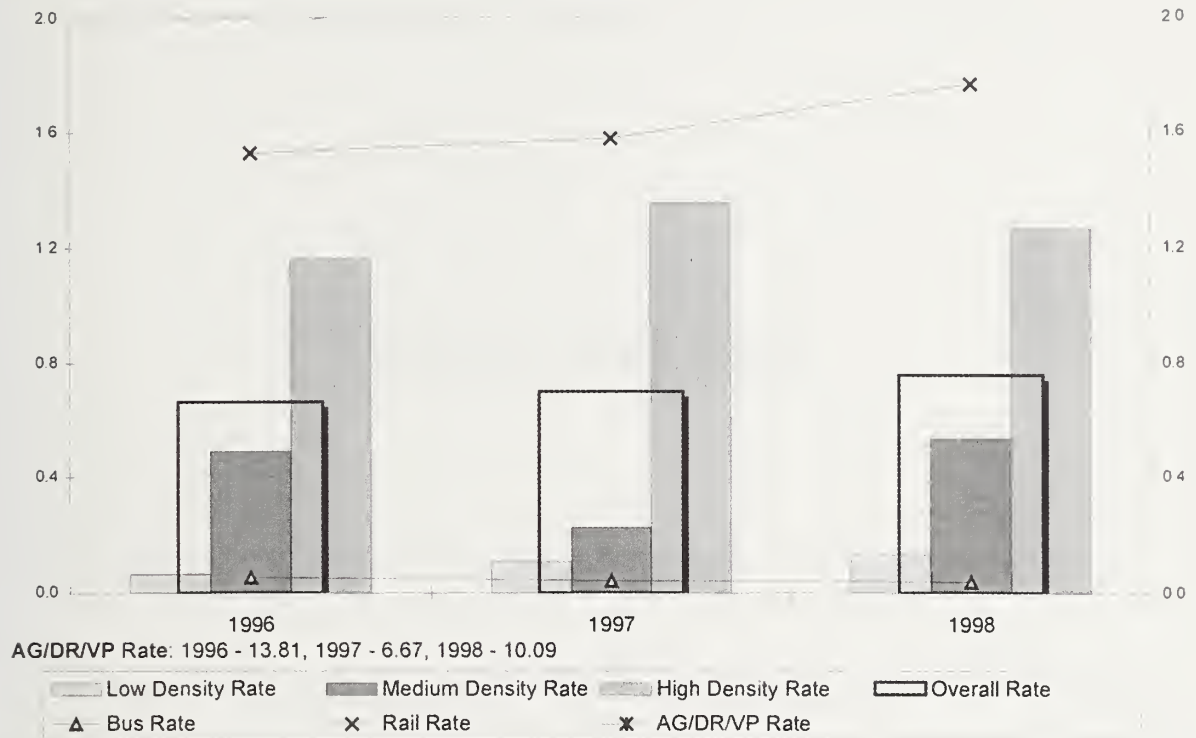
Trespassing - By Mode Group and Population Density

per 100,000 Passengers
by Year



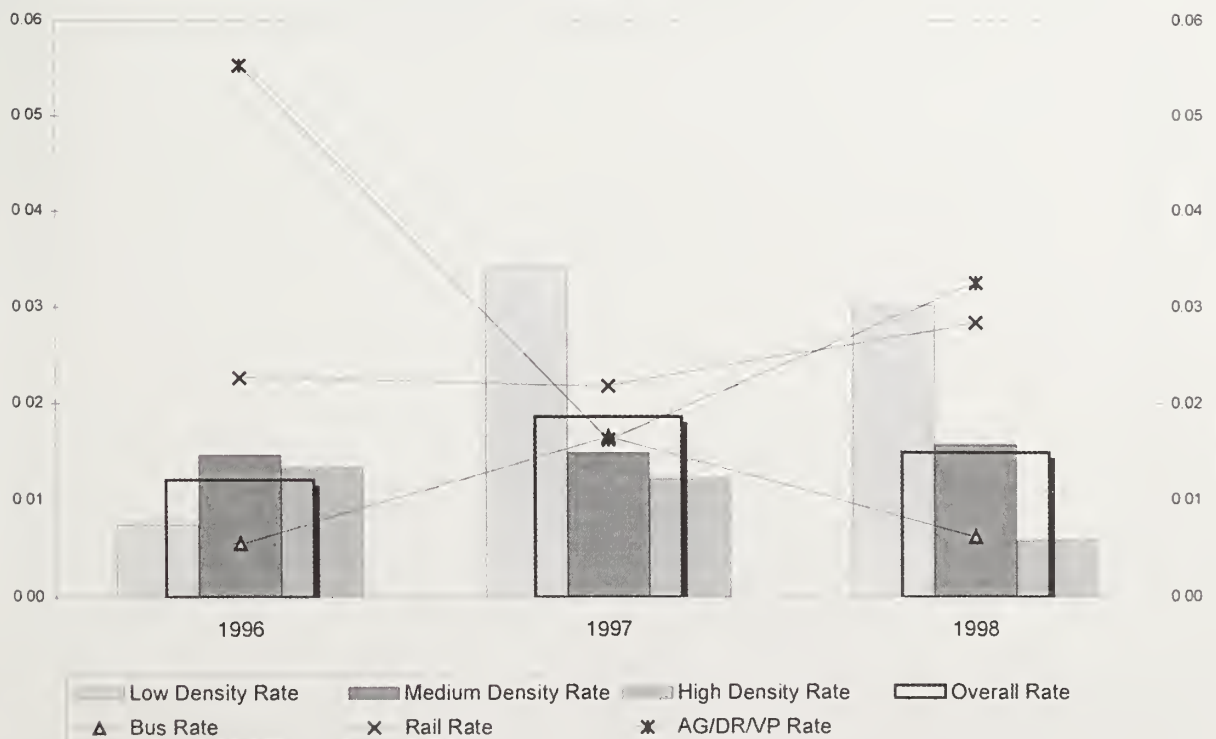
Fare Evasion - By Mode Group and Population Density

