



U.S. Department of
Transportation
Federal Transit
Administration

Safety Management Information Statistics (SAMIS) 1997 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
March 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.

REPORT DOCUMENTATION PAGE			<i>Form Approved</i> 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 March 1999		3. REPORT TYPE AND DATES COVERED Annual Report January 1997 - December 1997
4. TITLE AND SUBTITLE Safety Management Information Statistics (SAMIS) 1997 Annual Report			5. FUNDING NUMBERS TM929/U9020	
6. AUTHOR(S) Alison Thompson, Gerry Powers*				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) EG&G Services* 45 William Street Wellesley, MA 02181			8. PERFORMING ORGANIZATION REPORT NUMBER DOT-VNTSC-FTA-99-3	
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-26-5002-99-01	
11. SUPPLEMENTARY NOTES U.S. Department of Transportation *under contract to: John A. Volpe NationalTransportation 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 1997 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 1997.				
14. SUBJECT TERMS Safety, security, statistics, transportation fatalities, injuries, casualties, accidents, transit crime, transit, grade crossing			15. NUMBER OF PAGES 164	
			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	

PREFACE

The *Safety Management Information Statistics (SAMIS) 1997 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 1997.

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.

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. A special thank-you goes to William T. Hathaway, Senior Project Engineer and Technical Task Initiator at the Volpe Center. Mr. Hathaway retired from Federal service in late 1998. His practical insight and unerring support for the SAMIS program will always be appreciated.

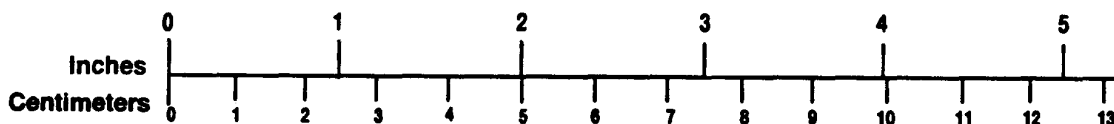
METRIC/ENGLISH CONVERSION FACTORS

ENGLISH TO METRIC

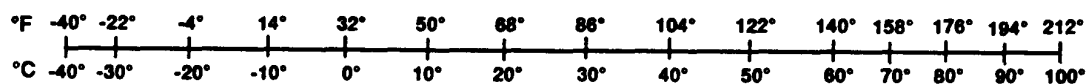
METRIC TO ENGLISH

LENGTH (APPROXIMATE) 1 inch (in) = 2.5 centimeters (cm) 1 foot (ft) = 30 centimeters (cm) 1 yard (yd) = 0.9 meter (m) 1 mile (mi) = 1.6 kilometers (km)	LENGTH (APPROXIMATE) 1 millimeter (mm) = 0.04 inch (in) 1 centimeter (cm) = 0.4 inch (in) 1 meter (m) = 3.3 feet (ft) 1 meter (m) = 1.1 yards (yd) 1 kilometer (km) = 0.6 mile (mi)
AREA (APPROXIMATE) 1 square inch (sq in, in ²) = 6.5 square centimeters (cm ²) 1 square foot (sq ft, ft ²) = 0.09 square meter (m ²) 1 square yard (sq yd, yd ²) = 0.8 square meter (m ²) 1 square mile (sq mi, mi ²) = 2.6 square kilometers (km ²) 1 acre = 0.4 hectare (ha) = 4,000 square meters (m ²)	AREA (APPROXIMATE) 1 square centimeter (cm ²) = 0.16 square inch (sq in, in ²) 1 square meter (m ²) = 1.2 square yards (sq yd, yd ²) 1 square kilometer (km ²) = 0.4 square mile (sq mi, mi ²) 10,000 square meters (m ²) = 1 hectare (ha) = 2.5 acres
MASS - WEIGHT (APPROXIMATE) 1 ounce (oz) = 28 grams (gm) 1 pound (lb) = 0.45 kilogram (kg) 1 short ton = 2,000 pounds (lb) = 0.9 tonne (t)	MASS - WEIGHT (APPROXIMATE) 1 gram (gm) = 0.036 ounce (oz) 1 kilogram (kg) = 2.2 pounds (lb) 1 tonne (t) = 1,000 kilograms (kg) = 1.1 short tons
VOLUME (APPROXIMATE) 1 teaspoon (tsp) = 5 milliliters (ml) 1 tablespoon (tbsp) = 15 milliliters (ml) 1 fluid ounce (fl oz) = 30 milliliters (ml) 1 cup (c) = 0.24 liter (l) 1 pint (pt) = 0.47 liter (l) 1 quart (qt) = 0.96 liter (l) 1 gallon (gal) = 3.8 liters (l) 1 cubic foot (cu ft, ft ³) = 0.03 cubic meter (m ³) 1 cubic yard (cu yd, yd ³) = 0.76 cubic meter (m ³)	VOLUME (APPROXIMATE) 1 milliliter (ml) = 0.03 fluid ounce (fl oz) 1 liter (l) = 2.1 pints (pt) 1 liter (l) = 1.06 quarts (qt) 1 liter (l) = 0.26 gallon (gal) 1 cubic meter (m ³) = 36 cubic feet (cu ft, ft ³) 1 cubic meter (m ³) = 1.3 cubic yards (cu yd, yd ³)
TEMPERATURE (EXACT) $[(x-32)(5/9)]^{\circ}\text{F} = y^{\circ}\text{C}$	TEMPERATURE (EXACT) $[(9/5)y + 32]^{\circ}\text{C} = x^{\circ}\text{F}$

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 8/17/98

TABLE OF CONTENTS

NARRATIVE COMMENTS	1
Introduction	3
Glossary of Terms	9
DIRECTLY OPERATED TRANSIT	19
TRENDS (General Transit, Bus, and Rail)	23
TRENDS (Individual Transit Modes)	51
SAFETY GRAPHS	69
SAFETY TABLES	89
Collisions	91
Personal Casualties	94
Fires	97
Derailments	100
SECURITY TABLES	103
Bus	105
Rail	109
Automated Guideway, Demand Response, Vanpool	111
PURCHASED TRANSPORTATION	125
REPORTING AGENCIES	145
Directly Operated Transit	147
Purchased Transportation	153

NARRATIVE COMMENTS

INTRODUCTION

In its eighth 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

Additions to this year's report include a thematic map of states' relative transit collision rates, a series of graphs analyzing grade-crossing collisions, a reorganization of the security data tables, and safety and security information 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. In previous years, SAMIS presented data for transit modes which were Directly Operated (DO) by Urbanized Area Formula fund recipients.

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.

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.

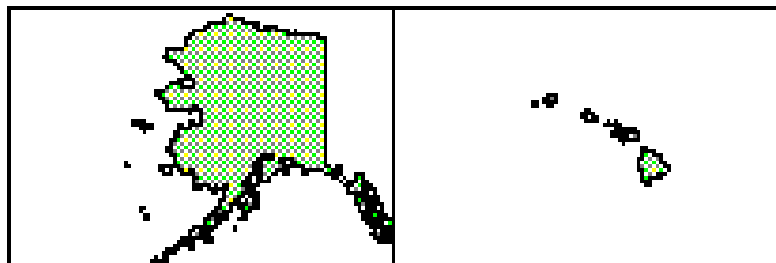
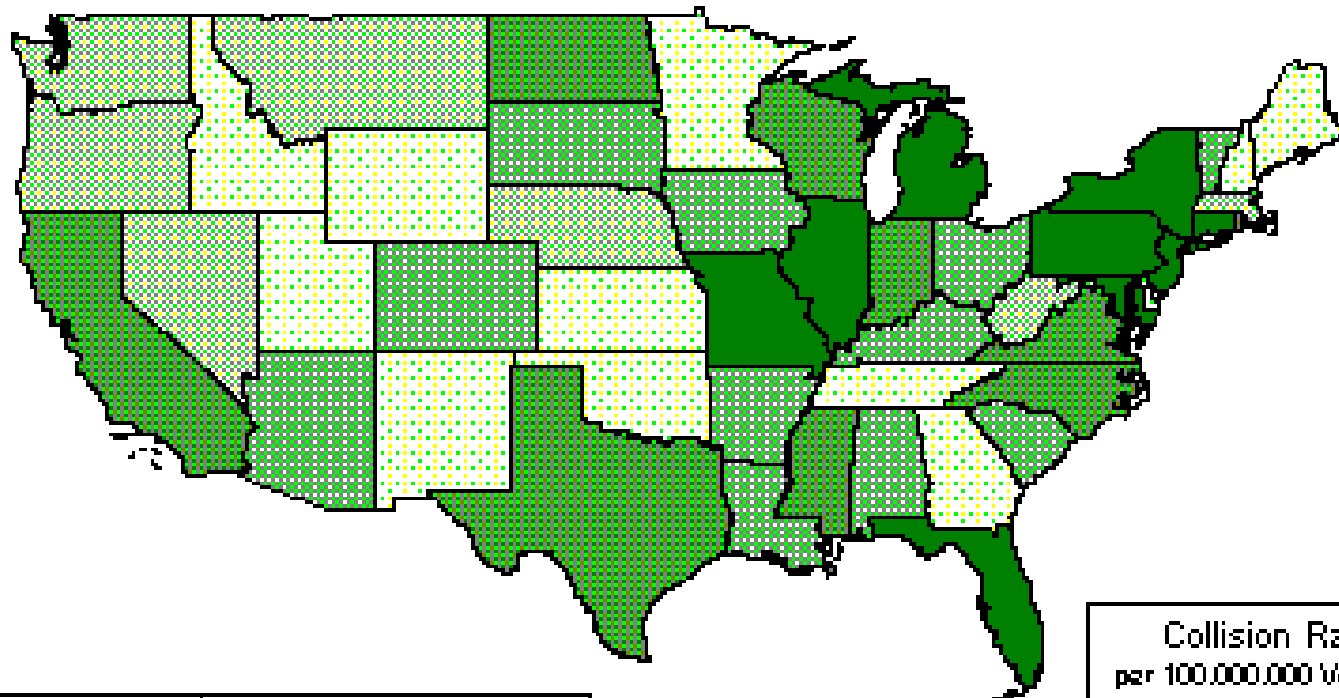
¹ Transit agencies with nine or fewer vehicles for non-fixed guideway systems, public carriers receiving no Urbanized Area Formula funds, private conventional and subscription bus services operators, and providers of services only under a demonstration grant are not required to report data under the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

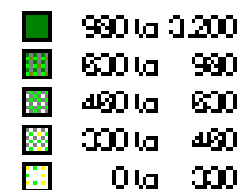
As with previous years' SAMIS reports, caution should be used when making comparisons across different modes of transit, and also against data from other transportation reporting systems such as those for aviation and trucking. When comparing modes of transit, key differences should be kept in mind. 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.

1997 Transit Collisions Thematic Map*

per 100,000,000 Vehicle Miles



Collision Rate 1997
per 100,000,000 Vehicle Miles



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

☐ Form not Applicable

NTD ID ☐☐☐☐

☐ Form 005 Included

Transit Safety and Security Form (405)

Page 1 of 2

Mode ☐☐

Type of Service ☐☐

	a	b	c	d	e	f	g	h
	Safety Items	Incidents	Fatalities			Injuries		
	Collisions		Patrons	Emps.	Others	Patrons	Emps.	Others
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)							
	(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 and alighting vehicle							
08a	associated with lifts							
09	In stations/bus stops							
09a	associated with escalators							
09b	associated with elevators							
	Fires (no thresholds)							
10	In vehicles							
11	In stations							
12	Right-of-way others							
13	Total Transit Property Damage			\$				

Date Prepared ☐☐ / ☐☐ / ☐☐☐☐

Date Updated ☐☐ / ☐☐ / ☐☐☐☐

☐ Form not Applicable

NTD ID ☐ ☐ ☐ ☐

☐ Form 005 Included

Transit Safety and Security Form (405)

Page 2 of 2

Based on the Uniform Crime Reporting Handbook

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

Mode ☐ ☐

Type of Service ☐ ☐

a			b	c	d
	Security Items		In Vehicle	In Station	Other Transit Pro
Part I Offenses (Reports)					
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 and Loitering Laws				
31	Total Transit Property Damage		\$		

Date Prepared ☐ ☐ / ☐ ☐ / ☐ ☐ ☐ ☐

Date Updated ☐ ☐ / ☐ ☐ / ☐ ☐ ☐ ☐

GLOSSARY OF TERMS

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.

Collision 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.

Collision 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 only 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.

Personal Casualty 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).

Personal Casualty 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.

Personal Casualty 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.

Personal Casualty 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.

Personal Casualty 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. The SAMIS graph descriptions Large Motor Bus (LMB), Medium Motor Bus (MMB), and Small Motor Bus (SMB) describe the size of the transit agency which operates the bus, not the size of the buses (i.e., if the number of buses an agency operates is greater than 500, then the vehicles are called LMBs, if the agency operates less than 100 buses, they are called SMBs, and anything in between is known as MMBs). *Therefore, in this sense of the division, LMB, MMB, and SMB are not true transit modes, but a representation of the agencies' sizes.*

There are two reasons for this division:

- To reflect the differences in the operating environments and traffic mix.
- To have a meaningful comparison between the motor buses and the rest of the transit modes [since motor buses constitute the majority of a transit agency's fleet, a chart comparing various motor bus (combined) statistics to the rest of the transit modes, would result in graphs where the motor bus statistics would considerably dwarf other transit modes].

The data for Trolleybus (TB) 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.

**The 1997 SAMIS Safety and Security Data
for
Directly Operated Transit**

Totals of all Transit Mishaps by Year

	1990	1991	1992	1993	1994	1995	1996	1997	
Type of Service*	DO	DO	DO	DO	DO	DO	DO	DO	PT
Incidents*	90,163	83,139	73,831	64,986	70,693	62,471	59,392	61,561	3,343
Fatalities	339	300	273	281	320	274	264	275	35
Injuries	54,556	52,125	55,089	52,688	58,193	57,196	55,288	56,132	2,279
Collisions**	57,726	46,238	36,202	30,338	29,698	25,489	24,953	24,777	2,352
Suicide Attempts	126	74	98	95	103	95	85	82	8
Personal Casualties	25,212	30,352	31,352	29,036	35,359	32,591	30,102	32,367	952
Derailment/Left Road	276	229	178	221	274	194	213	147	9
Fires	6,823	6,246	6,001	5,296	5,259	4,102	4,039	4,188	22
Property Damage (\$)	37,972,669	37,476,192	37,454,950	44,924,732	38,376,397	46,265,973	57,557,392	55,478,590	4,726,826

* DO - Directly Operated, PT - Purchased Transportation

** This is the total Incidents of Collisions, Derailments, Personal Casualties, and Fires.

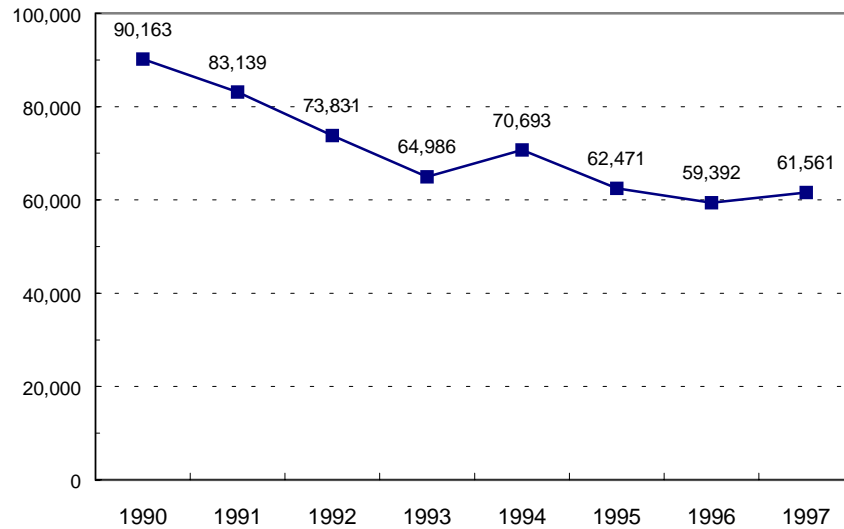
*** Not including Suicide attempts

**A look at SAMIS safety data from 1990 through 1997
(General Transit, Bus, and Rail)**

TREND

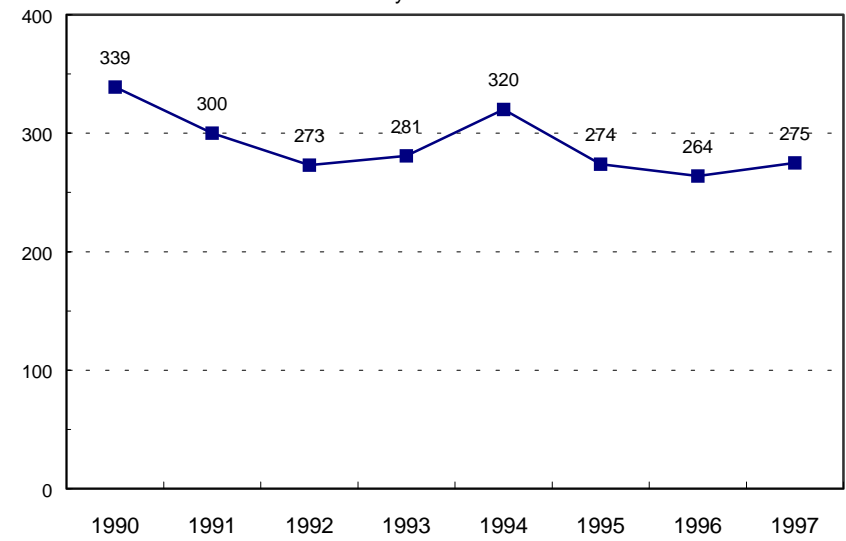
Transit Incidents

by Year



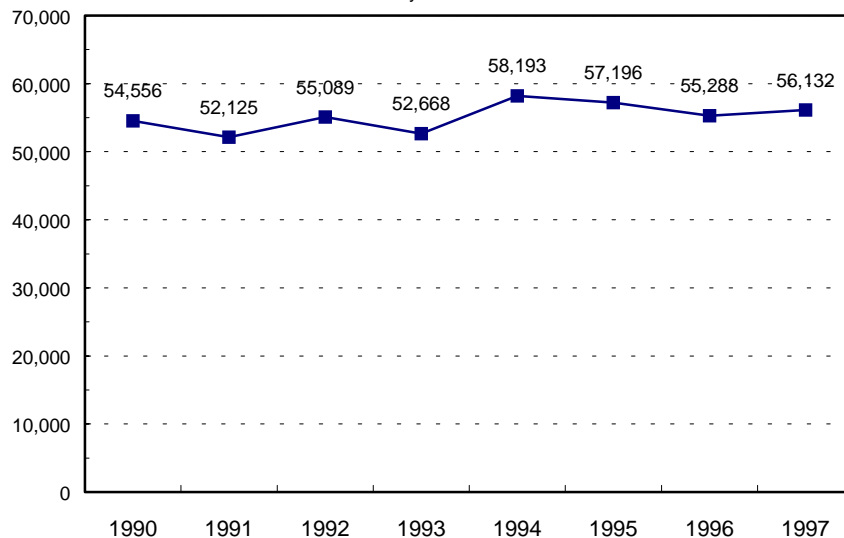
Transit Fatalities

by Year



Transit Injuries

by Year

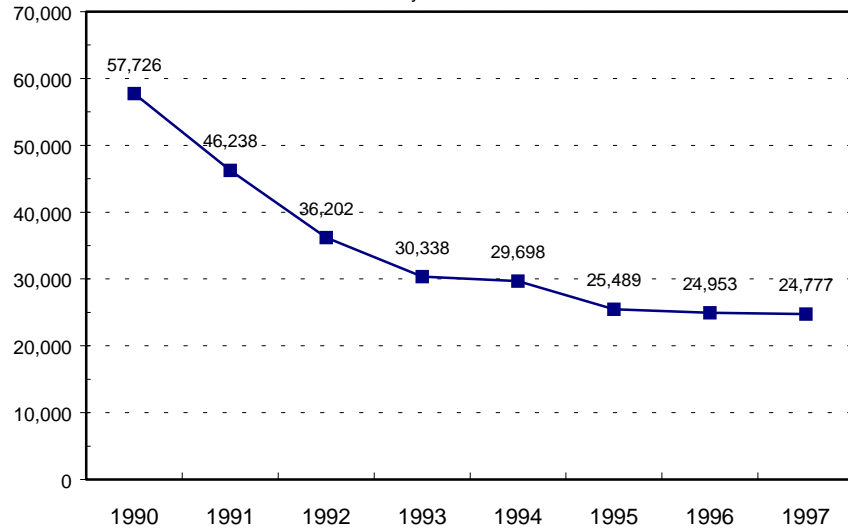


These graphs depict the trends for the total number of *incidents*, *fatalities*, and *injuries* from all causes, i.e., **Collisions, Derailments, Personal Casualties, and Fires.**

Note: In these trend graphs (pages 25 - 32), the term *Transit* refers to the following modes: MB, CR, HR, LR, AG, DR, VP.

Transit Collisions*

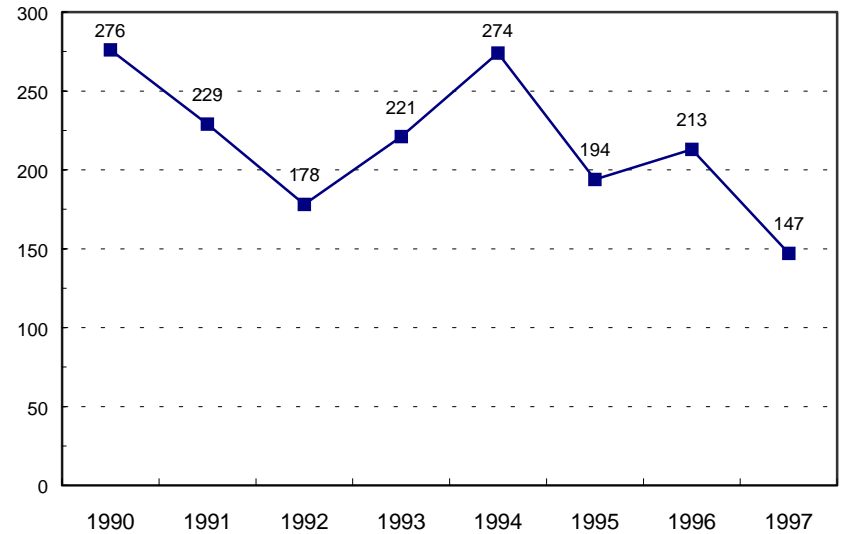
by Year



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

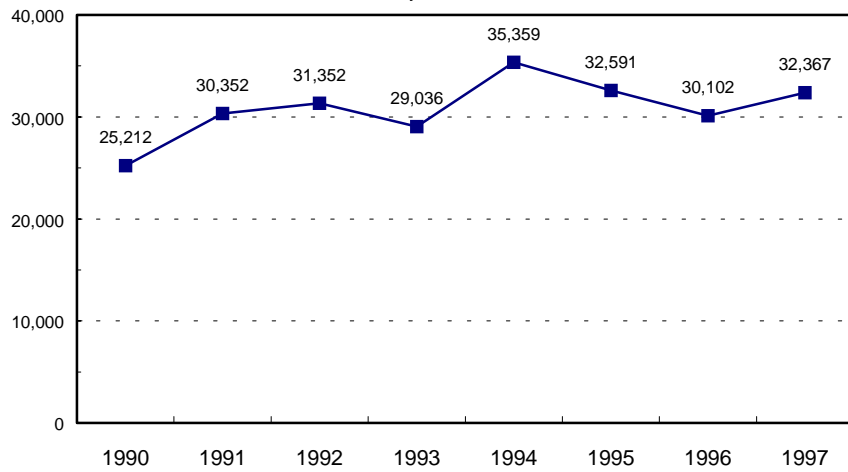
Transit Derailments/Buses going off road

by Year



Transit Personal Casualties*

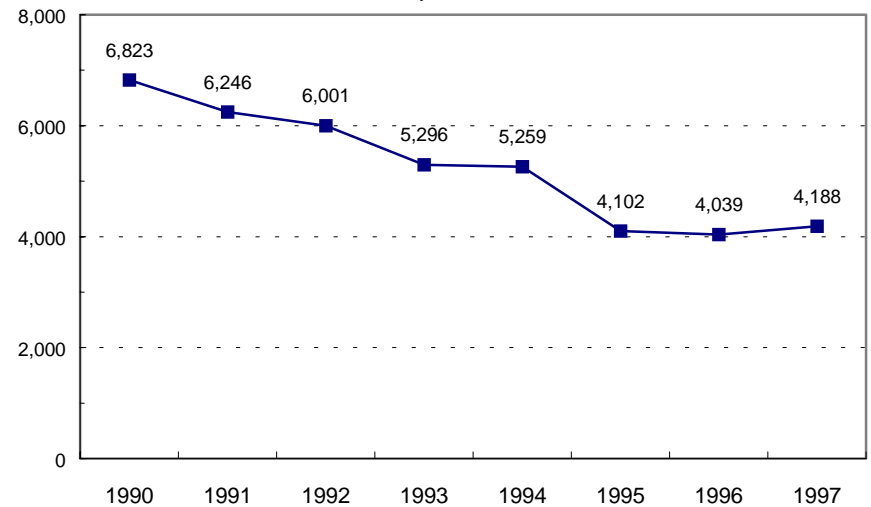
by Year



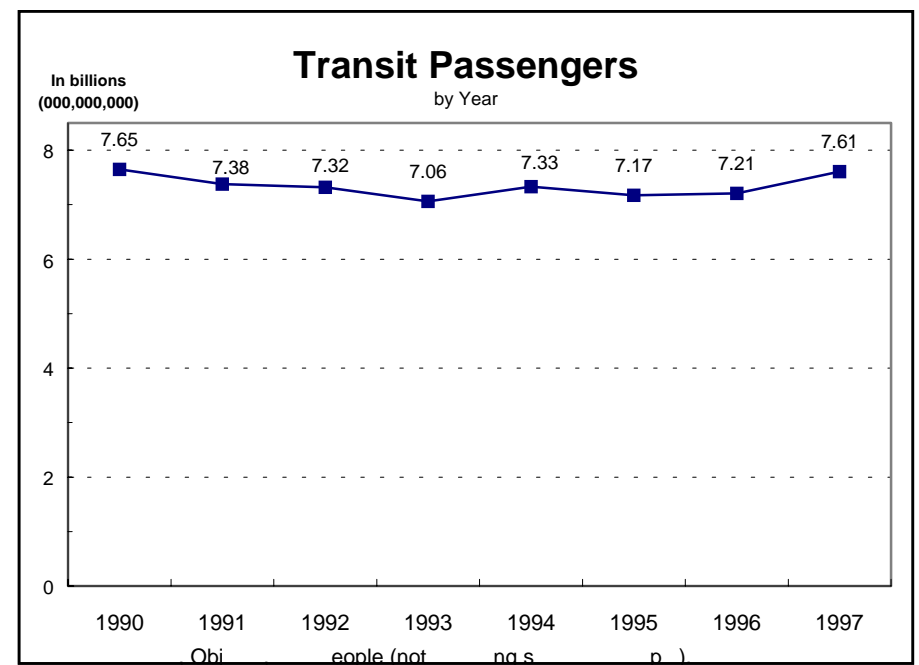
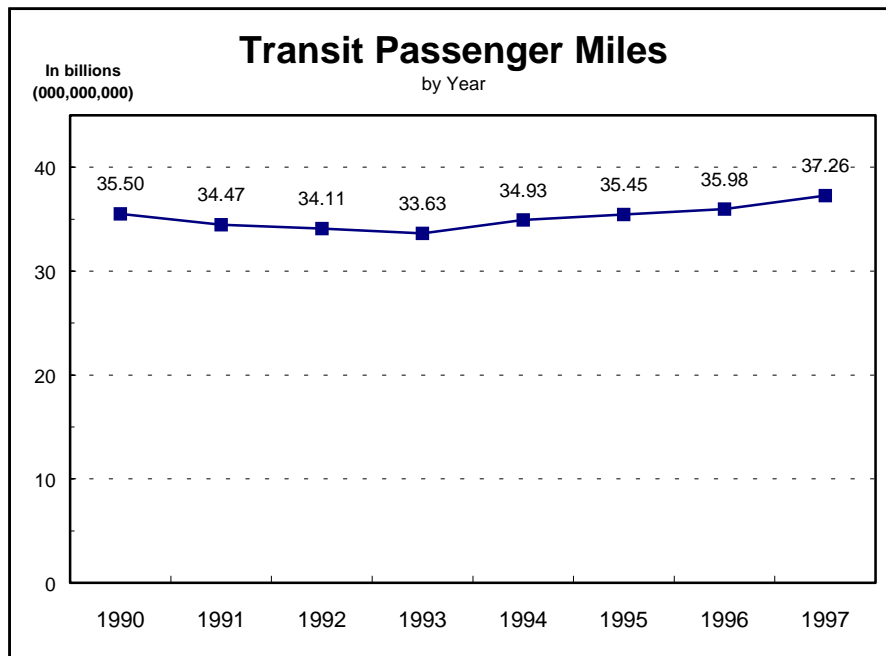
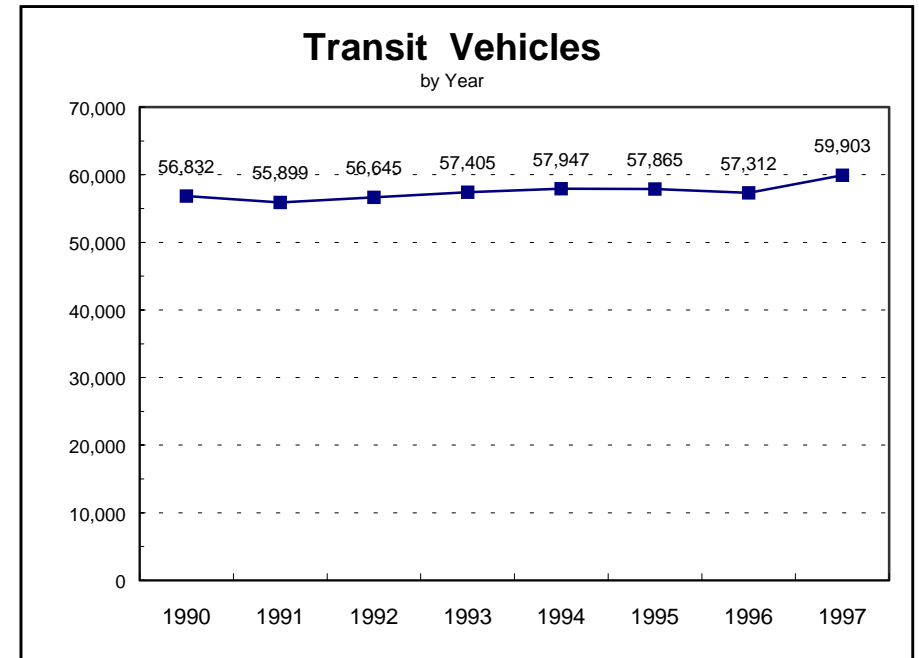
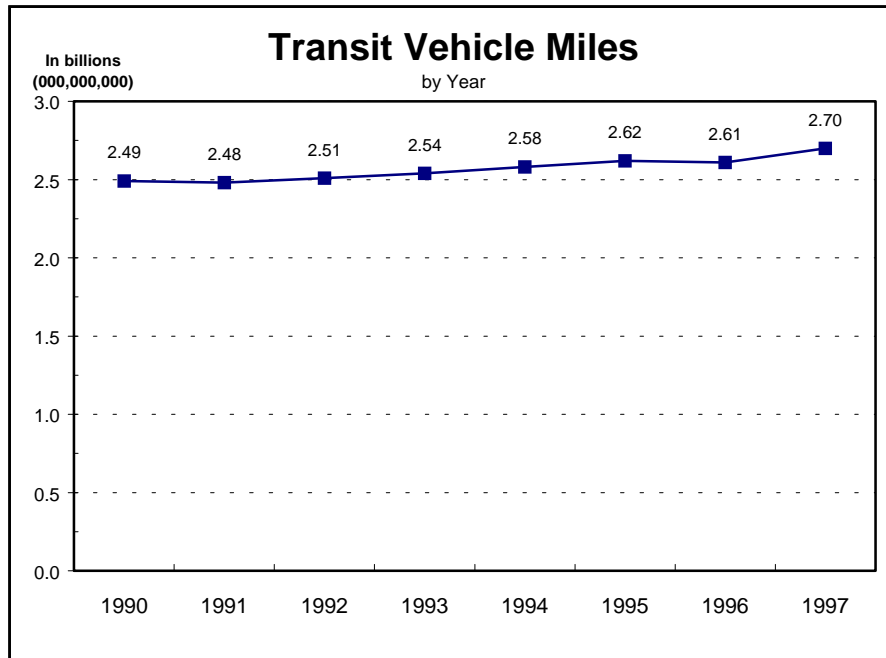
* Personal Casualty is a type of transit mishap category where people are hurt but not as a result of Collisions, Derailments, or Fires. The incidents occur in Parking lots, On Vehicle, Entering/Exiting Vehicle, On R-O-W, and In Station/Stops.

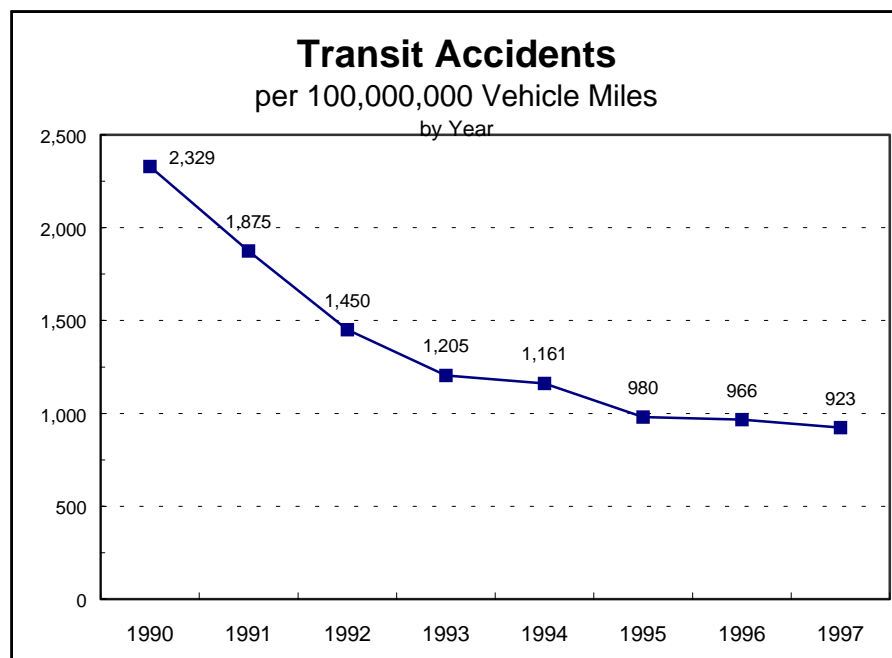
Transit Fires*

by Year



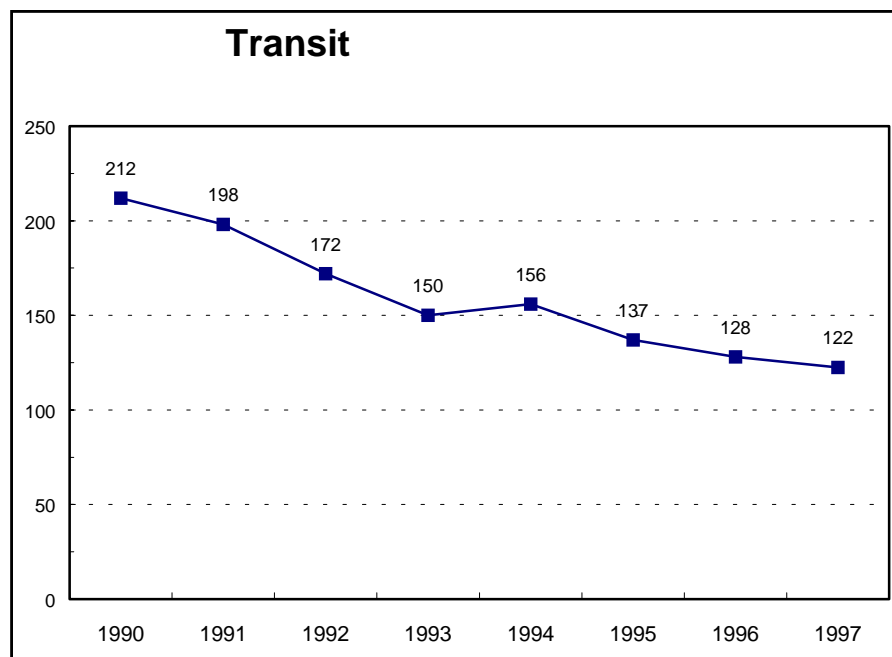
* In Vehicles, Stations, Right of way and Others





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 **Derailments** (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.

28

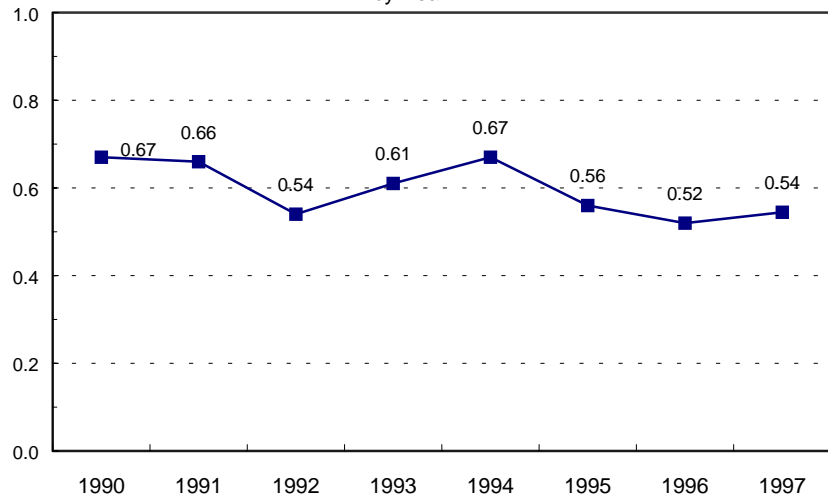


This graph shows the trend for accident (or incident) rates, which result from Collisions [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway) and **Personal Casualties** (on right of way, inside the vehicle and entering/exiting the vehicle). When analyzing the results on this page, consider that the number of 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.

Transit Fatalities

per 100,000,000 Passenger Miles

by Year

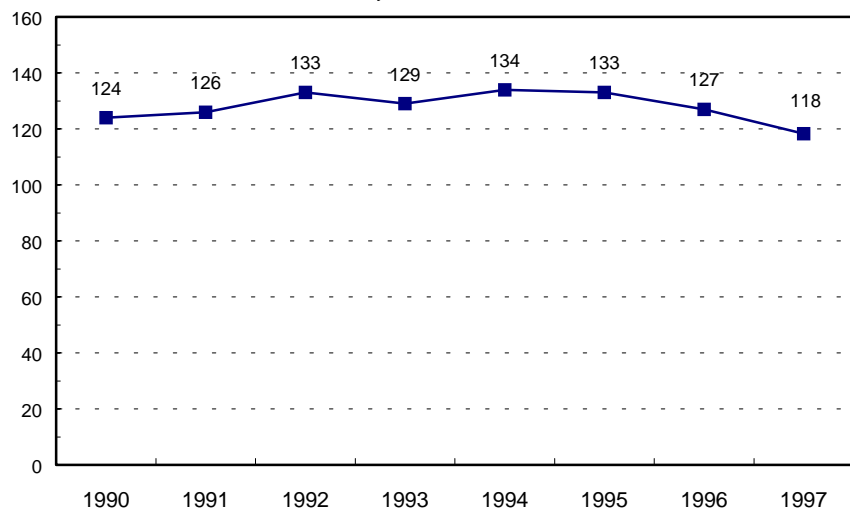


These statistics represent *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway) and **Personal Casualties** (on right of way, inside the vehicle and entering/exiting the vehicle).

Transit Injuries

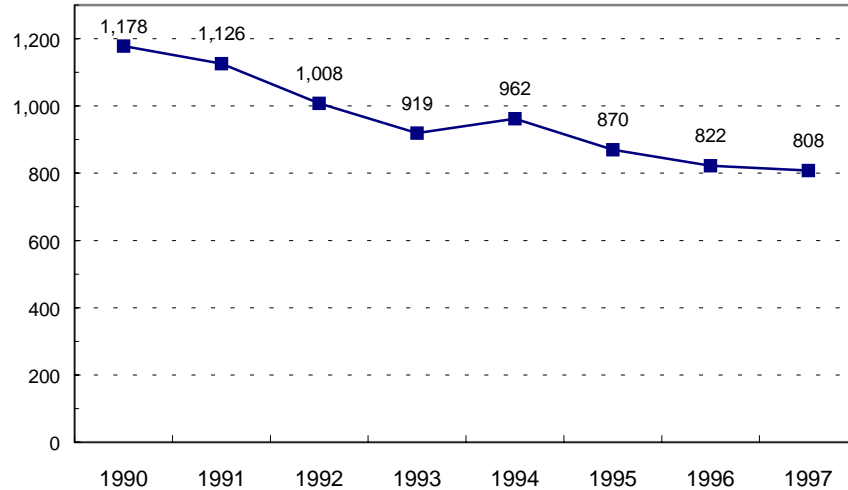
per 100,000,000 Passenger Miles

by Year

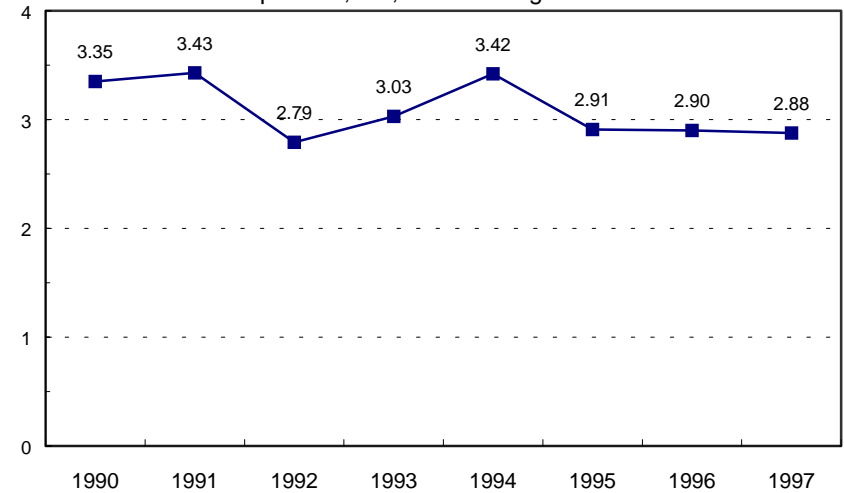


These statistics represent *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway) and **Personal Casualties** (on right of way, inside the vehicle and entering/exiting the vehicle).