per 100,000 Passengers
by Year



Curfew/Loitering Laws - By Mode Group and Population Density

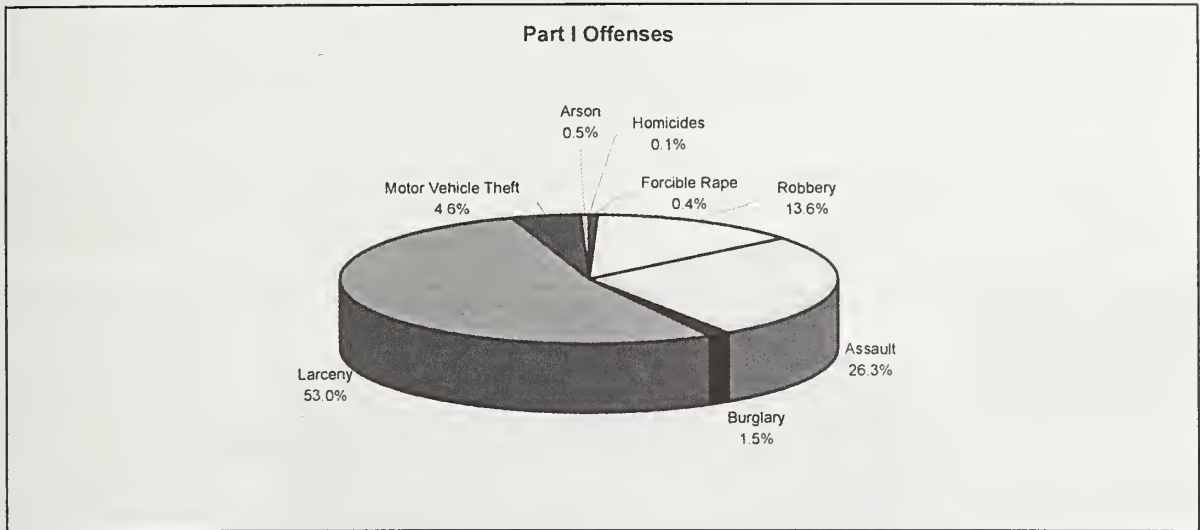
per 100,000 Passengers
by Year



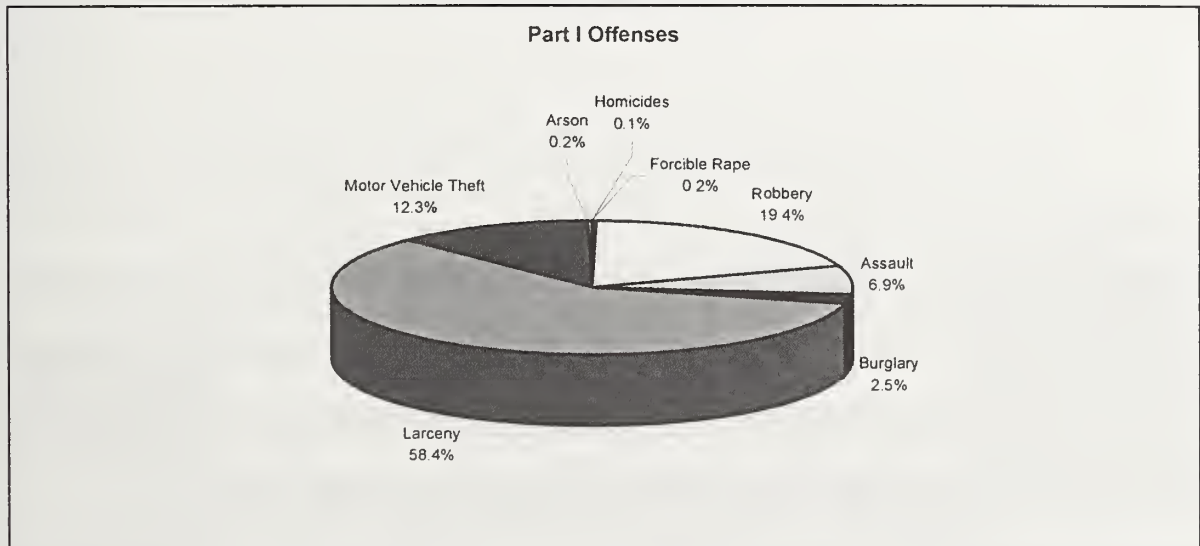
1998 Security Data

Reports of Transit Crime - Part I Offenses

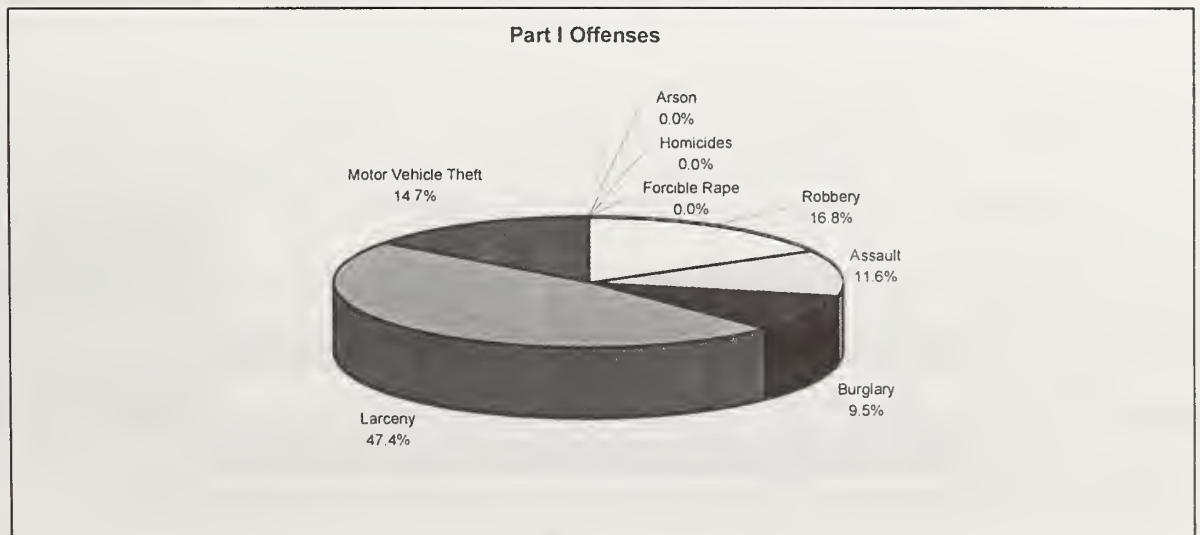
Bus



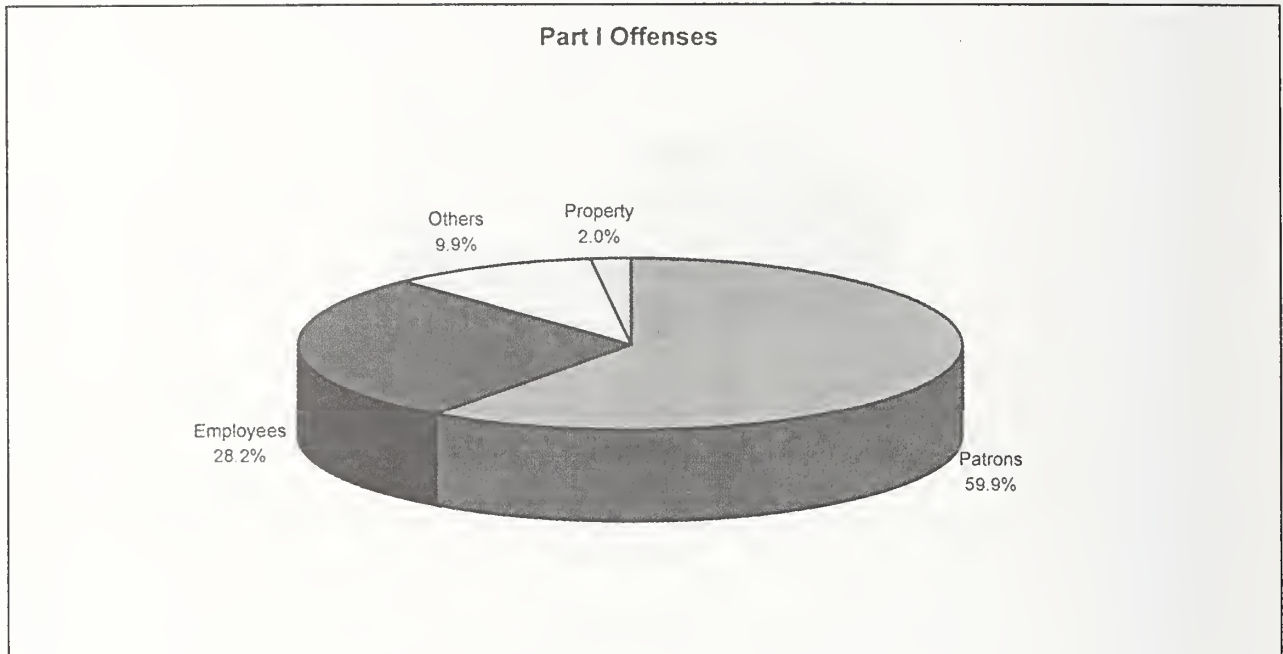
Rail



Automated Guideway, Demand Response, Vanpool



Victims of Transit Crime Bus



Total of Part I Offenses

Part I Offenses	Patrons			Employees			Others			Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	2	1	1	1	0	0	0	1	0			
Forcible Rape	7	1	1	0	2	0	4	1	0			
Robbery	363	57	8	109	9	4	69	0	0			
Aggravated Assault	462	173	24	273	214	16	28	4	0			
Burglary										46	24	0
Larceny/Theft	1179	240	53	496	125	4	291	19	0			
Motor Vehicle Theft	154	52	1	20	9	0	28	3	0			
Arson										13	7	1

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	0	1	0	0	0	0	0	0	0			
Forcible Rape	0	0	0	0	2	0	0	0	0			
Robbery	128	1	0	59	0	0	0	0	0			
Aggravated Assault	153	15	0	72	109	2	0	0	0			
Burglary										0	1	0
Larceny/Theft	640	4	0	140	33	0	19	1	0			
Motor Vehicle Theft	0	0	0	0	0	0	0	0	0			
Arson										0	0	0

* 18 agencies (1.48 billion passengers or 31.5%) operating buses with high population density reported Security data

Victims of Transit Crime Bus

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	0	0	1	0	0	0	0	1	0			
Forcible Rape	3	0	1	0	0	0	0	1	0			
Robbery	141	26	1	28	4	0	3	0	0			
Aggravated Assault	177	108	13	140	62	3	4	1	0			
Burglary										34	16	0
Larceny/Theft	316	112	52	149	63	1	25	9	0			
Motor Vehicle Theft	40	29	1	11	5	0	1	3	0			
Arson										6	1	1

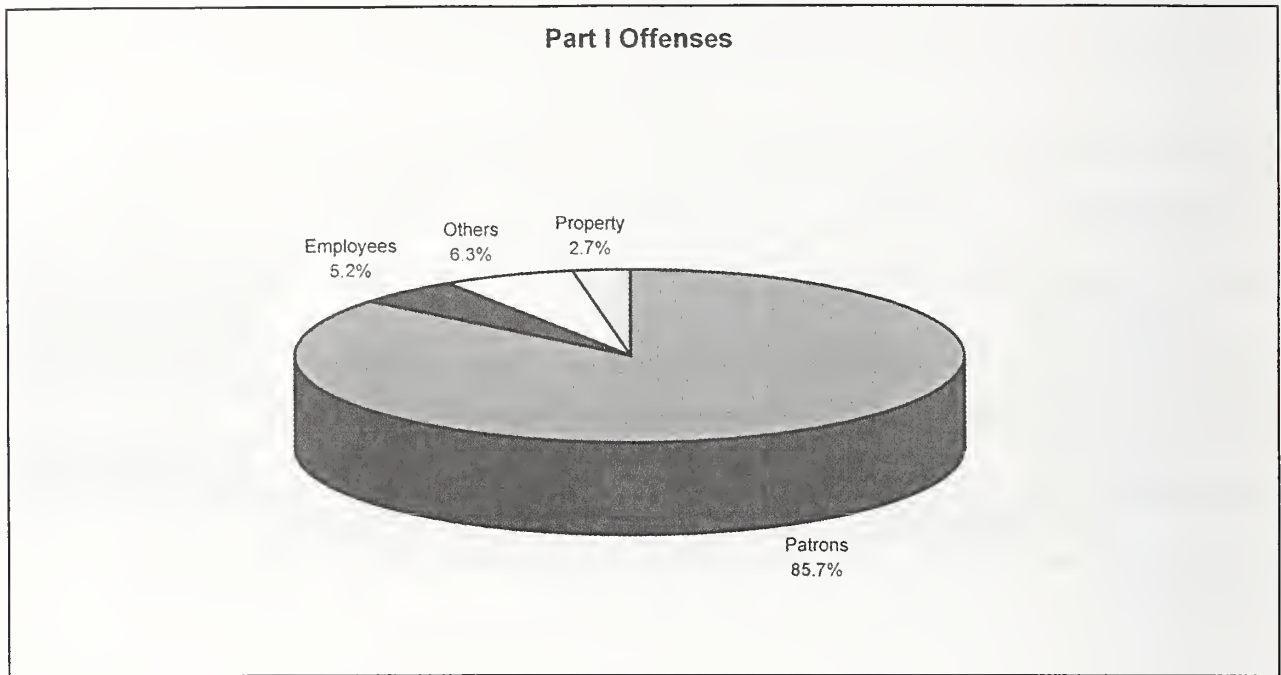
* 159 agencies (1.7 billion passengers or 36.2%) operating buses with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	2	0	0	1	0	0	0	0	0			
Forcible Rape	4	1	0	0	0	0	4	0	0			
Robbery	94	30	7	22	5	4	66	0	0			
Aggravated Assault	132	50	11	61	43	11	24	3	0			
Burglary										12	7	0
Larceny/Theft	223	124	1	207	29	3	247	9	0			
Motor Vehicle Theft	114	23	0	9	4	0	27	0	0			
Arson										7	6	0

* 174 agencies (1.52 billion passengers or 32.3%) operating buses with low population density reported Security data

Victims of Transit Crime Rail



Total of Part I Offenses

Part I Offenses	Patrons			Employees			Others			Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	6	3	1	0	0	0	0	1			
Forcible Rape	0	20	2	0	3	0	1	1	0			
Robbery	81	2615	208	11	10	6	33	61	6			
Aggravated Assault	47	781	137	23	48	20	8	8	13			
Burglary										207	110	70
Larceny/Theft	1029	6307	376	171	389	89	644	111	31			
Motor Vehicle Theft	425	1234	273	17	19	8	69	5	2			
Arson										9	27	2

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	3	0	0	0	0	0	0	0			
Forcible Rape	0	18	0	0	3	0	0	0	0			
Robbery	12	2251	0	0	4	6	1	7	0			
Aggravated Assault	2	585	2	1	13	1	0	0	0			
Burglary										58	45	0
Larceny/Theft	501	5026	2	49	237	7	148	41	0			
Motor Vehicle Theft	13	498	0	4	3	0	0	1	0			
Arson										0	22	0

* 9 agencies (1.9 billion passengers or 65%) operating 9 rail modes with high population density reported Security data

Victims of Transit Crime Rail

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	2	1	1	0	0	0	0	0			
Forcible Rape	0	1	0	0	0	0	0	0	0			
Robbery	30	201	124	5	4	0	5	0	4			
Aggravated Assault	38	145	87	8	35	8	4	0	12			
Burglary										72	47	70
Larceny/Theft	185	759	272	52	125	15	48	18	19			
Motor Vehicle Theft	274	485	190	2	16	0	5	0	2			
Arson										2	3	2

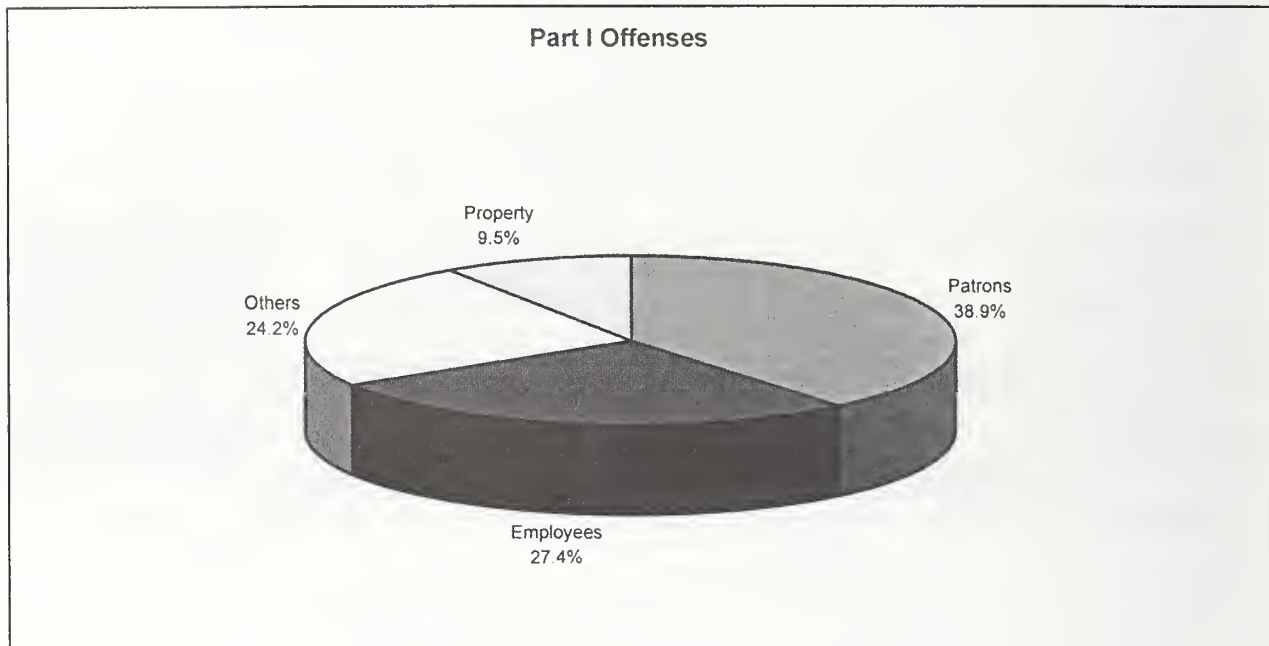
* 13 agencies (.65 billion passengers or 20%) operating 17 rail modes with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	1	2	0	0	0	0	0	1			
Forcible Rape	0	1	2	0	0	0	1	1	0			
Robbery	39	163	84	6	2	0	27	54	2			
Aggravated Assault	7	51	48	14	0	11	4	8	1			
Burglary										67	18	0
Larceny/Theft	343	522	102	70	27	67	448	52	12			
Motor Vehicle Theft	138	251	83	11	0	8	64	4	0			
Arson										7	2	0

* 12 agencies (.41 billion passengers or 15%) operating 16 rail modes with low population density reported Security data

Victims of Transit Crime Automated Guideway, Demand Response, Vanpool



Total of Part I Offenses

Part I Offenses	Patrons			Employees			Others			Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide	0	0	0	0	0	0	0	0	0			
Forcible Rape	0	0	0	0	0	0	0	0	0			
Robbery	16	0	0	0	0	0	0	0	0			
Aggravated Assault	5	3	0	1	1	0	0	1	0			
Burglary										5	2	2
Larceny/Theft	11	1	0	11	6	0	12	4	0			
Motor Vehicle Theft	5	6	3	5	2	0	0	3	3			
Arson										0	0	0

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide	0	0		0	0		0	0				
Forcible Rape	0	0		0	0		0	0				
Robbery	16	0		0	0		0	0				
Aggravated Assault	5	0		1	0		0	0				
Burglary										5	0	
Larceny/Theft	11	0		11	0		12	0				
Motor Vehicle Theft	5	0		5	0		0	0				
Arson										0	0	

* 7 agencies (7 million passengers or 19%) operating 8 AG/DR/VP modes with high population density reported Security data

Victims of Transit Crime

Automated Guideway, Demand Response, Vanpool

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide	0	0	0	0	0	0	0	0	0			
Forcible Rape	0	0	0	0	0	0	0	0	0			
Robbery	0	0	0	0	0	0	0	0	0			
Aggravated Assault	0	0	0	0	0	0	0	0	0			
Burglary										1	1	0
Larceny/Theft	0	1	0	0	2	0	0	0	0			
Motor Vehicle Theft	0	3	0	0	0	0	0	2	0			
Arson										0	0	0

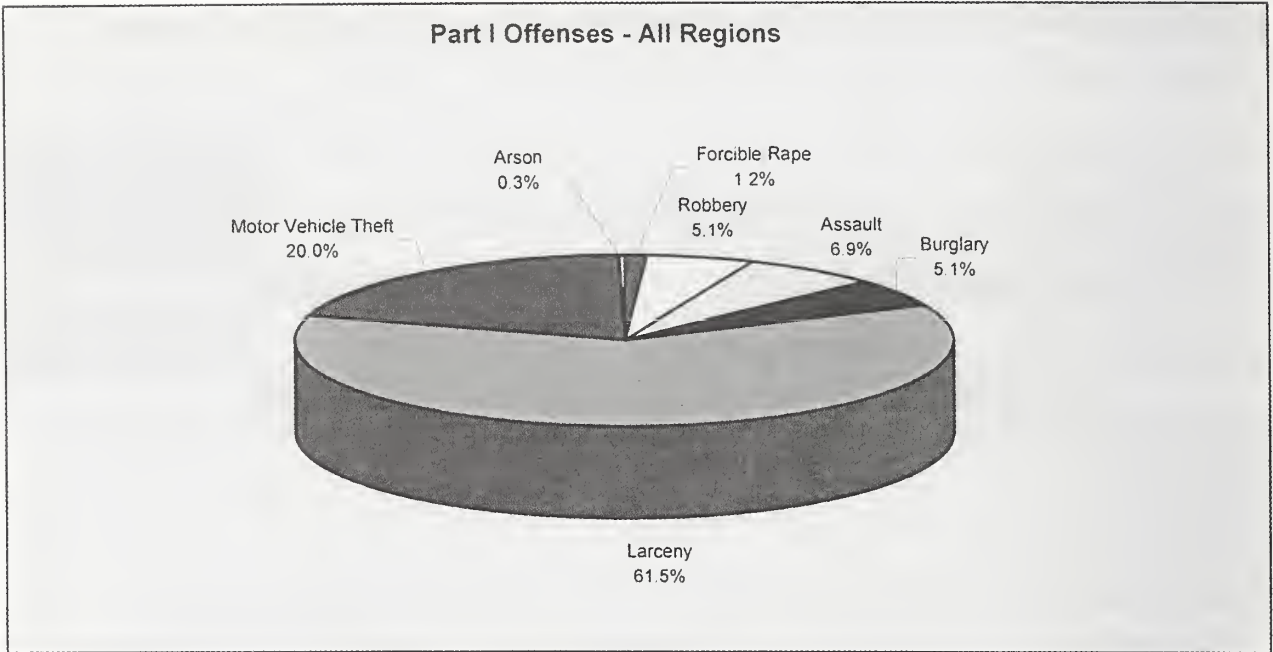
* 86 agencies (9 million passengers or 24%) operating 90 AG/DR/VP modes with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide		0	0		0	0		0	0			
Forcible Rape		0	0		0	0		0	0			
Robbery		0	0		0	0		0	0			
Aggravated Assault		3	0		1	0		1	0			
Burglary											2	2
Larceny/Theft		0	0		4	0		4	0			
Motor Vehicle Theft		3	3		2	0		1	3			
Arson											0	0