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

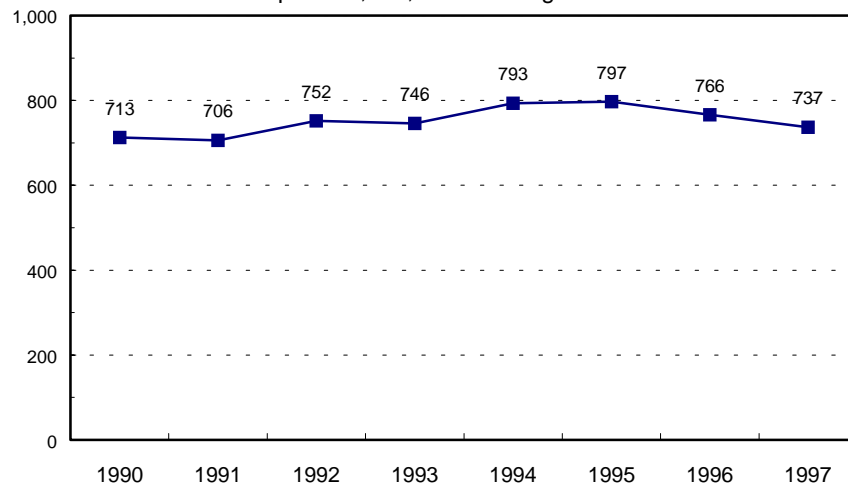


Transit Fatalities
from all causes
per 100,000,000 Passengers



Transit Injuries

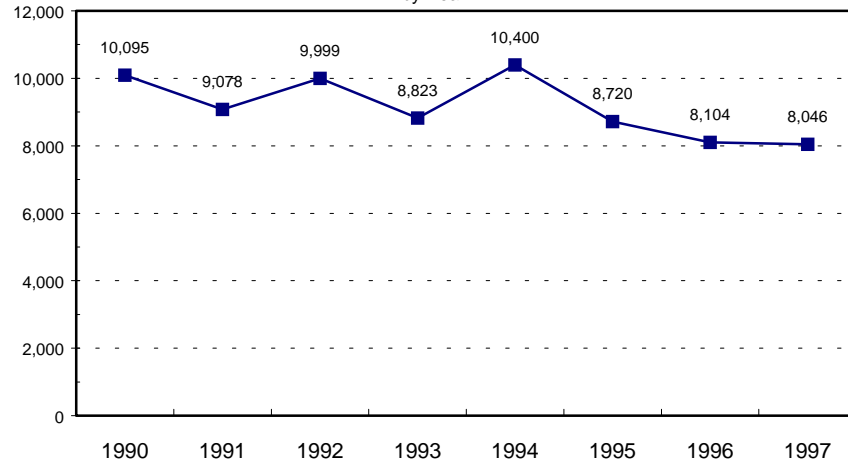
from all causes
per 100,000,000 Passengers



These graphs depict 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.**

Entering/Exiting the Transit Vehicle* Injuries

by Year

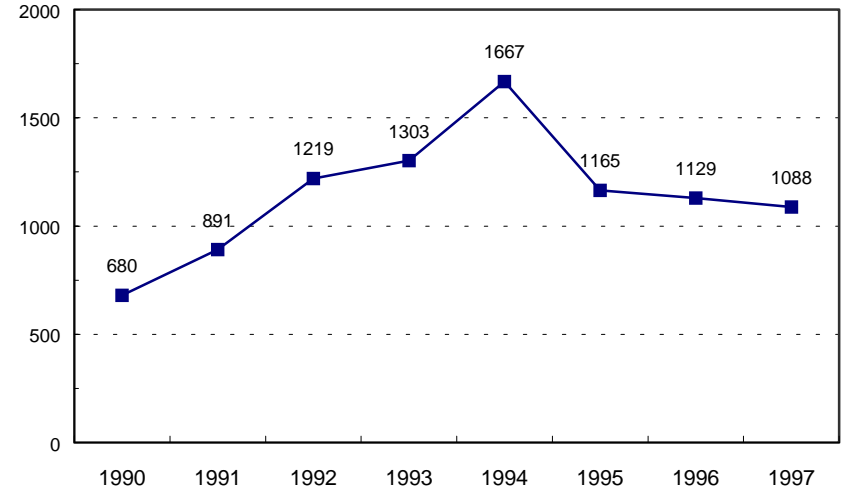


* This is a sub-category of Personal Casualties.
It includes figures associated with Lifts.

Escalator Injuries

In Transit Stations/Bus Stops*

by Year

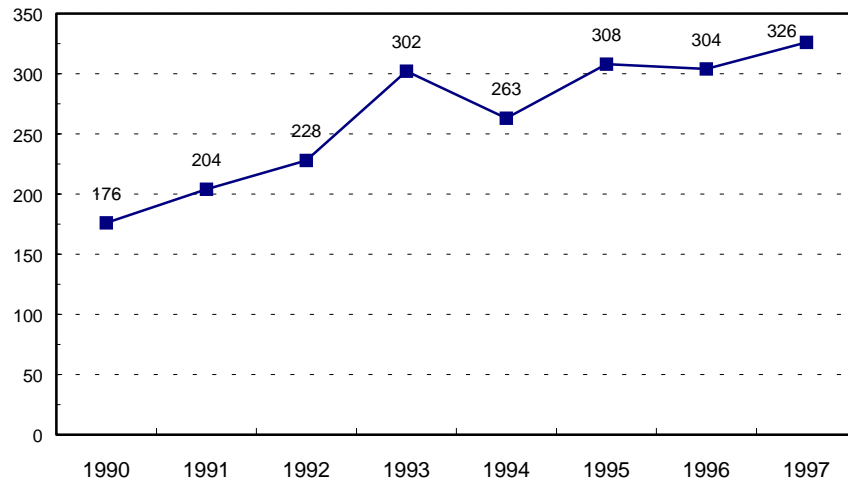


* This is a sub-category of Personal Casualties.

Lift Injuries

While Entering/Exiting the Transit Vehicle*

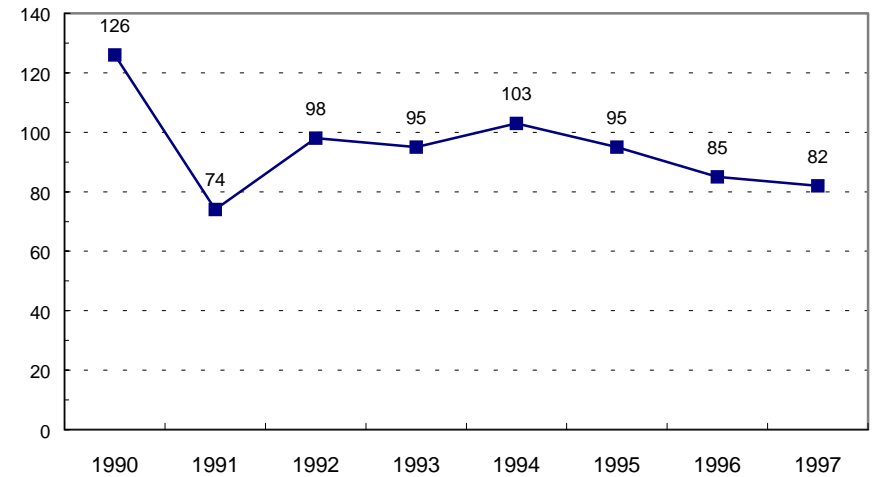
by Year



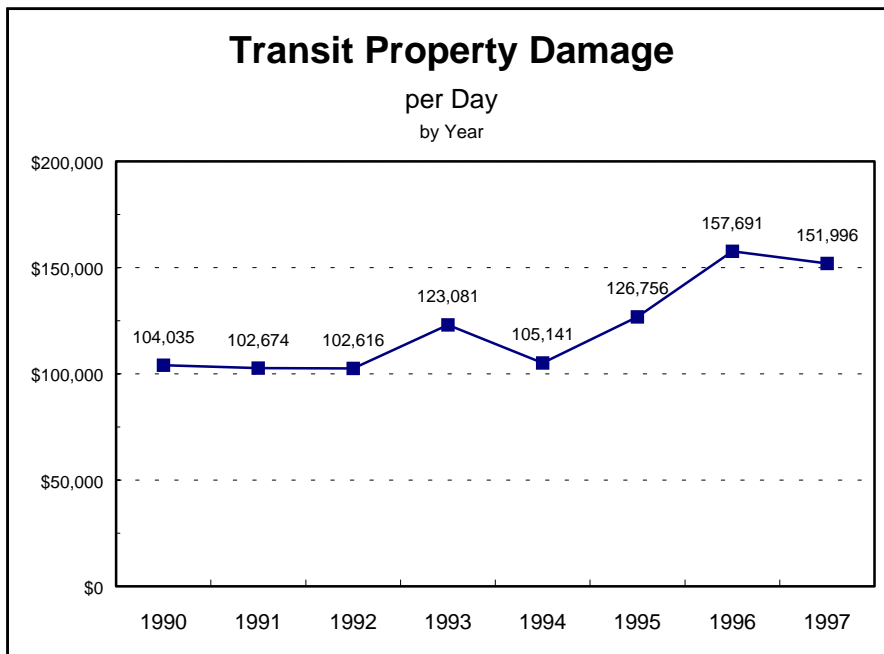
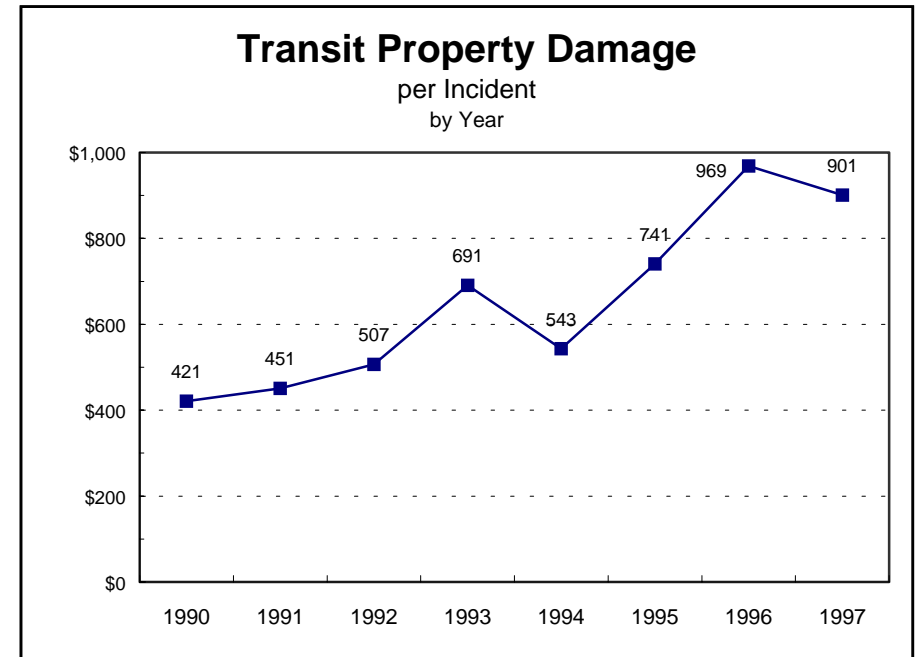
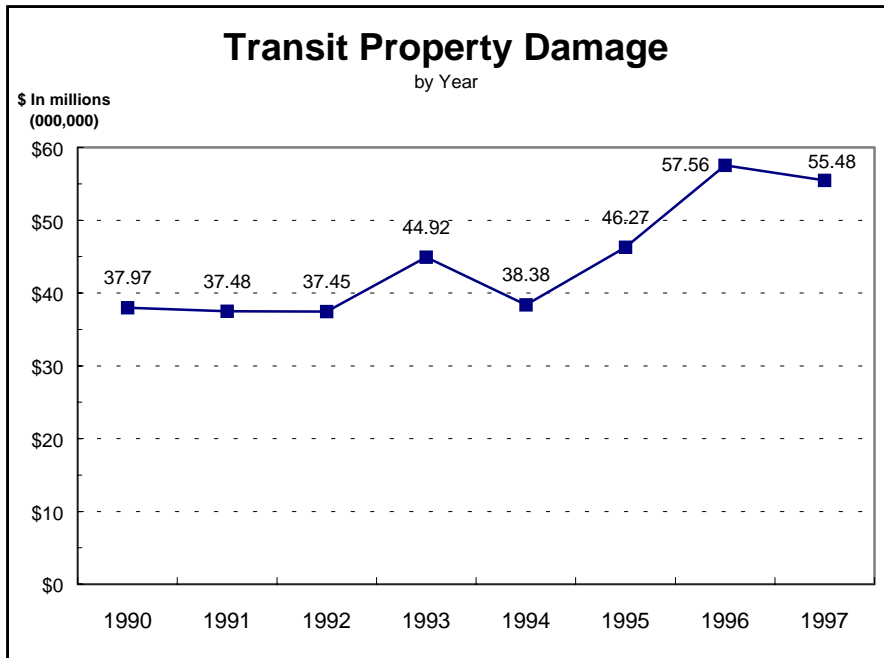
* This is a sub-category of Personal Casualties.

Transit Suicides*

by Year



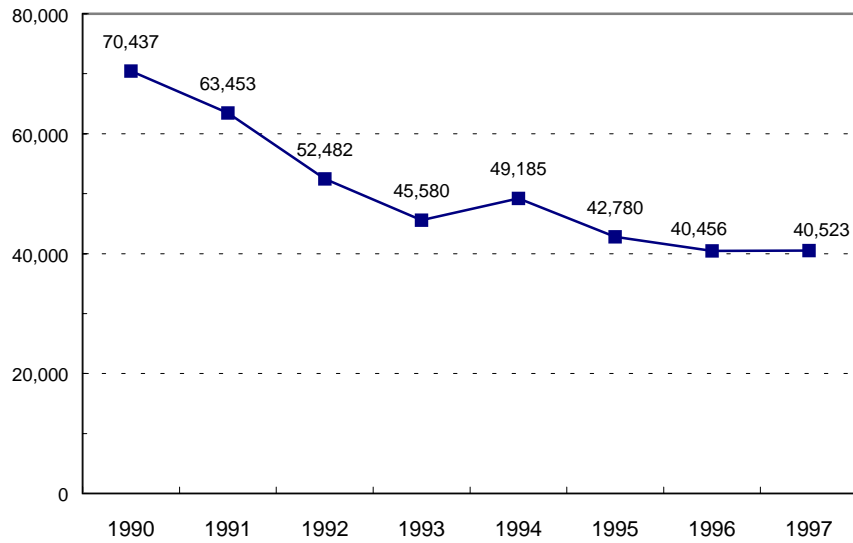
* Incidents of attempted suicides. These include fatalities, injuries, and unharmed. This is a sub-category of Collisions (with people).



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.

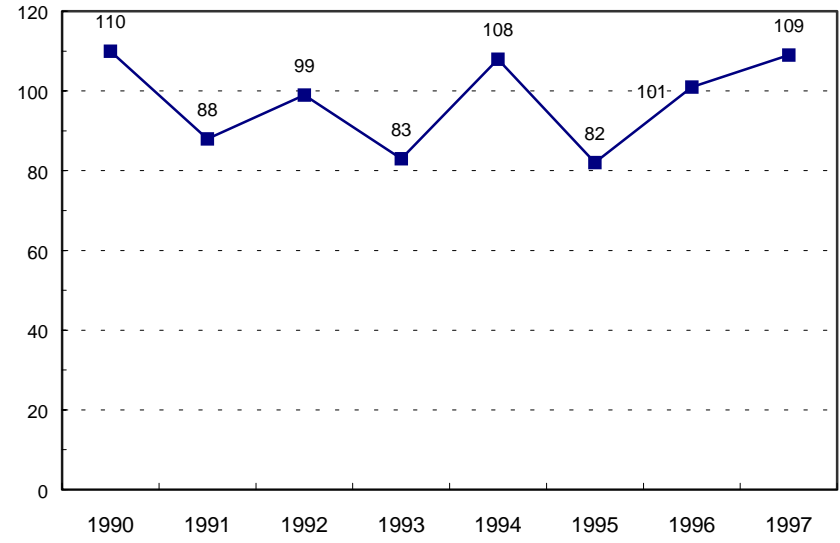
Bus Incidents

by Year



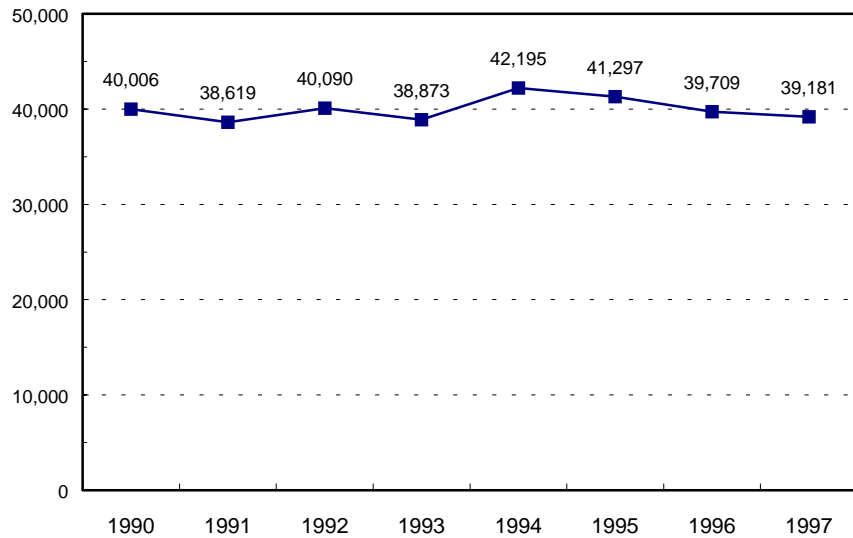
Bus Fatalities

by Year



Bus Injuries

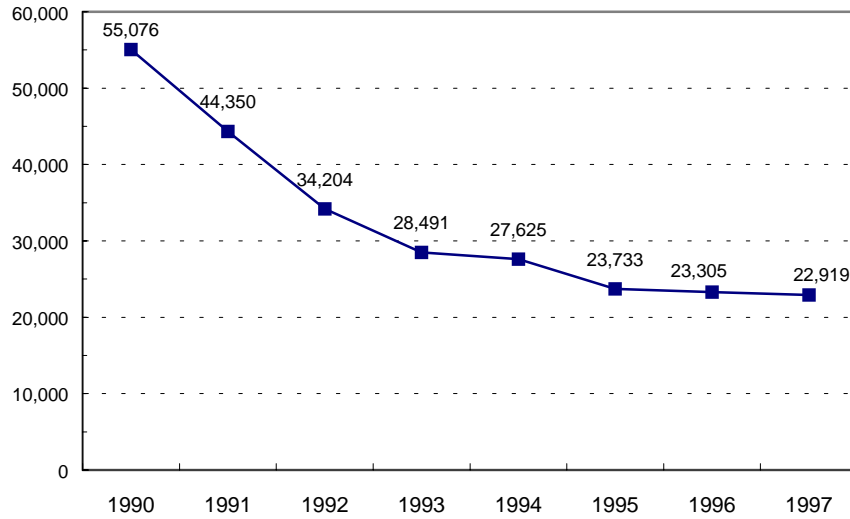
by Year



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

Bus Collisions

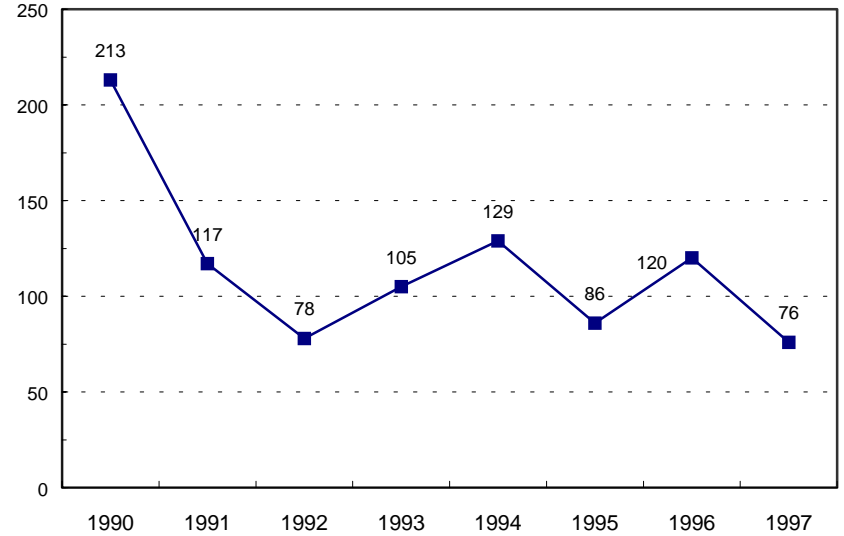
by Year



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

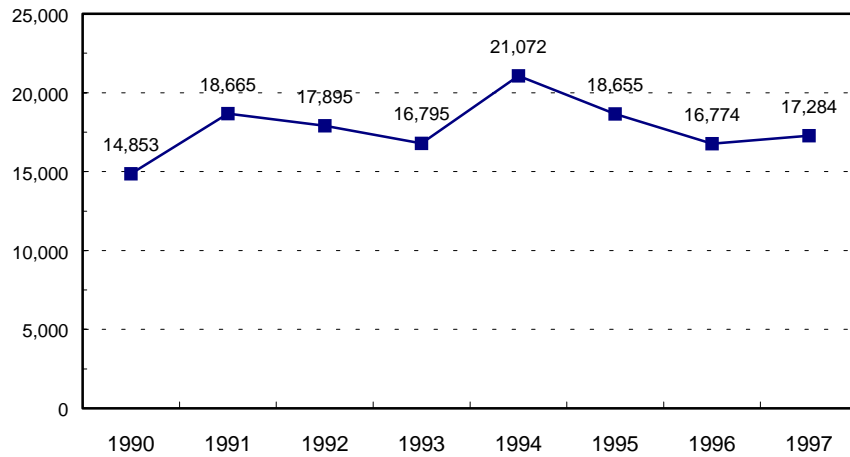
Bus going off road

by Year



Bus Personal Casualties*

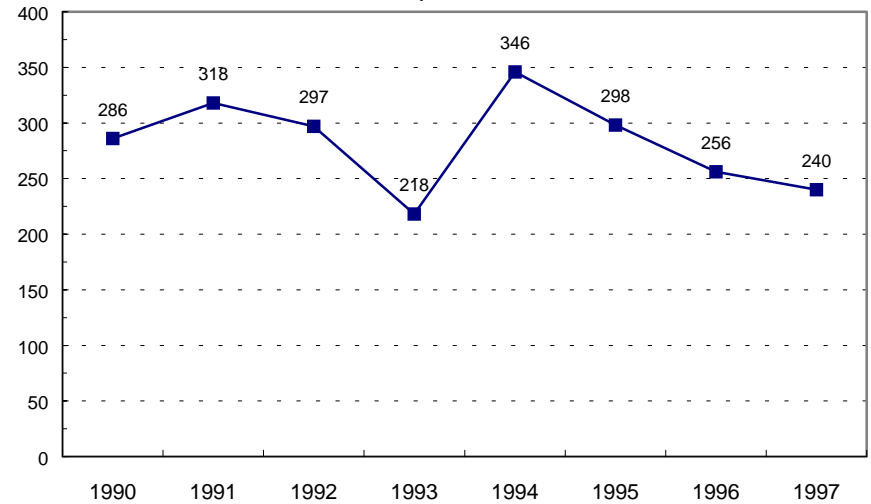
by Year



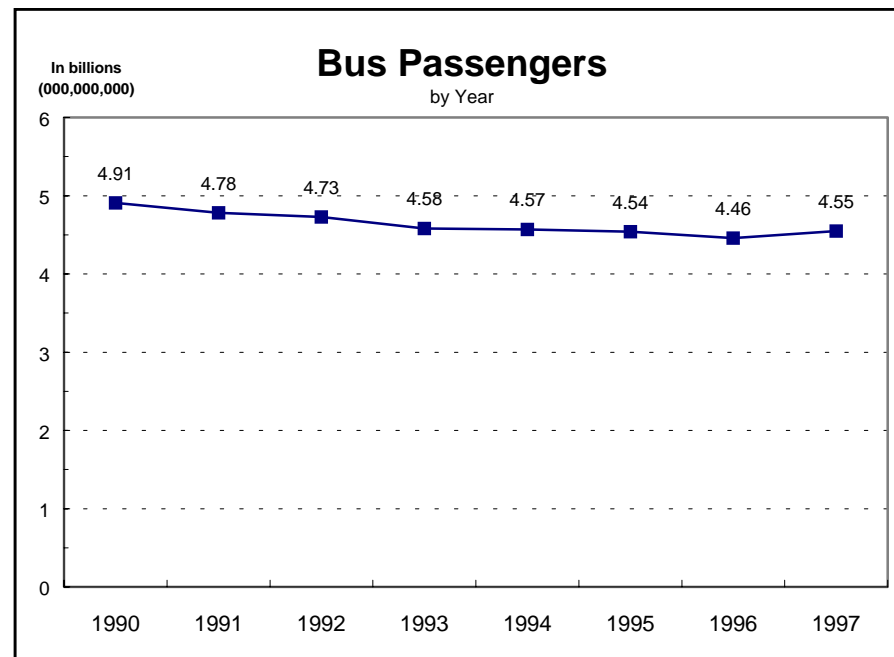
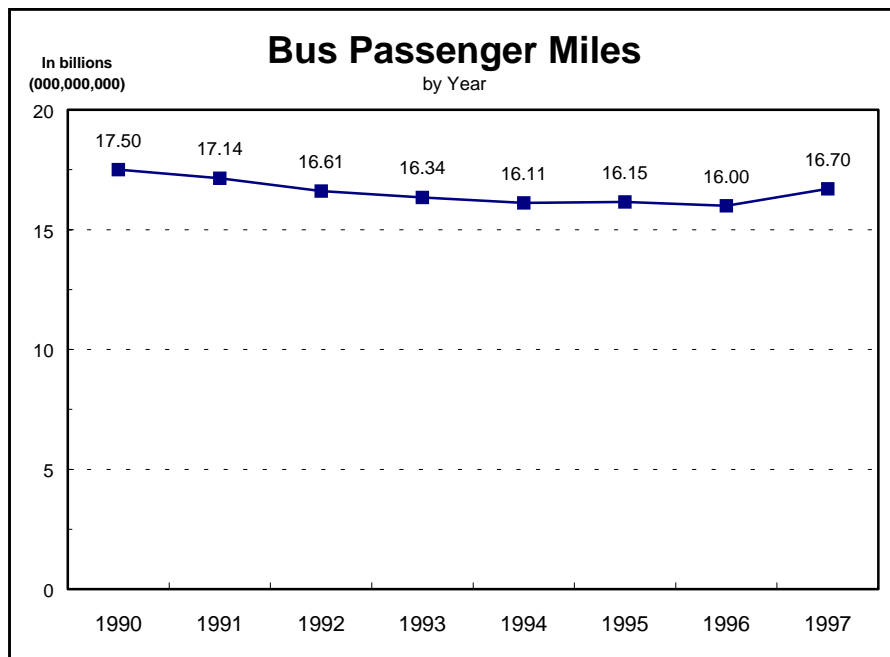
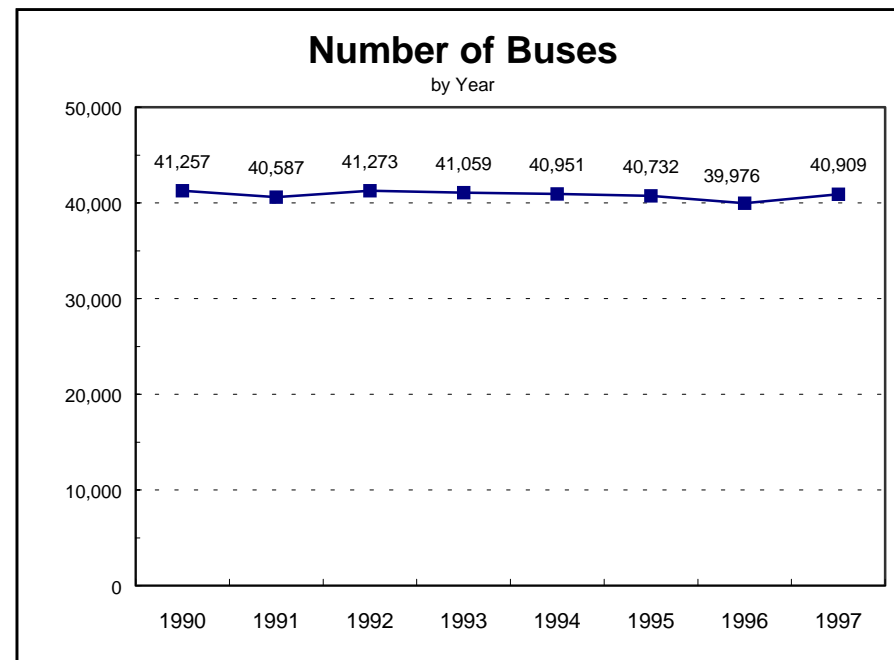
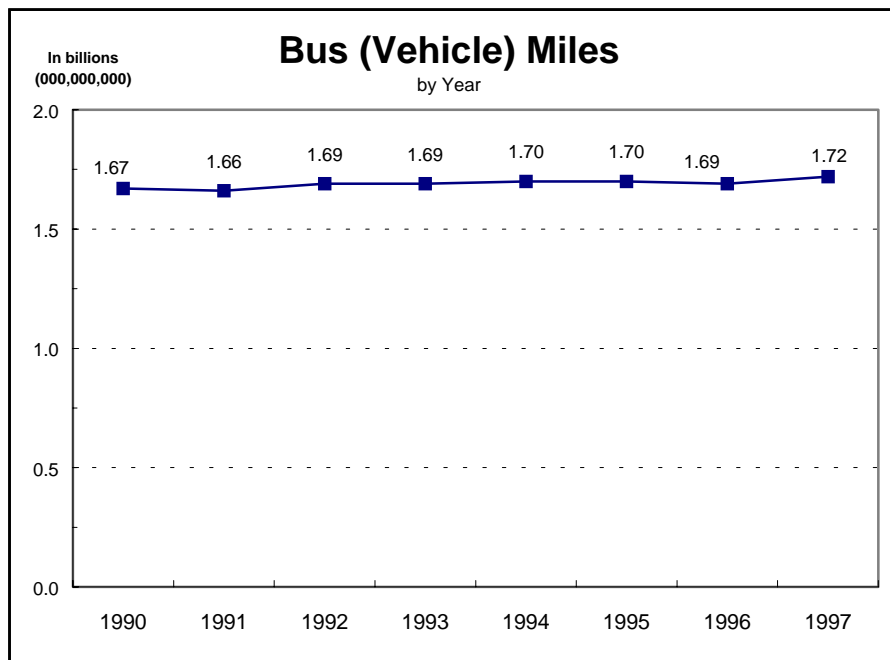
* Personal Casualty is a type of transit mishap category where people are hurt but not as a result of Collisions, Derailments, or Fires. The incidents occur in Parking lots, On Vehicle, Entering/Exiting Vehicle, On R-O-W, and In Station/Stops.

Bus Fires*

by Year

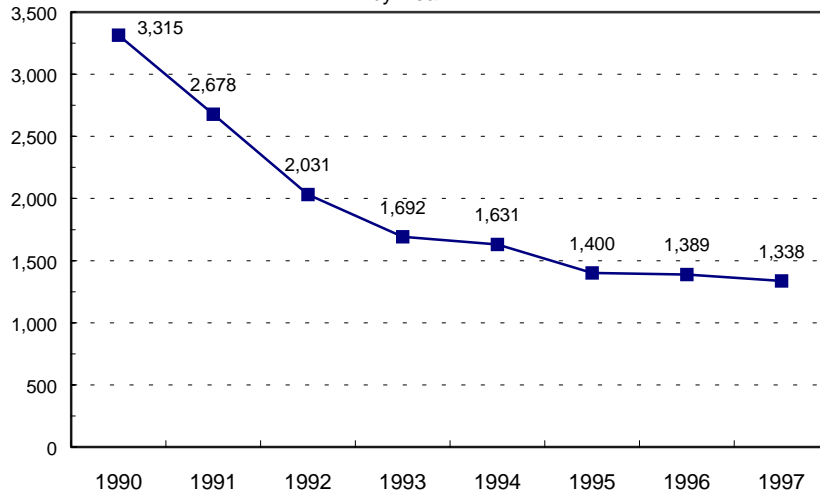


* In Vehicles, Stations, Right of way and others.



Bus Accidents

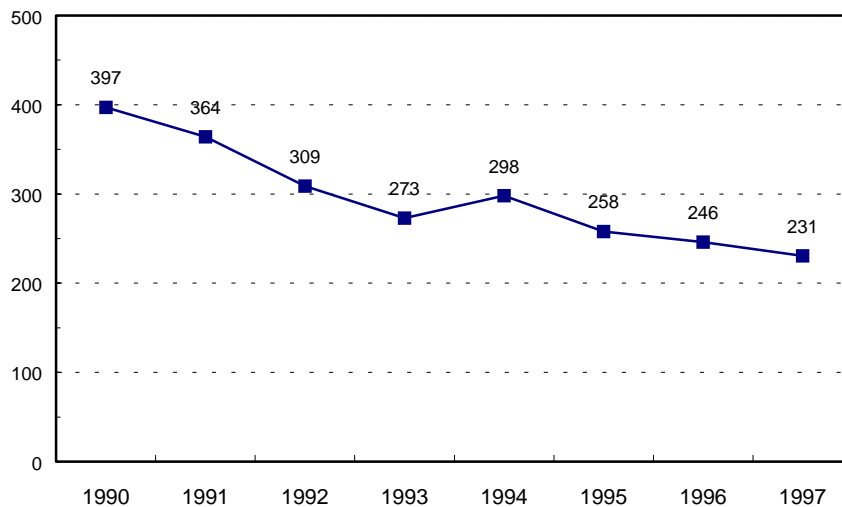
per 100,000,000 Vehicle Miles
by Year



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

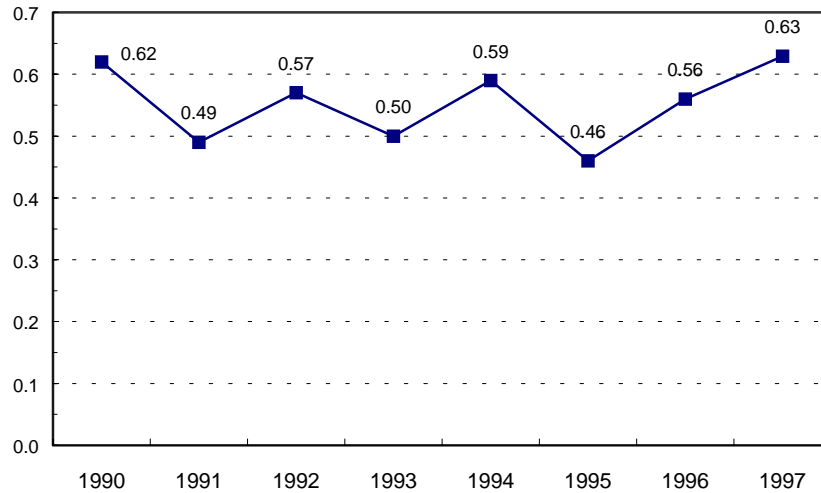
per 100,000,000 Passenger Miles
by Year



This graph shows the trend for bus 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 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 Fatalities

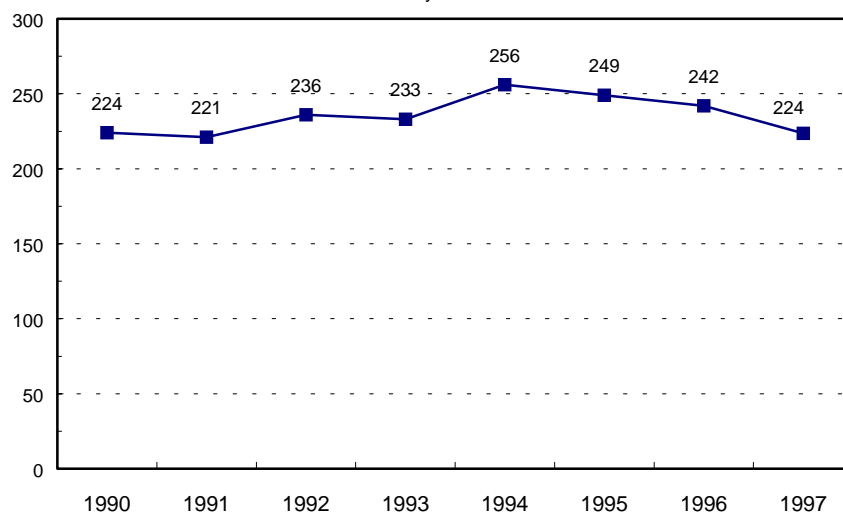
per 100,000,000 Passenger Miles
by Year



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).

Bus Injuries

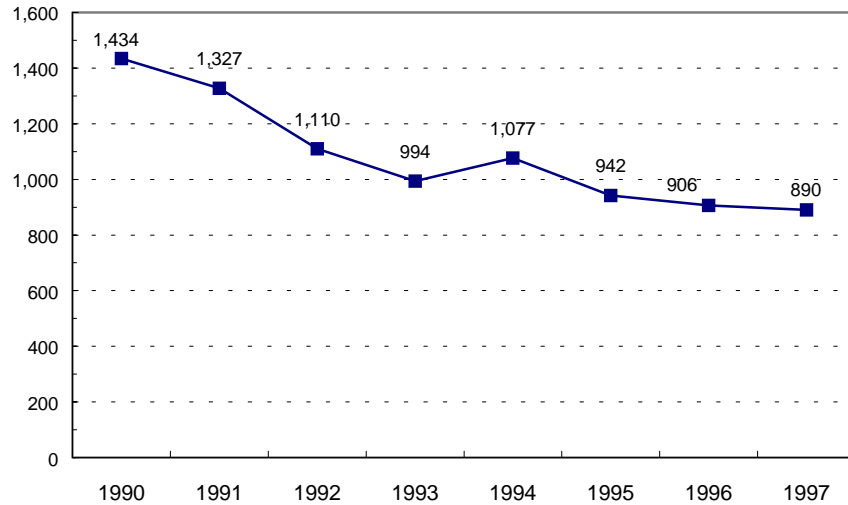
per 100,000,000 Passenger Miles
by Year



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).

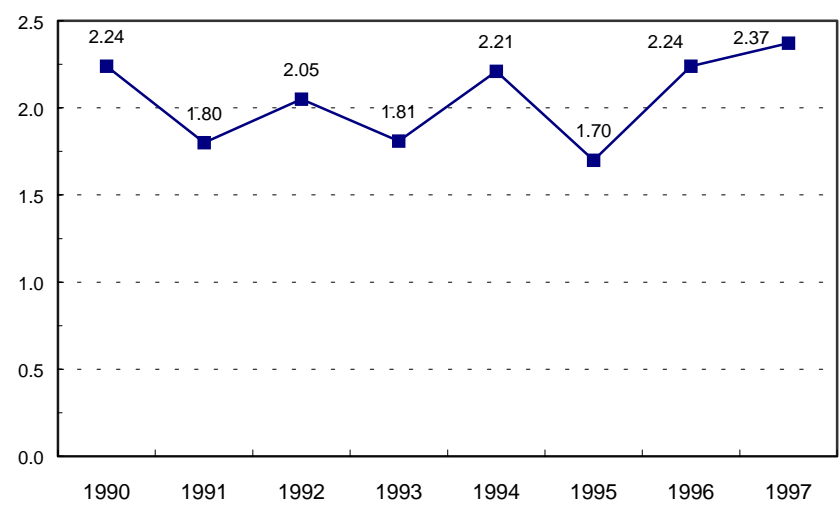
Bus Incidents

of all types
by Year



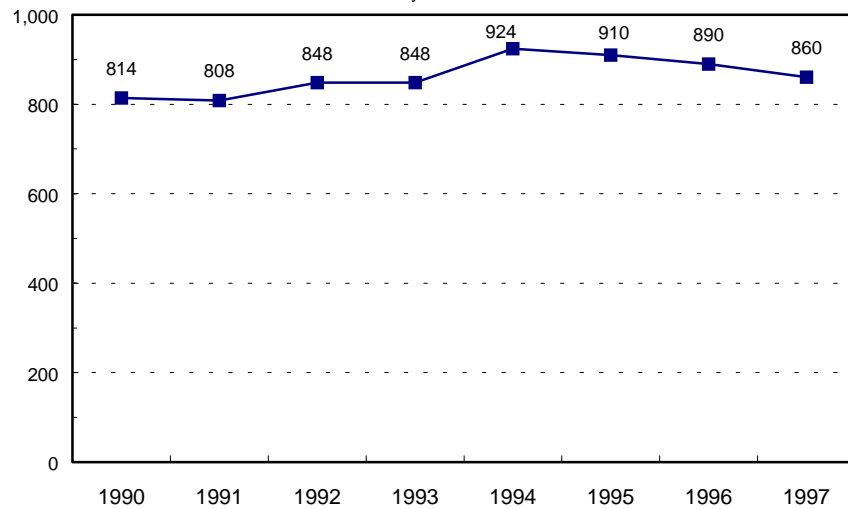
Bus Fatalities

from all causes
by Year



Bus Injuries

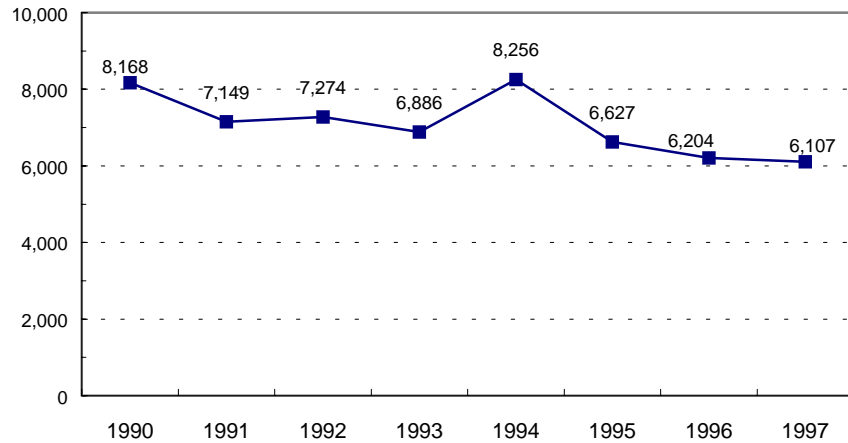
from all causes
by Year



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

Entering/Exiting the Bus*

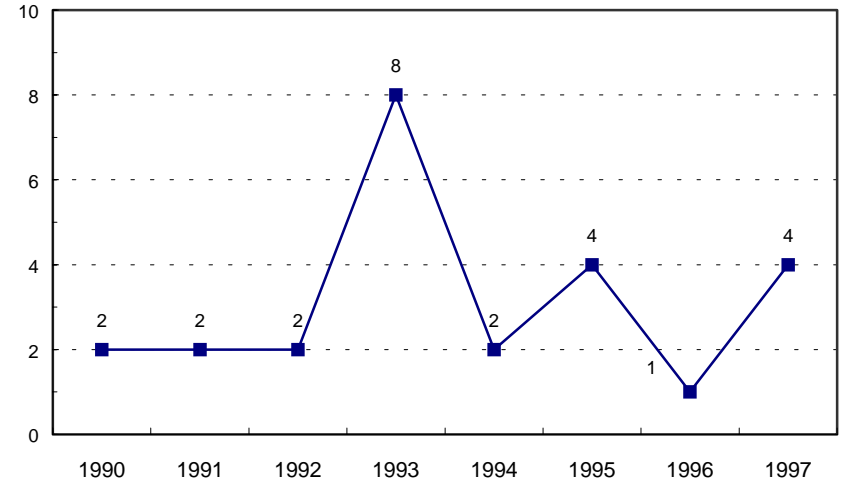
Injuries
by Year



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

Escalator Injuries

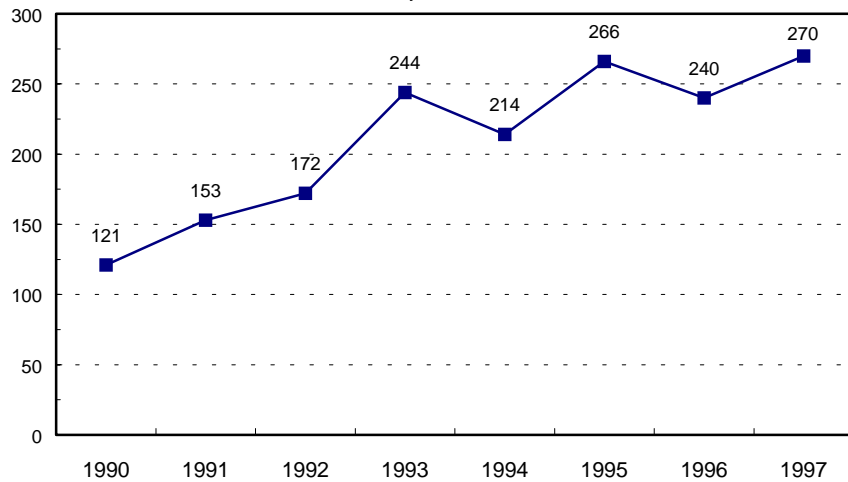
In Bus Stops*
by Year



* This is a sub-category of Personal Casualties.