* 131 agencies (21 million passengers or 57%) operating 139 AG/DR/VP modes with low population density reported Security data

Victims of Transit Crime Purchased Transportation - All Modes

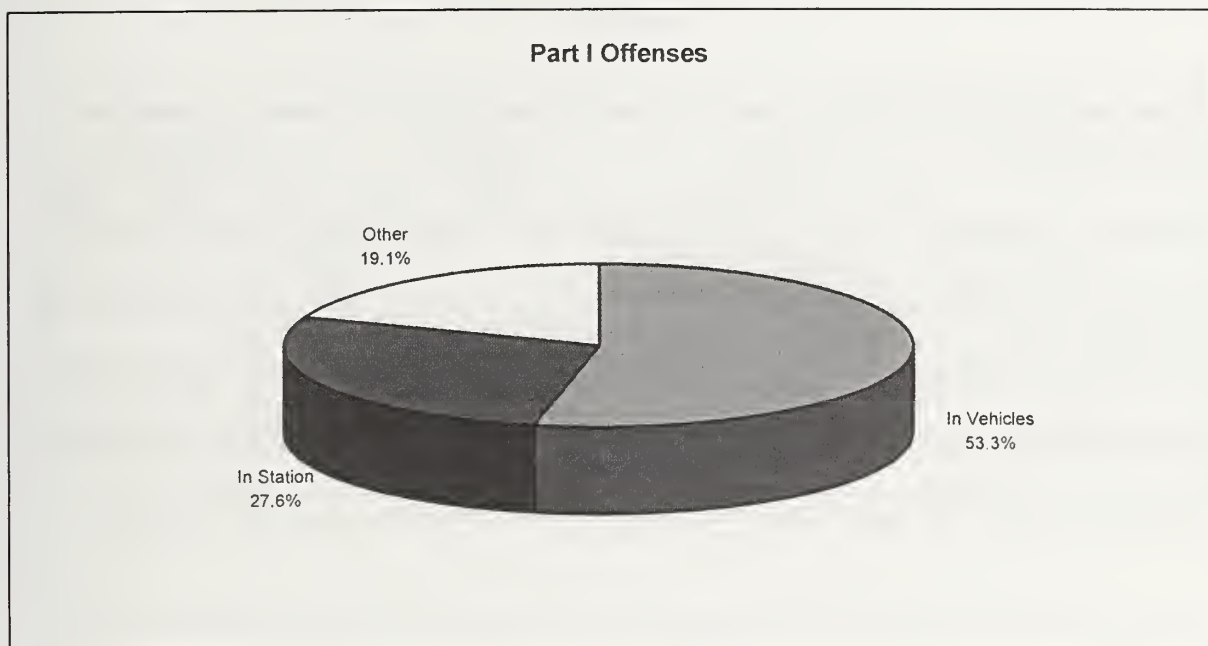


Total of Part I Offenses - Purchased Transportation

Part I Offenses	Patrons				Employees				Others				Property			
	CR	DR	MB	FB	CR	DR	MB	FB	CR	DR	MB	FB	CR	DR	MB	FB
Homicide	0	0	0	0	0	0	0	0	0	0	0	0				
Forcible Rape	0	4	0	0	0	0	0	0	0	0	0	0				
Robbery	6	0	5	0	0	1	2	0	2	0	1	0				
Aggravated Assault	1	0	3	0	1	8	10	0	0	0	0	0				
Burglary													10	1	5	1
Larceny/Theft	147	0	15	0	8	3	6	0	22	1	1	0				
Motor Vehicle Theft	45	3	1	17	0	1	1	0	1	2	0	0				
Arson													1	0	0	0

Note: IP and PB modes reported no Offenses. MO (3 Larceny) and VP (1 Vehicle Theft) modes reported limited Offenses.

Location of Transit Crimes Bus



Total of Part I Offenses

Part I Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	2	1	0	1	1	0	0	0	1
Forcible Rape	0	3	0	2	1	0	9	0	1
Robbery	264	40	8	147	19	4	130	7	0
Aggravated Assault	538	362	23	153	24	17	72	5	0
Burglary	1	5	0	3	11	0	42	8	0
Larceny/Theft	954	201	4	695	118	10	317	65	43
Motor Vehicle Theft	4	3	0	10	30	0	140	19	1
Arson	2	5	1	7	1	0	4	1	0

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	0	1	0	0	0	0	0	0	0
Forcible Rape	0	2	0	0	0	0	0	0	0
Robbery	121	1	0	62	0	0	4	0	0
Aggravated Assault	205	124	2	20	0	0	0	0	0
Burglary	0	1	0	0	0	0	0	0	0
Larceny/Theft	451	31	0	347	7	0	1	0	0
Motor Vehicle Theft	0	0	0	0	0	0	0	0	0
Arson	0	0	0	0	0	0	0	0	0

* 18 agencies (1.48 billion passengers or 31.5%) operating buses with high population density reported Security data

Location of Transit Crimes Bus

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	0	0	0	0	1	0	0	0	1
Forcible Rape	0	1	0	2	0	0	1	0	1
Robbery	97	18	1	63	10	0	12	2	0
Aggravated Assault	226	151	7	69	17	9	26	3	0
Burglary	1	0	0	1	10	0	32	6	0
Larceny/Theft	286	98	2	94	72	10	110	14	41
Motor Vehicle Theft	1	0	0	1	25	0	38	4	1
Arson	2	1	1	2	0	0	2	0	0

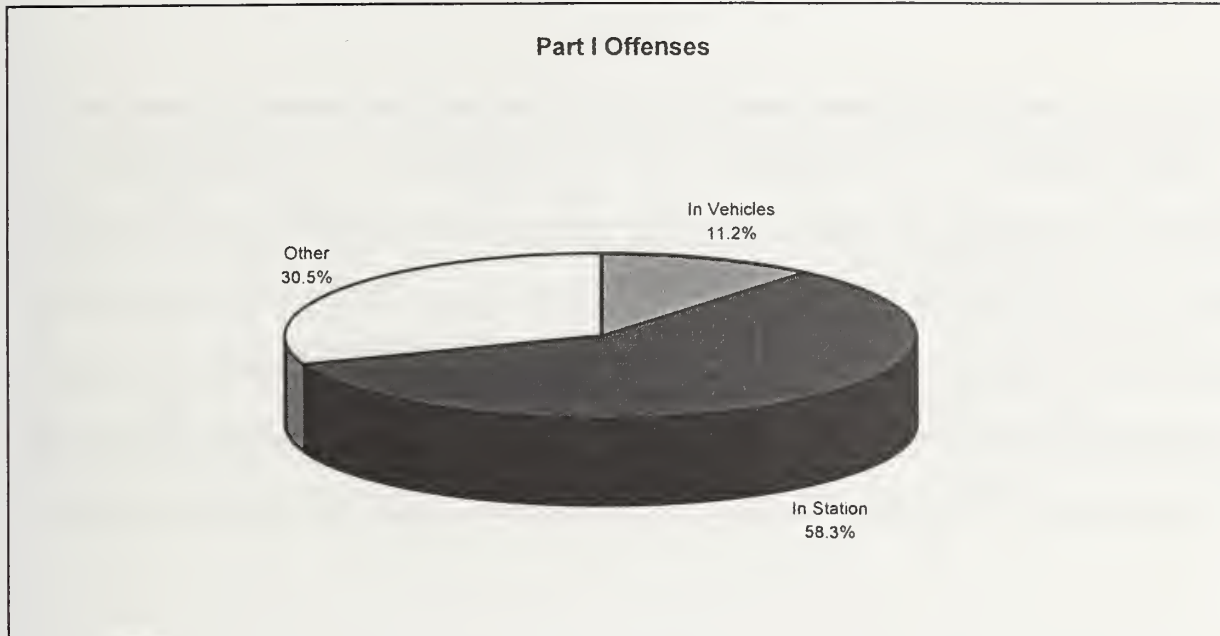
* 159 agencies (1.7 billion passengers or 36.2%) operating buses with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	2	0	0	1	0	0	0	0	0
Forcible Rape	0	0	0	0	1	0	8	0	0
Robbery	46	21	7	22	9	4	114	5	0
Aggravated Assault	107	87	14	64	7	8	46	2	0
Burglary	0	4	0	2	1	0	10	2	0
Larceny/Theft	217	72	2	254	39	0	206	51	2
Motor Vehicle Theft	3	3	0	9	5	0	102	15	0
Arson	0	4	0	5	1	0	2	1	0