Lift Injuries

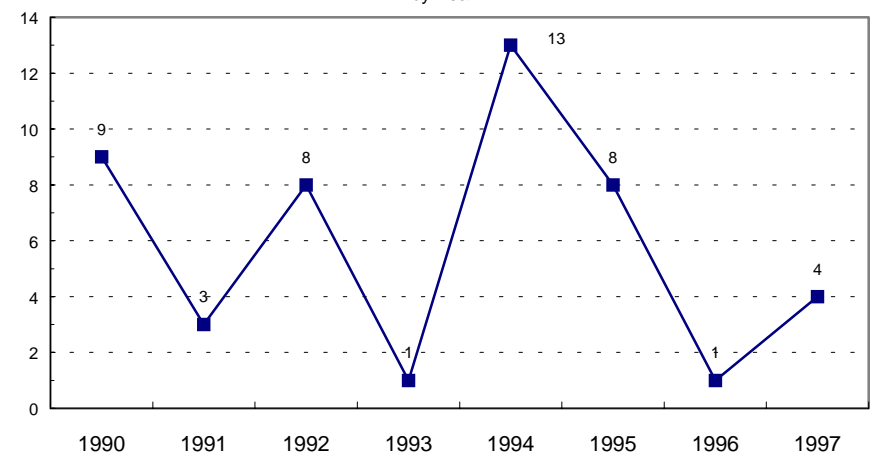
While Entering/Exiting the Bus*
by Year



* This is a sub-category of Personal Casualties.

Suicides*

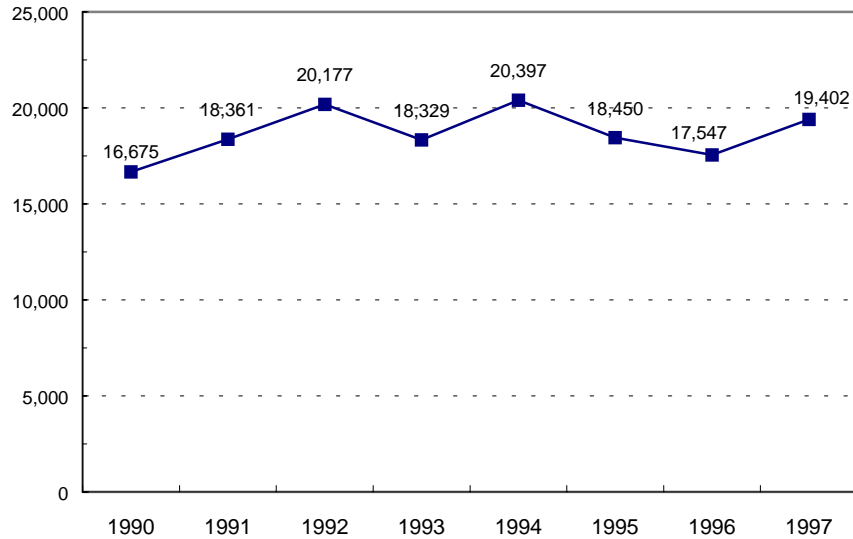
by means of Buses
by Year



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

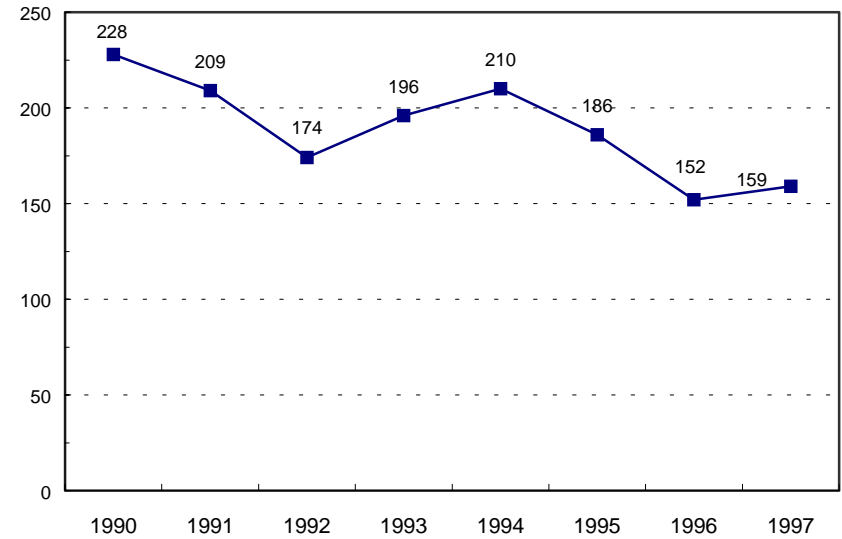
Rail Incidents

by Year



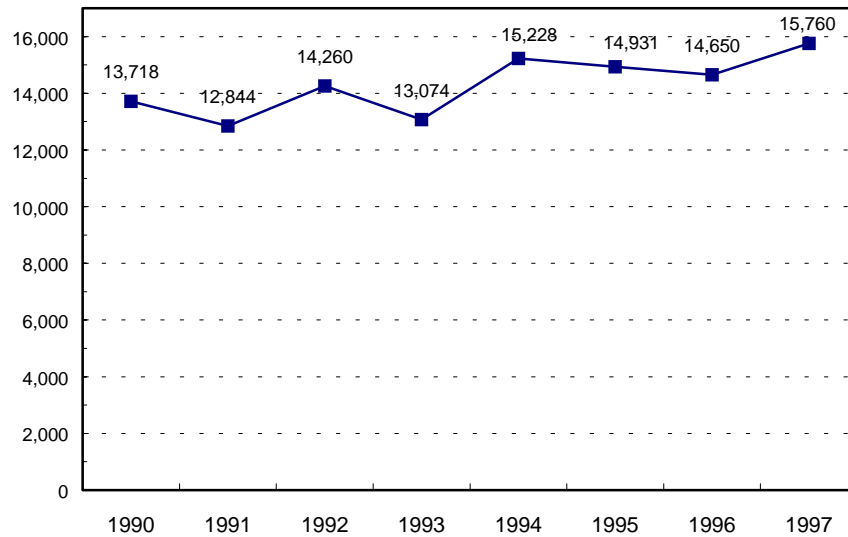
Rail Fatalities

by Year



Rail Injuries

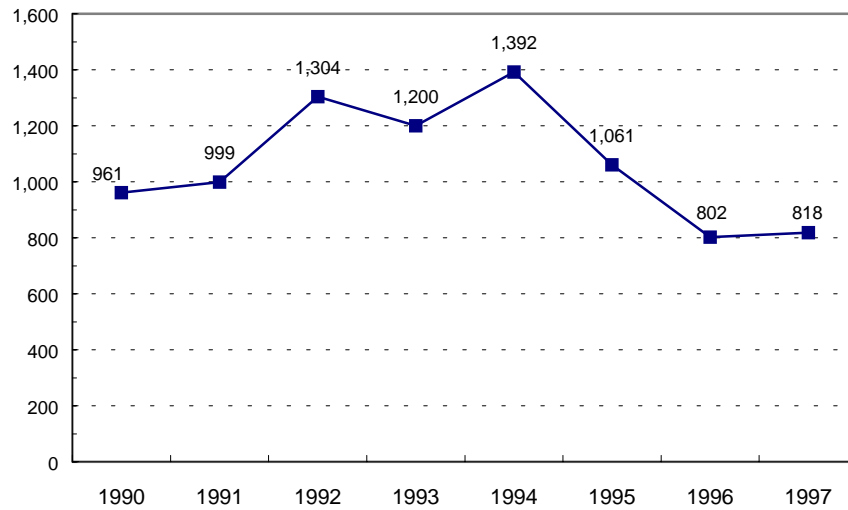
by Year



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

Rail Collisions*

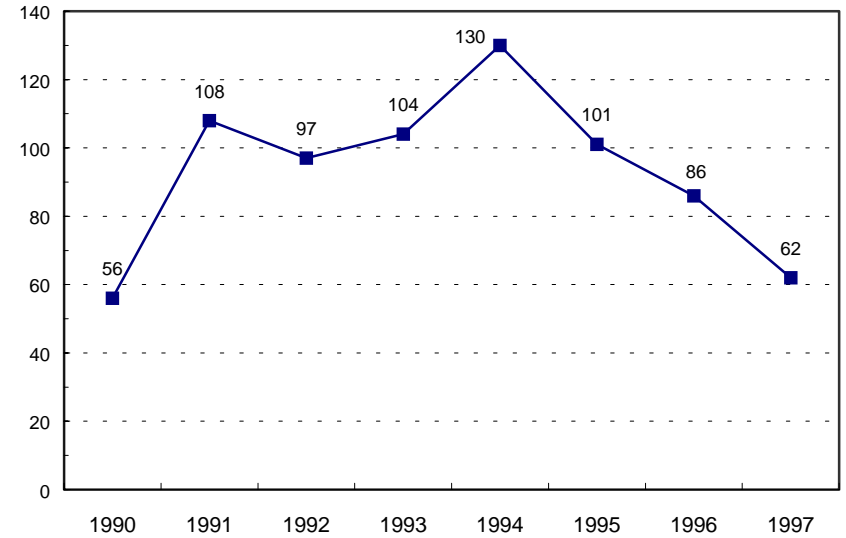
by Year



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

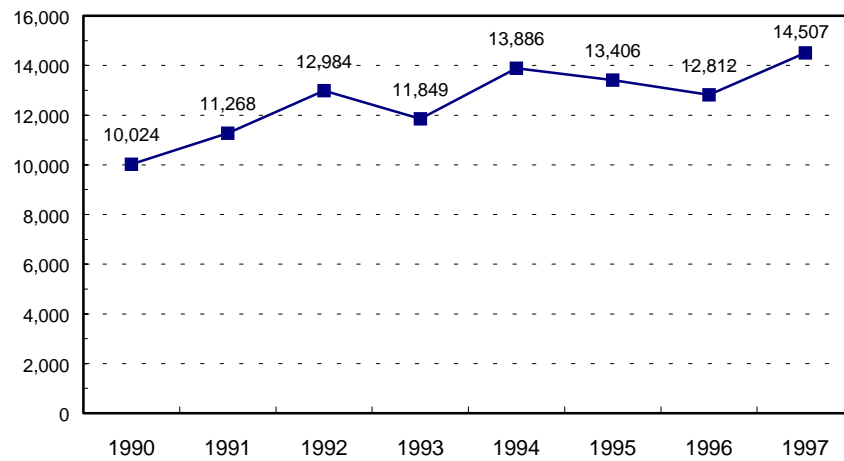
Derailments

by Year



Rail Personal Casualties*

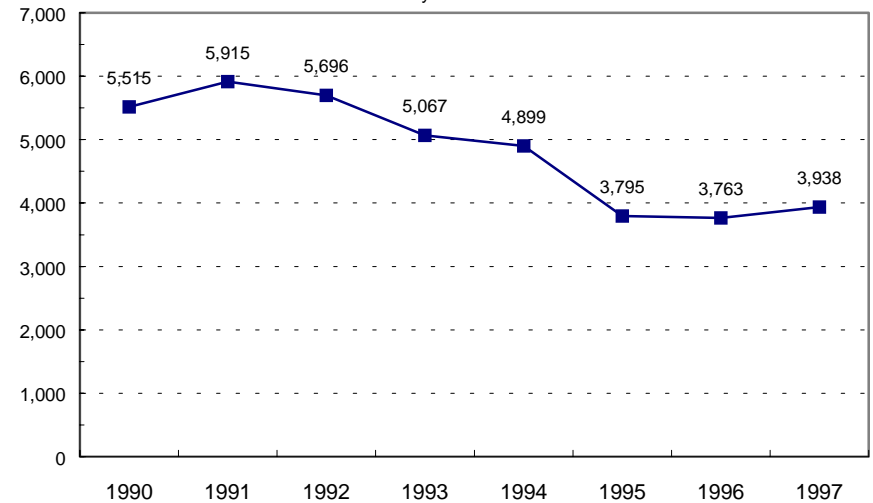
by Year



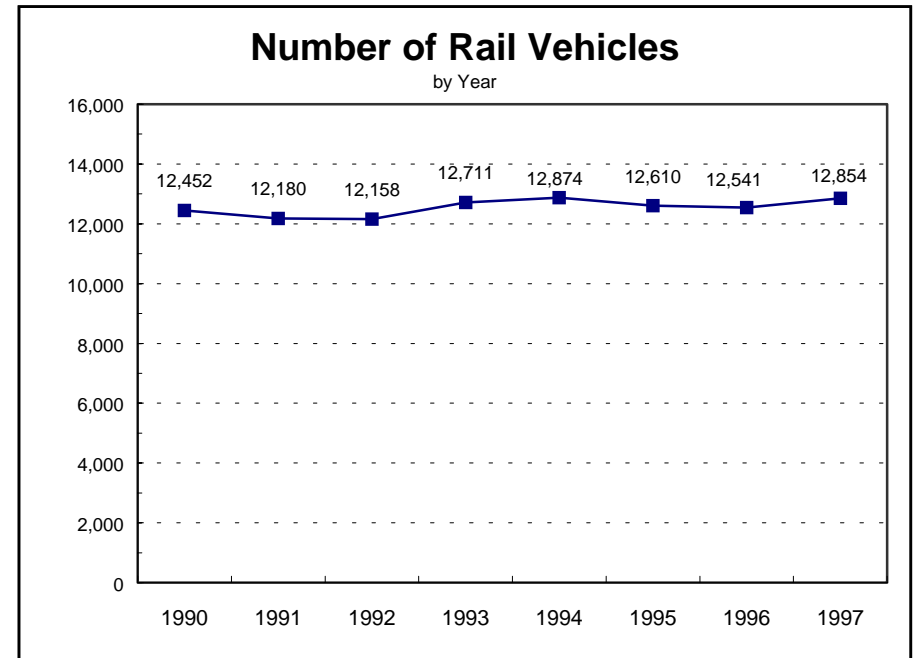
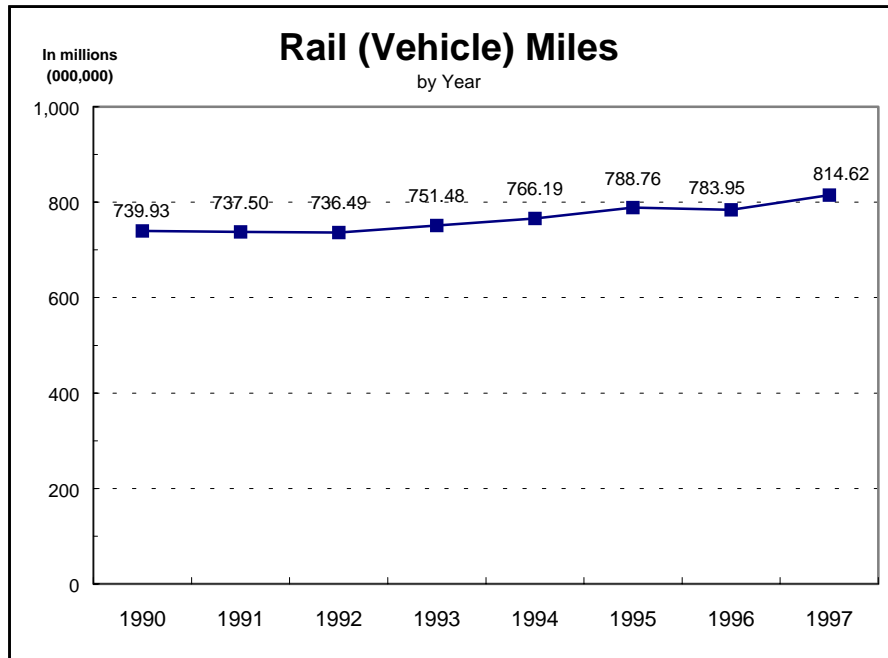
* Personal Casualty is a type of transit mishap category where people are hurt but not as a result of Collisions, Derailments, or Fires. The incidents occur in Parking lots, On Vehicle, Entering/Exiting Vehicle, On R-O-W, and In Station/Stops.

Rail Fires*

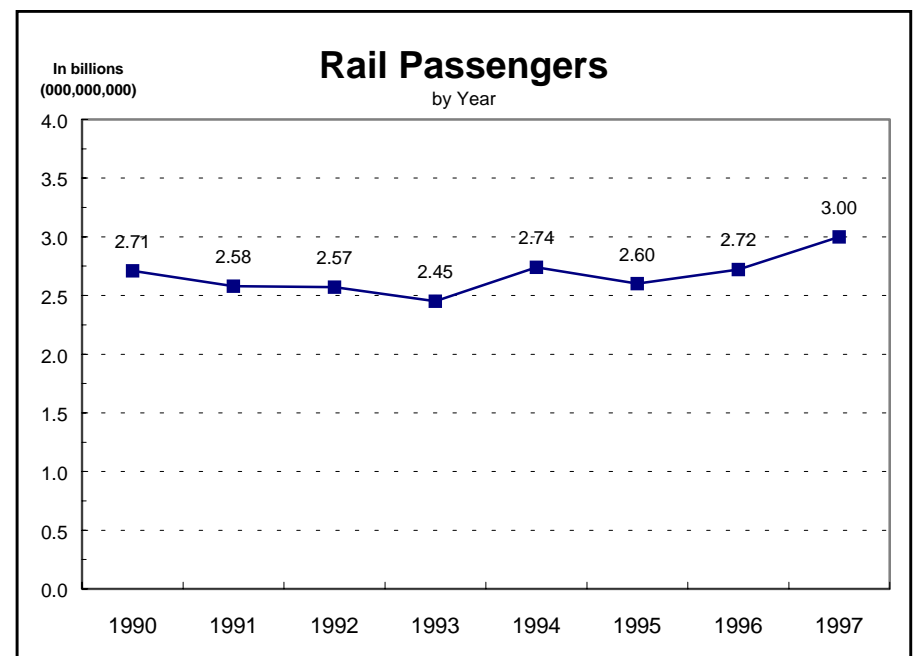
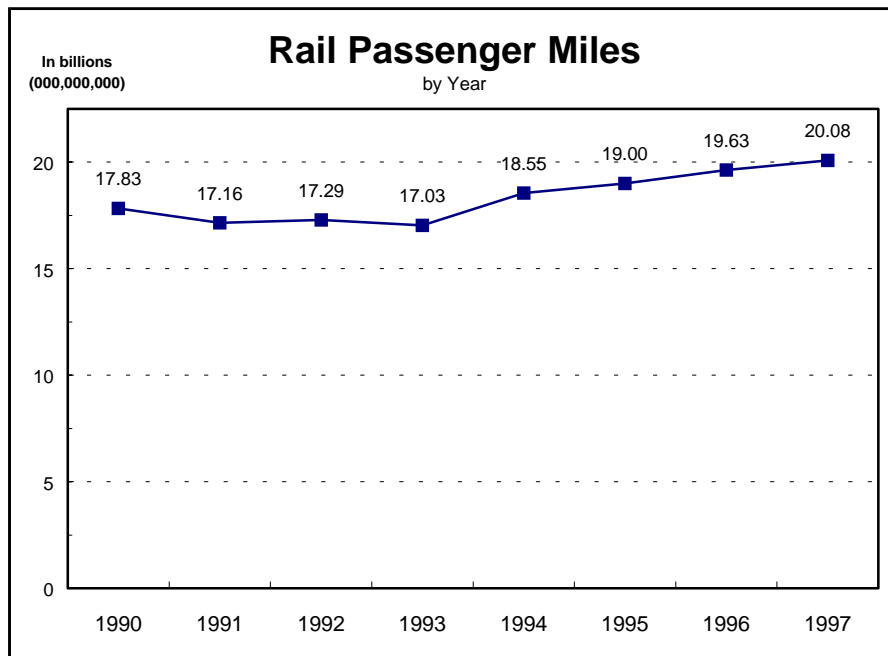
by Year



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

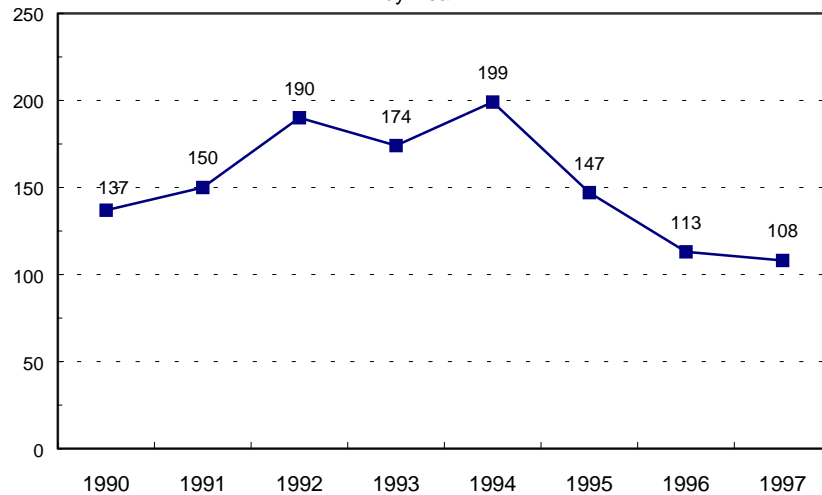


42



Rail Accidents

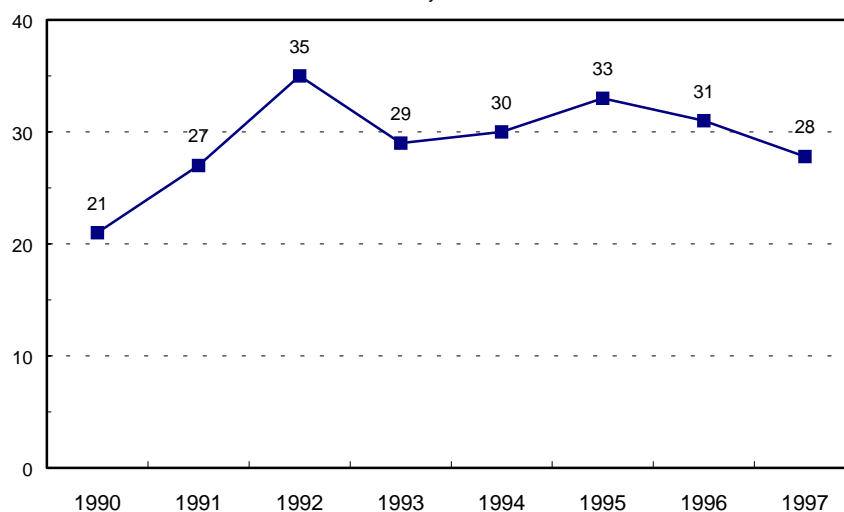
per 100,000,000 Vehicle Miles
by Year



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 **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 rail modes (Commuter Rail, Heavy Rail, and Light Rail) report car rather than train miles for vehicle miles.

Rail Accidents

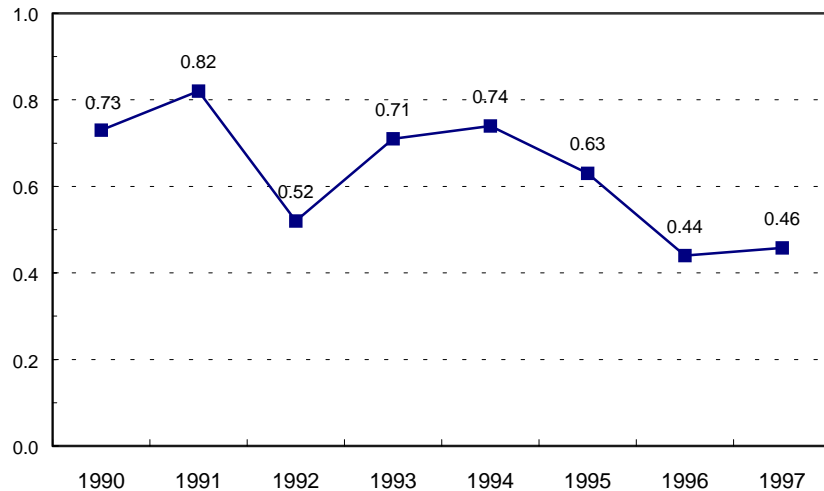
per 100,000,000 Passenger Miles
by Year



This graph shows the trend for rail vehicle 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 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 Fatalities

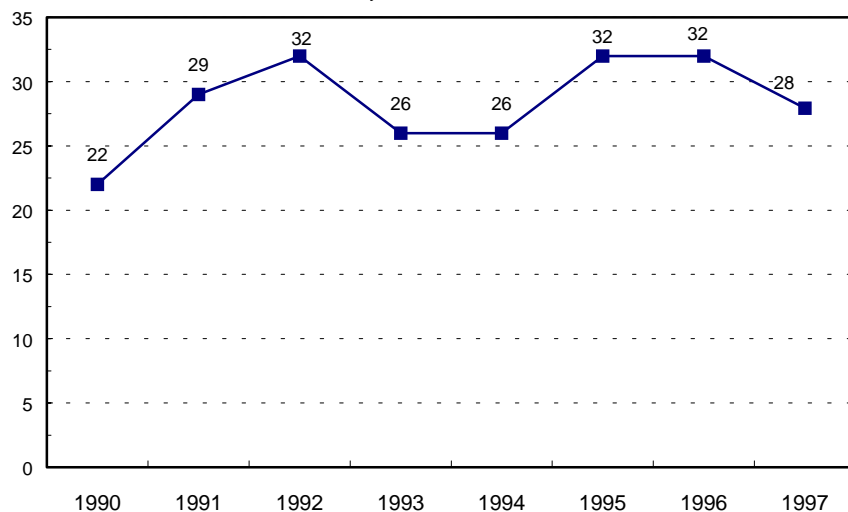
per 100,000,000 Passenger Miles
by Year



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).

Rail Injuries

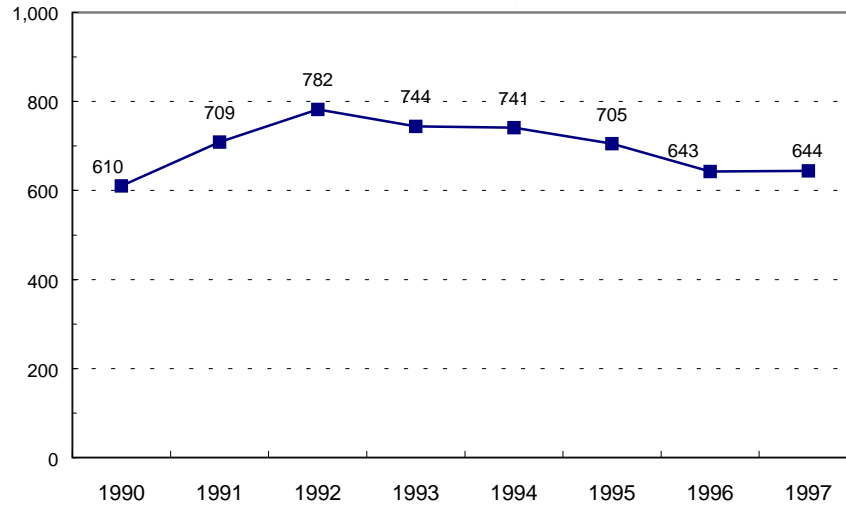
per 100,000,000 Passenger Miles
by Year



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).

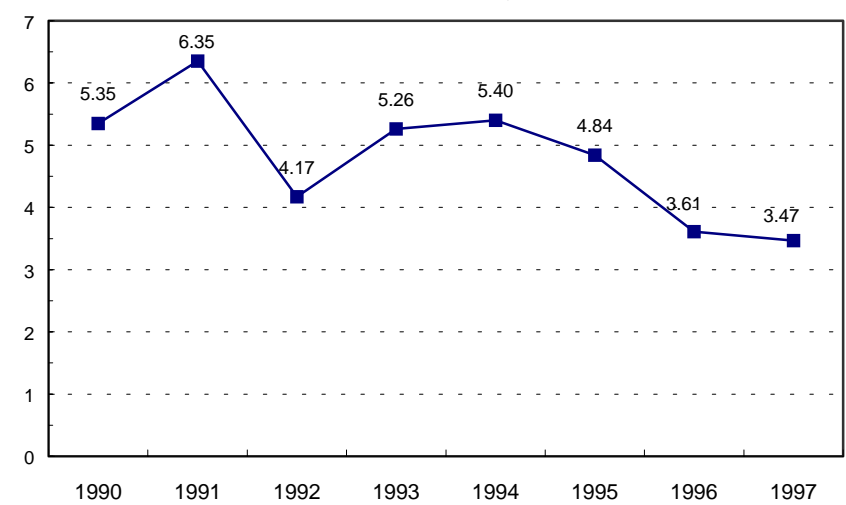
Rail Incidents

of all types
per 100,000,000 Passengers



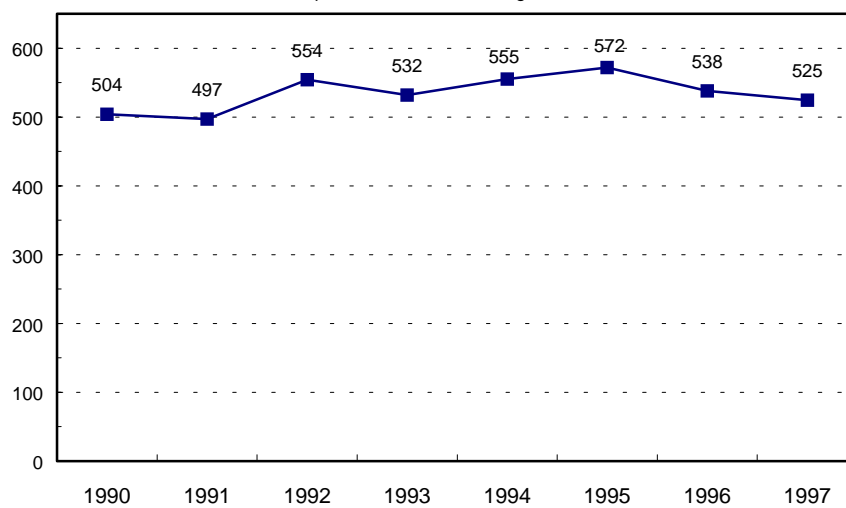
Rail Fatalities

from all causes
per 100,000,000 Passengers

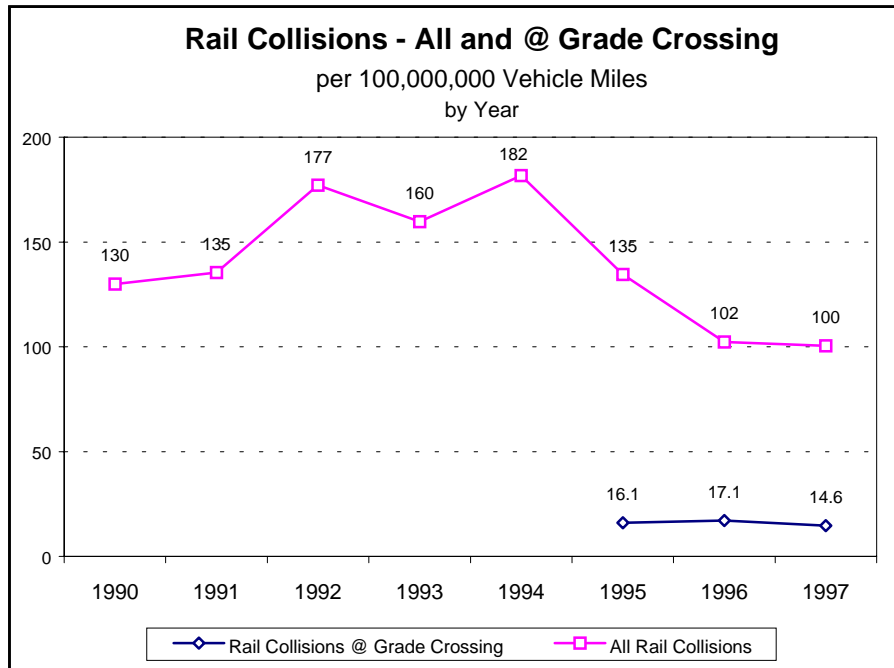


Rail Injuries

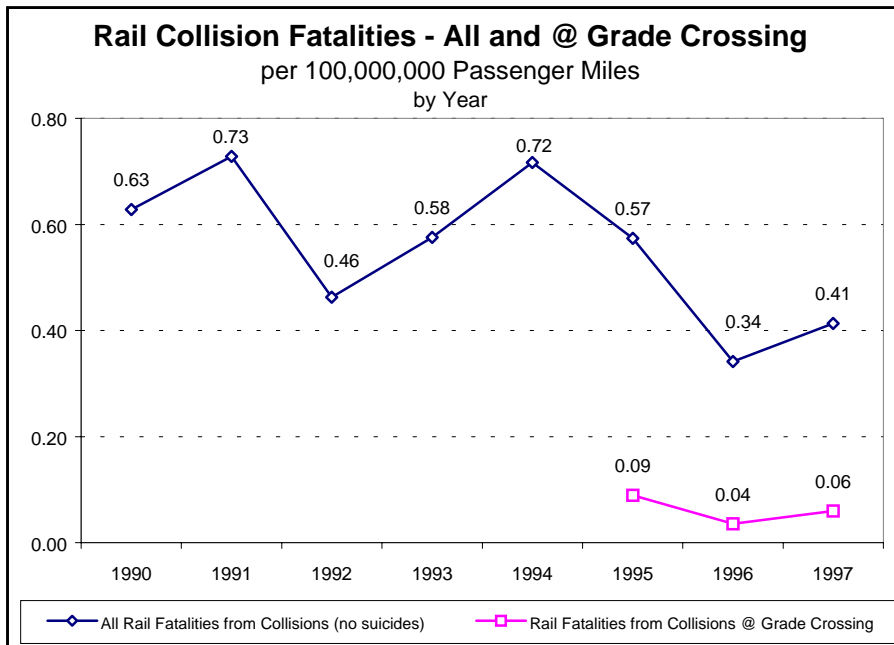
from all causes
per 100,000,000 Passengers



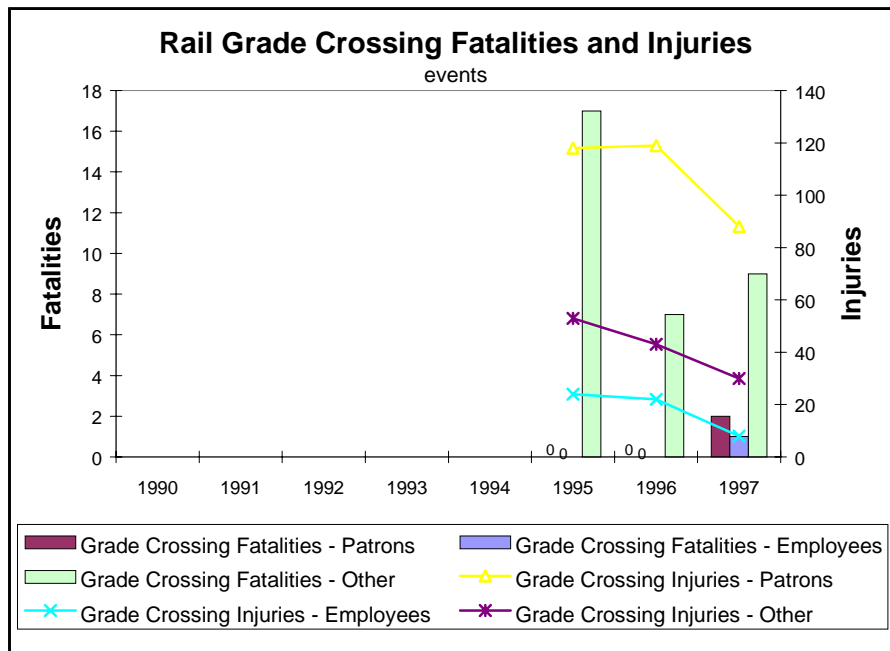
These graphs depict rail vehicle trends for *incident*, *fatality* and *injury* rates, from all causes (except suicides) listed in the Transit Safety Form (405), i.e., **Collisions, Derailments, Personal Casualties, and Fires.**



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).



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.

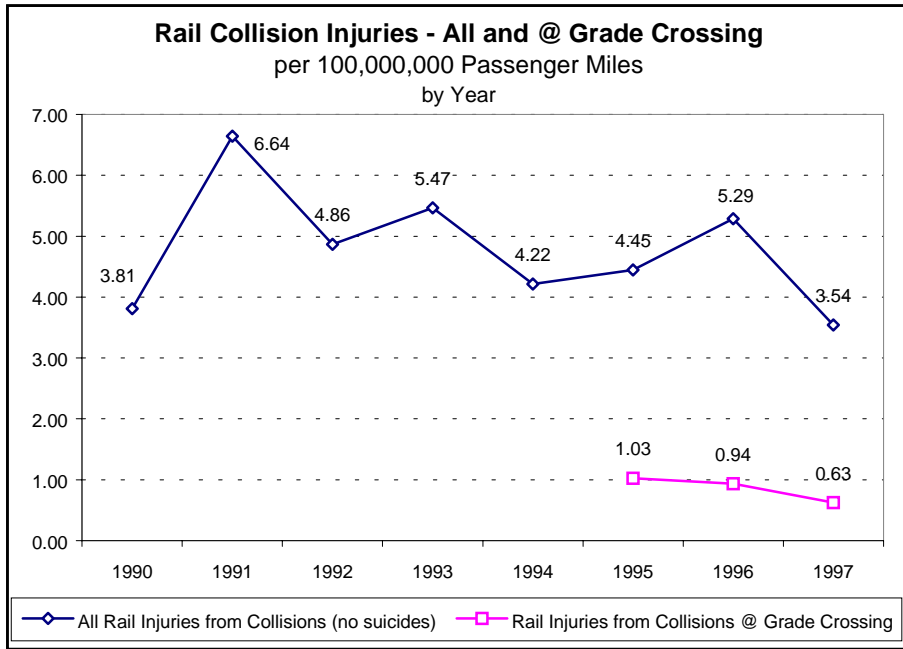


This graph shows the *fatalities* (bars) and *injuries* (lines) that occur at grade crossings.

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

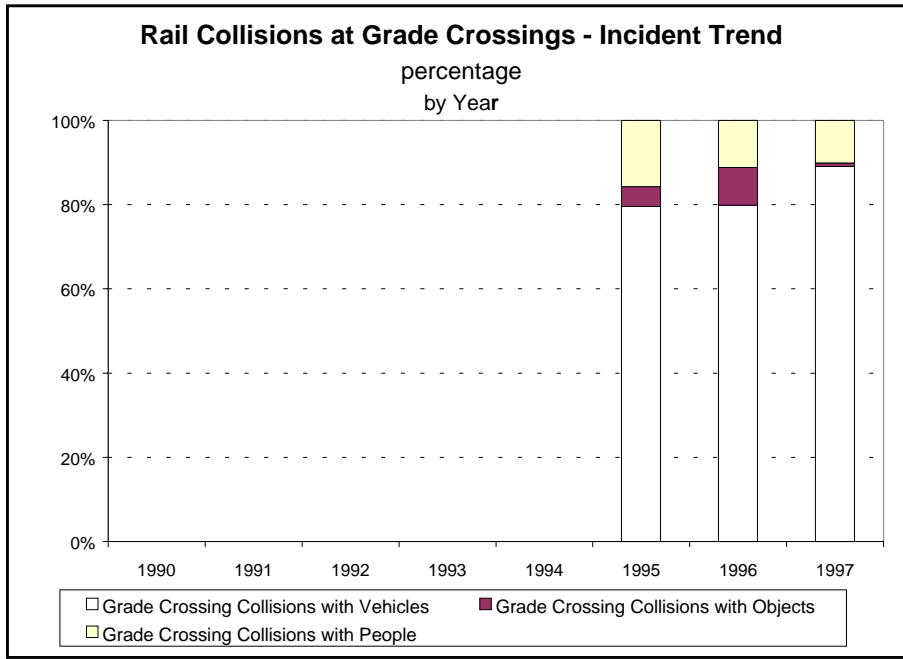
The majority of injuries are Patrons.