* 174 agencies (1.52 billion passengers or 32.3%) operating buses with low population density reported Security data

Location of Transit Crimes Rail



Total of Part I Offenses

Part I Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	0	1	0	4	1	1	2	2
Forcible Rape	0	0	0	1	21	0	0	3	2
Robbery	11	159	42	97	2306	139	17	221	39
Aggravated Assault	12	60	22	51	678	136	15	99	12
Burglary	2	11	0	96	63	38	109	36	32
Larceny/Theft	639	689	79	827	3940	306	378	2178	111
Motor Vehicle Theft	13	1	0	241	49	125	171	1184	148
Arson	0	9	0	2	5	2	7	13	0

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	0	0	0	1	0	0	2	0
Forcible Rape	0	0	0	0	18	0	0	3	0
Robbery	3	112	4	9	1977	2	1	173	0
Aggravated Assault	1	39	3	2	480	0	0	79	0
Burglary	0	5	0	21	24	0	47	16	0
Larceny/Theft	311	482	8	255	3362	1	132	1460	0
Motor Vehicle Theft	0	0	0	10	0	0	3	498	0
Arson	0	8	0	0	2	0	0	12	0

* 9 agencies (1.9 billion passengers or 65%) operating 9 rail modes with high population density reported Security data

Location of Transit Crimes Rail

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	0	0	0	2	1	1	0	0
Forcible Rape	0	0	0	0	1	0	0	0	0
Robbery	3	13	29	27	164	85	10	28	14
Aggravated Assault	8	13	17	35	152	81	7	15	9
Burglary	2	6	0	25	30	38	45	11	32
Larceny/Theft	47	81	52	160	327	176	78	494	78
Motor Vehicle Theft	0	0	0	146	45	116	128	440	74
Arson	0	1	0	0	1	2	2	1	0

* 13 agencies (.65 billion passengers or 20%) operating 17 rail modes with medium population density reported Security data

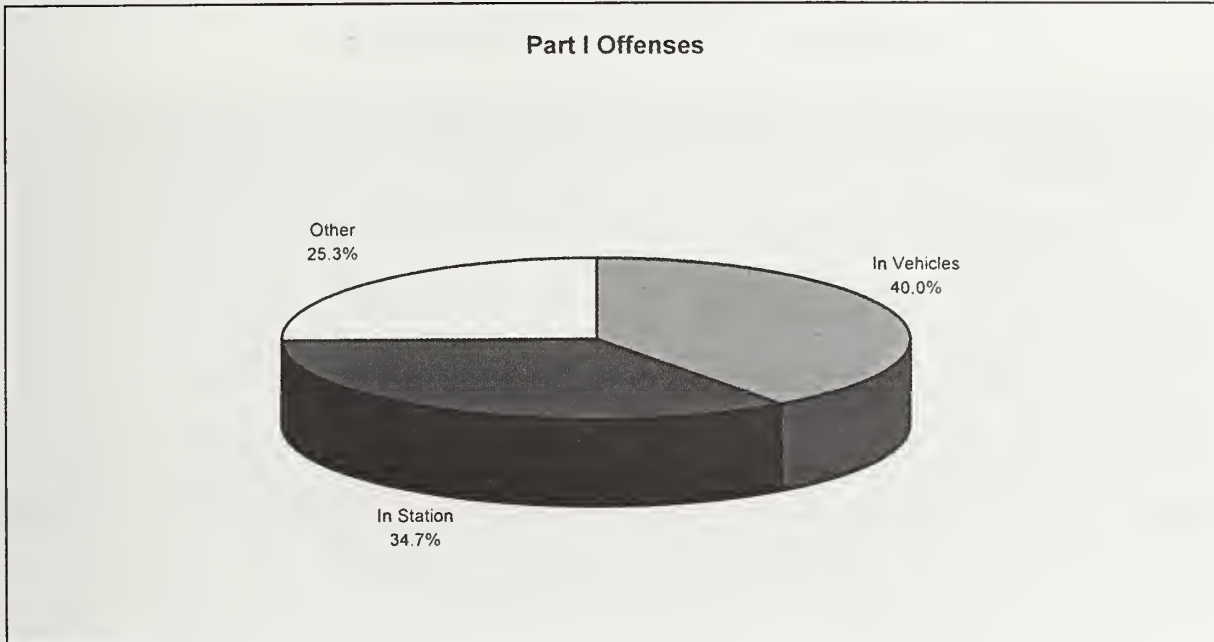
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	0	1	0	1	0	0	0	2
Forcible Rape	0	0	0	1	2	0	0	0	2
Robbery	5	34	9	61	165	52	6	20	25
Aggravated Assault	3	8	2	14	46	55	8	5	3
Burglary	0	0	0	50	9	0	17	9	0
Larceny/Theft	281	126	19	412	251	129	168	224	33
Motor Vehicle Theft	13	1	0	85	4	9	40	246	74
Arson	0	1	0	2	2	0	5	0	0

* 12 agencies (.41 billion passengers or 15%) operating 16 rail modes with low population density reported Security data

Location of Transit Crimes

Automated Guideway, Demand Response, Vanpool



Total of Part I Offenses

Part I Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide	0	0	0	0	0	0	0	0	0
Forcible Rape	0	0	0	0	0	0	0	0	0
Robbery	6	0	0	9	0	0	1	0	0
Aggravated Assault	2	3	0	4	1	0	0	1	0
Burglary	0	1	2	4	0	0	1	1	0
Larceny/Theft	10	8	0	12	2	0	12	1	0
Motor Vehicle Theft	0	3	3	0	1	0	5	2	0
Arson	0	0	0	0	0	0	0	0	0

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide	0	0		0	0		0	0	
Forcible Rape	0	0		0	0		0	0	
Robbery	6	0		9	0		1	0	
Aggravated Assault	2	0		4	0		0	0	
Burglary	0	0		4	0		1	0	
Larceny/Theft	10	0		12	0		12	0	
Motor Vehicle Theft	0	0		0	0		5	0	
Arson	0	0		0	0		0	0	

* 7 agencies (7 million passengers or 19%) operating 8 AG/DR/VP modes with high population density reported Security data

Location of Transit Crimes Automated Guideway, Demand Response, Vanpool

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide	0	0	0	0	0	0	0	0	0
Forcible Rape	0	0	0	0	0	0	0	0	0
Robbery	0	0	0	0	0	0	0	0	0
Aggravated Assault	0	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0	0
Larceny/Theft	0	1	0	0	1	0	0	1	0
Motor Vehicle Theft	0	0	0	0	1	0	0	2	0
Arson	0	0	0	0	0	0	0	0	0

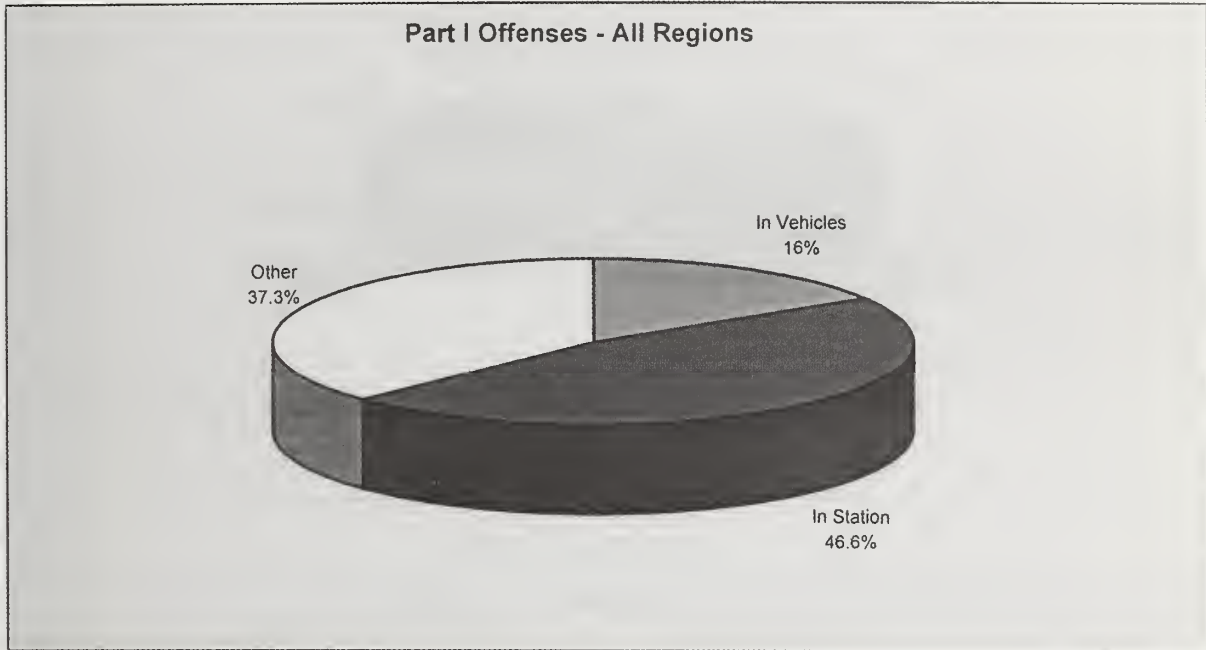
* 86 agencies (9 million passengers or 24%) operating 90 AG/DR/VP modes with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Homicide		0	0		0	0		0	0
Forcible Rape		0	0		0	0		0	0
Robbery		0	0		0	0		0	0
Aggravated Assault		3	0		1	0		1	0
Burglary		1	2		0	0		1	0
Larceny/Theft		7	0		1	0		0	0
Motor Vehicle Theft		3	3		0	0		0	0
Arson		0	0		0	0		0	0