Both fatalities and injuries are trending down.



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.

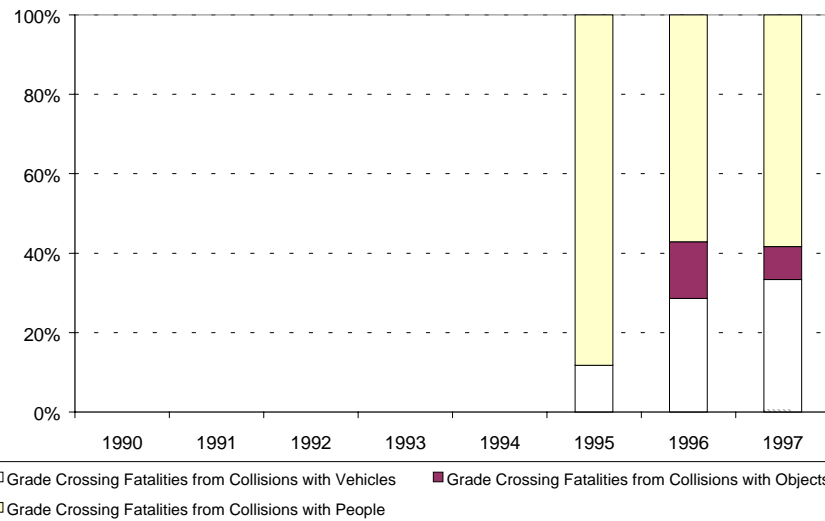
48



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

percentage
by Year

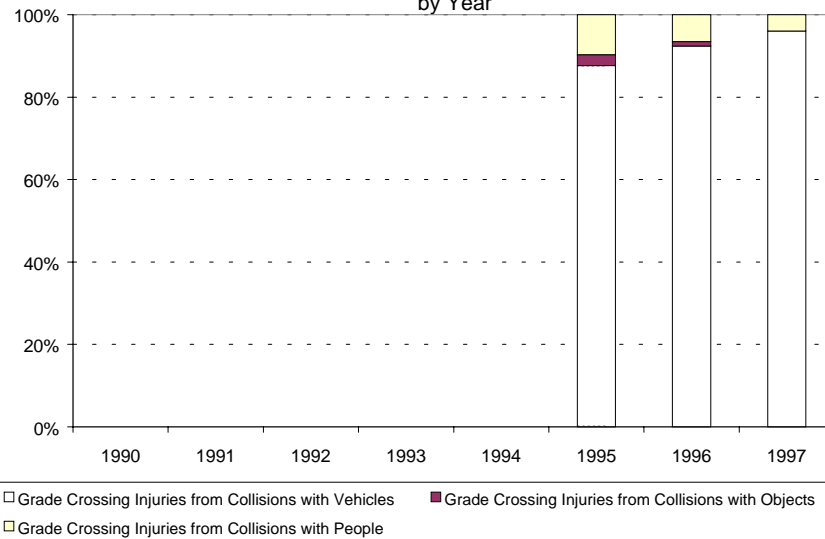


This graph shows the percentage of each type of grade crossing *fatality* (i.e., Collisions with other vehicles, objects, and people) to the total **Fatalities at grade crossings.**

49

Rail Collisions at Grade Crossings - Injury Trend

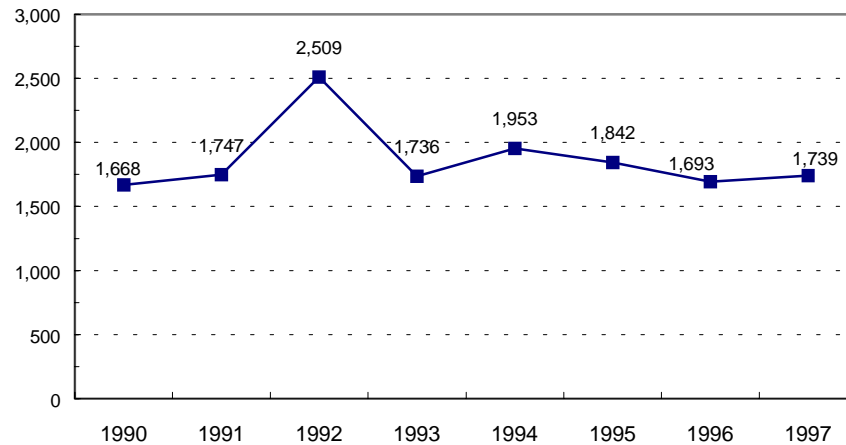
percentage
by Year



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.**

Entering/Exiting the Rail Vehicle*

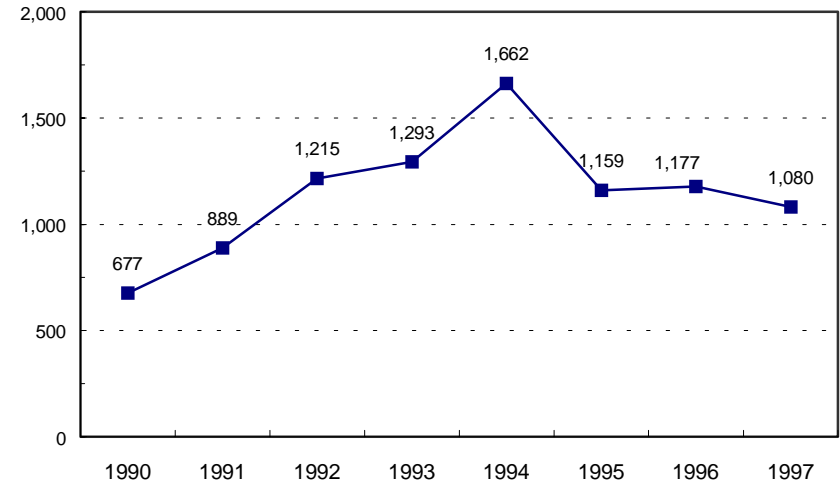
Injuries
by Year



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

Escalator Injuries

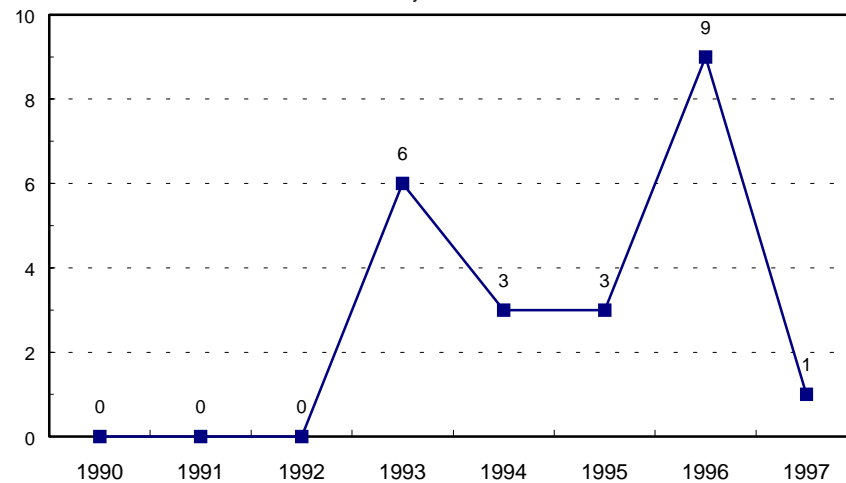
In Rail Stations*
by Year



* This is a sub-category of Personal Casualties.

Lift Injuries

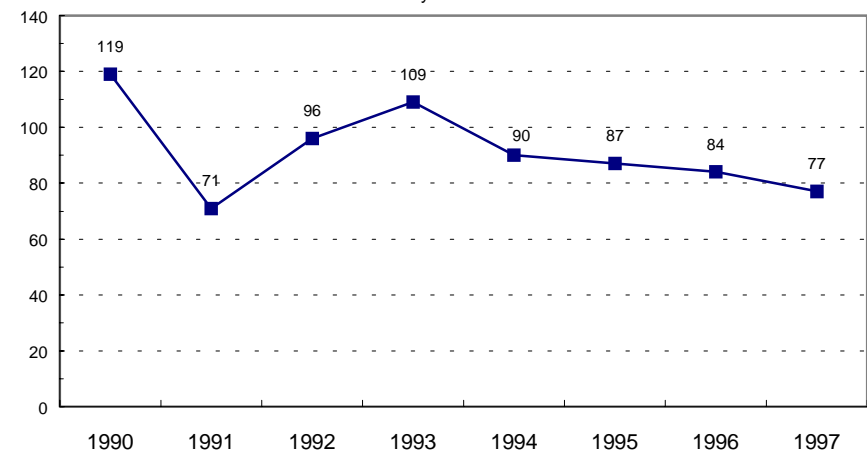
While Entering/Exiting the Rail Vehicle*
by Year



* This is a sub-category of Personal Casualties.

Suicides*

by means of Rail Vehicles
by Year



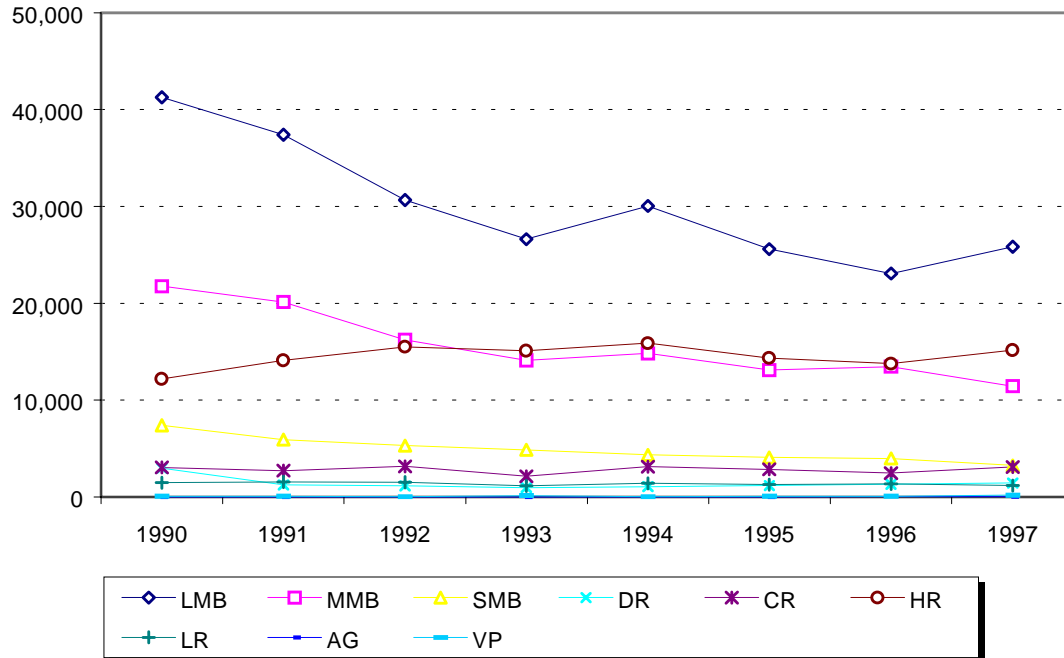
* Incidents of attempted suicides. They include fatalities, injuries, and unharmed. This is a sub-category of Collisions (with people)

**A look at SAMIS safety data from 1990 through 1997
(Individual Transit Modes)**

TREND

Incidents

by Mode and Year

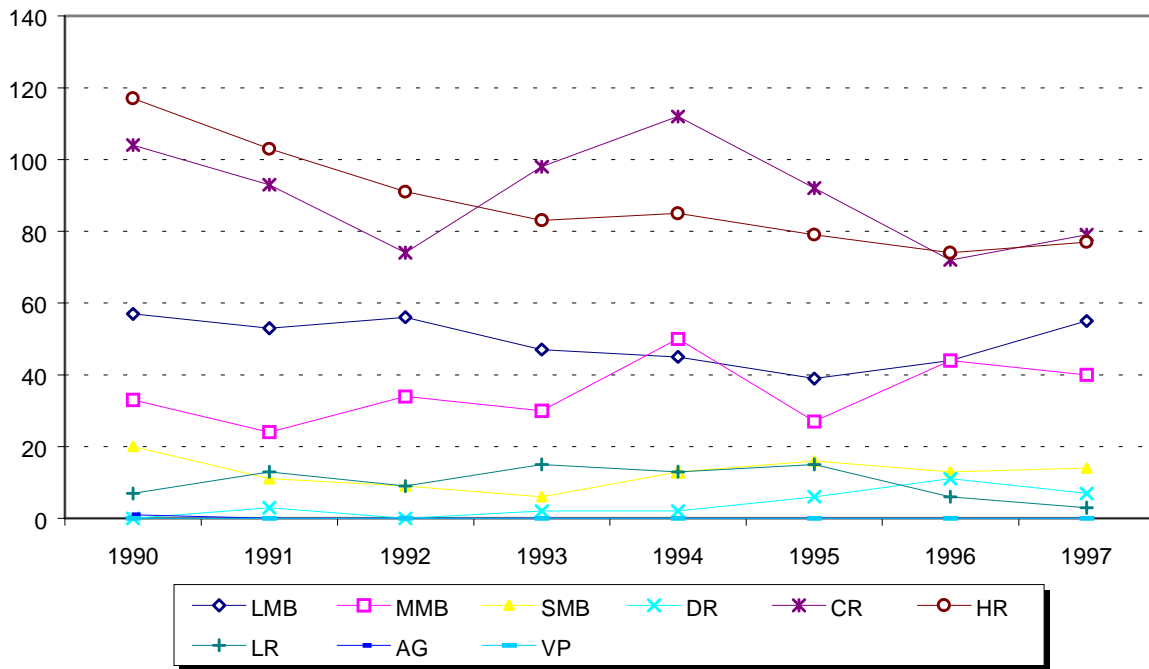


Incidents by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
LMB	41,266	37,403	30,652	26,626	30,038	25,599	23,060	25,833
MMB	21,764	20,116	16,222	14,109	14,809	13,102	13,437	11,422
SMB	7,407	5,934	5,308	4,845	4,338	4,079	3,959	3,268
DR	2,965	1,241	1,137	946	1,062	1,173	1,284	1,454
CR	3,031	2,716	3,160	2,111	3,115	2,847	2,449	3,078
HR	12,178	14,102	15,512	15,082	15,869	14,327	13,748	15,151
LR	1,465	1,543	1,492	1,136	1,413	1,276	1,350	1,173
AG	3	1	8	10	10	10	25	19
VP	84	83	40	121	39	58	80	162
Total	90,163	83,139	73,831	64,986	70,693	62,471	59,392	61,560

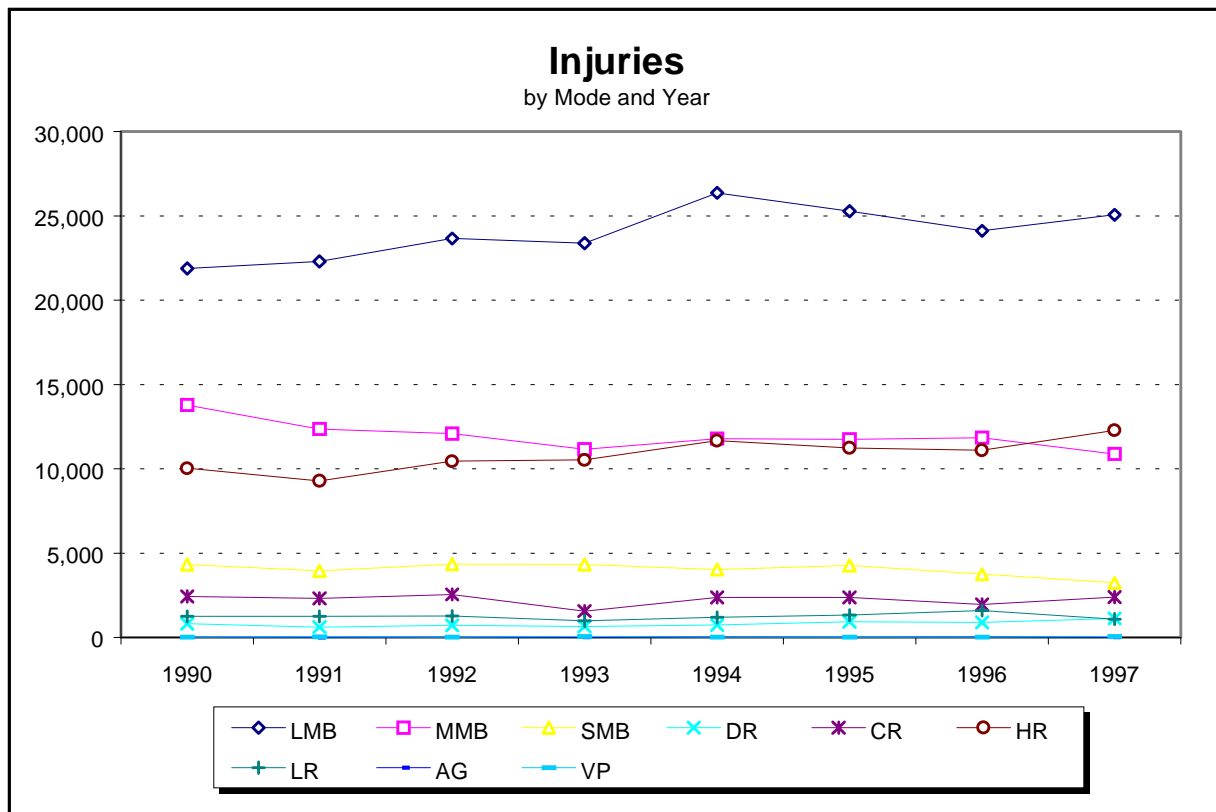
Fatalities

by Mode and Year



Fatalities by Mode and Year

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

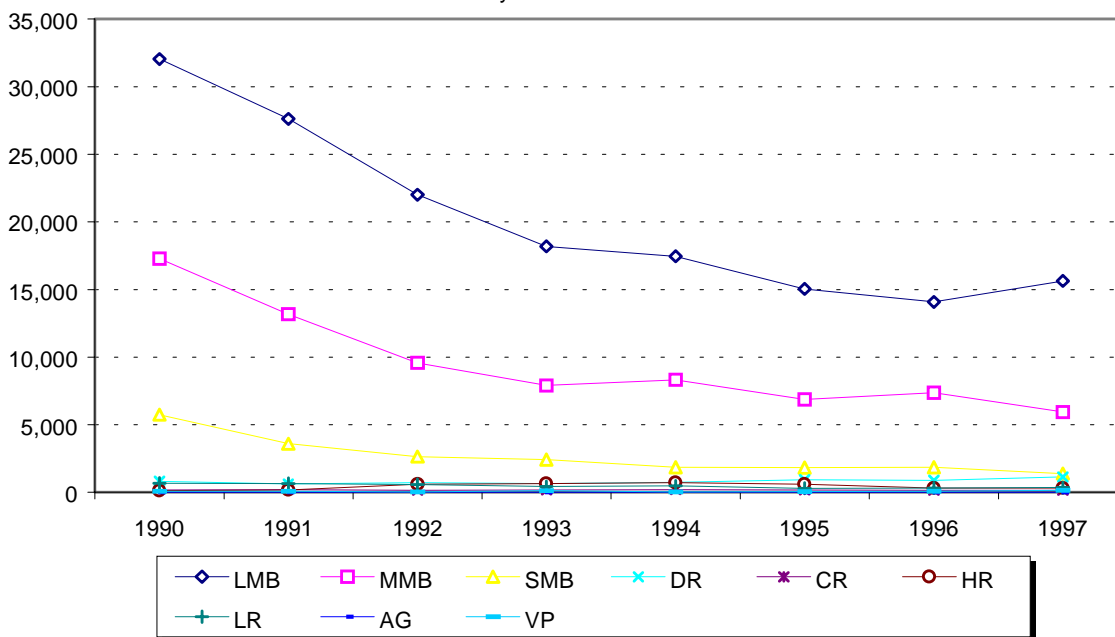


Injuries by Mode and Year

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

Collisions

with Vehicles, Objects, and People
by Mode and Year



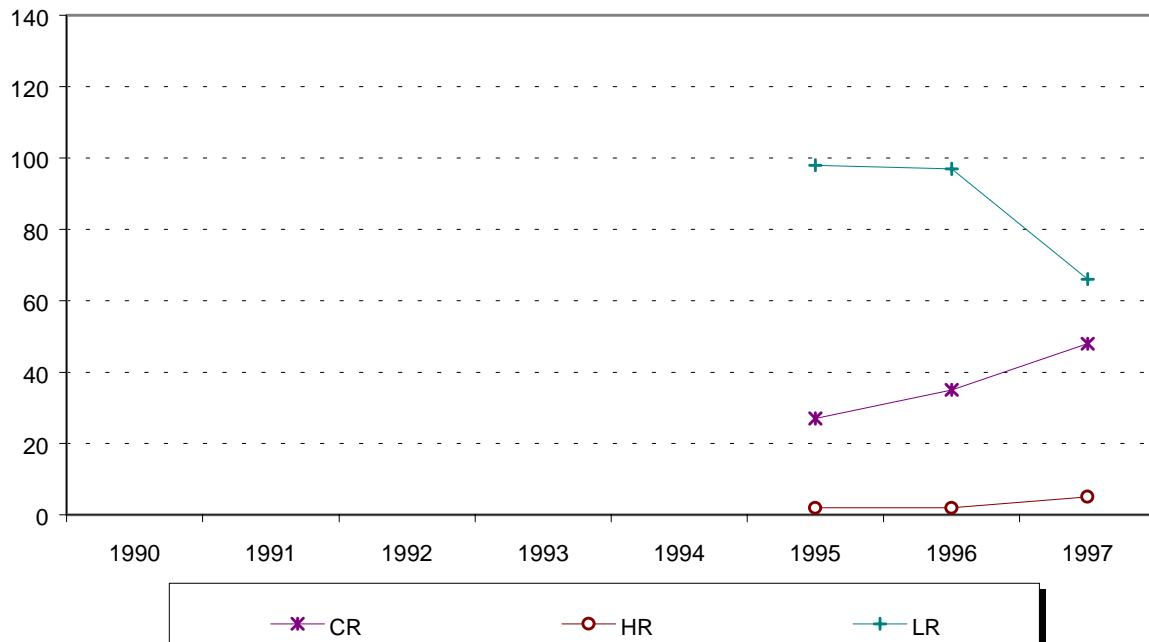
Collisions* by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
LMB	32,507	27,608	21,994	18,177	17,450	15,035	14,091	15,619
MMB	17,282	13,159	9,576	7,904	8,324	6,866	7,366	5,924
SMB	5,737	3,583	2,634	2,410	1,851	1,832	1,848	1,376
DR	1,606	810	665	513	644	640	768	878
CR	160	188	139	166	201	171	151	157
HR	134	180	585	630	718	600	328	309
LR	668	631	573	419	473	290	323	352
AG	1	0	1	1	1	1	1	3
VP	81	79	35	118	36	54	77	159
Total	57,726	46,238	36,202	30,338	29,698	25,489	24,953	24,777

* Does not include suicides

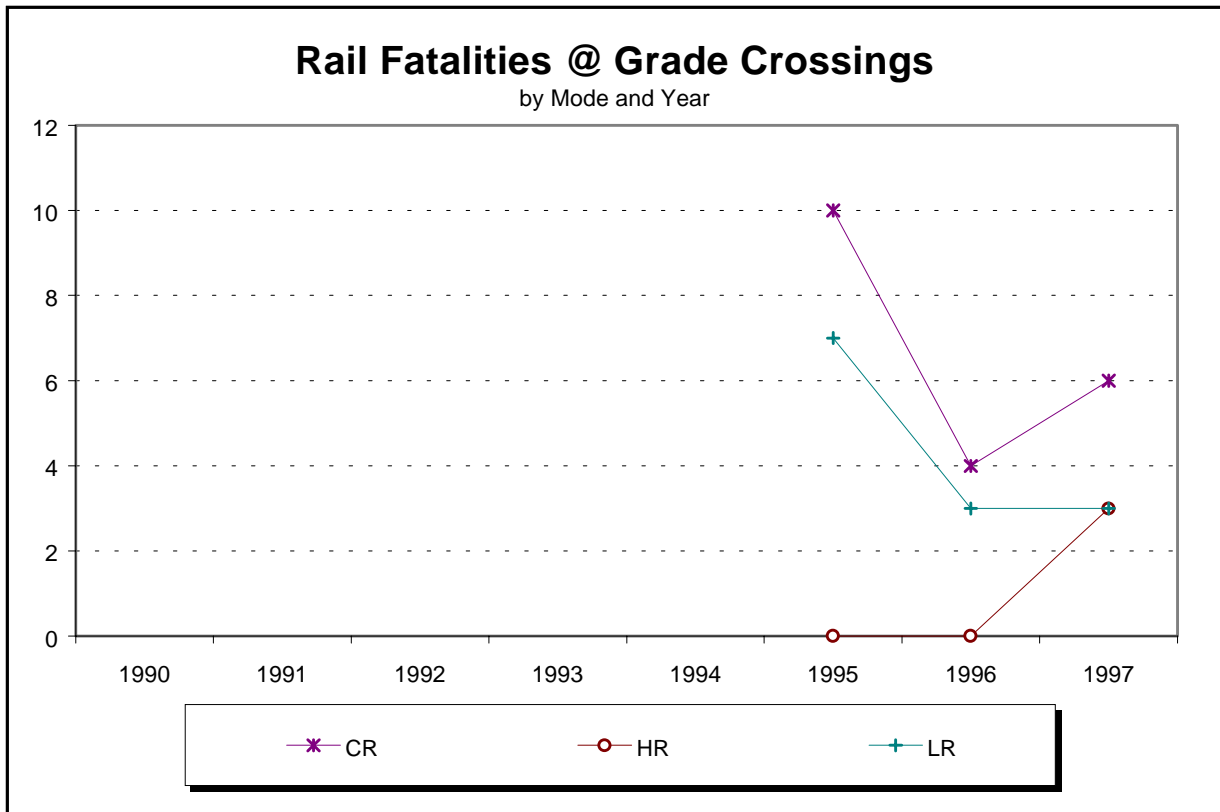
Rail Incidents @ Grade Crossings

by Mode and Year



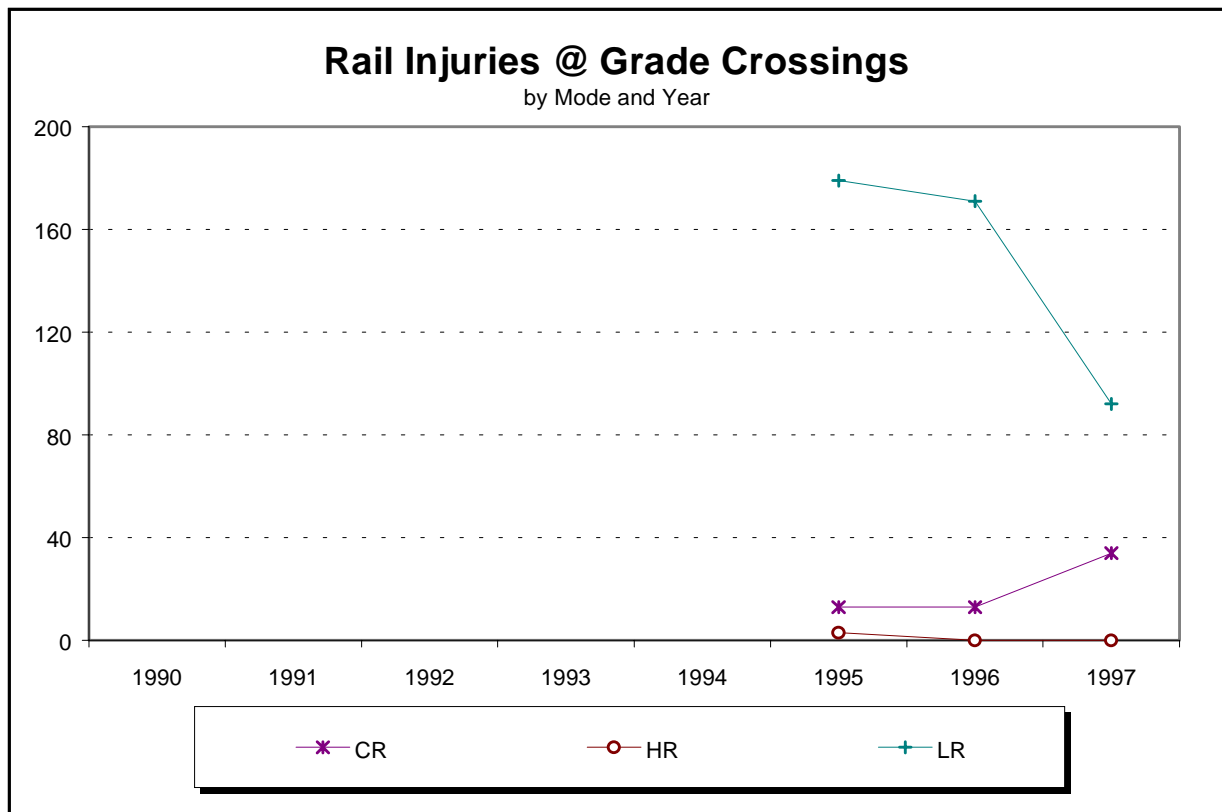
Rail Grade Crossing Incidents by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
CR						27	35	48
HR						2	2	5
LR						98	97	66
Total						127	134	119



Grade Crossing Fatalities by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
CR						10	4	6
HR						0	0	3
LR						7	3	3
Total						17	7	12

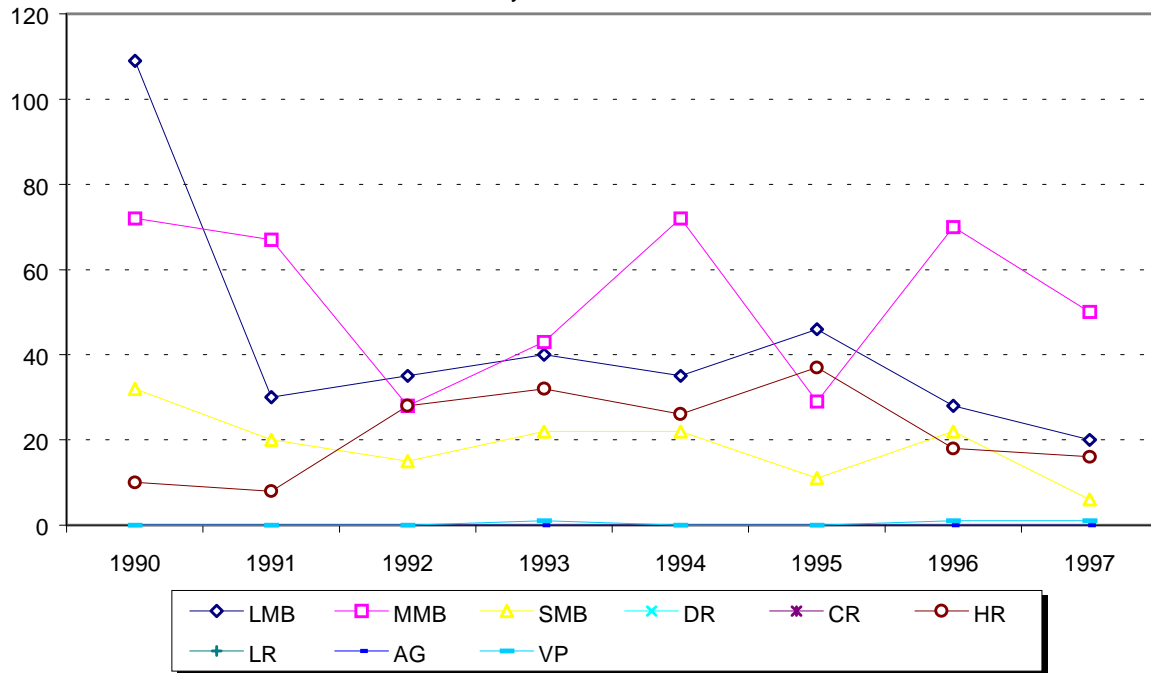


Grade Crossing Injuries by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
CR						13	13	34
HR						3	0	0
LR						179	171	92
Total						195	184	126

Derailments/Buses going off road

by Mode and Year

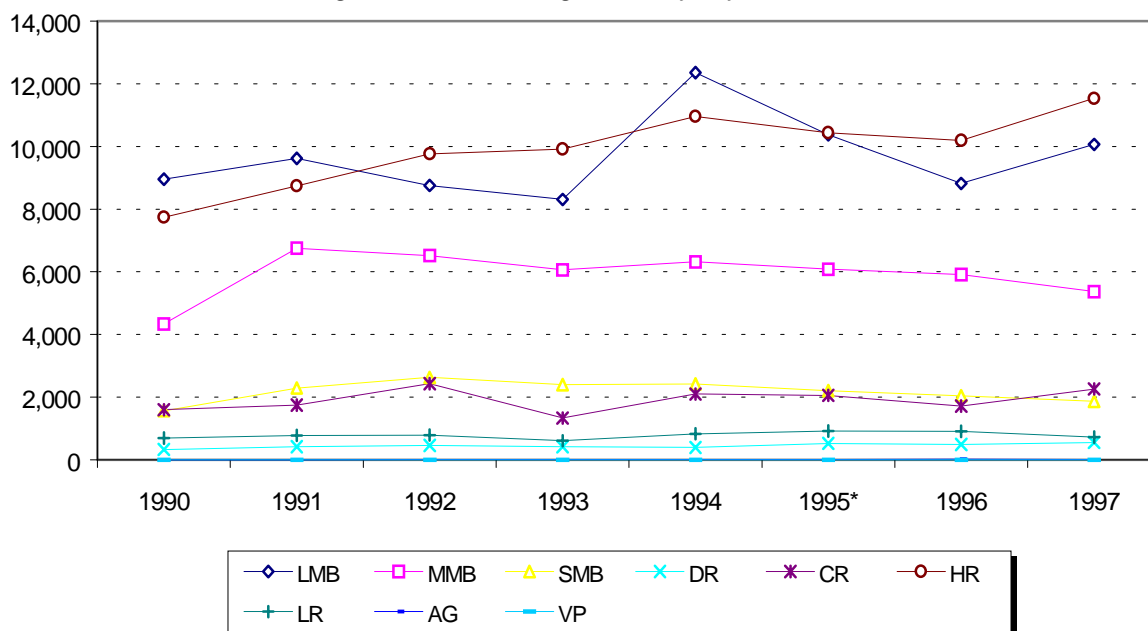


Derailments/Buses going off road by Mode and Year

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

Personal Casualties

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

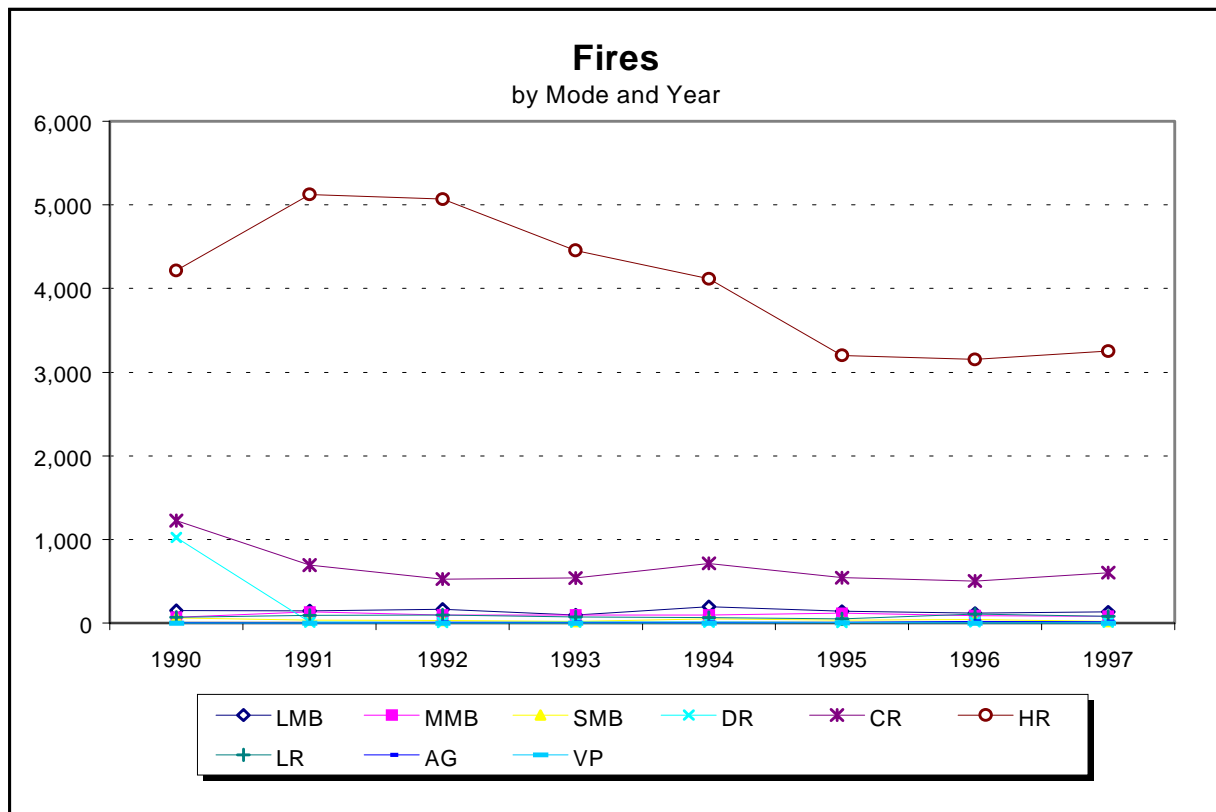


* Starting in 1995, Personal Casualties in Parking Facilities and R-O-W were added to Form 405 as distinct sub categories of Personal Casualties

Personal Casualties by Mode and Year

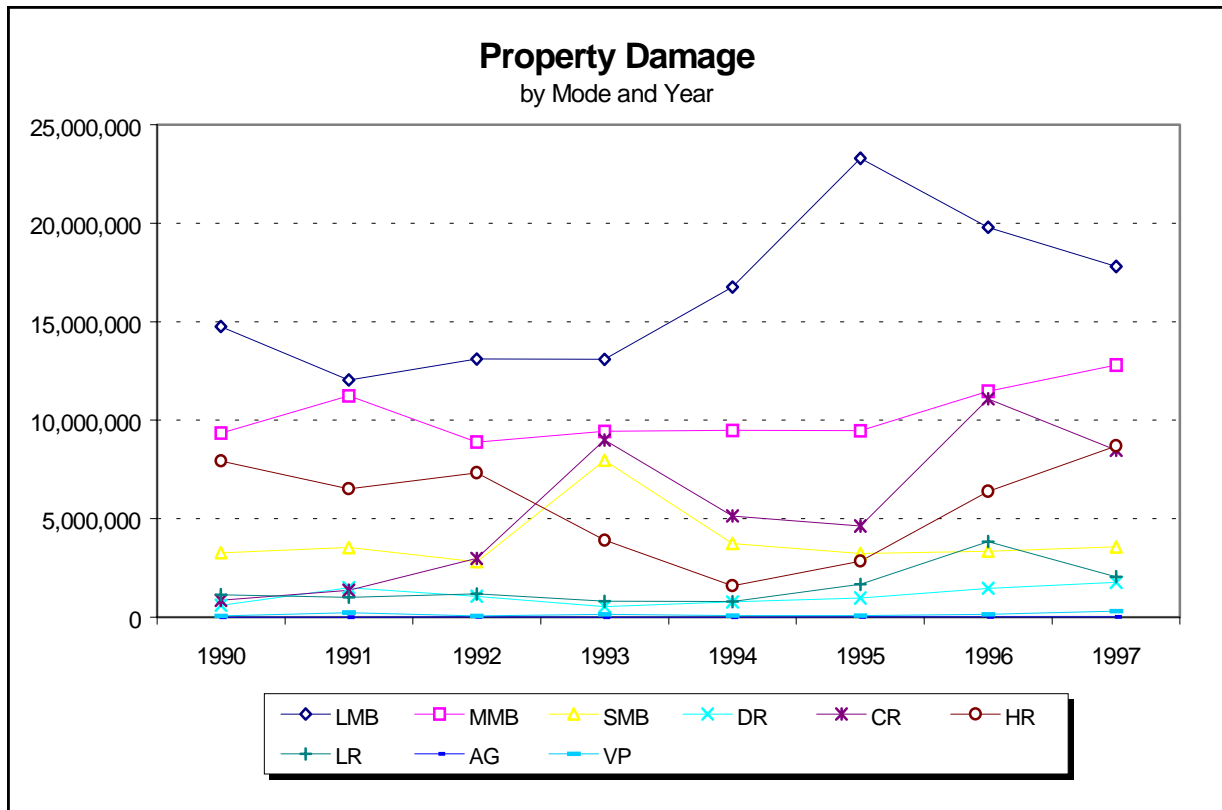
	1990	1991	1992	1993	1994	1995*	1996	1997
LMB	8,949	9,618	8,753	8,309	12,348	10,372	8,820	10,057
MMB	4,335	6,753	6,514	6,062	6,312	6,084	5,909	5,362
SMB	1,569	2,294	2,628	2,394	2,412	2,199	2,045	1,865
DR	330	415	461	412	391	520	494	558
CR	1,592	1,751	2,429	1,326	2,102	2,057	1,719	2,254
HR	7,740	8,743	9,766	9,916	10,952	10,438	10,190	11,526
LR	692	774	789	607	832	911	903	727
AG	2	0	7	9	8	8	20	15
VP	3	4	5	1	2	2	2	2
Total	25,212	30,352	31,352	29,036	35,359	32,591	30,102	32,366

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



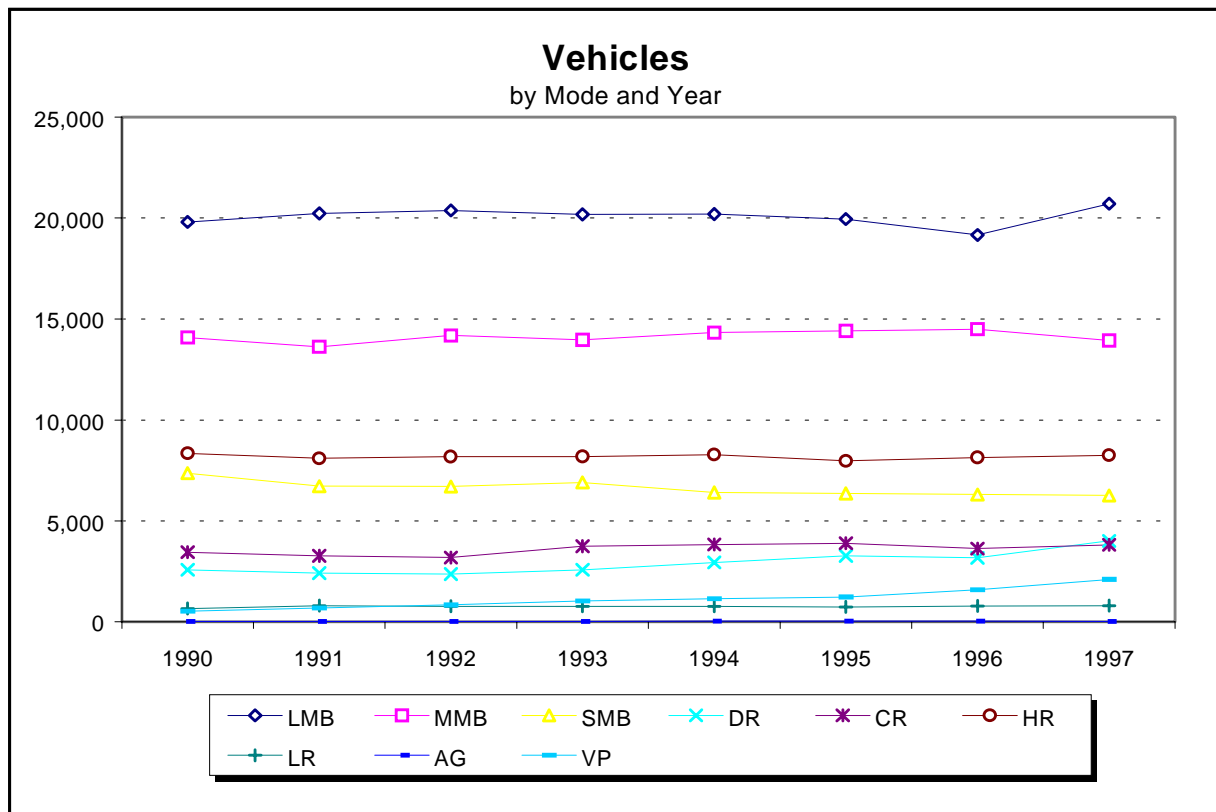
Fires by Mode and Year

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



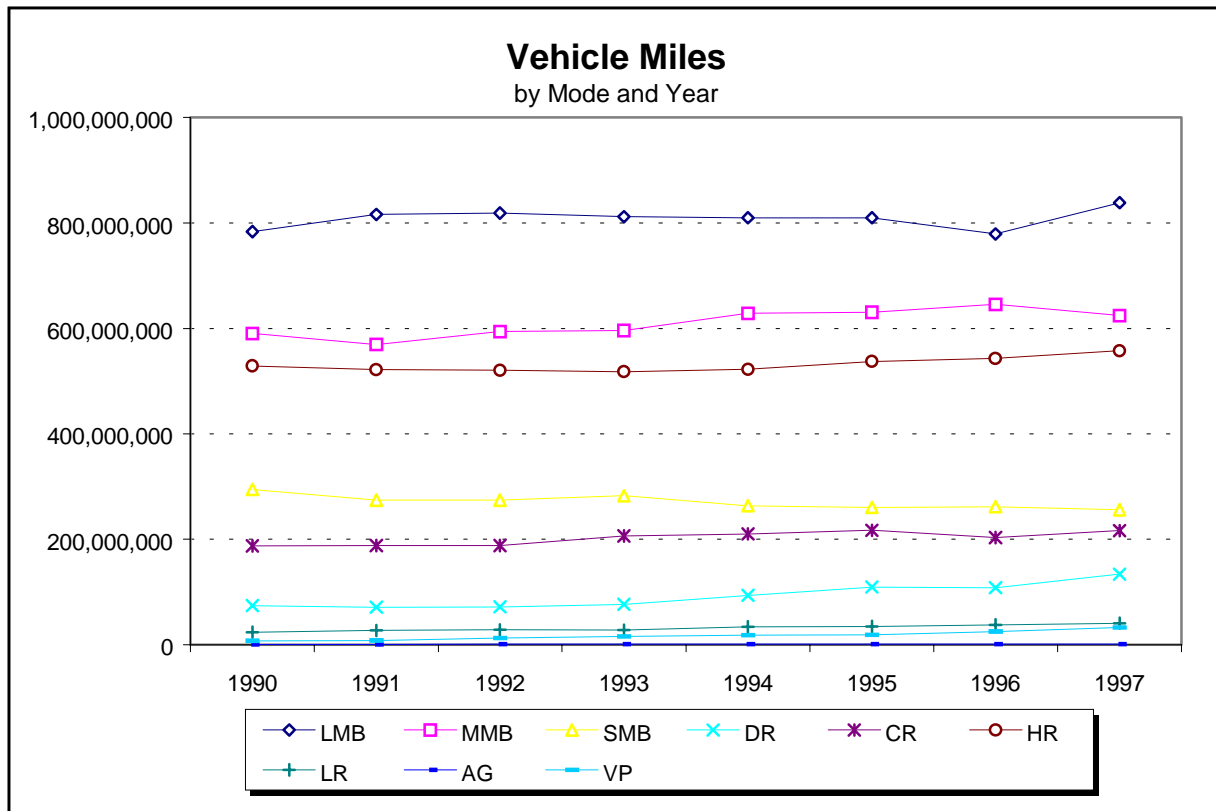
Property Damage by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
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
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
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
DR	600,594	1,492,942	1,053,526	547,062	778,653	985,023	1,469,590	1,776,958
CR	861,513	1,370,729	2,986,769	9,003,757	5,140,604	4,628,509	11,080,056	8,472,858
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
LR	1,144,000	1,008,107	1,184,825	801,082	784,719	1,669,265	3,839,037	2047011
AG	0	2,217	11,286	0	3,051	19,789	13,507	19,972
VP	68,549	243,711	70,367	157,835	78,396	89,583	145,183	306,646
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



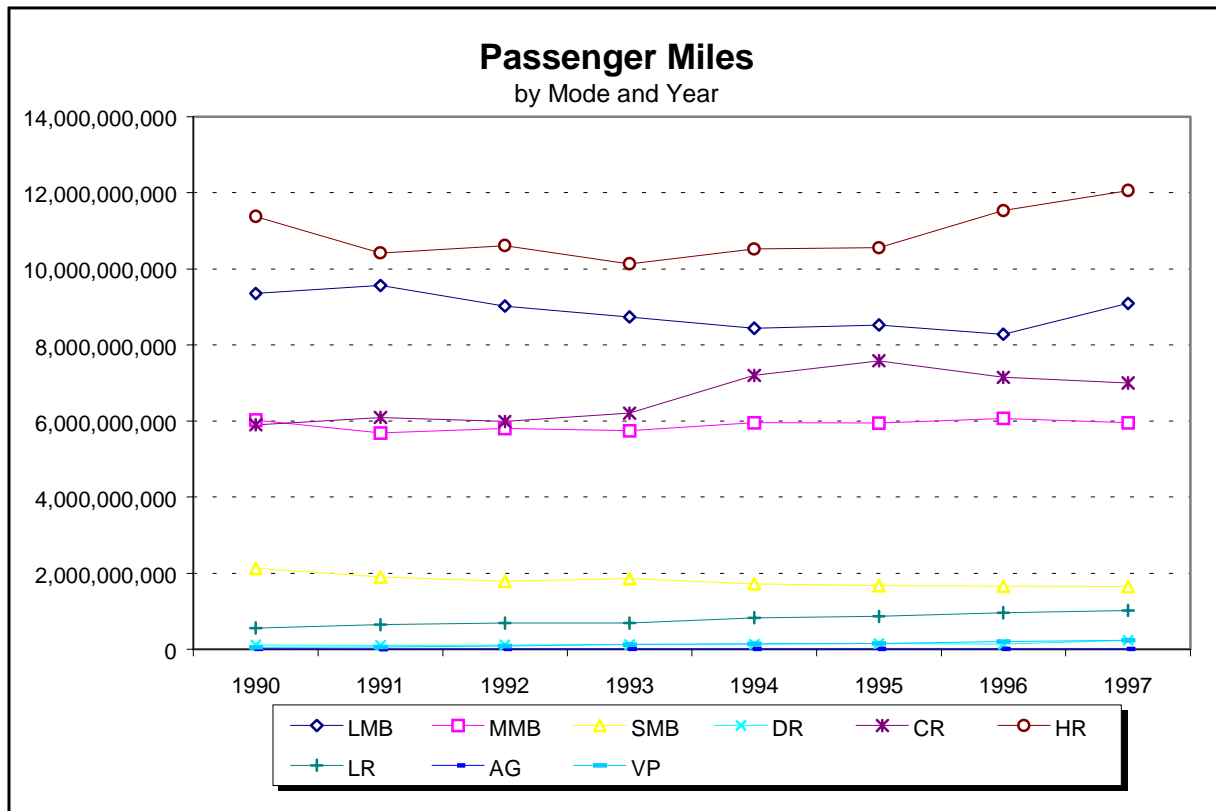
Vehicles by Mode and Year

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

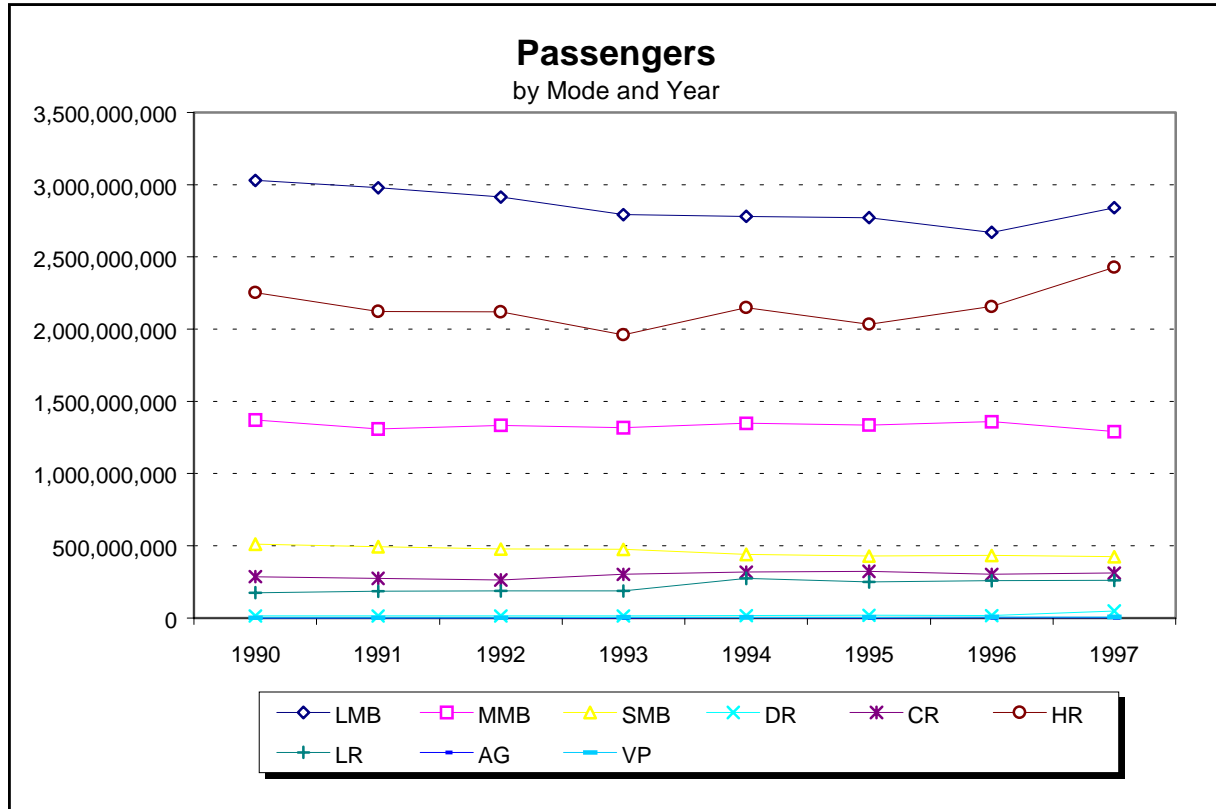


Vehicle Miles by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
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
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
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
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
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
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
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
AG	617,427	491,035	981,072	957,742	1,183,408	1,145,262	1,442,128	1,437,461
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
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	2,605,330,823	2,701,800,982



Passenger Miles by Mode and Year								
	1990	1991	1992	1993	1994	1995	1996	1997
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
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	6,066,394,699	5,953,021,331
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
DR	110,088,578	100,765,621	114,051,985	126,183,364	130,130,003	147,096,759	133,167,623	233,633,186
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
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	12,056,067,600
LR	554,554,894	647,579,641	686,289,760	688,961,513	823,832,584	858,701,487	955,245,148	1,023,708,132
AG	5,461,306	2,985,061	6,350,377	6,276,663	7,181,392	7,278,418	7,310,160	6,742,225
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
Total	35,500,740,539	34,472,463,652	34,109,882,973	33,626,370,236	34,928,585,879	35,445,254,456	35,975,049,968	37,256,086,606



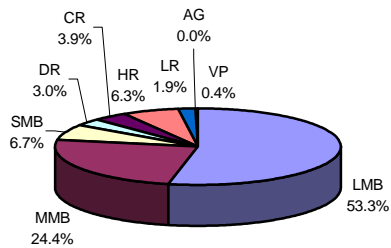
Passengers by Mode and Year

	1990	1991	1992	1993	1994	1995	1996	1997
LMB	3,029,861,563	2,978,584,127	2,915,883,332	2,792,806,711	2,780,831,677	2,772,368,139	2,671,080,391	2,840,893,678
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	1,289,610,097
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
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
CR	285,861,662	273,938,924	261,870,040	302,598,857	317,786,280	321,557,484	302,216,283	310,706,887
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
LR	174,000,077	183,563,959	187,321,032	187,336,419	273,685,925	249,302,476	258,731,737	259,404,303
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
VP	2,025,787	2,324,875	3,255,200	4,220,764	4,543,397	4,658,303	5,857,522	7,699,393
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

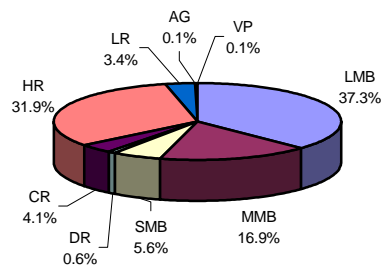
The 1997 SAMIS safety data presented as

GRAPHS

Accidents and Passenger Distribution by Transit Mode



Accidents



Passenger Distribution

AG - Automated Guideway
CR - Commuter Rail
DR - Demand Response

LMB - Large Motor Bus
MMB - Medium Motor Bus
SMB - Small Motor Bus

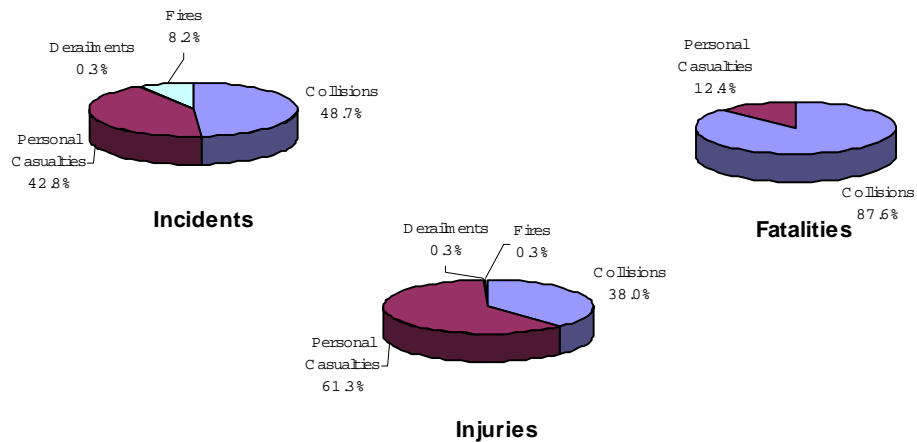
HR - Heavy Rail
LR - Light Rail
VP - Vanpool

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 32% of transit passengers, Heavy Rail has only 6% of the total accidents. If all transit modes were equally safe, the pie charts would be identical.

Incidents, Fatalities, Injuries by Cause



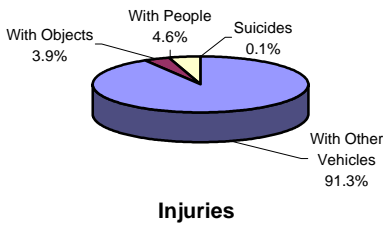
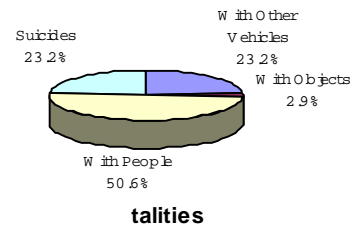
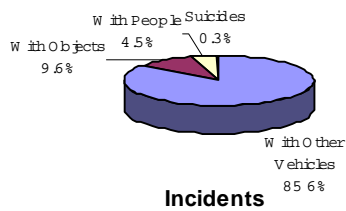
The pie chart on the left shows the percentage of incidents reported from each cause (Collisions, Derailments, Personal Casualties, and Fires) to the total incidents from all causes

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



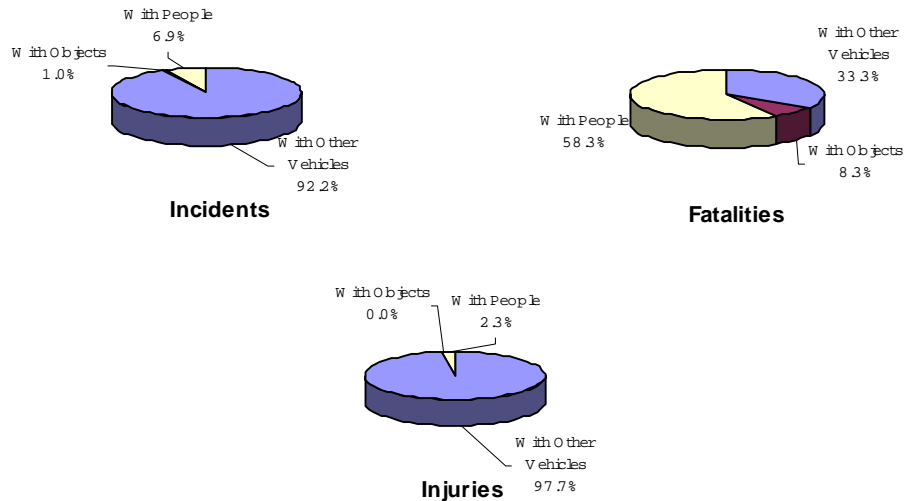
The pie chart on the left shows the percentage of each type of incident resulting from Collisions (i.e., with other vehicles, objects, and people) to the total Collision incidents.

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



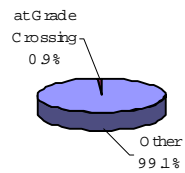
The pie chart on the left shows the percentage of each type of grade crossing incident (i.e., Collisions with other vehicles, objects, and people) to the total Collisions at grade crossings. Collision at grade crossings apply only to Light Rail, Commuter Rail, Heavy Rail, or Trolley Bus modes.

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.

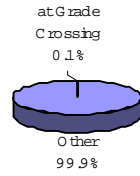
Comparing the three charts provides more insight into the causes of incidents, injuries, and deaths from Collisions at grade crossings; e.g., most of the fatalities result from Collisions with people.

Collision Incidents

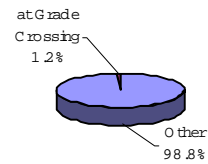
by Location



With Other Vehicles



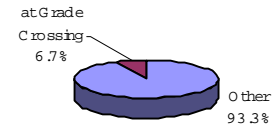
With Objects



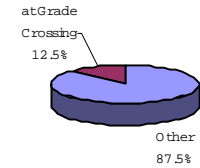
With People

Collision Fatalities

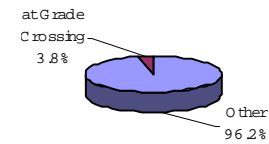
by Location



With Other Vehicles



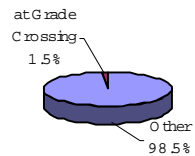
With Objects



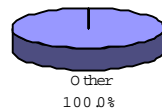
With People

Collision Injuries

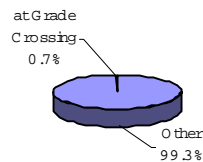
by Location



With Other Vehicles



With Objects



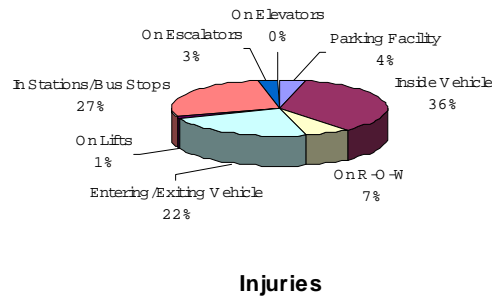
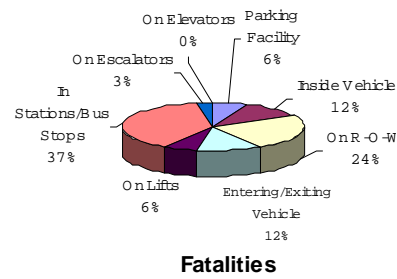
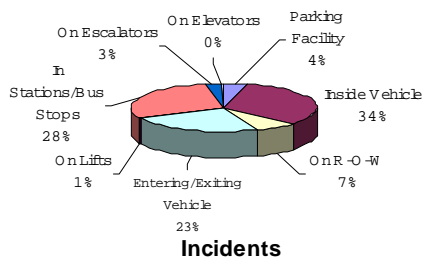
With People

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.

Personal Casualties

Incidents, Fatalities, Injuries
by Location

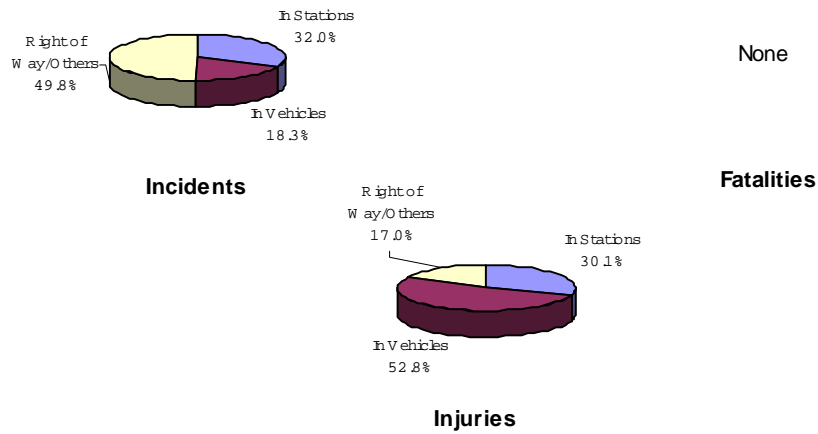


The pie chart on the left shows the percentage of each type of *incident* in the **Personal Casualties** category [in parking facilities, inside vehicles, on right of ways, entering/exiting vehicles (associated with lifts), in stations/bus stops (associated with escalators, and associated with elevators)]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

Fires

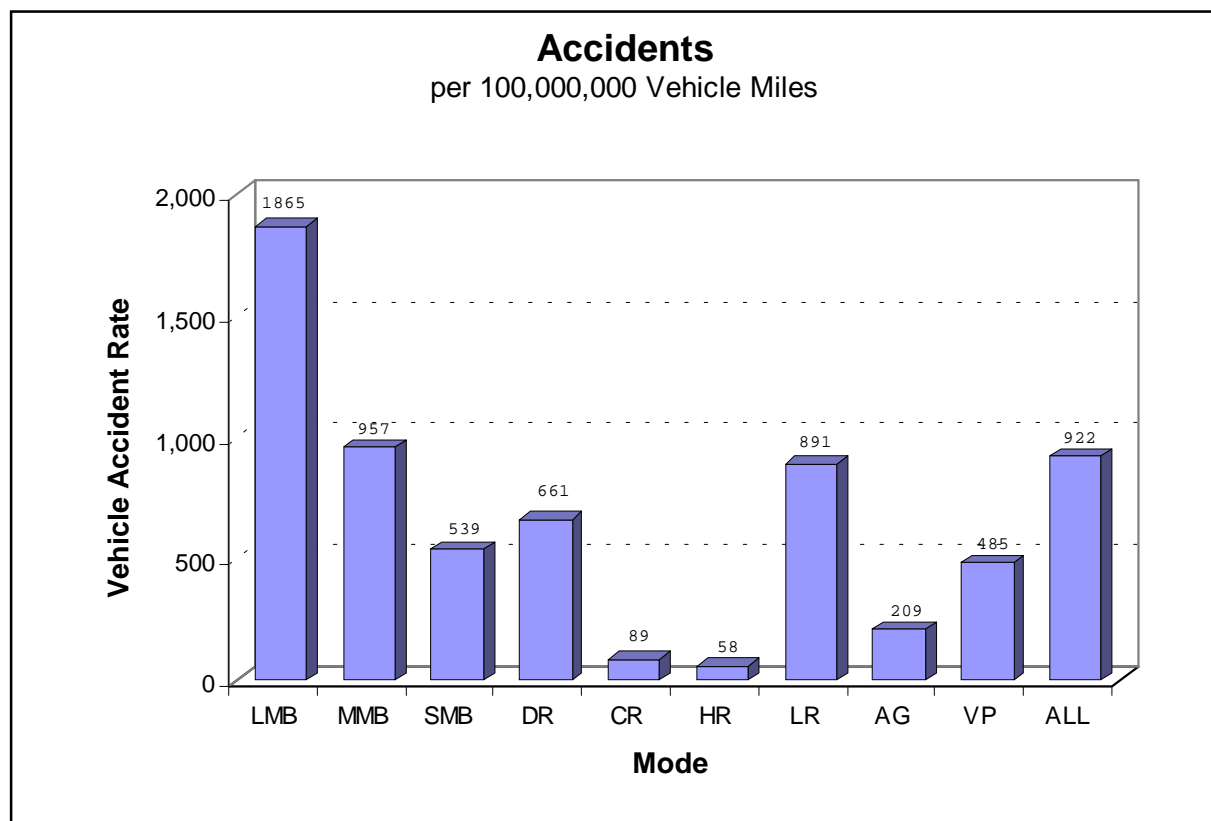
Incidents, Fatalities, Injuries
by Location



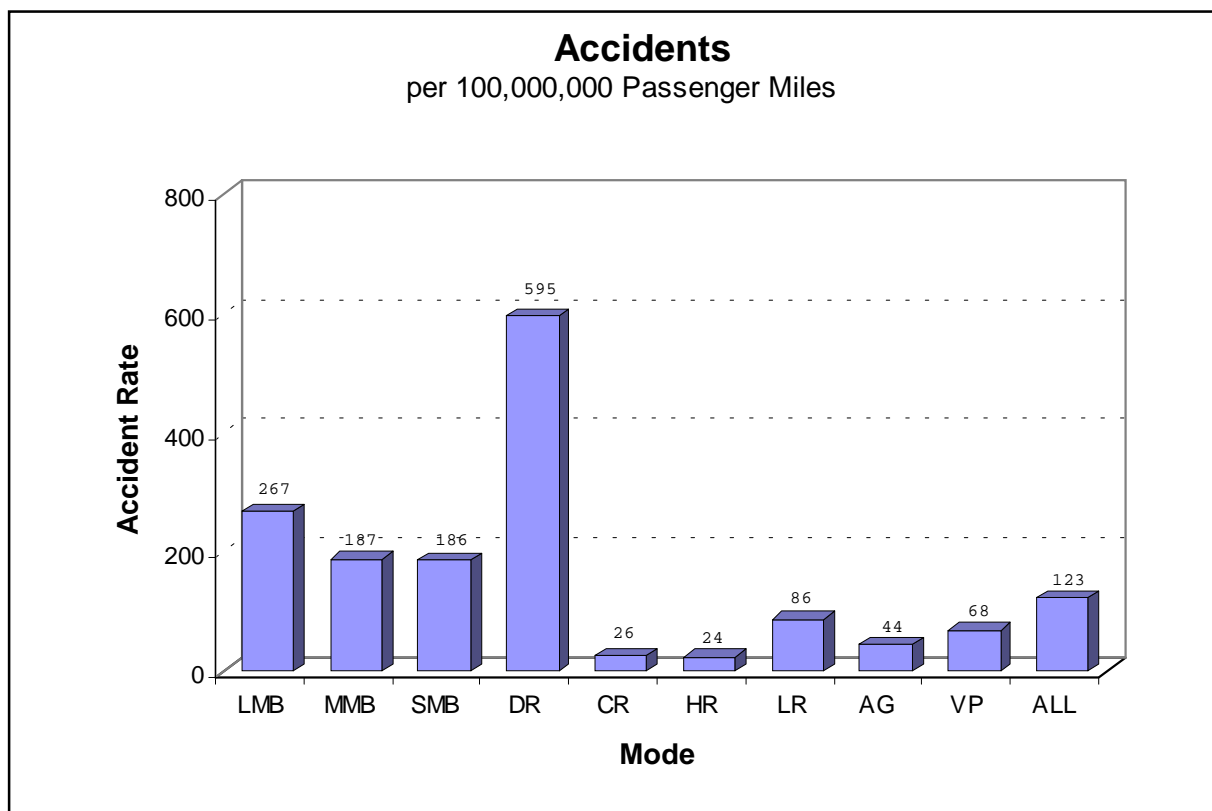
The pie chart on the left shows the percentage of Fire incident (in vehicles, in stations, and on right of way and others) to the total incidents of Fires.

The pie chart on the right shows the percentage of fatalities, and the middle one shows the percentage of injuries from each type of Fire incident to the total.

Comparing the three charts provides more insight into the the types of Fires and the causes of injuries and fatalities 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

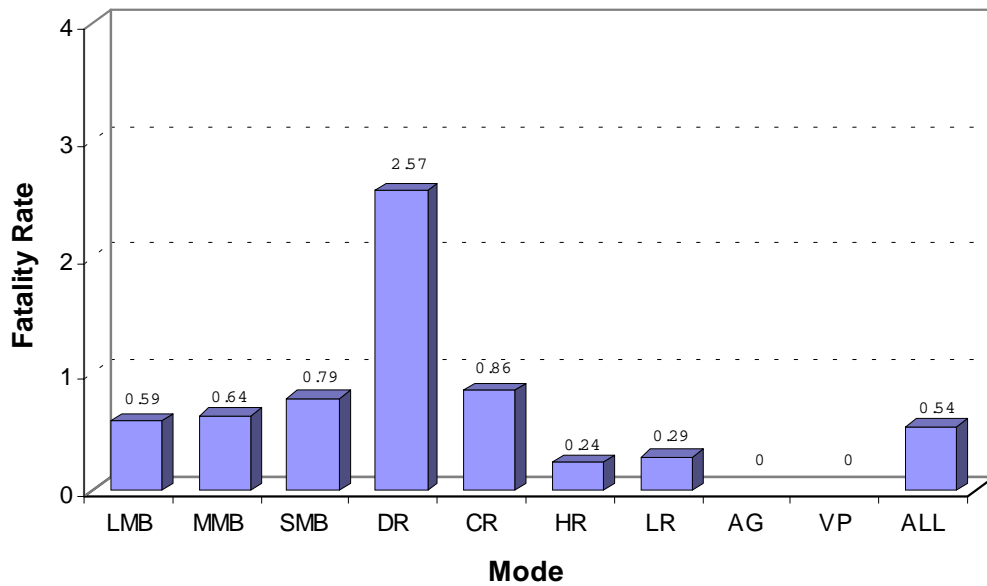


The graph shows the accident rate which is based on the number of vehicle accidents only. These include all vehicle accidents resulting from Collisions [with vehicles, objects, people (not suicides)] and Derailments (vehicle derailed/left roadway). The vehicle mile figure used includes both revenue and 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.

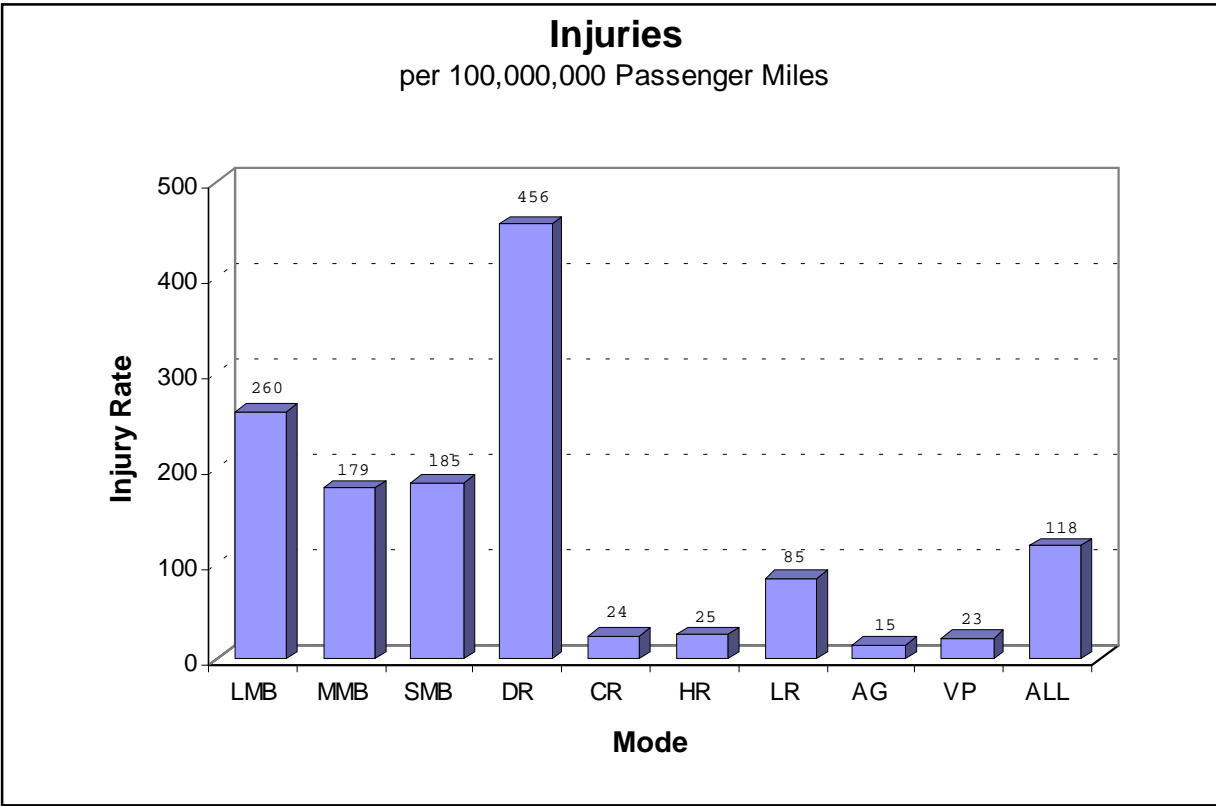


The graph shows the accident (or incident) rates which result from Collisions [with vehicles, objects, people (not suicides)], Derailments (vehicle derailed/left roadway), and Personal Casualties (on right of way, inside the vehicle, and entering/exiting the vehicle). When analyzing the results on this 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

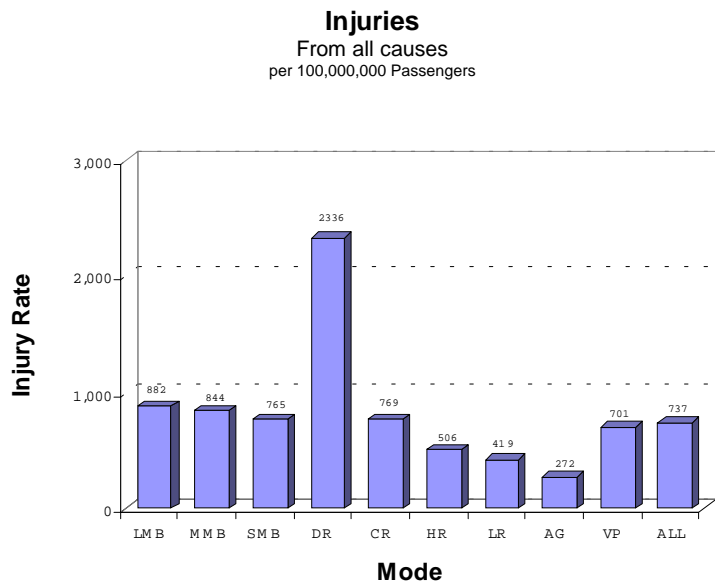
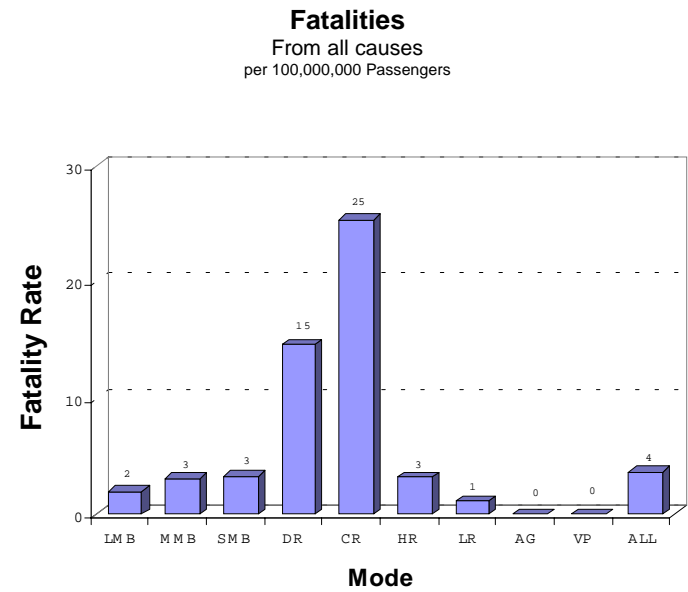
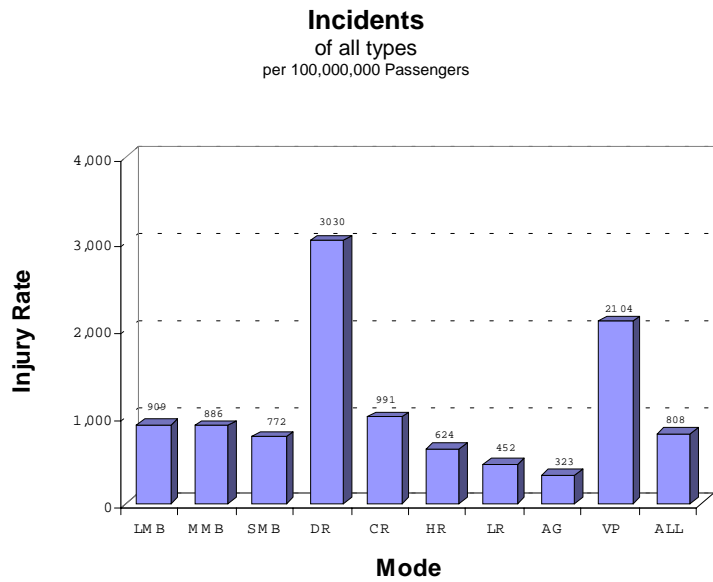
Fatalities per 100,000,000 Passenger Miles



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).

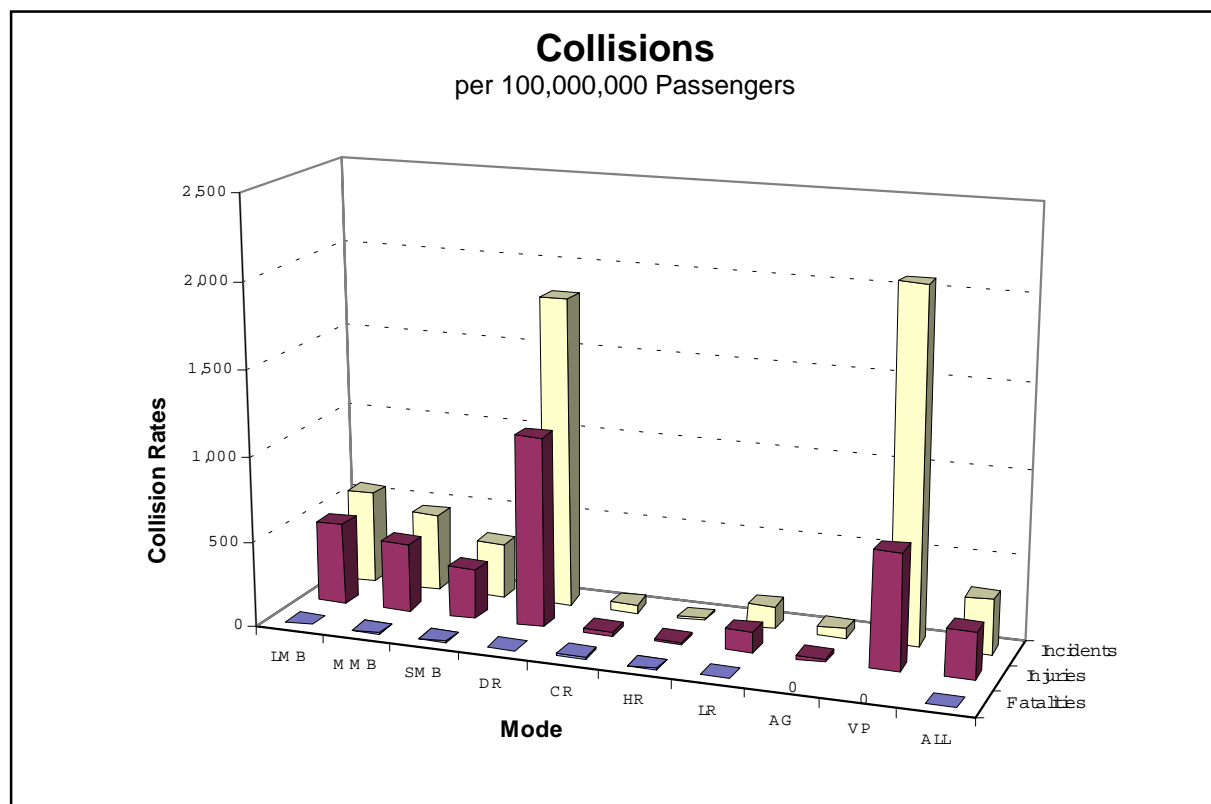


These statistics represent injuries resulting from Collisions [with vehicles, objects, people (not suicides)], Derailments (vehicle derailed/left roadway), and Personal Casualties (on right of way, inside the vehicle, and entering/exiting the vehicle).