* 131 agencies (21 million passengers or 57%) operating 139 AG/DR/VP modes with low population density reported Security data

Location of Transit Crimes Purchased Transportation - All Modes



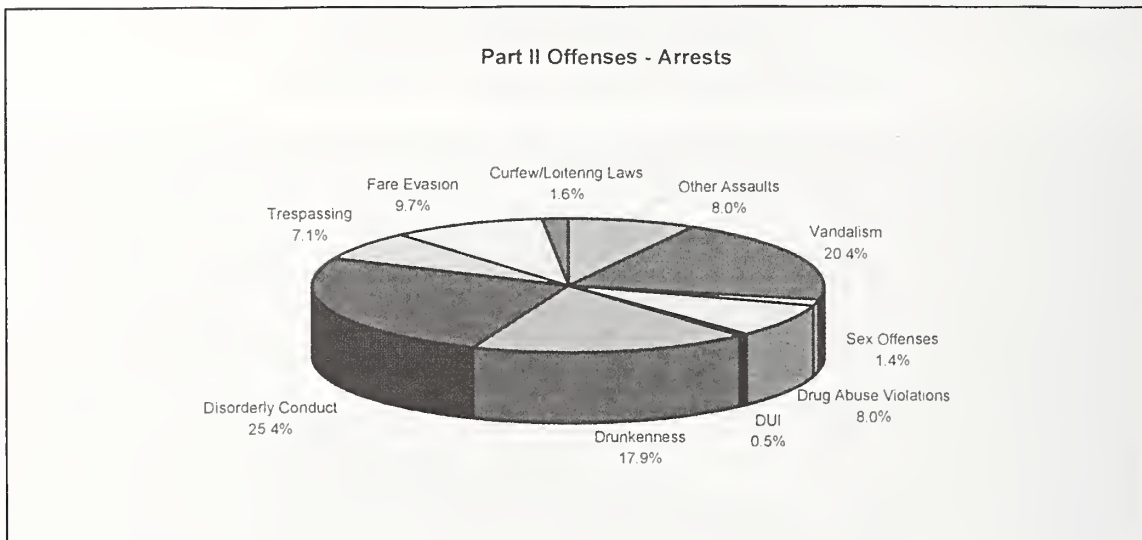
Total of Part I Offenses

Part I Offenses	In Vehicle				In Station				Other Property			
	CR	DR	MB	FB	CR	DR	MB	FB	CR	DR	MB	FB
Homicide	0	0	0	0	0	0	0	0	0	0	0	0
Forcible Rape	0	4	0	0	0	0	0	0	0	0	0	0
Robbery	0	1	8	0	8	0	0	0	0	0	0	0
Aggravated Assault	0	7	11	0	1	0	2	0	1	1	0	0
Burglary	1	1	0	0	8	0	1	0	1	0	4	1
Larceny/Theft	10	0	10	0	97	0	12	0	70	4	0	0
Motor Vehicle Theft	0	1	0	0	22	0	1	0	23	2	0	17
Arson	0	0	0	0	1	0	0	0	0	0	0	0

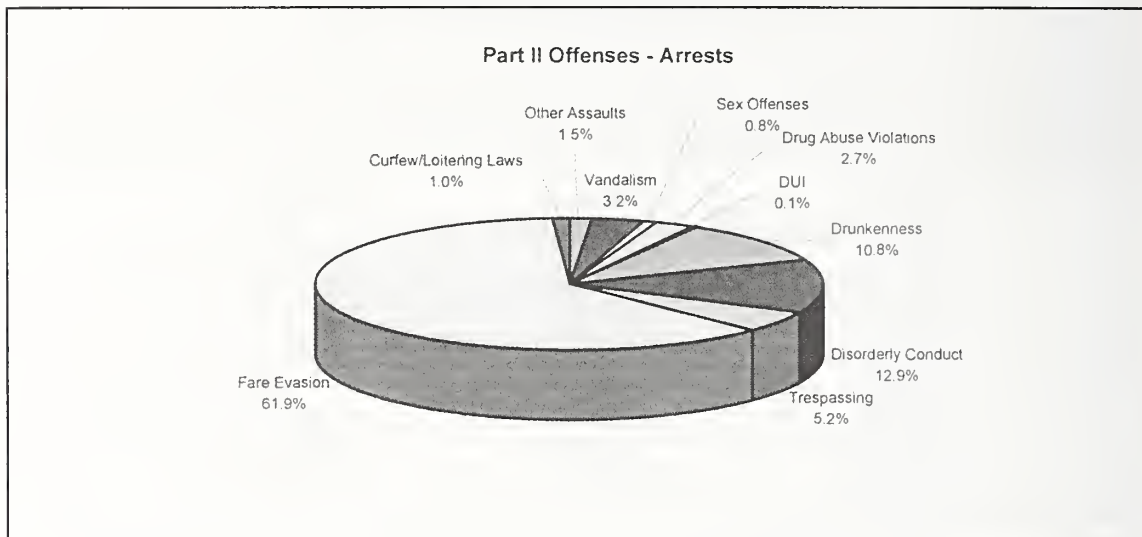
Note: IP and PB modes reported no Offenses. MO (3 Larceny) and VP (1 Vehicle Theft) modes reported limited Offenses.