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.

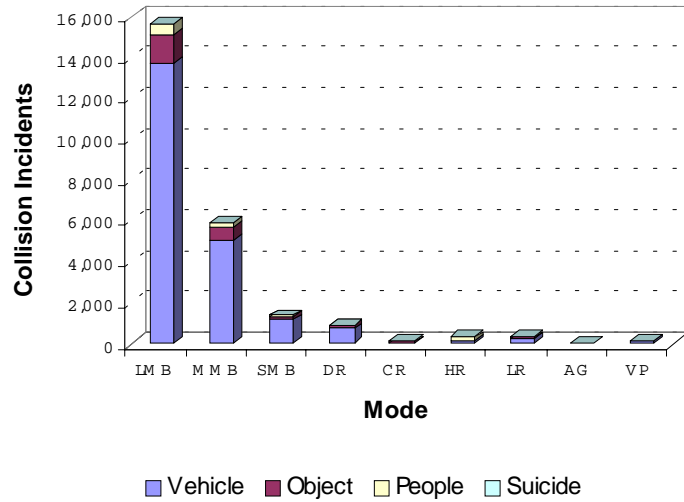
Also note that they are indexed in number of Passengers.



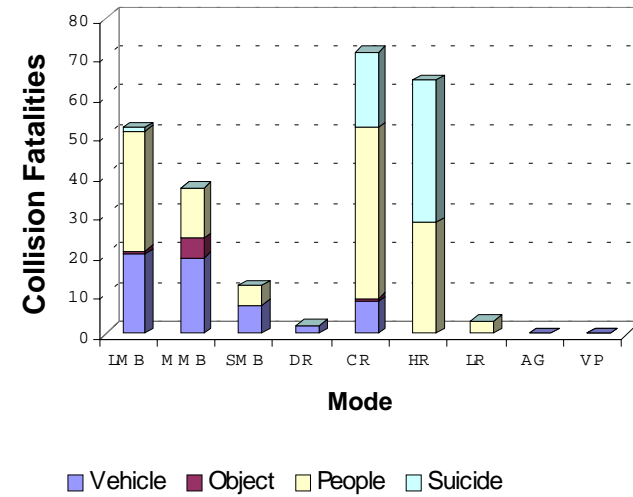
This graph shows the rates of incidents, injuries, and fatalities(except attempted/successful suicides) for the Collisions category of Form 405.

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.

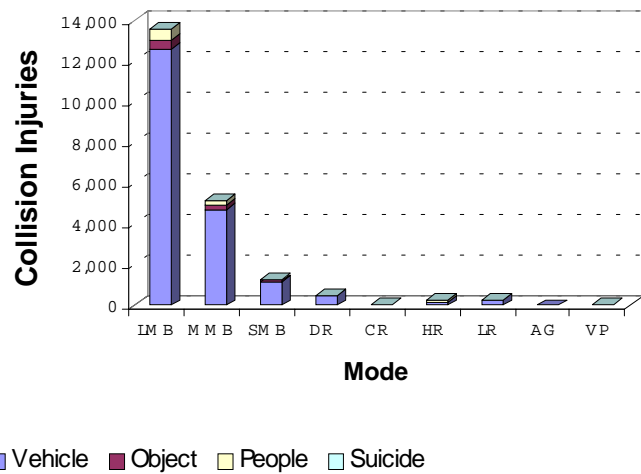
**Incidents
of Collision**



**Fatalities
Resulting from Collisions**

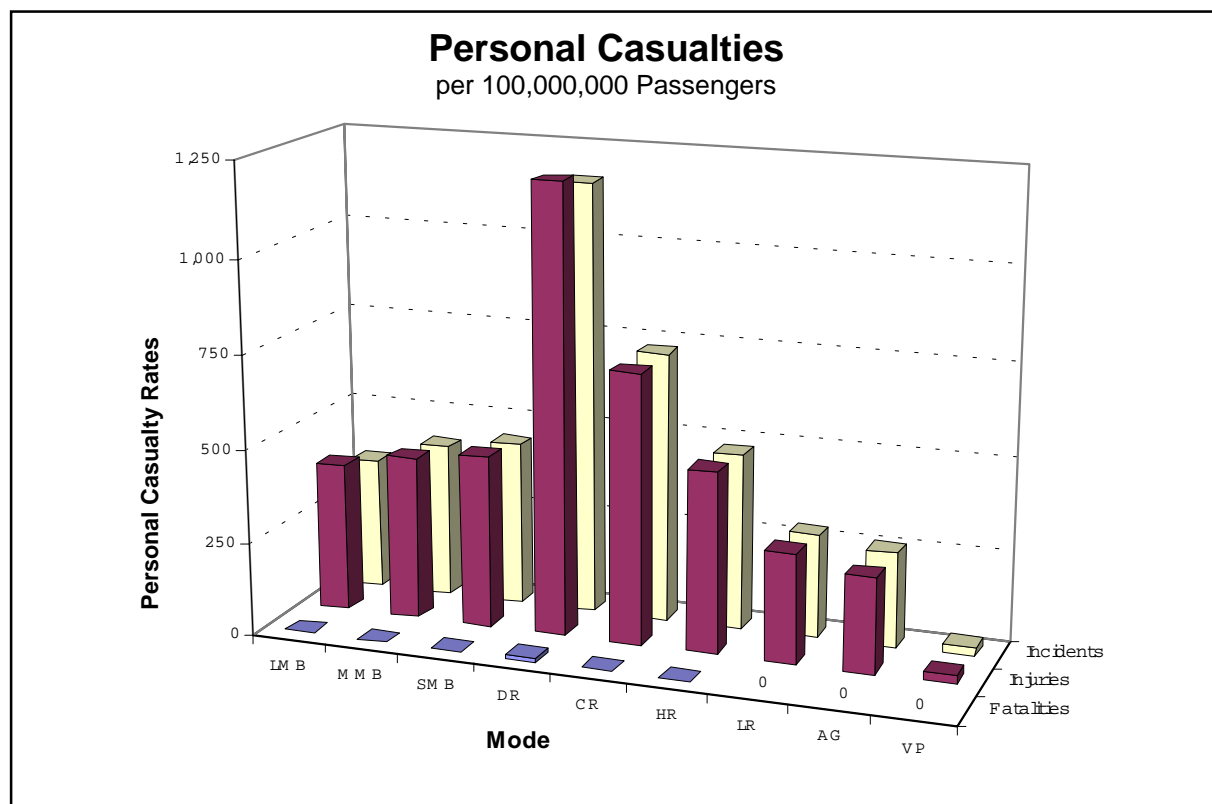


**Injuries
Resulting from Collisions**



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

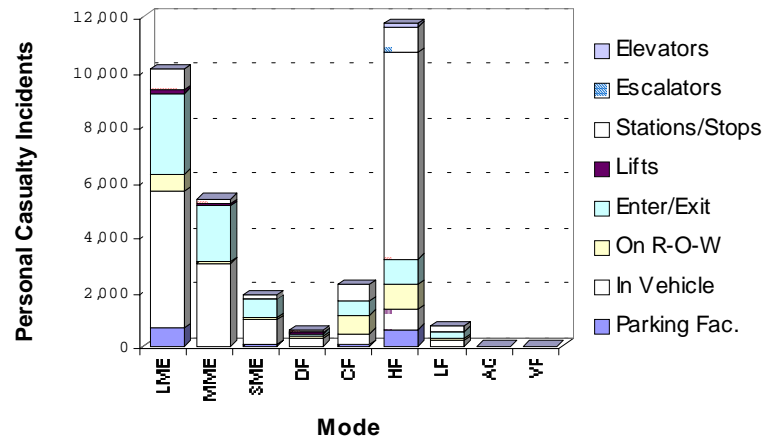
Not surprisingly, most of the fatalities are the result of collisions with people.



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 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.

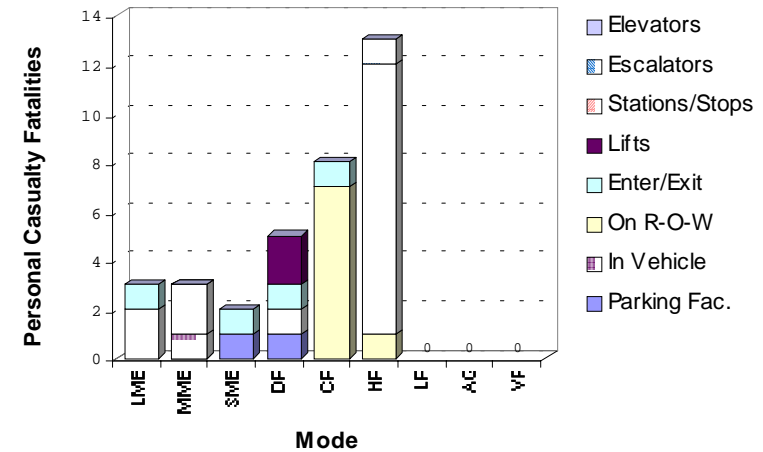
Incidents

of Personal Casualty



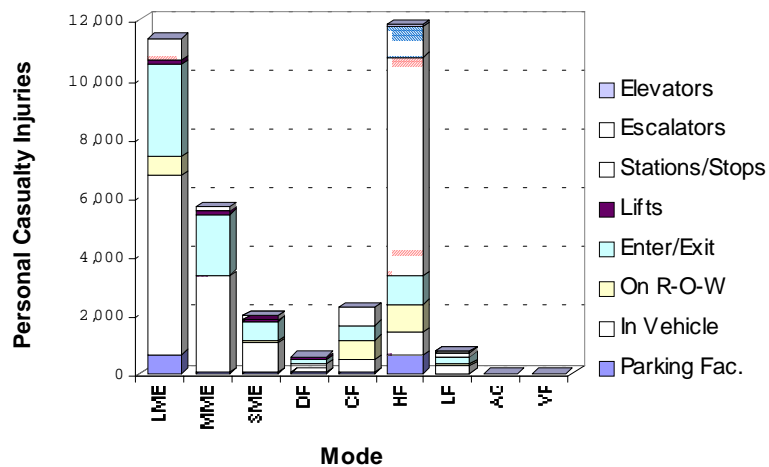
Fatalities

Resulting from Personal Casualty



Injuries

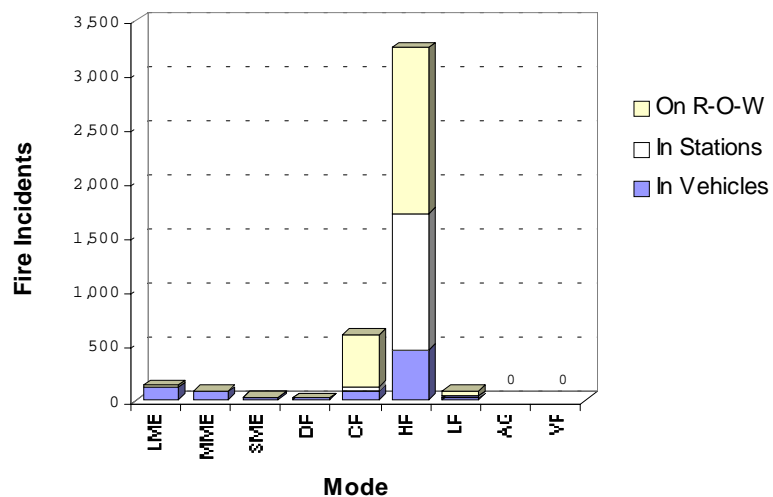
Resulting from Personal Casualty



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.

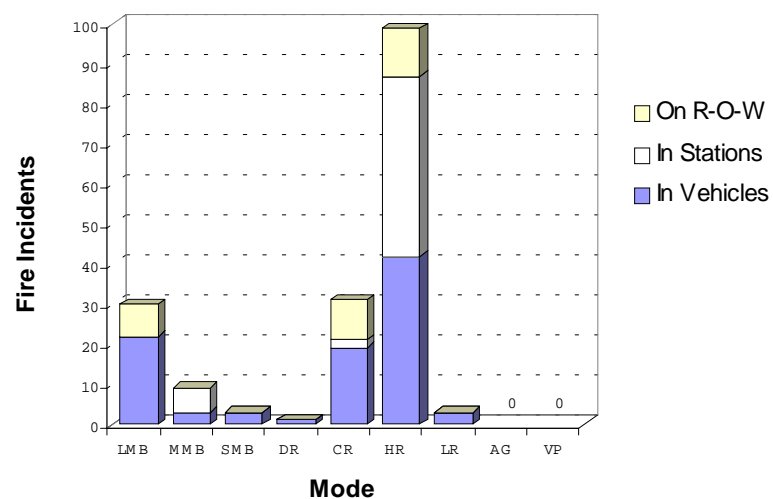
Incidents of Fire



Fatalities Resulting from Fires

None

Injuries Resulting from Fires

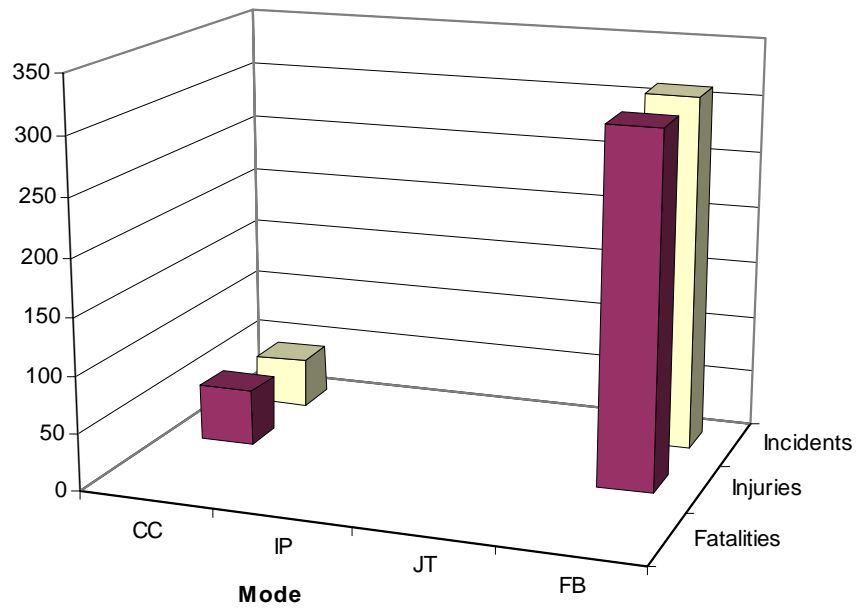


These graphs break down by type the incidents, and resulting fatalities and injuries, from Fires (in vehicles, in stations, and on right of way/road and others).

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.

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
Incidents	186	411	400	411	650	536	301	353
Fatalities	2	1	0	1	0	0	1	0
Injuries	378	327	399	383	616	598	354	357
Damage*	335,100	410,450	288,308	220,674	321,705	3,262,700	157,184	66,850

* Property Damage in Dollars (\$)

The 1997 SAMIS safety data in

TABLES

Collisions

Bus

INCIDENTS

Collisions¹	LMB	MMB	SMB
With Other Vehicles	13,677	5,107	1,163
(w/vehicles at grade crossings)	2	48	17
With Objects	1,383	584	173
(w/objects at grade crossings)	0	0	0
With People ²	559	233	40
(w/people at grade crossings)	0	0	2
(attempted suicides) ³	1	3	0
Total⁴	15,619	5,924	1,376

FATALITIES

Collisions¹	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
With Other Vehicles	0	0	0	1	6	0	19	13	7
(w/vehicles at grade crossings)	0	0	0	0	0	0	0	0	0
With Objects	0	0	0	1	0	0	0	5	0
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	6	3	1	0	0	0	25	10	4
(w/people at grade crossings)	0	0	0	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0	1	0	0
Total⁴	6	3	1	2	6	0	44	28	11

INJURIES

Collisions¹	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
With Other Vehicles	7,874	3,273	822	1,465	673	161	3,248	772	214
(w/vehicles at grade crossings)	2	130	8	0	20	1	0	5	2
With Objects	295	211	30	83	47	9	83	6	1
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	126	52	20	42	2	0	366	146	13
(w/people at grade crossings)	0	0	0	0	0	0	0	0	2
(attempted suicides)	0	1	0	0	0	0	0	1	0
Total⁴	8,295	3,536	872	1,590	722	170	3,697	924	228

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

Collisions¹	CR	HR	LR
With Other Vehicles	77	111	281
(w/vehicles at grade crossings)	43	2	61
With Objects	17	37	25
(w/objects at grade crossings)	1	0	0
With People ²	63	161	46
(w/people at grade crossings)	4	3	5
(attempted suicides) ³	30	47	0
Total⁴	157	309	352

FATALITIES

Collisions¹	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
With Other Vehicles	0	0	0	0	0	0	8	0	0
(w/vehicles at grade crossings)	0	0	0	0	0	0	4	0	0
With Objects	0	0	0	0	0	0	1	0	0
(w/objects at grade crossings)	0	0	0	0	0	0	1	0	0
With People ²	0	56	0	2	3	0	60	5	3
(w/people at grade crossings)	0	2	0	0	1	0	1	0	3
(attempted suicides)	0	34	0	0	0	0	19	2	0
Total⁴	0	56	0	2	3	0	69	5	3

INJURIES

Collisions¹	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
With Other Vehicles	15	96	177	5	41	43	29	17	43
(w/vehicles at grade crossings)	15	0	73	1	0	7	15	0	10
With Objects	0	0	8	1	23	0	1	0	0
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	2	55	7	11	96	7	26	0	31
(w/people at grade crossings)	0	0	0	0	0	0	3	0	2
(attempted suicides)	0	12	0	0	0	0	11	0	0
Total⁴	17	151	192	17	160	50	56	17	74

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

Collisions¹	AG	DR	VP
With Other Vehicles	1	730	132
(w/vehicles at grade crossings)	0	14	1
With Objects	2	134	26
(w/objects at grade crossings)	0	1	0
With People ²	0	14	1
(w/people at grade crossings)	0	0	0
(attempted suicides) ³	1	0	0
Total⁴	3	878	159

FATALITIES

Collisions¹	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
With Other Vehicles	0	1	0	0	0	0	0	1	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	0	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	0	1	0	0	0	0	0	1	0

INJURIES

Collisions¹	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
With Other Vehicles	0	221	34	0	105	1	0	114	15
(w/vehicles at grade crossings)	0	1	0	0	2	0	0	0	0
With Objects	1	28	1	0	9	0	0	4	0
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	0	1	0	0	0	0	0	9	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	1	250	35	0	114	1	0	127	16

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.

Personal Casualties

Bus

INCIDENTS

Personal Casualties	LMB	MMB	SMB
Parking Facility	650	20	34
Inside Vehicle	4,960	3,004	993
On Right of Way	656	38	56
Entering/Exiting Vehicle ¹	3,063	2,131	698
(associated With lifts)	135	94	36
In Stations/Stops ²	728	169	144
(associated with escalators)	4	0	0
(associated with elevators)	0	0	0
Total³	10,057	5,362	1,925

FATALITIES

Personal Casualties	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Parking Facility	0	0	1	0	0	0	0	0	0
Inside Vehicle	2	0	0	0	0	0	0	1	0
On Right of Way	0	0	0	0	0	0	0	0	0
Entering/Exiting Vehicle ¹	1	0	1	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	2	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	3	0	2	0	0	0	0	3	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Parking Facility	3	0	5	648	19	27	0	1	1
Inside Vehicle	4,859	2,950	840	1,190	326	166	9	0	3
On Right of Way	83	17	46	557	9	7	18	12	3
Entering/Exiting Vehicle ¹	2,942	2,053	657	276	109	55	14	1	0
(associated With lifts)	117	90	31	23	3	5	0	1	0
In Stations/Stops ²	146	83	103	571	72	44	51	13	3
(associated with escalators)	3	0	0	1	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	8,033	5,103	1,651	3,242	535	299	92	27	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.

Personal Casualties

Rail

INCIDENTS

Personal Casualties	CR	HR	LR
Parking Facility	36	603	10
Inside Vehicle	420	730	210
On Right of Way	680	879	70
Entering/Exiting Vehicle ¹	499	953	240
(associated With lifts)	0	0	1
In Stations/Stops ²	619	8,361	197
(associated with escalators)	26	951	32
(associated with elevators)	2	97	7
Total³	2,254	11,526	727

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	0	0	0	0	0	0	0	0
On Right of Way	1	1	0	1	0	0	5	0	0
Entering/Exiting Vehicle ¹	1	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	12	0	0	0	0	0	0	0
(associated with escalators)	0	1	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	2	13	0	1	0	0	5	0	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Parking Facility	17	39	10	13	575	0	7	0	0
Inside Vehicle	227	590	221	188	202	11	5	0	0
On Right of Way	206	42	11	430	881	58	37	4	2
Entering/Exiting Vehicle ¹	398	947	234	96	41	17	4	1	1
(associated With lifts)	0	0	0	0	0	1	0	0	0
In Stations/Stops ²	340	6,464	184	218	2,036	15	61	16	0
(associated with escalators)	26	986	34	0	32	0	0	2	0
(associated with elevators)	2	85	7	0	13	0	0	0	0
Total³	1,188	8,082	660	945	3,735	101	114	21	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

Automated Guideway, Demand Response, Vanpool

INCIDENTS

Personal Casualties	AG	DR	VP
Parking Facility	0	19	0
Inside Vehicle	0	270	1
On Right of Way	0	36	0
Entering/Exiting Vehicle ¹	0	198	1
(associated With lifts)	0	57	0
In Stations/Stops ²	15	35	0
(associated with escalators)	4	0	0
(associated with elevators)	0	0	0
Total³	15	558	2

FATALITIES

Personal Casualties	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Parking Facility	0	0	0	0	1	0	0	0	0
Inside Vehicle	0	1	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	3	0	0	0	0
(associated With lifts)	0	0	0	0	2	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	0	1	0	0	4	0	0	0	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Parking Facility	0	2	0	0	16	0	0	0	0
Inside Vehicle	0	214	1	0	72	0	0	1	0
On Right of Way	0	22	0	0	14	0	0	0	0
Entering/Exiting Vehicle ¹	0	145	1	0	54	0	0	0	0
(associated With lifts)	0	42	0	0	13	0	0	0	0
In Stations/Stops ²	15	11	0	0	25	0	0	0	0
(associated with escalators)	4	0	0	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0	0	0	0
Total³	15	394	2	0	181	0	0	1	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.

Fires

Bus

INCIDENTS

Fires	LMB	MMB	SMB
In Vehicles	112	73	20
In Station	4	7	0
Right of way and Others	20	3	1
Total	136	83	21

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	12	1	1	10	2	2	0	0	0
In Stations	0	3	0	0	2	0	0	1	0
Right of Way and Others	0	0	0	8	0	0	0	0	0
Total	12	4	1	18	4	2	0	1	0

Fires

Rail

INCIDENTS

Fires	CR	HR	LR
In Vehicles	77	464	9
In Station	46	1257	25
Right of way and Others	479	1532	49
Total	602	3253	83

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	2	34	3	17	8	0	0	0	0
In Stations	0	1	0	2	44	0	0	0	0
Right of Way and Others	0	4	0	7	8	0	3	0	0
Total	2	39	3	26	60	0	3	0	0

Fires

Automated Guideway, Demand Response, Vanpool

INCIDENTS

Fires	AG	DR	VP
In Vehicles	0	10	0
In Station	0	0	0
Right of way and Others	0	0	0
Total	0	10	0

FATALITIES

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

INJURIES

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

Derailments/Buses Left Roadway

Mode	INCIDENTS	FATALITIES			INJURIES		
		Patrons	Employees	Others	Patrons	Employees	Others
LMB	20	0	0	0	66	1	12
MMB	50	0	0	0	21	3	2
SMB	6	0	0	0	7	1	0
DR	8	0	0	0	7	0	1
CR	35	0	0	0	16	4	0
HR	16	0	0	0	18	2	0
LR	11	0	0	0	0	4	0
AG	0	0	0	0	0	0	0
VP	1	0	0	0	0	0	0
Total	147	0	0	0	135	15	15

Total¹ of Incidents, Fatalities, and Injuries

Mode	INCIDENTS	FATALITIES			INJURIES		
		Patrons	Employees	Others	Patrons	Employees	Others
LMB	25,833	9	2	44	16,406	4,851	3,801
MMB	11,422	3	6	31	8,664	1,264	954
SMB	3,268	3	0	11	2,531	472	238
DR	1,454	2	4	1	651	341	129
CR	3,078	2	3	74	1,223	992	173
HR	15,151	69	3	5	8,290	3,957	38
LR	1,173	0	0	3	855	155	77
AG	19	0	0	0	16	0	0
VP	162	0	0	0	37	1	16
Total	61,560	88	18	169	38,673	12,033	5,426

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

Operating Statistics and Property Damage

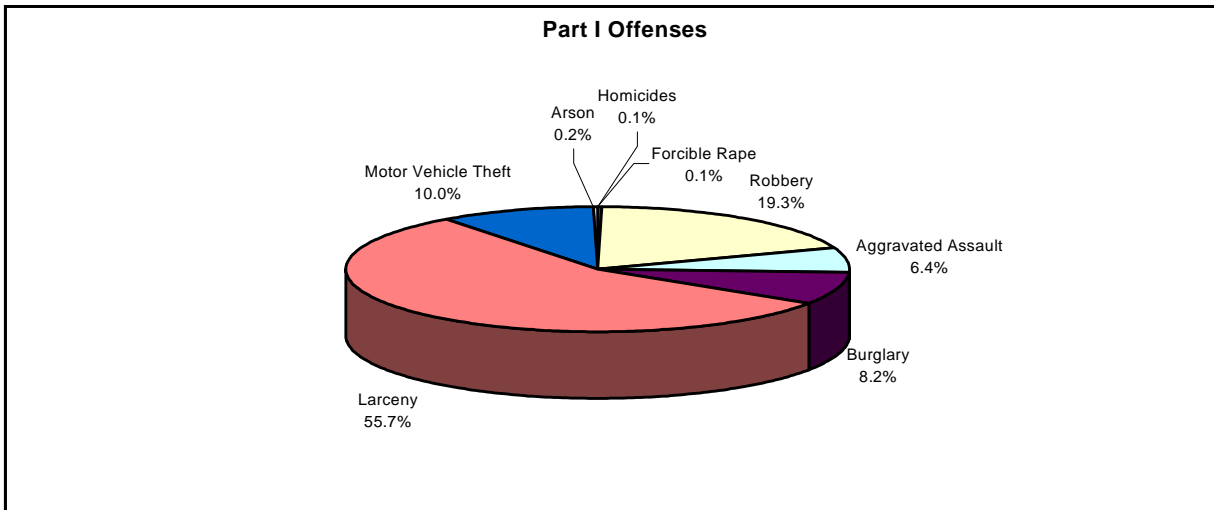
Mode	Property Damage	Passengers	Passenger Miles	Vehicle Miles
LMB	\$17,801,076.00	2,840,893,678	9,091,818,099	838,353,348
MMB	\$12,795,432.00	1,289,610,097	5,953,021,331	624,084,181
SMB	\$3,568,235.00	423,496,953	1,651,061,898	256,317,566
DR	\$1,776,958.00	47,992,971	233,633,186	133,997,635
CR	\$8,472,858.00	310,706,887	7,000,312,146	216,206,241
HR	\$8,690,402.00	2,429,454,599	12,056,067,600	557,671,749
LR	\$2,047,011.00	259,404,303	1,023,708,132	40,747,527
AG	\$19,972.00	5,887,004	6,742,225	1,437,461
VP	\$306,646.00	7,699,393	239,721,989	32,985,274
Total	\$55,478,590.00	7,615,145,885	37,256,086,606	2,701,800,982

The 1997 SAMIS security data in

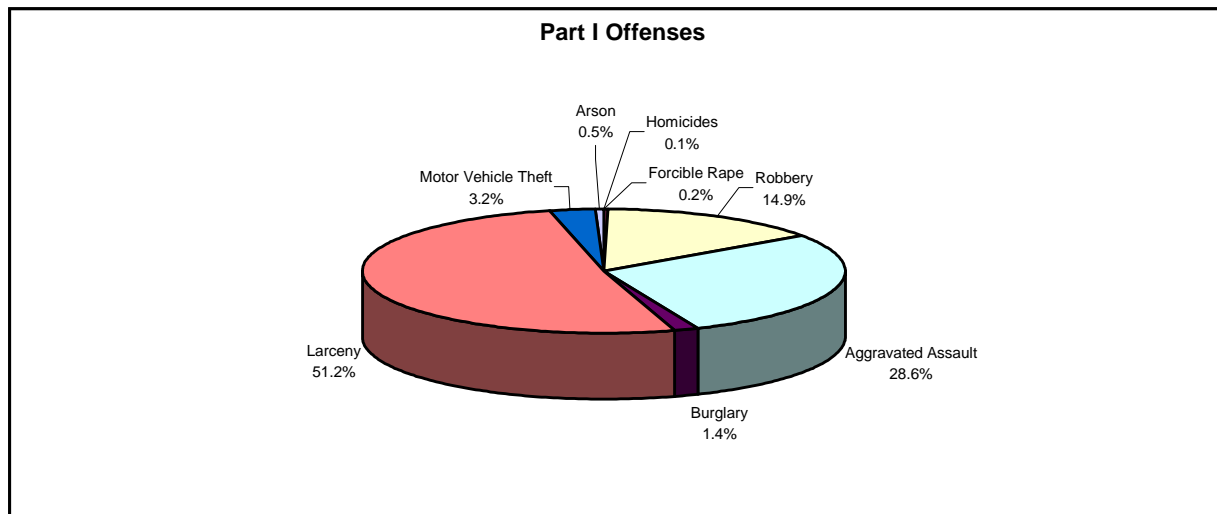
TABLES

Distribution of Transit Crime Reports - Part I Offenses

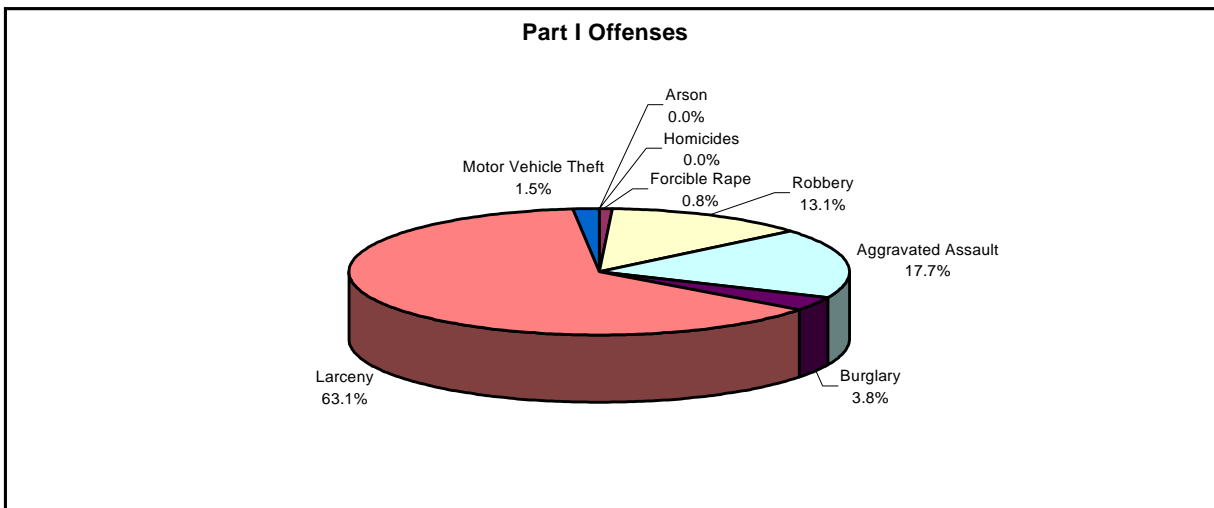
Bus



Rail

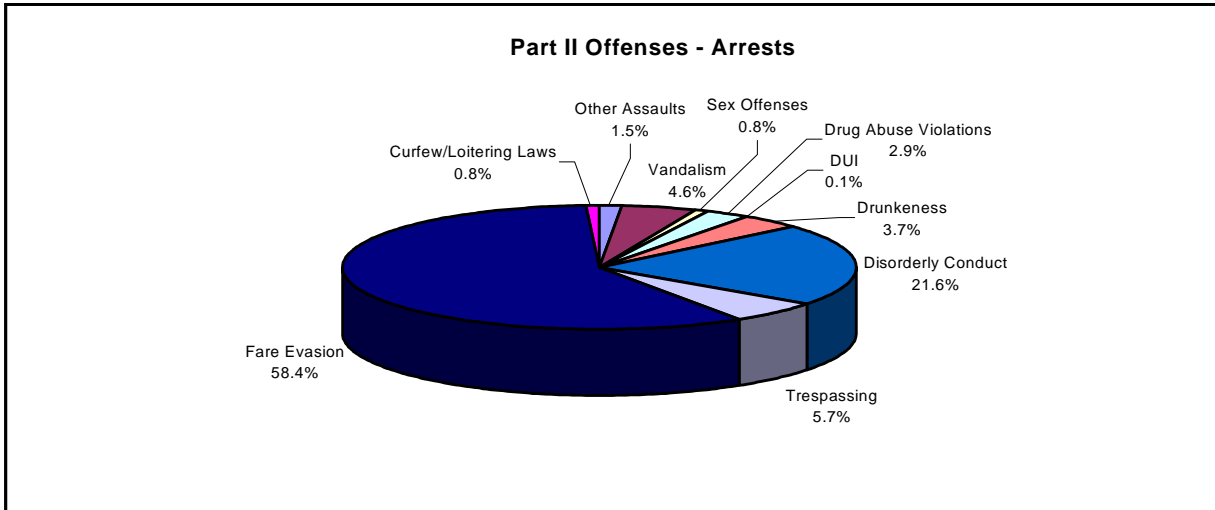


Automated Guideway, Demand Response, Vanpool

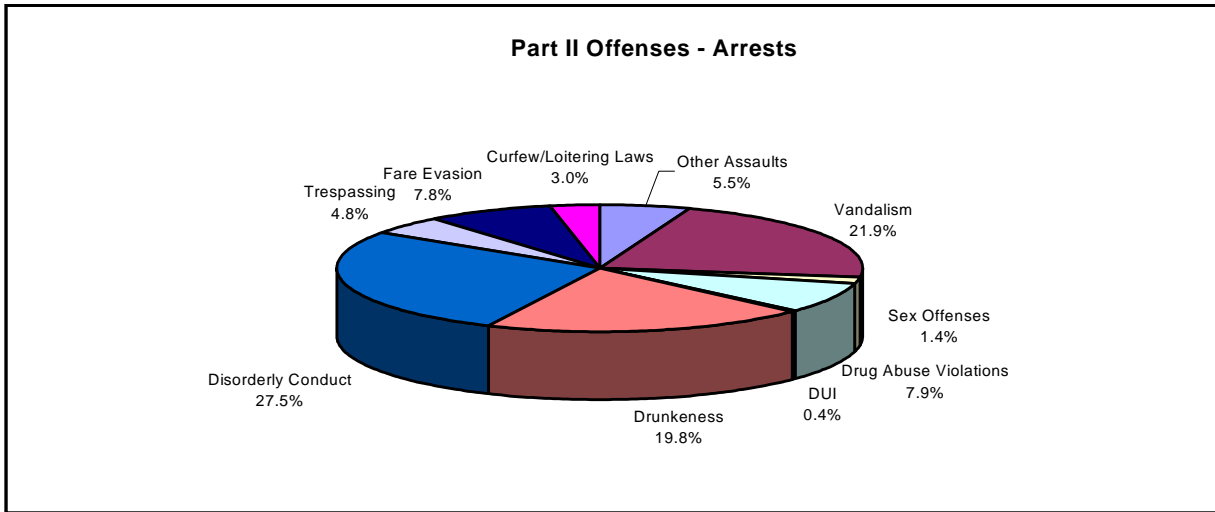


Distribution of Transit Crime Arrests - Part II Offenses

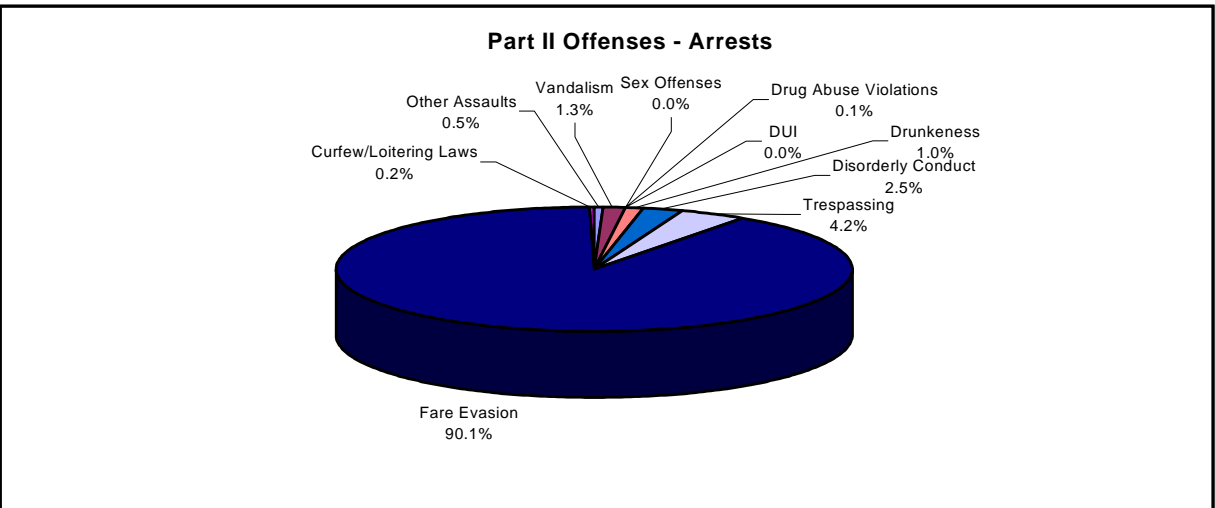
Bus



Rail

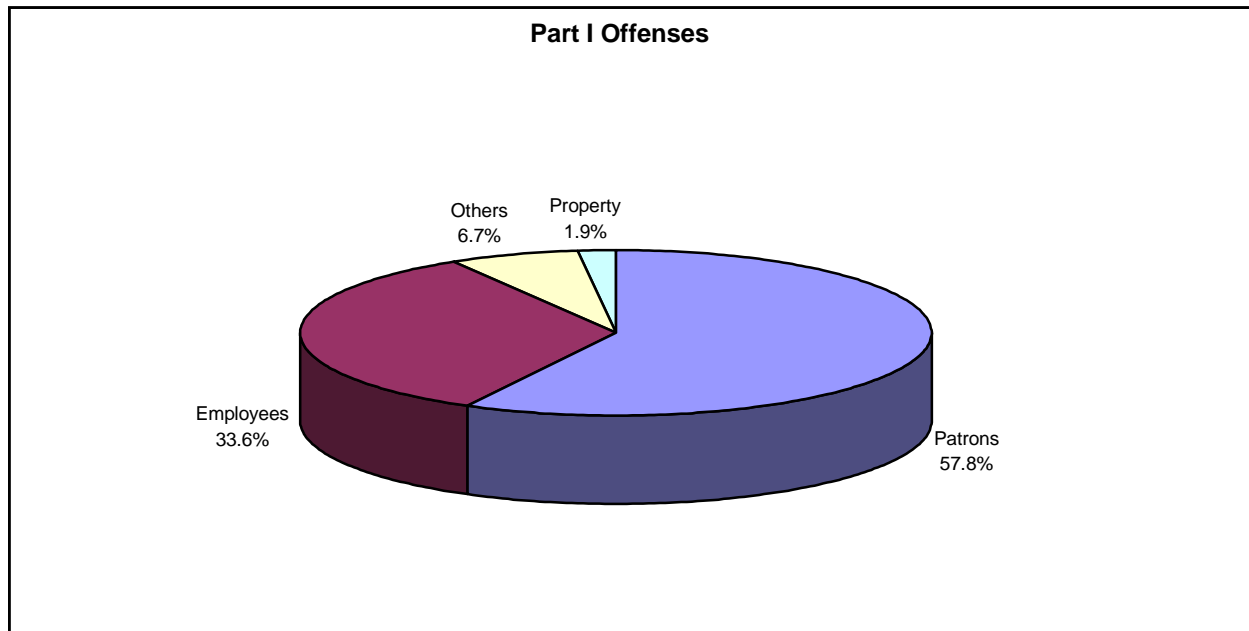


Automated Guideway, Demand Response, Vanpool



Who are the 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	4	0	0	0	0	0	2	0	0			
Forcible Rape	4	4	0	0	0	0	2	0	0			
Robbery	529	174	7	59	77	0	71	7	0			
Aggravated Assault	507	300	48	260	612	16	19	9	0			
Burglary										46	39	3
Larceny/Theft	1535	303	50	448	562	4	241	23	7			
Motor Vehicle Theft	101	90	5	32	10	1	28	7	0			
Arson										16	10	4

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	0	0	0	0	0	0	0	0			
Forcible Rape	0	1	0	0	0	0	0	0	0			
Robbery	163	92	0	8	62	0	0	3	0			
Aggravated Assault	163	132	5	49	517	1	0	0	0			
Burglary										0	5	0
Larceny/Theft	664	5	0	21	447	0	28	7	0			
Motor Vehicle Theft	1	5	0	1	3	0	0	2	0			
Arson										4	3	0

* 17 agencies operating buses with high population density reported Security data (1.23 billion passengers)

Who are the 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	1	0	0	0	0	0	0	0	0			
Forcible Rape	1	3	0	0	0	0	0	0	0			
Robbery	192	59	2	22	8	0	0	1	0			
Aggravated Assault	178	143	13	148	58	3	1	6	0			
Burglary												
Larceny/Theft	315	206	42	186	47	2	72	13	0	8	28	0
Motor Vehicle Theft	30	56	3	23	2	0	2	2	0			
Arson												
										2	3	1

* 83 agencies operating buses with medium population density reported Security data (1.55 billion passengers)

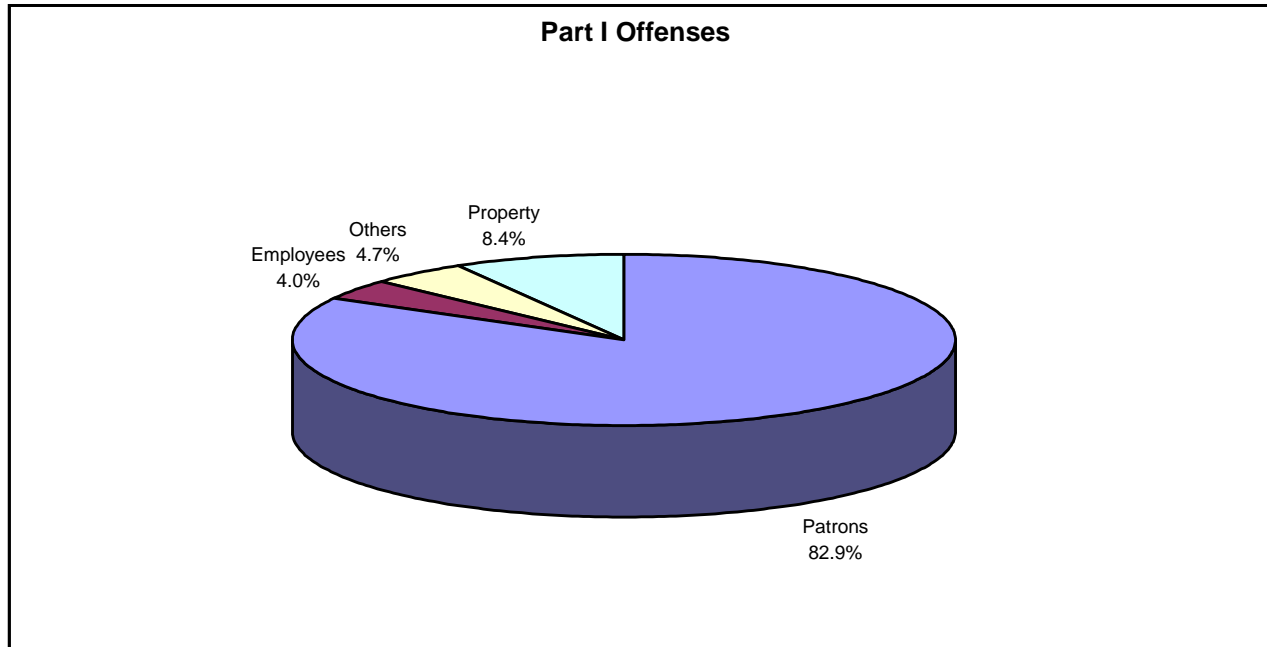
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Homicide	3	0	0	0	0	0	2	0	0			
Forcible Rape	3	0	0	0	0	0	2	0	0			
Robbery	174	23	5	29	7	0	71	3	0			
Aggravated Assault	166	25	30	63	37	12	18	3	0			
Burglary												
Larceny/Theft	556	92	8	241	68	2	141	3	7	38	6	3
Motor Vehicle Theft	70	29	2	8	5	1	26	3	0			
Arson												
										10	4	3

* 81 agencies operating buses with low population density reported Security data (1.41 billion passengers)

Who are the 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	7	0	2	0	0	2	1	1			
Forcible Rape	2	8	4	1	0	0	3	0	0			
Robbery	98	3268	186	6	13	33	66	113	3			
Aggravated Assault	19	947	99	20	82	41	16	22	3			
Burglary												
Larceny/Theft	1228	8012	445	367	175	11	514	134	23	212	1343	48
Motor Vehicle Theft	139	1630	179	14	13	3	3	6	1			
Arson										21	16	5

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	7	0	0	0	0	0	0	0			
Forcible Rape	0	5	0	0	0	0	0	0	0			
Robbery	19	2748	0	1	10	31	0	29	0			
Aggravated Assault	0	617	7	0	7	21	3	11	0			
Burglary												
Larceny/Theft	673	6139	10	58	34	5	232	56	3	62	1241	0
Motor Vehicle Theft	9	589	0	1	5	0	0	4	0			
Arson										7	11	0

* 9 agencies operating rail with high population density reported Security data (2.0 billion passengers)

Who are the 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	0	0	2	0	0	1	0	0			
Forcible Rape	1	2	2	0	0	0	2	0	0			
Robbery	35	273	82	4	0	1	16	4	1			
Aggravated Assault	12	255	52	6	75	16	6	1	0			
Burglary										40	37	35
Larceny/Theft	255	752	193	199	101	3	32	28	13			
Motor Vehicle Theft	74	557	68	1	7	3	3	0	1			
Arson										13	2	3

* 14 agencies operating rail with medium population density reported Security data (.56 billion passengers)

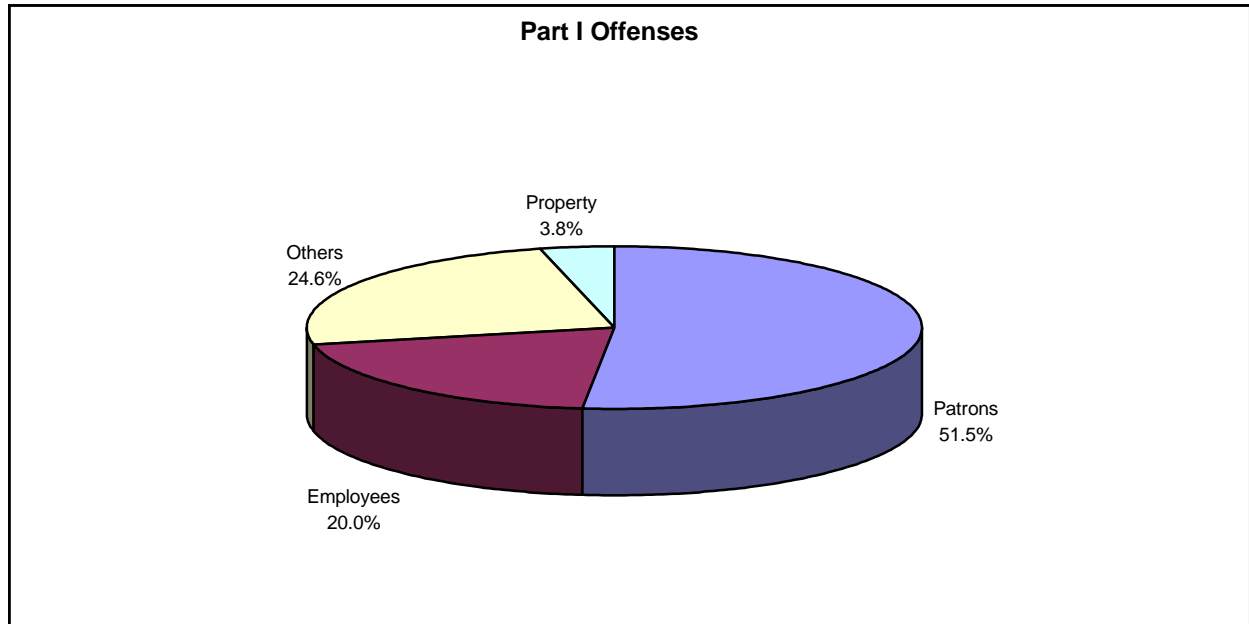
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	Patrons			Employees			Others			Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	0	0	0	0	0	1	1	1			
Forcible Rape	1	1	2	1	0	0	1	0	0			
Robbery	44	247	104	1	3	1	50	80	2			
Aggravated Assault	7	75	40	14	0	4	7	10	3			
Burglary										110	65	13
Larceny/Theft	300	1121	242	110	40	3	250	50	7			
Motor Vehicle Theft	56	484	111	12	1	0	0	2	0			
Arson										1	3	2

* 16 agencies operating rail with low population density reported Security data (.41 billion passengers)

Who are the 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	1	0	0	0	0	0	0	0			
Robbery	17	0	0	0	0	0	0	0	0			
Aggravated Assault	12	7	0	3	1	0	0	0	0			
Burglary												
Larceny/Theft	15	14	0	8	14	0	28	3	0	4	1	0
Motor Vehicle Theft	0	1	1	0	0	0	0	0	1			
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	17	0		0	0		0	0				
Aggravated Assault	5	0		3	0		0	0				
Burglary										3	0	
Larceny/Theft	13	0		0	0		28	0				
Motor Vehicle Theft	0	0		0	0		0	0				
Arson										0	0	

* 5 agencies operating AG/DR/VP with high population density reported Security data (4.9 million passengers)

Who are the 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	1	0	0	0	0	0	0	0			
Robbery	0	0	0	0	0	0	0	0	0			
Aggravated Assault	7	0	0	0	0	0	0	0	0			
Burglary										1	1	0
Larceny/Theft	2	13	0	8	6	0	0	0	0			
Motor Vehicle Theft	0	1	1	0	0	0	0	0	1			
Arson										0	0	0

* 50 agencies operating AG/DR/VP with medium population density reported Security data (8.8 million passengers)

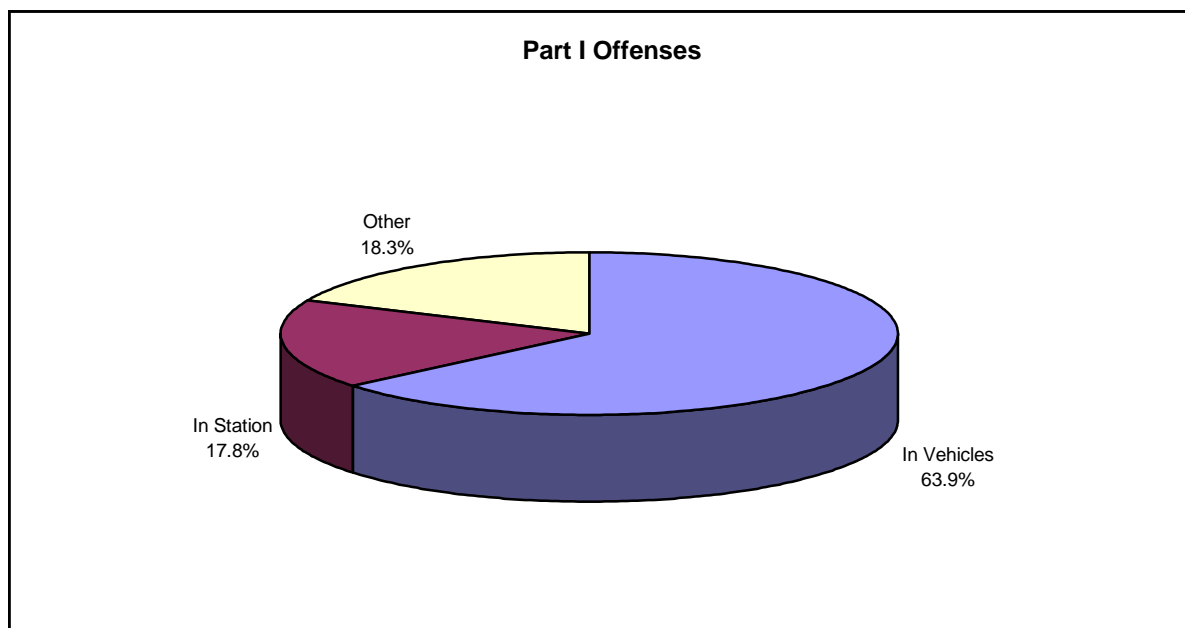
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

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		7	0		1	0		0	0			
Burglary												
Larceny/Theft		1	0		8	0		3	0			
Motor Vehicle Theft		0	0		0	0		0	0			
Arson											0	0

* 61 agencies operating AG/DR/VP with low population density reported Security data (11.8 million passengers)

Where Do Transit Crimes Occur?

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	3	0	0	0	0	0	3	0	0
Forcible Rape	0	3	0	0	0	0	6	1	0
Robbery	335	208	5	179	16	1	145	34	1
Aggravated Assault	588	860	42	100	32	22	98	29	0
Burglary	0	5	2	5	13	1	41	21	0
Larceny/Theft	1235	643	8	548	112	18	441	133	35
Motor Vehicle Theft	3	4	0	15	35	2	83	51	3
Arson	8	6	0	1	4	1	7	0	3

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	0	0	0	0	0	0	0	0
Forcible Rape	0	1	0	0	0	0	0	0	0
Robbery	98	131	0	69	0	0	4	26	0
Aggravated Assault	173	636	6	38	1	0	1	12	0
Burglary	0	5	0	0	0	0	0	0	0
Larceny/Theft	396	435	0	316	3	0	1	21	0
Motor Vehicle Theft	0	2	0	0	3	0	1	0	0
Arson	3	3	0	0	0	0	1	0	0

* 17 agencies operating buses with high population density reported Security data (1.23 billion passengers)

Where Do Transit Crimes Occur?

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	1	0	0	0	0	0	0	0	0
Forcible Rape	0	2	0	0	0	0	1	1	0
Robbery	99	47	2	66	15	0	49	6	0
Aggravated Assault	240	173	6	20	24	10	67	10	0
Burglary	0	0	0	0	9	0	8	19	0
Larceny/Theft	349	116	3	59	87	8	165	63	33
Motor Vehicle Theft	3	2	0	0	28	0	27	26	3
Arson	2	2	0	0	1	1	0	0	0

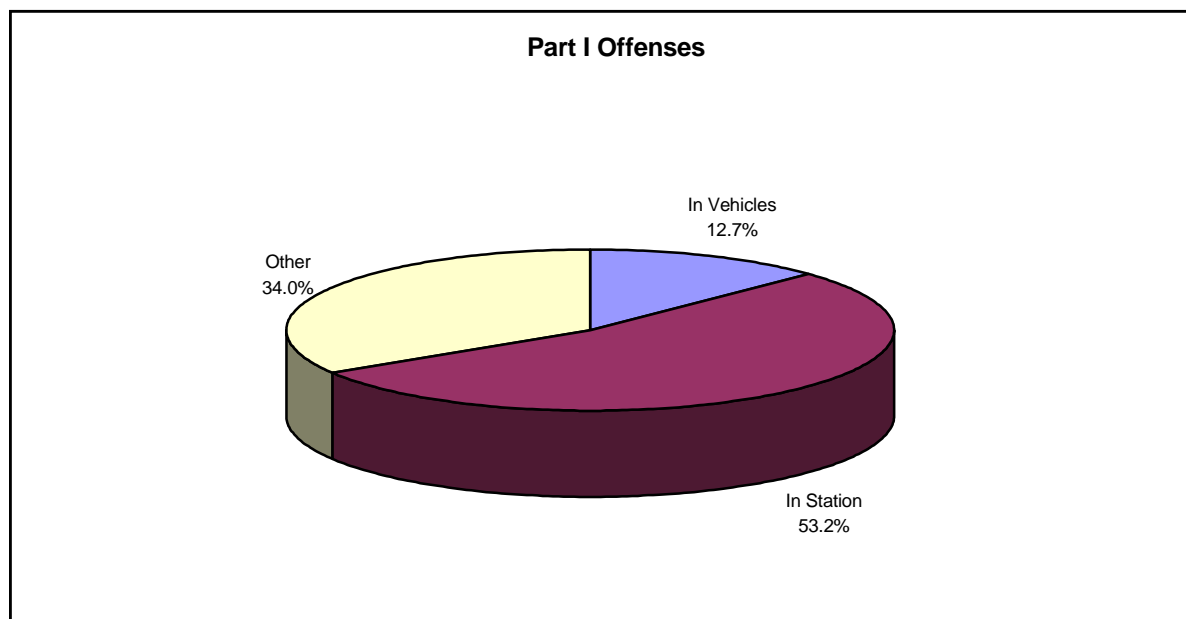
* 83 agencies operating buses with medium population density reported Security data (1.55 billion passengers)

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	0	0	0	3	0	0
Forcible Rape	0	0	0	0	0	0	5	0	0
Robbery	138	30	3	44	1	1	92	2	1
Aggravated Assault	175	51	30	42	7	12	30	7	0
Burglary	0	0	2	5	4	1	33	2	0
Larceny/Theft	490	92	5	173	22	10	275	49	2
Motor Vehicle Theft	0	0	0	15	4	2	55	25	0
Arson	3	1	0	1	3	0	6	0	3

* 81 agencies operating buses with low population density reported Security data (1.41 billion passengers)

Where Do Transit Crimes Occur? 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	0	3	8	0	1	0	1
Forcible Rape	1	0	0	3	5	3	2	3	1
Robbery	7	221	53	132	2772	148	31	401	21
Aggravated Assault	10	53	33	29	892	105	16	106	5
Burglary	0	4	0	114	110	16	98	1229	32
Larceny/Theft	646	1346	108	889	4836	217	574	2139	154
Motor Vehicle Theft	0	0	0	56	39	23	83	1591	156
Arson	5	7	0	9	8	2	7	1	3

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	7	0	0	0	0
Forcible Rape	0	0	0	0	3	0	0	2	0
Robbery	1	145	19	19	2325	6	0	317	6
Aggravated Assault	1	25	13	1	539	14	1	71	1
Burglary	0	4	0	35	37	0	27	1200	0
Larceny/Theft	476	889	7	308	4117	11	179	1223	0
Motor Vehicle Theft	0	0	0	9	0	0	0	589	0
Arson	5	5	0	1	6	0	1	0	0

* 9 agencies operating rail with high population density reported Security data (2.0 billion passengers)

Where Do Transit Crimes Occur?

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	2	0	0	1	0	0
Forcible Rape	1	0	0	1	2	2	1	0	0
Robbery	0	20	17	32	206	57	23	51	10
Aggravated Assault	0	18	10	11	292	57	13	21	1
Burglary	0	0	0	6	29	16	34	8	19
Larceny/Theft	29	88	46	188	343	80	269	450	83
Motor Vehicle Theft	0	0	0	40	38	23	34	519	45
Arson	0	1	0	7	0	2	6	1	1

* 14 agencies operating rail with medium population density reported Security data (.56 billion passengers)

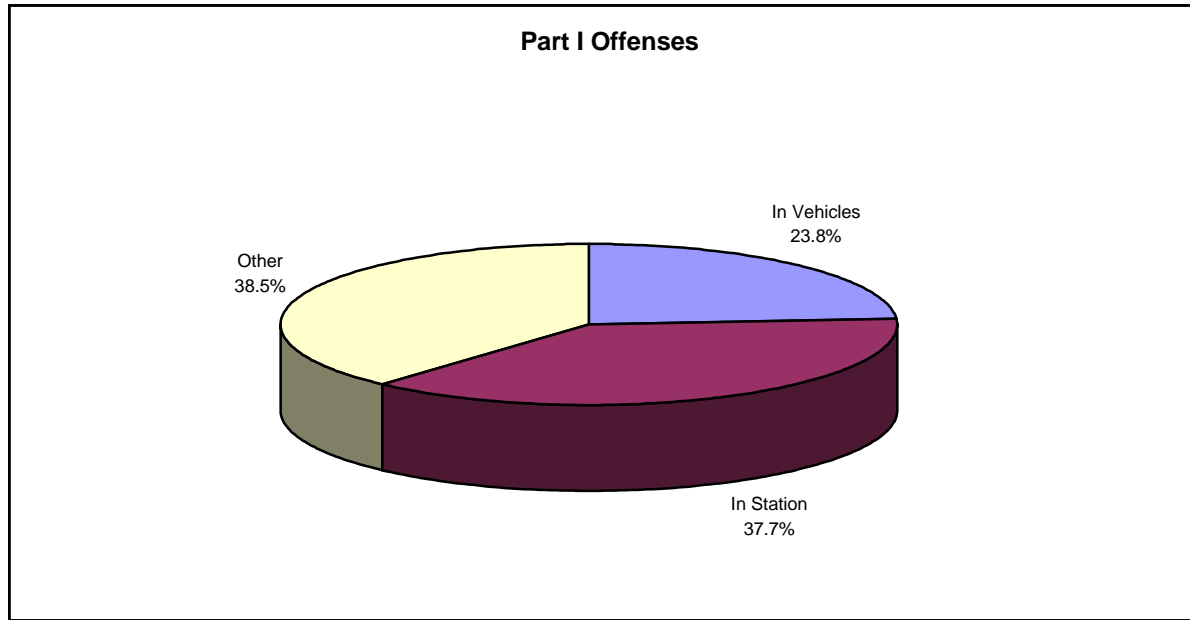
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part I Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Homicide	0	0	0	1	1	0	0	0	1
Forcible Rape	0	0	0	2	0	1	1	1	1
Robbery	6	56	17	81	241	85	8	33	5
Aggravated Assault	9	10	10	17	61	34	2	14	3
Burglary	0	0	0	73	44	0	37	21	13
Larceny/Theft	141	369	55	393	376	126	126	466	71
Motor Vehicle Theft	0	0	0	7	1	0	49	483	111
Arson	0	1	0	1	2	0	0	0	2

* 16 agencies operating rail with low population density reported Security data (.41 billion passengers)

Where Do Transit Crimes Occur?

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	1	0	0	0	0
Robbery	5	0	0	10	0	0	2	0	0
Aggravated Assault	4	0	0	9	8	0	2	0	0
Burglary	0	0	0	3	1	0	1	0	0
Larceny/Theft	9	11	0	17	0	0	25	20	0
Motor Vehicle Theft	0	1	1	0	0	0	0	0	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	5	0		10	0		2	0	
Aggravated Assault	1	0		5	0		2	0	
Burglary	0	0		3	0		0	0	
Larceny/Theft	7	0		17	0		17	0	
Motor Vehicle Theft	0	0		0	0		0	0	
Arson	0	0		0	0		0	0	

* 5 agencies operating AG/DR/VP with high population density reported Security data (4.9 million passengers)

Where Do Transit Crimes Occur?

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	1	0	0	0	0
Robbery	0	0	0	0	0	0	0	0	0
Aggravated Assault	3	0	0	4	0	0	0	0	0
Burglary	0	0	0	0	1	0	1	0	0
Larceny/Theft	2	9	0	0	0	0	8	10	0
Motor Vehicle Theft	0	1	1	0	0	0	0	0	0
Arson	0	0	0	0	0	0	0	0	0

* 50 agencies operating AG/DR/VP with medium population density reported Security data (8.8 million passengers)

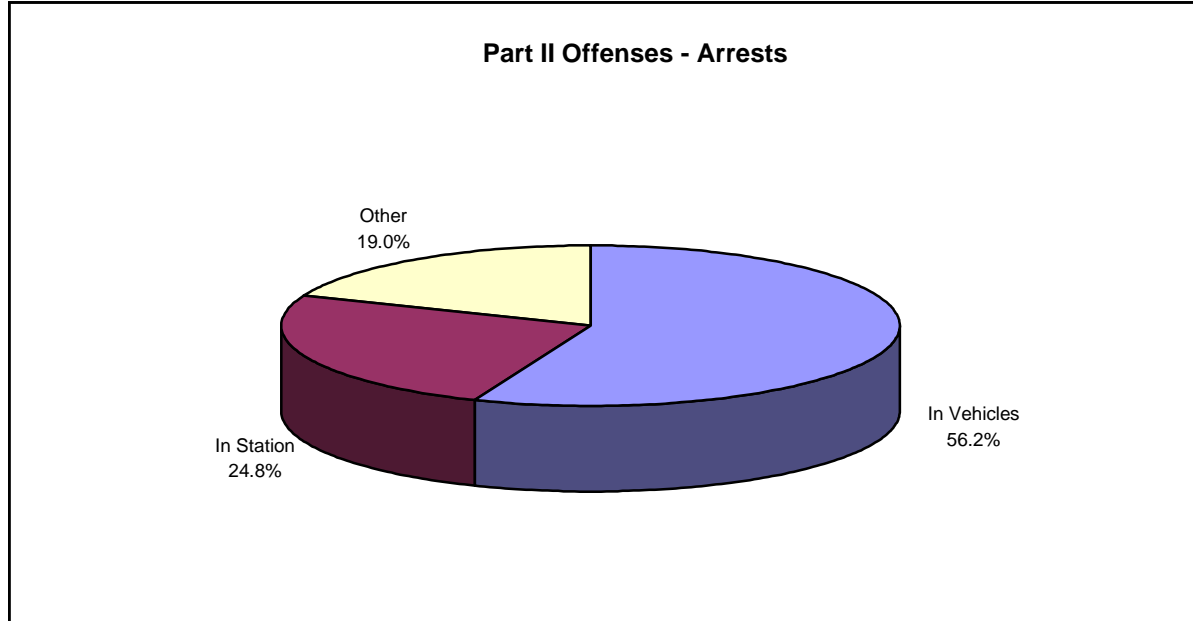
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

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		0	0		8	0		0	0
Burglary		0	0		0	0		0	0
Larceny/Theft		2	0		0	0		10	0
Motor Vehicle Theft		0	0		0	0		0	0
Arson		0	0		0	0		0	0

* 61 agencies operating AG/DR/VP with low population density reported Security data (11.8 million passengers)

Where Are Transit Arrests Made?

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	504	460	34	63	87	12	169	34	1
Vandalism	671	2425	83	173	1888	3	104	100	11
Sex Offenses	45	64	1	29	9	5	199	5	0
Drug Abuse Violations	189	44	3	726	68	6	855	75	0
DUI	6	8	0	2	8	4	60	12	0
Drunkenness	1026	1511	68	512	966	93	336	421	19
Disorderly Conduct	2757	2056	85	383	263	85	1048	182	1
Trespassing	76	18	47	176	154	48	308	382	0
Fare Evasion	1218	485	43	20	11	0	9	152	1
Curfew/Loitering Laws	80	11	1	28	371	8	203	53	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	88	68	2	14	2	0	0	0	0
Vandalism	70	1207	6	15	0	0	10	12	0
Sex Offenses	8	4	0	3	0	0	0	0	0
Drug Abuse Violations	73	6	0	4	0	0	3	10	0
DUI	0	0	0	0	0	0	0	0	0
Drunkenness	105	254	0	0	0	0	0	8	0
Disorderly Conduct	1205	858	0	0	0	0	3	12	0
Trespassing	39	1	0	2	1	0	1	0	0
Fare Evasion	1104	229	3	10	0	0	0	149	0
Curfew/Loitering Laws	62	11	0	0	0	0	0	27	0

* 17 agencies operating buses with high population density reported Security data (1.23 billion passengers)

Where Are Transit Arrests Made?

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	210	227	22	22	48	9	18	23	0
Vandalism	199	853	10	81	1802	3	18	58	8
Sex Offenses	10	43	0	12	5	4	14	4	0
Drug Abuse Violations	48	22	1	200	48	1	27	60	0
DUI	3	1	0	1	2	4	34	10	0
Drunkenness	195	583	17	75	629	22	78	211	0
Disorderly Conduct	595	216	17	34	98	48	380	34	0
Trespassing	7	1	0	6	3	45	117	344	0
Fare Evasion	88	207	6	0	7	0	6	3	0
Curfew/Loitering Laws	1	0	0	6	14	6	14	25	0

* 83 agencies operating buses with medium population density reported Security data (1.55 billion passengers)

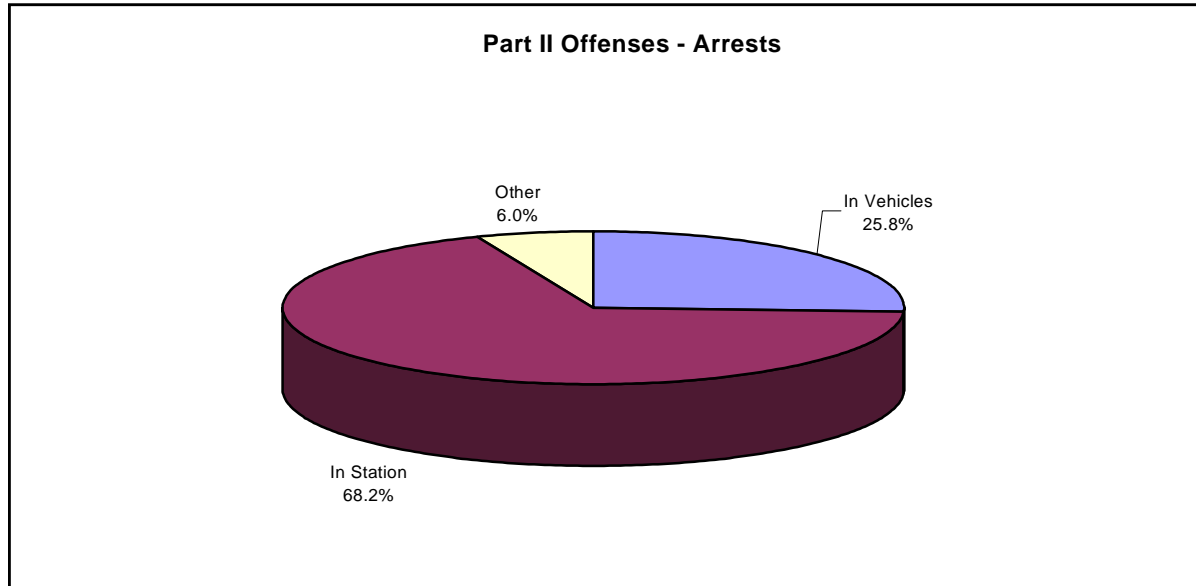
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	LMB	MMB	SMB	LMB	MMB	SMB	LMB	MMB	SMB
Other Assaults	206	165	10	27	37	3	151	11	1
Vandalism	402	365	67	77	86	0	76	30	3
Sex Offenses	27	17	1	14	4	1	185	1	0
Drug Abuse Violations	68	16	2	522	20	5	825	5	0
DUI	3	7	0	1	6	0	26	2	0
Drunkenness	726	674	51	437	337	71	258	202	19
Disorderly Conduct	957	982	68	349	165	37	665	136	1
Trespassing	30	16	47	168	150	3	190	38	0
Fare Evasion	26	49	34	10	4	0	3	0	1
Curfew/Loitering Laws	17	0	1	22	357	2	189	1	0

* 81 agencies operating buses with low population density reported Security data (1.41 billion passengers)

Where Are Transit Arrests Made?

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	12	139	44	64	691	127	52	51	24
Vandalism	12	364	1172	105	684	733	370	80	179
Sex Offenses	14	46	19	17	461	53	12	10	7
Drug Abuse Violations	36	286	55	361	1176	249	51	68	32
DUI	0	0	0	1	0	2	17	22	29
Drunkenness	11	512	365	7	908	712	111	181	181
Disorderly Conduct	95	12229	629	791	2748	492	75	332	56
Trespassing	12	363	12	408	761	332	2338	274	119
Fare Evasion	159	3256	773	2	42727	120	25	123	19
Curfew/Loitering Laws	0	245	12	34	262	65	10	23	3

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	3	105	0	13	433	0	15	26	0
Vandalism	6	322	96	17	584	24	0	44	3
Sex Offenses	10	27	1	8	246	0	1	5	0
Drug Abuse Violations	6	238	1	128	806	4	0	22	0
DUI	0	0	0	0	0	0	0	7	0
Drunkenness	0	456	11	2	237	20	0	156	1
Disorderly Conduct	67	12123	460	584	949	21	5	247	0
Trespassing	10	343	0	176	261	0	236	201	0
Fare Evasion	117	3250	4	0	41072	34	0	113	0
Curfew/Loitering Laws	0	245	2	9	46	0	0	14	0

* 9 agencies operating rail with high population density reported Security data (2.0 billion passengers)

Where Are Transit Arrests Made?

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	1	6	31	9	92	63	8	15	16
Vandalism	4	16	229	73	59	326	53	19	58
Sex Offenses	0	12	13	4	129	46	11	5	2
Drug Abuse Violations	0	16	44	57	136	156	33	27	15
DUI	0	0	0	0	0	2	9	13	9
Drunkenness	0	6	338	4	474	680	32	15	167
Disorderly Conduct	0	32	65	41	1270	336	3	43	30
Trespassing	0	16	9	100	366	135	1327	40	88
Fare Evasion	0	2	391	1	235	9	4	1	1
Curfew/Loitering Laws	0	0	0	0	194	54	4	5	3

* 14 agencies operating rail with medium population density reported Security data (.56 billion passengers)

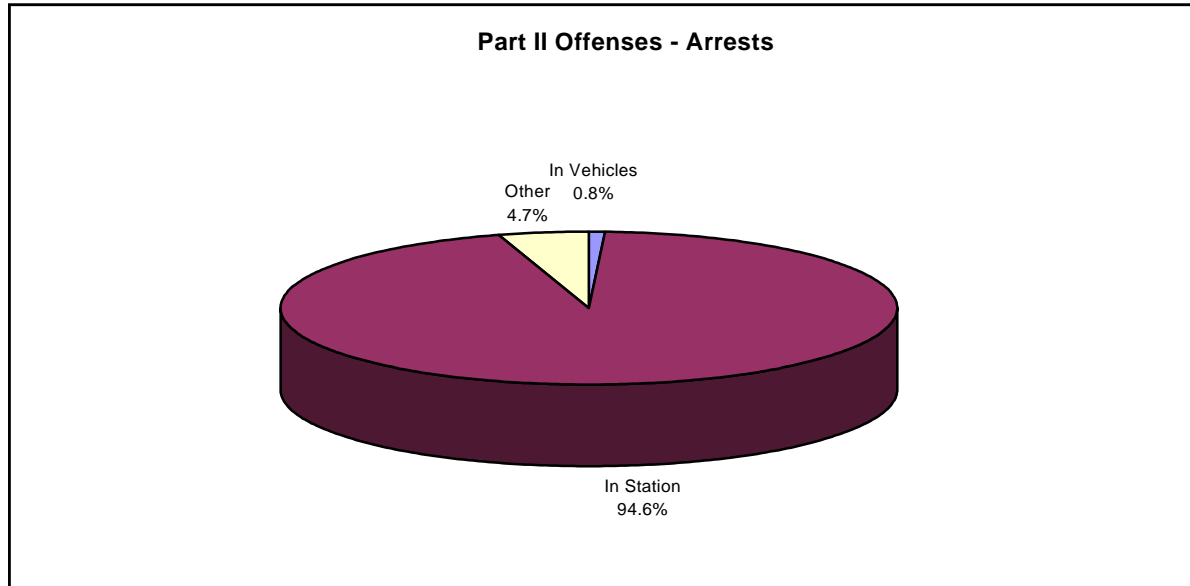
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	CR	HR	LR	CR	HR	LR	CR	HR	LR
Other Assaults	8	28	13	42	166	64	29	10	8
Vandalism	2	26	847	15	41	383	317	17	118
Sex Offenses	4	7	5	5	86	7	0	0	5
Drug Abuse Violations	30	32	10	176	234	89	18	19	17
DUI	0	0	0	1	0	0	8	2	20
Drunkenness	11	50	16	1	197	12	79	10	13
Disorderly Conduct	28	74	104	166	529	135	67	42	26
Trespassing	2	4	3	132	134	197	775	33	31
Fare Evasion	42	4	378	1	1420	77	21	9	18
Curfew/Loitering Laws	0	0	10	25	22	11	6	4	0

* 16 agencies operating rail with low population density reported Security data (.41 billion passengers)

Where Are Transit Arrests Made?

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	2	8	0	12	2	0	0	0	0
Vandalism	8	2	4	44	1	0	0	0	0
Sex Offenses	0	1	0	0	0	0	0	0	0
Drug Abuse Violations	0	0	0	0	6	0	0	0	0
DUI	0	0	0	0	0	0	0	0	0
Drunkenness	0	2	0	1	43	0	0	0	0
Disorderly Conduct	0	8	0	48	23	0	33	0	0
Trespassing	0	0	0	11	1	0	179	0	0
Fare Evasion	0	0	0	4107	1	0	0	0	0
Curfew/Loitering Laws	0	0	0	10	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	0	0		8	0		0	0	
Vandalism	8	0		25	0		0	0	
Sex Offenses	0	0		0	0		0	0	
Drug Abuse Violations	0	0		0	0		0	0	
DUI	0	0		0	0		0	0	
Drunkenness	0	0		1	0		0	0	
Disorderly Conduct	0	0		1	0		4	0	
Trespassing	0	0		11	0		0	0	
Fare Evasion	0	0		4	0		0	0	
Curfew/Loitering Laws	0	0		0	0		0	0	

* 5 agencies operating AG/DR/VP with high population density reported Security data (4.9 million passengers)

Where Are Transit Arrests Made?

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	2	0	0	4	0	0	0	0	0
Vandalism	0	1	4	19	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	1	0	0	0	0	0	0	0
Disorderly Conduct	0	0	0	47	0	0	29	0	0
Trespassing	0	0	0	0	0	0	179	0	0
Fare Evasion	0	0	0	4103	0	0	0	0	0
Curfew/Loitering Laws	0	0	0	10	0	0	0	0	0

* 50 agencies operating AG/DR/VP with medium population density reported Security data (8.8 million passengers)

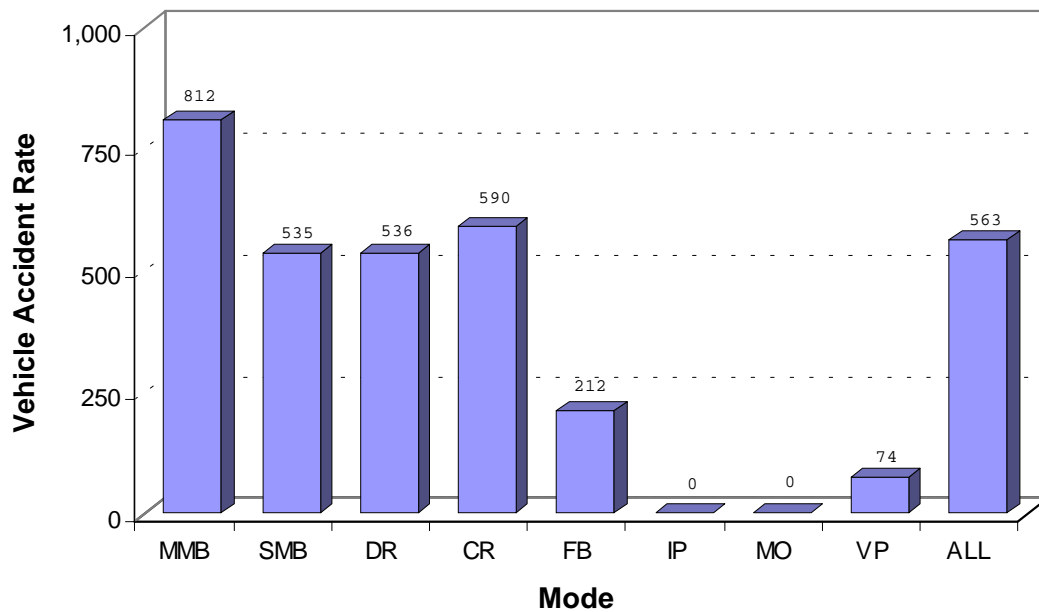
Agencies with Low Population Density in Service Area (Under 2000 Population per Square Mile)*

Part II Offenses	In Vehicle			In Station			Other Property		
	AG	DR	VP	AG	DR	VP	AG	DR	VP
Other Assaults		8	0		2	0		0	0
Vandalism		1	0		1	0		0	0
Sex Offenses		1	0		0	0		0	0
Drug Abuse Violations		0	0		6	0		0	0
DUI		0	0		0	0		0	0
Drunkenness		1	0		43	0		0	0
Disorderly Conduct		8	0		23	0		0	0
Trespassing		0	0		1	0		0	0
Fare Evasion		0	0		1	0		0	0
Curfew/Loitering Laws		0	0		0	0		0	0

* 61 agencies operating AG/DR/VP with low population density reported Security data (11.8 million passengers)

**The 1997 SAMIS safety and security data
for
Purchased Transportation**

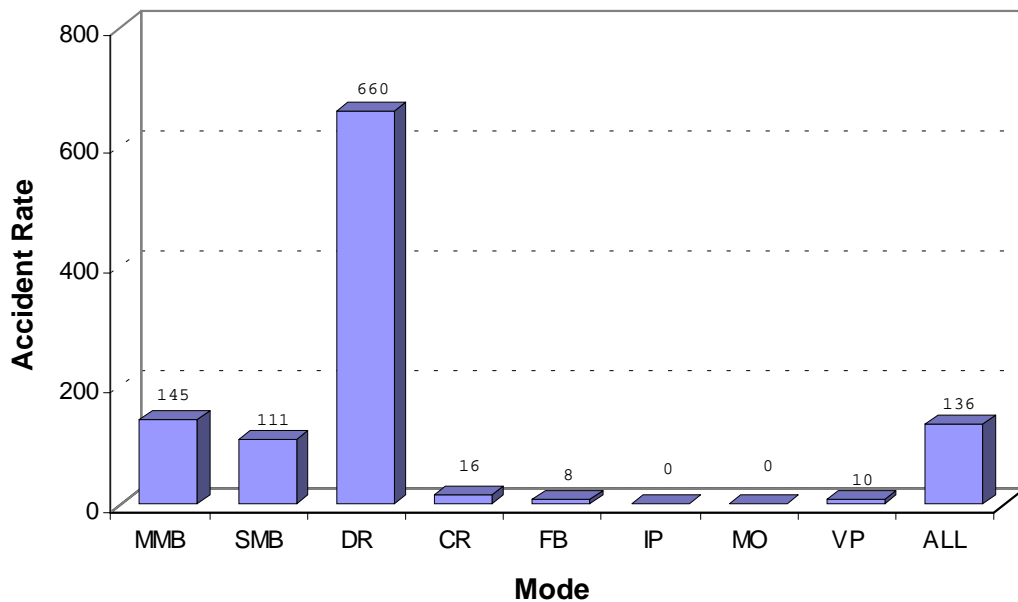
Purchased Transportation - Accidents per 100,000,000 Vehicle Miles



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.

Purchased Transportation - Accidents

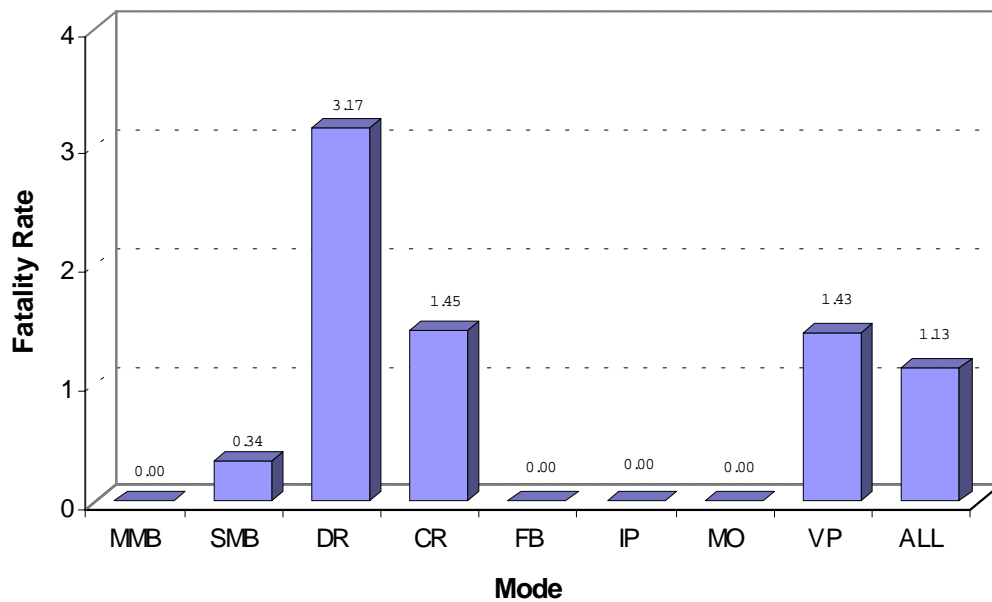
per 100,000,000 Passenger Miles



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.