Transit Crime Arrests - Part II Offenses

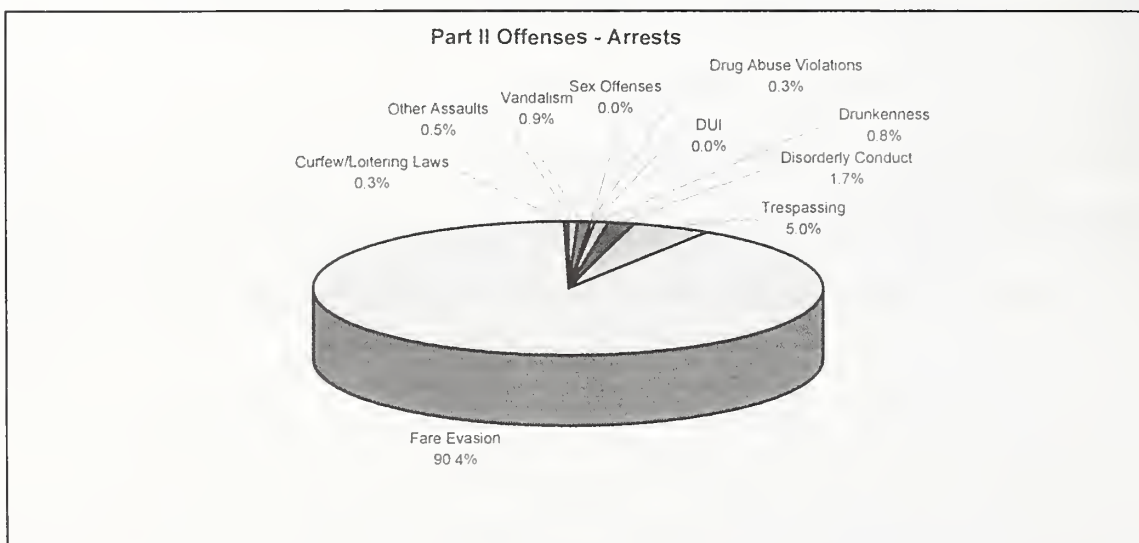
Bus



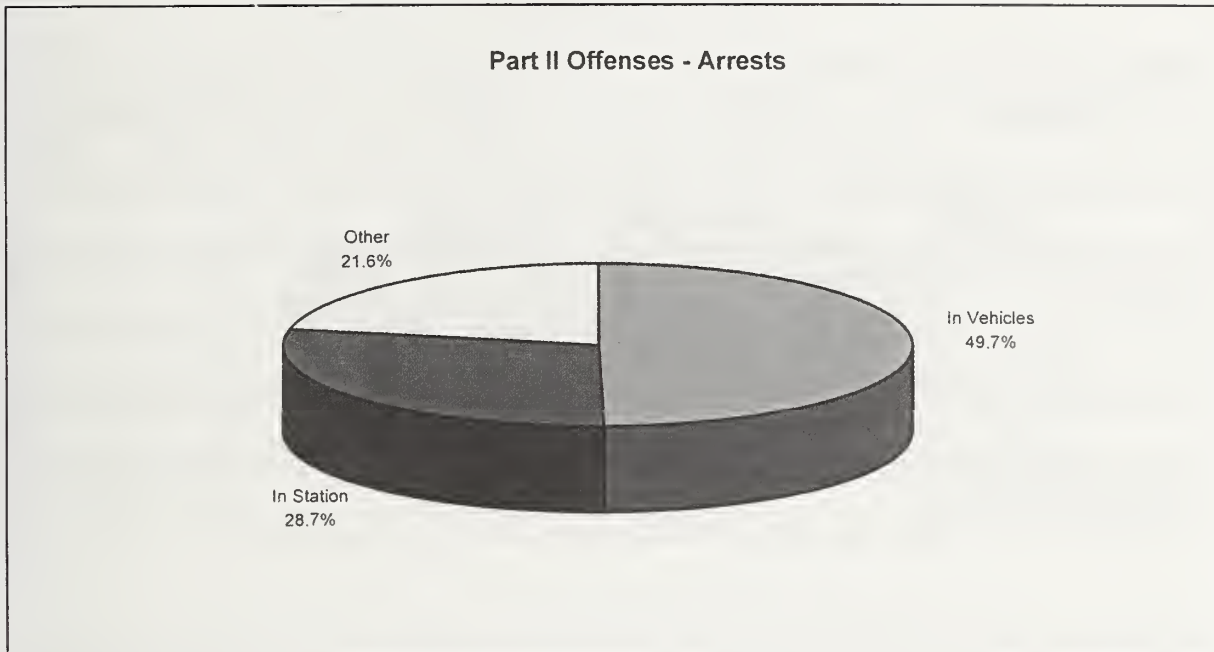
Rail



Automated Guideway, Demand Response, Vanpool



Transit Arrest Locations Bus



Total of Part II Offenses

Part II Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Other Assaults	755	263	31	139	54	20	162	23	5
Vandalism	400	732	83	406	1817	14	197	37	14
Sex Offenses	43	27	1	21	2	6	157	1	0
Drug Abuse Violations	103	49	4	249	113	10	877	44	0
DUI	21	2	2	2	0	0	62	2	0
Drunkenness	914	615	67	280	715	114	280	244	13
Disorderly Conduct	2101	761	75	343	211	83	982	61	2
Trespassing	244	23	2	221	147	79	331	241	0
Fare Evasion	1400	259	7	33	5	0	65	1	0
Curfew/Loitering Laws	41	2	0	61	52	10	98	27	0

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Other Assaults	304	5	6	12	0	0	0	0	0
Vandalism	61	157	10	11	0	0	15	0	0
Sex Offenses	5	4	0	1	0	0	1	0	0
Drug Abuse Violations	37	4	2	3	0	0	3	0	0
DUI	0	0	0	0	0	0	0	0	0
Drunkenness	431	12	4	0	0	0	0	0	0
Disorderly Conduct	369	156	3	1	1	0	4	0	0
Trespassing	33	0	0	1	3	0	1	0	0
Fare Evasion	1245	95	1	12	0	0	58	0	0
Curfew/Loitering Laws	0	0	0	0	0	0	0	0	0

* 18 agencies (1.48 billion passengers or 31.5%) operating buses with high population density reported Security data

Transit Arrest Locations Bus

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Other Assaults	165	193	16	21	30	18	21	17	0
Vandalism	205	469	26	125	1802	11	10	34	9
Sex Offenses	21	18	0	6	1	5	12	1	0
Drug Abuse Violations	32	38	0	62	98	5	57	41	0
DUI	2	1	0	0	0	0	32	1	0
Drunkenness	232	429	14	37	628	35	25	241	0
Disorderly Conduct	856	330	28	24	143	64	66	27	0
Trespassing	46	11	1	7	31	74	64	227	0
Fare Evasion	106	132	0	1	5	0	3	0	0
Curfew/Loitering Laws	12	2	0	0	52	7	2	23	0

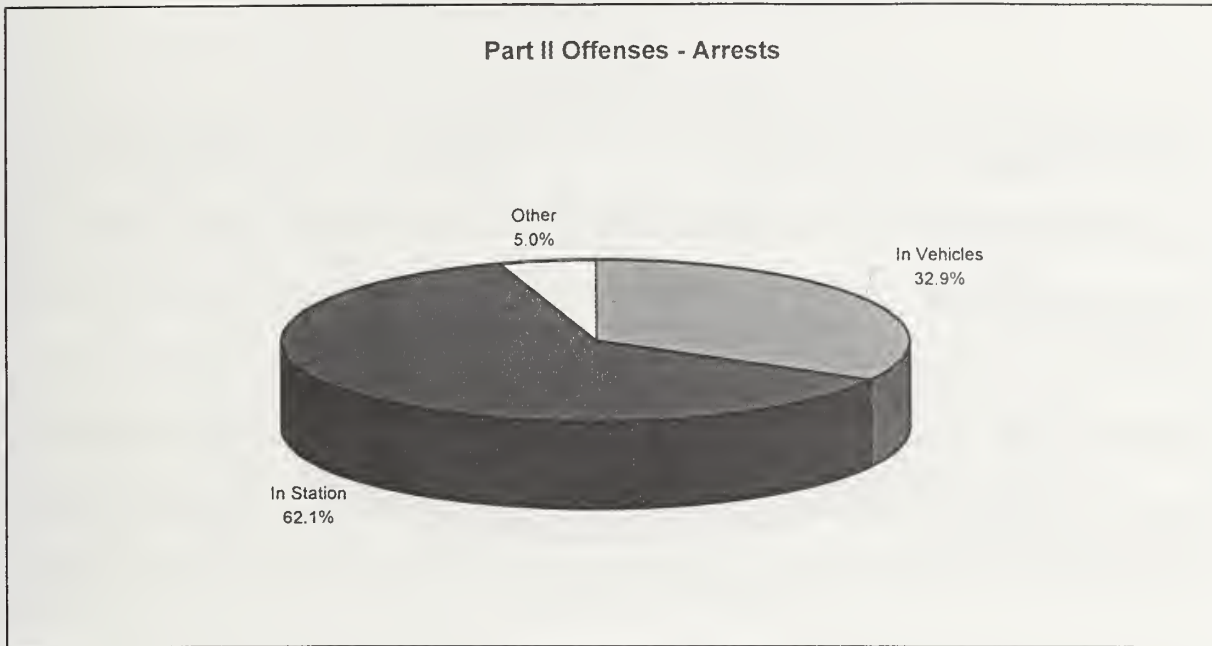
* 159 agencies (1.7 billion passengers or 36.2%) operating buses with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Other Assaults	286	65	9	106	24	2	141	6	5
Vandalism	134	106	47	270	15	3	172	3	5
Sex Offenses	17	5	1	14	1	1	144	0	0
Drug Abuse Violations	34	7	2	184	15	5	817	3	0
DUI	19	1	2	2	0	0	30	1	0
Drunkenness	251	174	49	243	87	79	255	3	13
Disorderly Conduct	876	275	44	318	67	19	912	34	2
Trespassing	165	12	1	213	113	5	266	14	0
Fare Evasion	49	32	6	20	0	0	4	1	0
Curfew/Loitering Laws	29	0	0	61	0	3	96	4	0

* 174 agencies (1.52 billion passengers or 32.3%) operating buses with low population density reported Security data

Transit Arrest Locations Rail



Total of Part II Offenses

Part II Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Other Assaults	24	197	71	65	634	191	21	67	20
Vandalism	27	281	273	434	705	560	255	81	114
Sex Offenses	16	65	11	58	461	57	13	15	0
Drug Abuse Violations	54	244	44	365	1202	181	65	104	46
DUI	0	0	0	5	0	10	14	21	11
Drunkenness	7	6276	534	49	882	1077	40	182	233
Disorderly Conduct	124	3477	519	1212	4502	816	162	248	73
Trespassing	46	250	21	618	778	348	2079	226	74
Fare Evasion	118	3268	12312	21	36974	486	0	108	0
Curfew/Loitering Laws	0	64	27	63	596	75	9	20	4

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Other Assaults	2	134	3	11	380	5	0	20	0
Vandalism	7	183	8	19	516	0	7	44	2
Sex Offenses	6	21	0	17	224	0	4	5	0
Drug Abuse Violations	23	207	0	143	735	2	27	40	3
DUI	0	0	0	0	0	0	0	12	0
Drunkenness	0	6221	0	11	223	2	0	163	3
Disorderly Conduct	51	3361	22	462	527	4	17	166	5
Trespassing	7	227	0	153	232	0	204	168	0
Fare Evasion	95	3249	1	0	35075	12	0	106	0
Curfew/Loitering Laws	0	59	0	12	100	0	0	16	0

* 9 agencies (1.9 billion passengers or 65%) operating 9 rail modes with high population density reported Security data

Transit Arrest Locations Rail

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Other Assaults	6	23	55	13	70	93	6	33	14
Vandalism	11	23	251	83	56	385	28	26	65
Sex Offenses	4	14	8	32	126	34	2	4	0
Drug Abuse Violations	16	2	23	82	257	111	22	48	10
DUI	0	0	0	0	0	0	1	7	3
Drunkenness	0	3	533	27	444	1051	37	12	209
Disorderly Conduct	28	37	129	548	1462	576	60	59	50
Trespassing	37	9	19	272	354	74	814	43	63
Fare Evasion	10	13	12052	2	242	3	0	0	0
Curfew/Loitering Laws	0	0	3	13	186	61	5	3	3

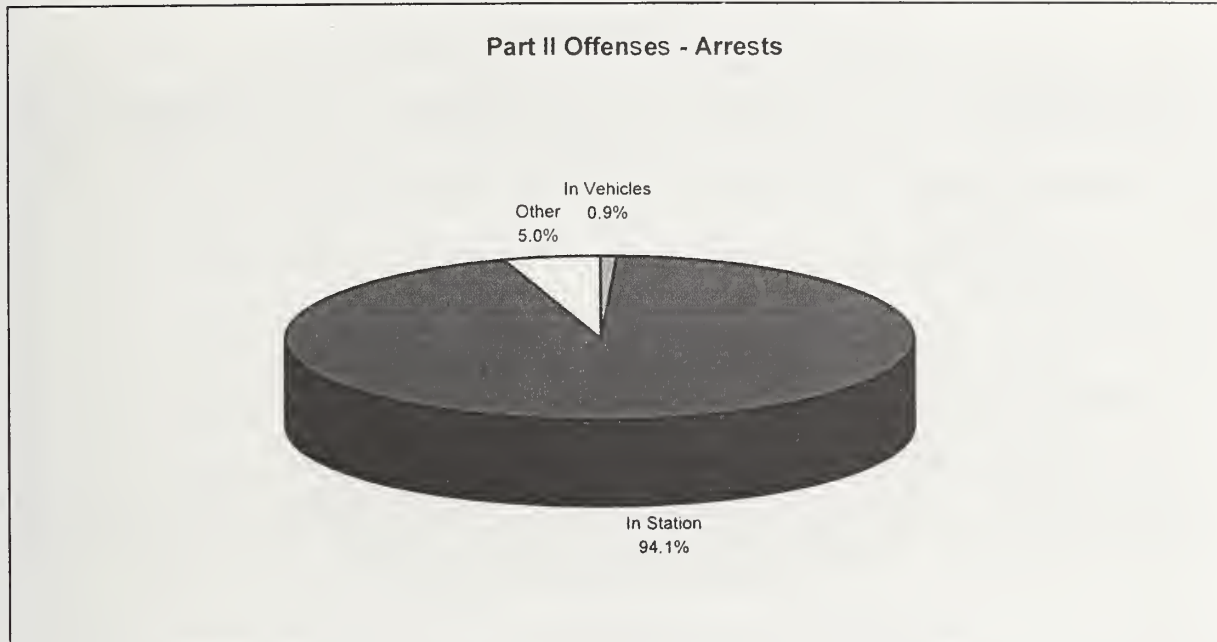
* 13 agencies (.65 billion passengers or 20%) operating 17 rail modes with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Other Assaults	16	40	13	41	184	93	15	14	6
Vandalism	9	75	14	332	133	175	220	11	47
Sex Offenses	6	30	3	9	111	23	7	6	0
Drug Abuse Violations	15	35	21	140	210	68	16	16	33
DUI	0	0	0	5	0	10	13	2	8
Drunkenness	7	52	1	11	215	24	3	7	21
Disorderly Conduct	45	79	368	202	2513	236	85	23	18
Trespassing	2	14	2	193	192	274	1061	15	11
Fare Evasion	13	6	259	19	1657	471	0	2	0
Curfew/Loitering Laws	0	5	24	38	310	14	4	1	1

* 12 agencies (.41 billion passengers or 15%) operating 16 rail modes with low population density reported Security data

Transit Arrest Locations Automated Guideway, Demand Response, Vanpool



Total of Part II Offenses

Part II Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Other Assaults	9	2	0	8	0	0	0	0	0
Vandalism	7	1	0	29	0	0	0	0	0
Sex Offenses	0	0	0	1	0	0	0	0	0
Drug Abuse Violations	0	6	0	0	8	0	0	0	0
DUI	0	0	0	0	2	0	0	0	0
Drunkenness	1	2	0	1	31	0	0	0	0
Disorderly Conduct	0	2	0	54	2	0	11	0	0
Trespassing	2	0	0	7	0	0	197	0	0
Fare Evasion	0	5	0	3721	0	0	0	0	0
Curfew/Loitering Laws	0	0	0	12	0	0	0	0	0

Agencies with High Population Density in Service Area (Over 6000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Other Assaults	9	0		8	0		0	0	
Vandalism	7	0		29	0		0	0	
Sex Offenses	0	0		1	0		0	0	
Drug Abuse Violations	0	2		0	2		0	0	
DUI	0	0		0	0		0	0	
Drunkenness	1	0		1	0		0	0	
Disorderly Conduct	0	0		54	0		11	0	
Trespassing	2	0		7	0		197	0	
Fare Evasion	0	0		3721	0		0	0	
Curfew/Loitering Laws	0	0		12	0		0	0	

* 7 agencies (7 million passengers or 19%) operating 8 AG/DR/VP modes with high population density reported Security data

Transit Arrest Locations

Automated Guideway, Demand Response, Vanpool

Agencies with Medium Population Density in Service Area (2000 to 6000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Other Assaults	0	0	0	0	0	0	0	0	0
Vandalism	0	0	0	0	0	0	0	0	0
Sex Offenses	0	0	0	0	0	0	0	0	0
Drug Abuse Violations	0	0	0	0	0	0	0	0	0
DUI	0	0	0	0	0	0	0	0	0
Drunkenness	0	0	0	0	0	0	0	0	0
Disorderly Conduct	0	0	0	0	0	0	0	0	0
Trespassing	0	0	0	0	0	0	0	0	0
Fare Evasion	0	0	0	0	0	0	0	0	0
Curfew/Loitering Laws	0	0	0	10	0	0	0	0	0

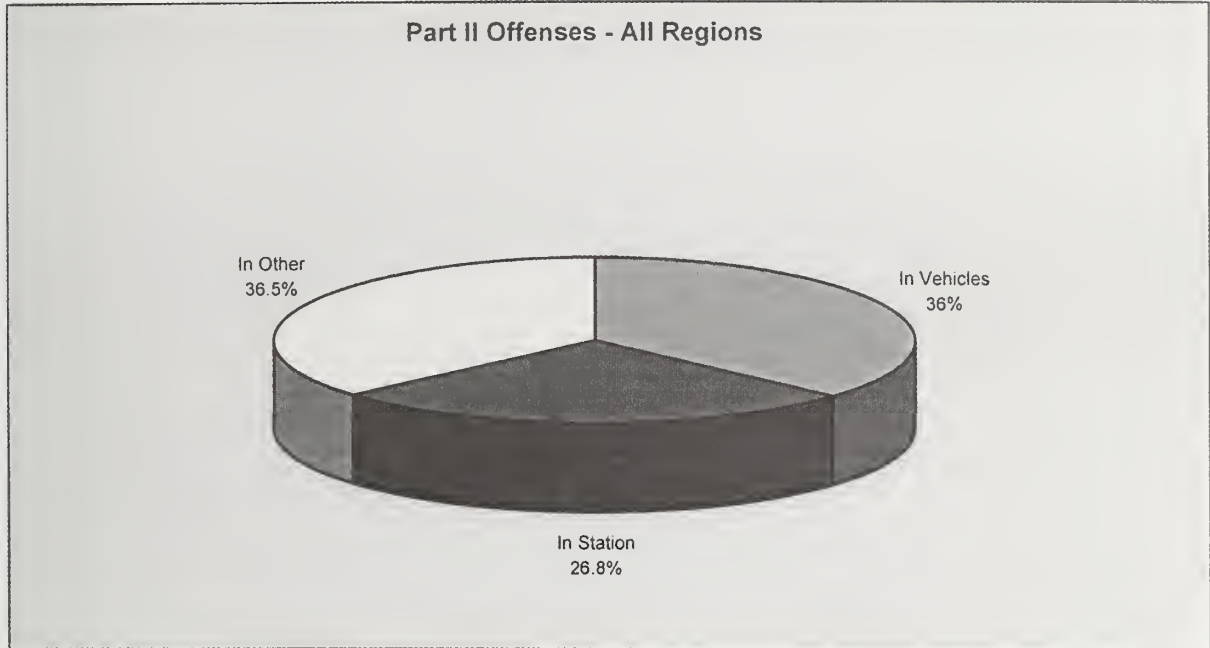
* 86 agencies (9 million passengers or 24%) operating 90 AG/DR/VP modes with medium population density reported Security data

Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Other Assaults		2	0		0	0		0	0
Vandalism		1	0		0	0		0	0
Sex Offenses		0	0		0	0		0	0
Drug Abuse Violations		4	0		6	0		0	0
DUI		0	0		2	0		0	0
Drunkenness		2	0		31	0		0	0
Disorderly Conduct		2	0		2	0		0	0
Trespassing		0	0		0	0		0	0
Fare Evasion		5	0		0	0		0	0
Curfew/Loitering Laws		0	0		0	0		0	0

* 131 agencies (21 million passengers or 57%) operating 139 AG/DR/VP modes with low population density reported Security data

Transit Arrest Locations Purchased Transportation - All Modes



Total of Part II Offenses

Part I Offenses	In Vehicle				In Station				Other Property			
	CR	DR	MB	FB	CR	DR	MB	FB	CR	DR	MB	FB
Other Assaults	2	1	4	0	8	0	0	0	2	0	0	0
Vandalism	10	8	14	0	11	1	5	0	41	0	0	0
Sex Offenses	2	2	1	0	2	0	0	0	0	0	0	0
Drug Abuse Violations	2	1	0	0	2	6	0	0	7	0	0	0
DUI	0	2	0	0	0	0	10	0	2	0	0	0
Drunkenness	3	0	11	0	57	1	0	0	0	0	0	0
Disorderly Conduct	3	1	22	0	16	0	2	0	8	0	0	0
Trespassing	4	0	0	0	0	0	0	0	103	2	0	0
Fare Evasion	65	0	6	2	0	0	0	0	0	0	0	0
Curfew/Loitering Laws	0	0	0	0	0	0	0	0	0	0	0	0

Note: IP, MO, VP and PB modes reported no Offenses