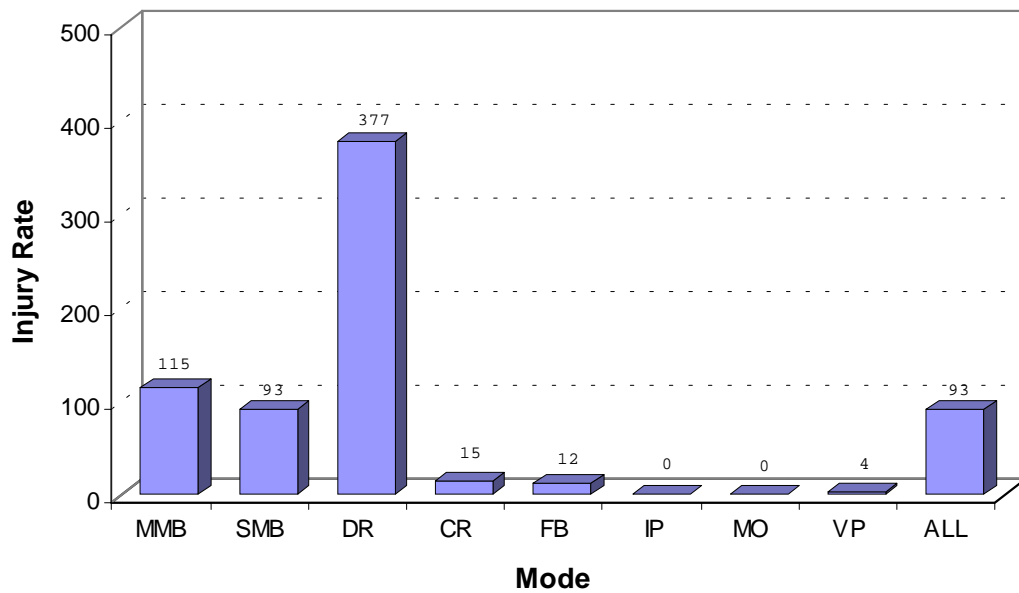
Purchased Transportation - Fatalities

per 100,000,000 Passenger Miles



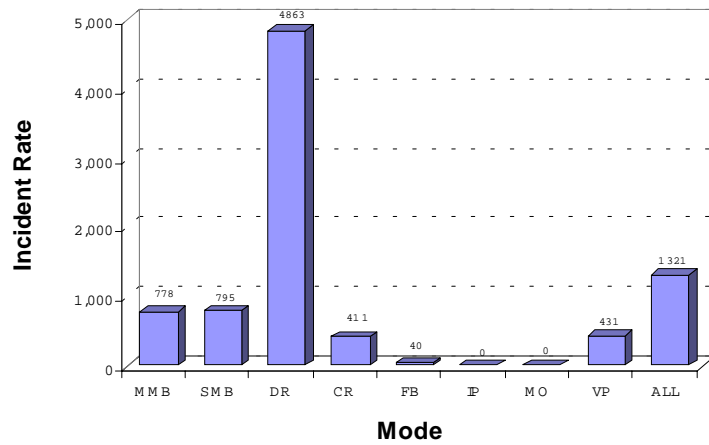
These statistics represent fatalities resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

Purchased Transportation - Injuries per 100,000,000 Passenger Miles

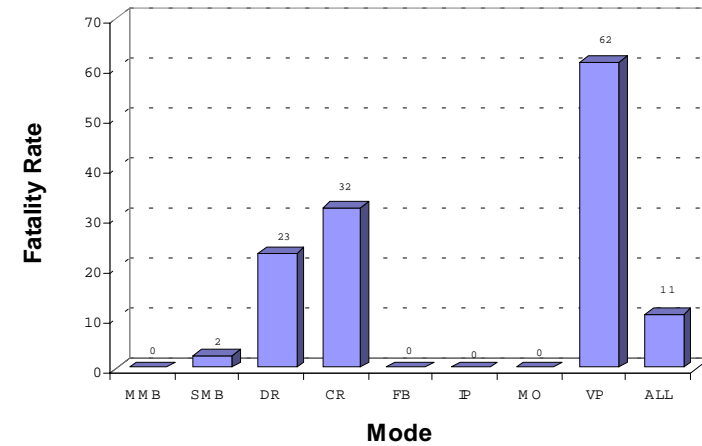


These statistics represent injuries resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on right of way, inside the vehicle, and entering/exiting the vehicle).

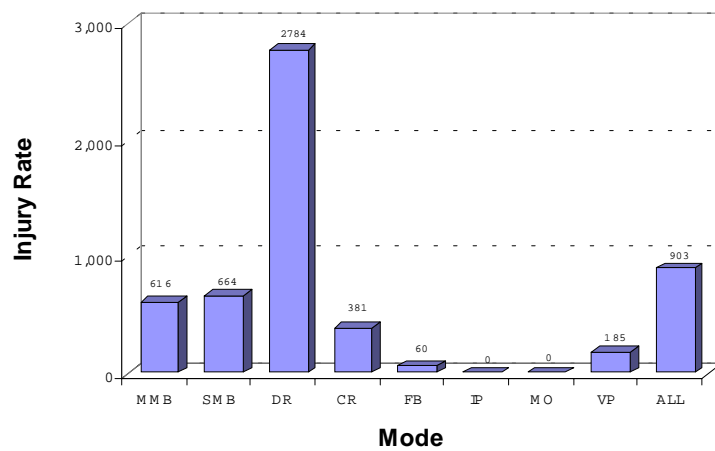
Purchased Transportation - Incidents
of all types
per 100,000,000 Passengers



Purchased Transportation - Fatalities
from all causes
per 100,000,000 Passengers

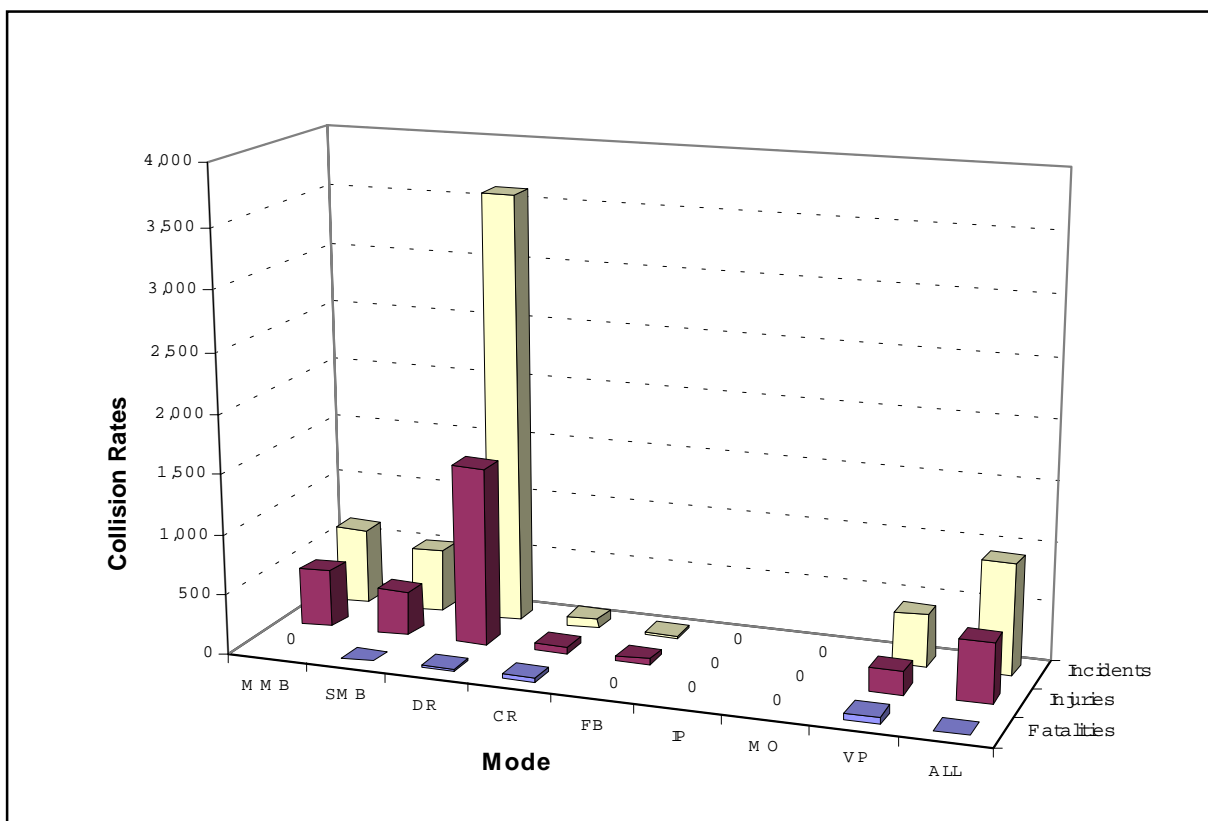


Purchased Transportation - Injuries
from all causes
per 100,000,000 Passengers



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.**

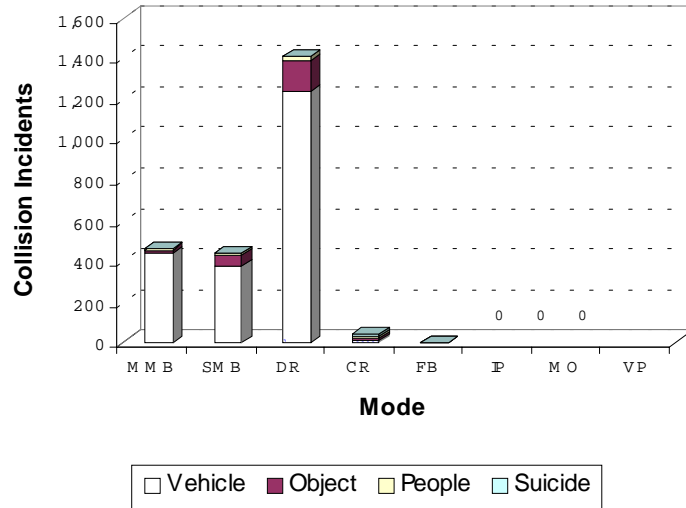
Also note that they are indexed in number of Passengers.



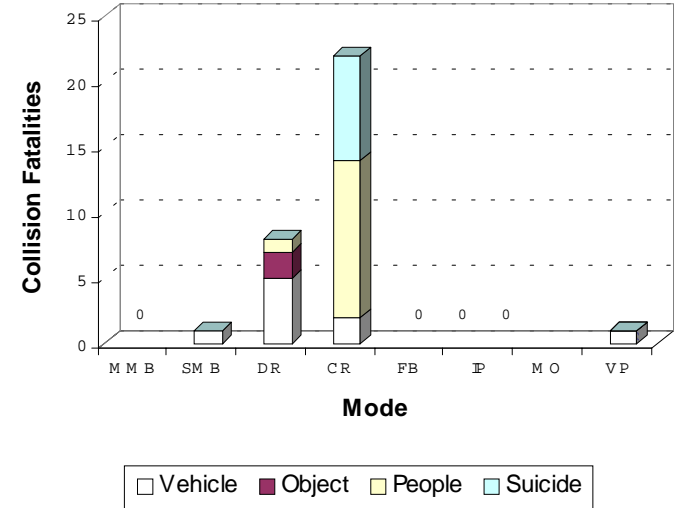
This graph shows the rates of *incidents*, *injuries*, and *fatalities*(except attempted/successful suicides) for the **Collisions** category of Form 405.

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.

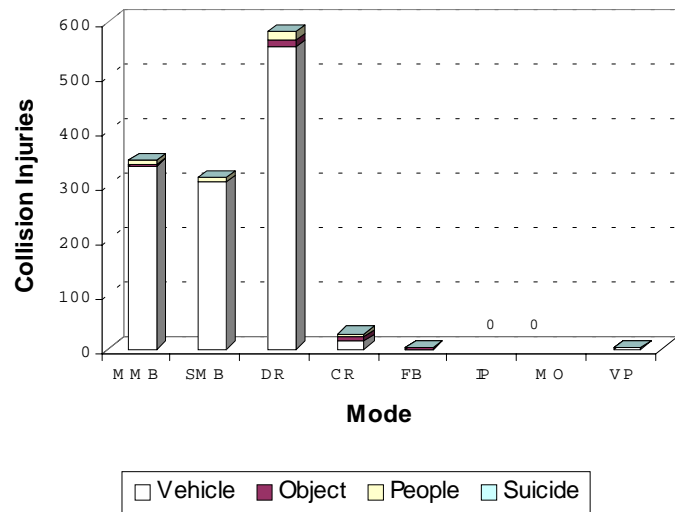
Purchased Transportation - Incidents
of Collision



Purchased Transportation - Fatalities
Resulting from Collisions



Purchased Transportation - Injuries
Resulting from Collisions

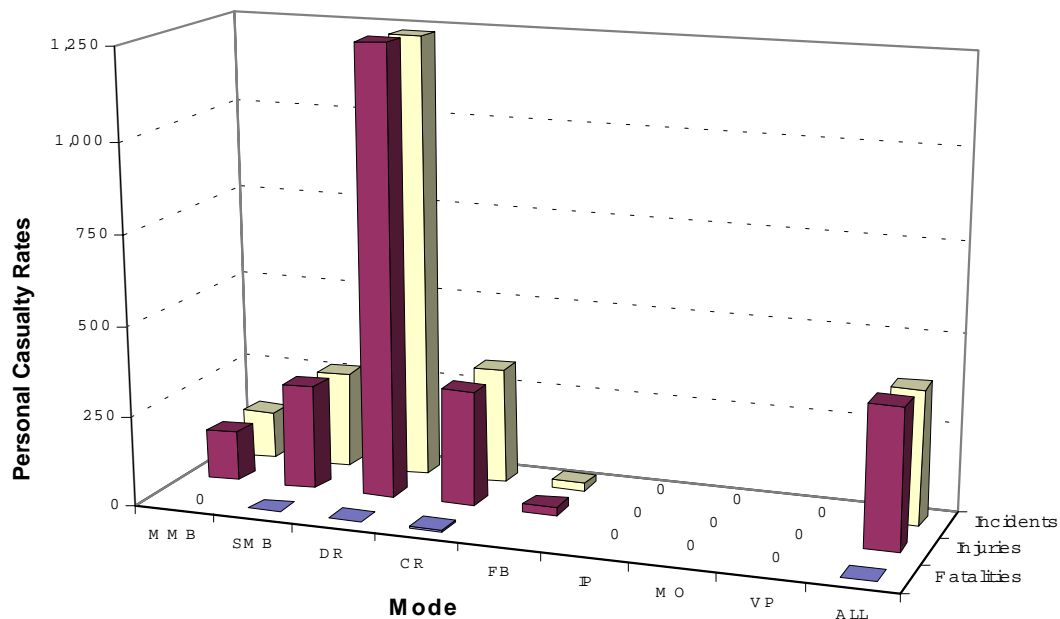


These graphs break down by type *incidents*, *injuries*, and *fatalities* resulting from **Collisions** (with vehicles, objects, and people).

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

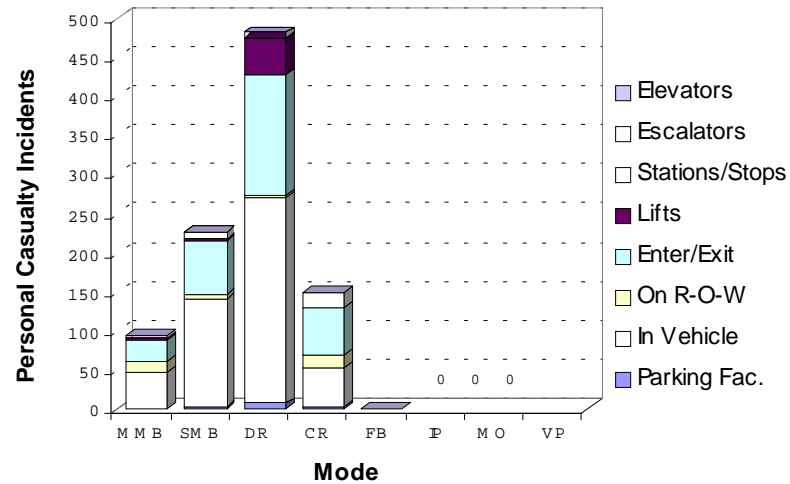
Purchased Transportation - Personal Casualties

per 100,000,000 Passengers

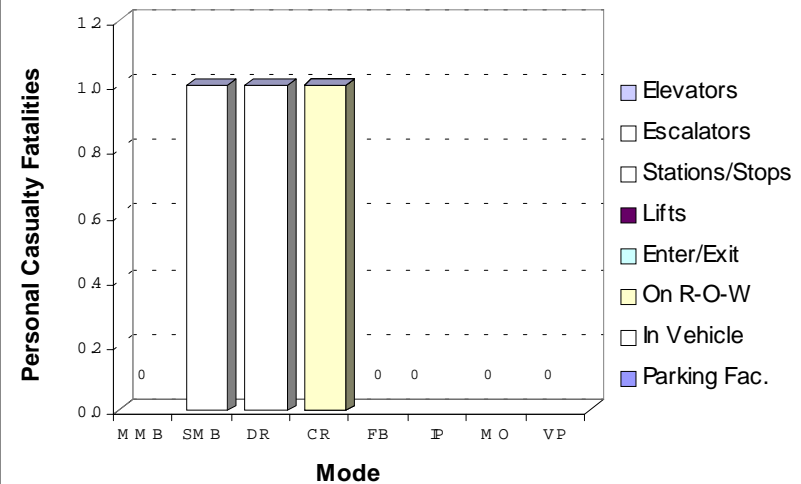


This graph provides the rates by transit mode for *incidents*, *fatalities*, and *injuries*, classified under the **Personal Casualties** category of Form 405. Keep in mind that **Personal Casualties** is a transit mishap category where people are hurt but not as a result of Collisions, Derailments, 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 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.

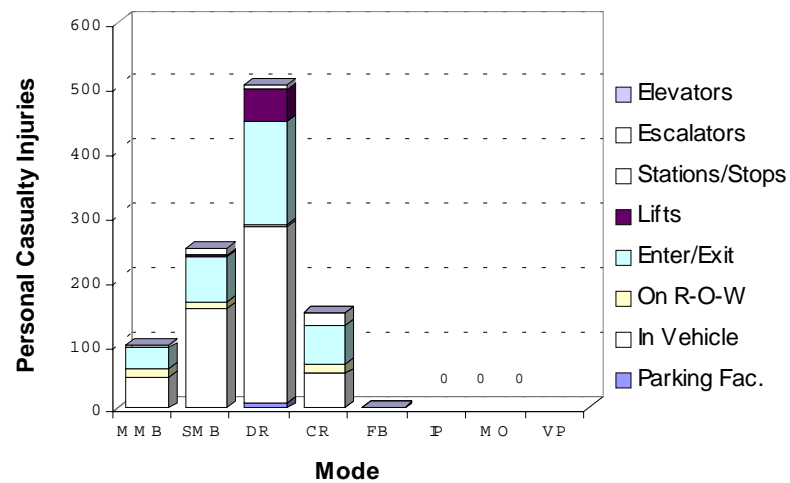
Purchased Transportation - Incidents
of Personal Casualty



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.

Purchased Transportation - Collisions

Bus

INCIDENTS

Collisions¹	MMB	SMB
With Other Vehicles	437	376
(w/vehicles at grade crossings)	1	7
With Objects	19	54
(w/objects at grade crossings)	0	1
With People ²	5	13
(w/people at grade crossings)	0	0
(attempted suicides) ³	0	0
Total⁴	461	443

FATALITIES

Collisions¹	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
With Other Vehicles	0	0	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	0
(w/people at grade crossings)	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0
Total⁴	0	0	0	0	0	1

INJURIES

Collisions¹	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
With Other Vehicles	216	200	58	36	62	69
(w/vehicles at grade crossings)	3	1	0	0	1	0
With Objects	3	2	0	0	0	0
(w/objects at grade crossings)	0	0	0	0	0	0
With People ²	2	1	0	1	4	6
(w/people at grade crossings)	0	0	0	0	0	0
(attempted suicides)	0	0	0	0	0	0
Total⁴	221	203	58	37	66	75

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

Collisions¹	CR
With Other Vehicles	11
(w/vehicles at grade crossings)	10
With Objects	7
(w/objects at grade crossings)	3
With People ²	25
(w/people at grade crossings)	2
(attempted suicides) ³	8
Total⁴	43

FATALITIES

Collisions¹	Patrons	Employees	Others
	CR	CR	CR
With Other Vehicles	0	0	2
(w/vehicles at grade crossings)	0	0	2
With Objects	0	0	0
(w/objects at grade crossings)	0	0	0
With People ²	0	0	20
(w/people at grade crossings)	0	0	1
(attempted suicides)	0	0	8
Total⁴	0	0	22

INJURIES

Collisions¹	Patrons	Employees	Others
	CR	CR	CR
With Other Vehicles	13	0	1
(w/vehicles at grade crossings)	13	0	1
With Objects	9	0	0
(w/objects at grade crossings)	0	0	0
With People ²	1	1	3
(w/people at grade crossings)	0	0	1
(attempted suicides)	0	0	0
Total⁴	23	1	4

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

Collisions¹	DR	FB	VP
With Other Vehicles	1,238	0	5
(w/vehicles at grade crossings)	4	0	0
With Objects	145	1	2
(w/objects at grade crossings)	1	0	0
With People ²	22	0	0
(w/people at grade crossings)	0	0	0
(attempted suicides) ³	0	0	0
Total⁴	1,405	1	7

FATALITIES

Collisions¹	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
With Other Vehicles	1	0	0	0	0	0	4	0	1
(w/vehicles at grade crossings)	0	0	0	0	0	0	0	0	0
With Objects	1	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	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	2	0	0	1	0	0	5	0	1

INJURIES

Collisions¹	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
With Other Vehicles	277	0	2	139	0	0	138	0	0
(w/vehicles at grade crossings)	0	0	0	1	0	0	0	0	0
With Objects	5	2	0	6	0	0	2	0	1
(w/objects at grade crossings)	0	0	0	0	0	0	0	0	0
With People ²	4	0	0	1	0	0	11	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	286	2	2	146	0	0	151	0	1

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) and Inclined Plane (IP) had no incidents

Purchased Transportation - Personal Casualties

Bus

INCIDENTS

Personal Casualties	MMB	SMB
Parking Facility	0	2
Inside Vehicle	48	139
On Right of Way	13	6
Entering/Exiting Vehicle ¹	29	71
(associated With lifts)	2	3
In Stations/Stops ²	4	8
(associated with escalators)	0	0
(associated with elevators)	0	0
Total³	94	226

FATALITIES

Personal Casualties	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
Parking Facility	0	0	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	1	0	0	0	0

INJURIES

Personal Casualties	Patrons		Employees		Others	
	MMB	SMB	MMB	SMB	MMB	SMB
Parking Facility	0	0	0	2	0	0
Inside Vehicle	30	147	14	7	4	0
On Right of Way	8	5	3	3	2	0
Entering/Exiting Vehicle ¹	32	69	0	3	2	1
(associated With lifts)	2	3	0	0	0	0
In Stations/Stops ²	4	10	0	0	0	1
(associated with escalators)	0	0	0	0	0	0
(associated with elevators)	0	0	0	0	0	0
Total³	74	231	17	15	8	2

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	2
Inside Vehicle	50
On Right of Way	17
Entering/Exiting Vehicle ¹	60
(associated With lifts)	0
In Stations/Stops ²	20
(associated with escalators)	0
(associated with elevators)	0
Total³	149

FATALITIES

Personal Casualties	Patrons	Employees	Others
	CR	CR	CR
Parking Facility	0	0	0
Inside Vehicle	0	0	0
On Right of Way	0	0	1
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	0	0	1

INJURIES

Personal Casualties	Patrons	Employees	Others
	CR	CR	CR
Parking Facility	1	1	0
Inside Vehicle	25	26	0
On Right of Way	7	8	1
Entering/Exiting Vehicle ¹	53	7	0
(associated With lifts)	0	0	0
In Stations/Stops ²	16	4	0
(associated with escalators)	0	0	0
(associated with elevators)	0	0	0
Total³	102	46	1

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	7	0	0
Inside Vehicle	264	0	0
On Right of Way	3	0	0
Entering/Exiting Vehicle ¹	202	1	0
(associated With lifts)	48	0	0
In Stations/Stops ²	6	0	0
(associated with escalators)	0	0	0
(associated with elevators)	0	0	0
Total³	482	1	0

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	0	0	0	1	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	0	0	0	1	0	0	0	0	0

INJURIES

Personal Casualties	Patrons			Employees			Others		
	DR	FB	VP	DR	FB	VP	DR	FB	VP
Parking Facility	1	0	0	6	0	0	0	0	0
Inside Vehicle	208	0	0	65	0	0	1	0	0
On Right of Way	0	0	0	3	0	0	0	0	0
Entering/Exiting Vehicle ¹	174	1	0	34	0	0	3	0	0
(associated With lifts)	42	0	0	7	0	0	1	0	0
In Stations/Stops ²	6	0	0	0	0	0	1	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	389	1	0	108	0	0	5	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

Purchased Transportation - Fires

Bus

INCIDENTS

Fires	MMB	SMB
In Vehicles	2	5
In Station	0	0
Right of Way and Others	3	0
Total	5	5

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	1	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	1	0	0	0	0	0

Purchased Transportation - Fires

Rail

INCIDENTS

Fires	CR
In Vehicles	0
In Station	0
Right of Way and Others	2
Total	2

FATALITIES

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

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

Purchased Transportation - Fires

Demand Response, Ferryboat, Vanpool

INCIDENTS

Fires	DR	FB	VP
In Vehicles	8	0	0
In Station	2	0	0
Right of Way and Others	0	0	0
Total	10	0	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	0	0	0	1	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	1	0	0	0	0	0

Reporting Agencies

Reporting Agencies

Directly Operated Transit
by State¹

Alaska

Municipality of Anchorage

Alabama

Gadsden-Dial-A-Ride
Huntsville
Mobile-MTA
Montgomery-Autauga
Montgomery-MAT
Morgan County Area TA
NW Alabama COLG
Tuscaloosa-CP&TA

Arkansas

Fayetteville-CRG
Fayetteville-Springdale
Little Rock-CAT

Arizona

Peoria Transit
Phoenix PTD
Phoenix-Glendale
Phoenix-Sun Cities-SCAT
Phoenix-VPSI
Tucson-Sun Tran

California

Bakersfield-GET
Contra Costa-Connection
Davis-UNITRANS
Fresno-FAX
LA-Commerce
LA-Culver City
LA-Gardena Bus Line
LA-La Mirada
LA-LACMTA-Metro
LA-Laguna Beach
LA-Long Beach Transit
LA-Montebello

LA-Norwalk
LA-OCTA
LA-Santa Monica
LA-SCRRA
LA-Torrance
Monterey-MST
Oakland-AC Transit
OCTA- Dave Transportation
Oxnard-SCAT
Palm Springs-SunBus
Riverside Special Trans.
Riverside-RTA
Sacramento-RT
San Bernardino-OMNITRANS
San Diego Transit
San Diego-NCTD
San Francisco-BART
San Francisco-Muni
San Joaquin-Smart
San Jose-SCCTD
Santa Barbara-MTD
Santa Cruz-METRO
Santa Rosa-City Bus
SF-Golden Gate
SF-SamTrans

Colorado

Colorado Springs Transit
Dave Transportation
Denver-RTD
Fort Collins-Transfort
Greeley-The Bus
Pueblo-CityBus

Connecticut

Bridgeport-VTD
CT-Carey Transportation
Danbury-HART
Greater Bridgeport TD
Hartford-CT Transit
New Britain Transit
New Britain - Bristol

¹ *Italicized* agencies have reported safety and security data. Others have reported safety data only. Includes agencies who reported data as of Oct 1, 1998.

New Haven-CT Transit
New Haven-Milford
New Haven-NET
Norwalk-Wheels
Stamford-CT Transit

District of Columbia

Washington-WMATA

Delaware

Delaware-DTC

Florida

Bradenton-MCT
Brevard-SCAT
Clearwater-Pasco Shuttle
Council on Aging
Daytona Beach-VOTRAN
Ft. Lauderdale-Bct
Ft. Myers-LeeTran
Ft. Pierce-St. Lucie COA
Gainesville-RTS
Jacksonville-JTA
Lakeland-Citrus Connect
Miami-MDTA
Okaloosa County
Orlando-LYNX
Panama City-Bay Council
Pensacola-ECTS
Sarasota-SCTA
St. Petersburg-PSTA
Tallahassee-TALTRAN
Tampa-Hartline
West Palm-CoTran

Georgia

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

Hawaii

Honolulu-DTS
Honolulu-HDOT-Mayflower

Iowa

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

Idaho

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

Illinois

Bloomington-Normal
Champaign-Urbana-MTD
Chicago-CTA/Cook Dupage
Chicago-RTA-CTA
Chicago-RTA-Metra
Chicago-RTA-Pace
Decatur-DPTS
Peoria-GP Transit
Peoria-Pekin Municipal
Rock Island-Metro Link
Rockford-Loves Park
Rockford-RMTD
Springfield-SMTD

Indiana

Anderson-CATS
Bloomington-BPT
City of Kokomo
Evansville-METS
Fort Wayne-PTC
Indianapolis-Metro
Lafayette-GLPTC
Muncie-MITS
North Township DAR
NW IN-East Chicago
NW IN-Gary-GPTC
NW IN-NICTD
NW IN-RPC (Consolidated)
NWIN-LCEOC, Inc.
South Bend-Transpo
Terre Haute-TU

Kansas

Topeka-TMTA
Wichita-MTA

Kentucky

Cincinnati-TANK
Lexington-Fayette-LexTran
Louisville-TARC

Louisiana

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

Massachusetts

Boston-MBTA
Springfield Transit
Worcester-WRTA

Maryland

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

Maine

Bangor-The Bus
Portland-CBL
Portland-METRO
Portland-RTP

Michigan

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

Flint-MTA
Grand Rapids-GRATA
Jackson-JTA
Kalamazoo-Metro
Lansing-CATA
Muskegon Area Transit
Saginaw-STS

Minnesota

Duluth-DTA
Minneapolis-St. Paul-MCTO
St. Cloud-Metro Bus

Missouri

Columbia-CATS
Kansas City-KCATA
Springfield-CU
St. Joseph Express
St. Louis-Bi-State

Mississippi

Gulfport-Coast
Jackson-Jatran

Montana

Billings-MET
Great Falls-GFT
Missoula-Mountain Line

North Carolina

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

North Dakota

Grand Forks-City Bus

Nebraska

Lincoln- StarTRAN
Omaha-TA

New Hampshire

Manchester-MTA
Portsmouth-COAST

New Jersey

Cumberland County
New Jersey Transit
NJ Transit (Contract)
NJ-NJTC/Academy
NJ-NJTC/Hudson Transit
NJ-NJTC/Suburban
NJ/NY-Rockland
Philadelphia-PATCO

New Mexico

Albuquerque-Sun Tran
Las Cruces-RoadRUNNER
Santa Fe Trails

Nevada

Las Vegas - ATC\VanCom
Reno-Citifare

New York

Albany-CDTA
Broome County
Buffalo-NFTA
Glens Falls-GGFT
Ithaca-TOMTRAN
New York City DOT
NY-Clarkstown Mini-Trans
NY-Hart
NY-Long Beach
NY-MTA-Long Island Bus
NY-MTA-Long Island RR
NY-MTA-Metro North RR
NY-MTA-NYCTA
NY-MTA-Staten Island
NY-Rockland-Ride Sharing
NY-Westchester-Liberty
NYCDOT-Bus Tours
NYCDOT-GTJC
NYCDOT-Liberty
NYCDOT-Queens
Port Authority-PATH
Poughkeepsie-LOOP
Rochester-RTS

Syracuse-RTA-Cayuga
Syracuse-RTA-Centro
T-Tran
Utica-UTA

Ohio

Akron-Kent State
Akron-Metro
Canton-RTA Proline
Cincinnati-SORTA
Cleveland-LAKETRAN
Cleveland-RTA
Columbus-COTA
Dayton-RTA
Middletown-MTS
Springfield-SCAT
Toledo-TARTA
Youngstown-WRTA

Oklahoma

Oklahoma City-COTPA
Tulsa-MTA

Oregon

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

Pennsylvania

Allentown-Lanta
Altoona-AMTRAN
Harrisburg-Cat
Johnstown-CCTA
Lancaster-RRTA
Philadelphia-SEPTA
Pittsburgh-GG&C Bus
Pittsburgh-PAT
Reading-BARTA
Scranton-Colts
State College-Centre Line
Wilkes-Barre-(L)
Williamsport-City Bus
York-YCTA

Puerto Rico

San Juan-MBA

San Juan-Port Authority

Rhode Island

Providence-RIPTA

South Carolina

Columbia-SCE&G
Florence-PDRTA
Myrtle Beach-CRPTA
Spartanburg-SPARTA
Sumter-Santee Wateree

South Dakota

Rapid City Transit System
Sioux Falls-The Bus

Tennessee

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

Texas

Abilene-CityLink
Amarillo-ACT
Austin-Capital Metro
Austin-VPSI
Beaumont-BMT
Brazos Transit System
Brownsville-BUS
Corpus Christi-The B
Dallas - Handitran
Dallas-DART
Dallas-DART/ATE
Dallas-Grand Prairie
Dallas-Mesquite
Dallas-VPSI
El Paso-Sun Metro
Fort Worth-The T
Galveston-Island Transit
Houston-Metro
Laredo-EI Metro
Lubbock-Citibus
Port Arthur-PAT
Ryder/ATE, Inc.
San Angelo-Antran

San Antonio-VIA
Waco Transit System

Utah

Salt Lake City-UTA

Virginia

Charlottesville Transit
Danville-DTS
James City County
Lynchburg-GLTC
Newport News-Pentran
Norfolk-TRT
Petersburg Area Transit
Richmond-GRTC
Roanoke-Valley Metro

Vermont

Burlington-CT

Washington

Bellingham-WTA
Bremerton-Kitsap Transit
Longview-Community Urban
Olympia-IT
Richland-Ben Franklin
Seattle-Everett
Seattle-Metro
Seattle-Snohomish-Commun.
Seattle-Washington DOT
Spokane-STA
Tacoma-Pierce Transit
Vancouver-C-Tran
Yakima Transit

Wisconsin

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

West Virginia

Charleston-KRT
Huntington-TTA
Wheeling-OVRTA

Wyoming

Cheyenne Transit

Reporting Agencies

Purchased Transportation by State¹

Alaska

Municipality of Anchorage

Alabama

Huntsville
Mobile-MTA

Arkansas

Fayetteville-CRG

Arizona

Phoenix PTD
Phoenix-Maricopa STS
Phoenix-Mesa SunRunner
Phoenix-RPTA
Phoenix-Scottsdale

California

Bakersfield-GET
Chico Area Transit
City of Lodi
City of Los Angeles
Contra Costa-Connection
Contra Costa-WESTCAT
Fairfield
Fresno-FAX
Intellitrans
LA-Access
LA-Arcadia Transit
LA-Foothill Transit
LA-Gardena Bus Line
LA-LACMTA-Metro
LA-Long Beach Transit
LA-OCTA
LA-Torrance
Lancaster-AV Transit
Merced County Transit
Modesto-MAX
Monterey-MST
Oakland-AC Transit
Oakland-AOFS

Oakland-Vallejo Transit
Oakland-Wheel
Oxnard-SCAT
Palm Springs-SunBus
Redding-RABA
Riverside-Corona
Riverside-RTA
Roseville Transit
Sacramento-RT
Sacramento-Yolobus
San Bernardino-OMNITRANS
San Diego Transit
San Diego-NCTD
San Diego-SANDAG
San Francisco-BART
San Francisco-Muni
San Joaquin-Smart
San Jose-SCCTD
Santa Clara - Outreach
Santa Cruz-METRO
Santa Maria Area Transit
Santa Rosa-City Bus
Santa Rosa-Sonoma County
SF-CalTrain
SF-Golden Gate
SF-SamTrans
SF-Union City
Tri Delta Transit
Ventura Intercity Service
Ventura-Thousand Oaks
Victorville-VVTS
Visalia City Coach
Yuba-Sutter

Colorado

Colorado Springs Transit
Dave Transportation
Denver-RTD
Fort Collins-Transfort
Grand Junction-MesABILITY
Pueblo-CityBus

Connecticut

Greater Bridgeport TD

¹ *Italicized* agencies have reported safety and security data. Others have reported safety data only.

Hartford-Conn DOT
Hartford-Metro
Middletown-MAT
New Haven-Gr. New Haven
Norwalk-Wheels
Waterbury-GWTD

District of Columbia

Washington-WMATA

Delaware

Delaware-DTC

Florida

Brevard-SCAT
Clearwater-Pasco Shuttle
Daytona Beach-VOTRAN
Ft. Lauderdale-Bct
Ft. Lauderdale-TCRA
Ft. Myers-LeeTran
Ft. Pierce-St. Lucie COA
Jacksonville-JTA
Miami-MDTA
Okaloosa County
Orlando-LYNX
Pensacola-ECTS
Sarasota-SCTA
St. Petersburg-PSTA
Tallahassee-TALTRAN
Tampa-Hartline
West Palm-Co Tran 1
Vero Beach-Indian River

Georgia

Atlanta-CCT
Atlanta-MARTA
Savannah-CAT

Hawaii

Honolulu-DTS

Iowa

Davenport-Bettendorf
Davenport-CitiBus
Des Moines-Metro
Dubuque, IA-KeyLine
Five Seasons Trans
Iowa City Transit

Sioux City-STC
Waterloo-MET

Illinois

Champaign-Urbana-MTD
Chicago-RTA-CTA
Chicago-RTA-Metra
Chicago-RTA-Pace
Decatur-DPTS
Peoria-GP Transit
Rock Island-Metro Link
Rockford-Loves Park
Rockford-RMTD
St. Louis-MCT
Bloomington-BPT

Indiana

City of Kokomo
Elkhart-Goshen
Indianapolis-Metro
NW IN-Gary-GPTC
NW IN-Hammond

Kansas

Johnson County Transit
Wichita-MTA

Kentucky

Lexington-Fayette-LexTran
Louisville-TARC

Louisiana

Baton Rouge-CTC
Lafayette-COLT
New Orleans-RTA
Shreveport-SparTran

Massachusetts

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

1 Reported security data only.

Maryland

Baltimore-Maryland-MTA
Maryland-Ride-On

Maine

Bangor-The Bus

Michigan

Ann Arbor-AATA
Detroit-D-DOT
Detroit-SMART
Flint-MTA
Grand Rapids-GRATA
Kalamazoo-Metro
Lansing-CATA
Muskegon Area Transit
South Bend-Niles

Minnesota

Duluth-DTA
Minneapolis-St. Paul-MCTO
Moorhead-Transit
Rochester
St. Cloud-Metro Bus

Missouri

Kansas City-KCATA
Springfield - MSU

Montana

Billings-MET
Great Falls-GFT

North Carolina

Asheville-City Coach
Charlotte-CTS
Durham-DATA
Greensboro-GTA
Raleigh-CAT

North Dakota

Bis-Man Transit
Grand Forks-City Bus

Nebraska

Lincoln- StarTRAN
Omaha-TA

New Hampshire

Nashua-City Bus
Portsmouth-COAST

New Jersey

New Jersey Transit

New Mexico

Santa Fe Trails

Nevada

Reno-Citifare

New York

Albany-CDTA
Broome County
Elmira-Chemung County
Glens Falls-GGFT
Ithaca-TOMTRAN
NY-Hauppauge-Suffolk Trans
NY-MTA-Metro North RR
NY-MTA-NYCTA
NY-Putnam Area
NY-Rockland-Transport
NY-Westchester-BEE-LINE
Port Authority-PATH

Ohio

Akron-Metro
Cincinnati-SORTA
Cleveland-Brunswick
Cleveland-LAKETRAN
Cleveland-RTA
Columbus-COTA
Lorain-LCT
Mansfield-RCT
Newark
Toledo-TARTA

Oklahoma

Oklahoma City-COTPA
Tulsa-MTA

Oregon

Eugene-LTD
Medford-RVTD
Portland-Tri-Met

Pennsylvania

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

Puerto Rico

San Juan-PRHTA

Rhode Island

Providence-RIPTA

South Carolina

Augusta-Aiken County
Charleston-DASH
Columbia-SCE&G
Spartanburg-County

South Dakota

Sioux Falls-The Bus

Tennessee

Chattanooga-CARTA
Kingsport

Texas

Austin-Capital Metro 2
City of Denton
City of Longview
Corpus Christi-The B
Dallas - Handitran

Dallas-DART
Denison-Texoma
El Paso-Sun Metro
Fort Worth-The T
Galveston-Island Transit
Houston-Metro
San Antonio-VIA
Temple Transit

Utah

Logan Transit District
Salt Lake City-UTA

Virginia

Charlottesville Transit
Newport News-Pentran
Norfolk-TRT
Petersburg Area Transit
Prince William-PRTC
Richmond-GRTC
Roanoke-Valley Metro
VA-VRE

Vermont

Burlington-CT

Washington

Bellingham-WTA
Bremerton-Kitsap Transit
Longview-Community Urban
Richland-Ben Franklin
Seattle-Metro
Seattle-Monorail
Seattle-Snohomish-Commun.
Spokane-STA
Tacoma-Pierce Ferry
Tacoma-Pierce Transit
Vancouver-C-Tran
Yakima Transit

Wisconsin

Appleton-Valley Transit
Beloit-City of Beloit
Eau Claire-Chippewa Falls
Eau Claire-ECT
Green Bay-GBT
Janesville-JTS
Kenosha-KTC
LaCrosse Municipal

2 Reported security data only.

Madison-MMT
Milwaukee-Paratransit
Milwaukee-Waukesha County
Oshkosh-OTS
Racine-Belle Urban System
Sheboygan-ST
Wausau-WATS

West Virginia

Huntington-TTA

Agencies and Modes Reporting Operational, Safety, and Security Data

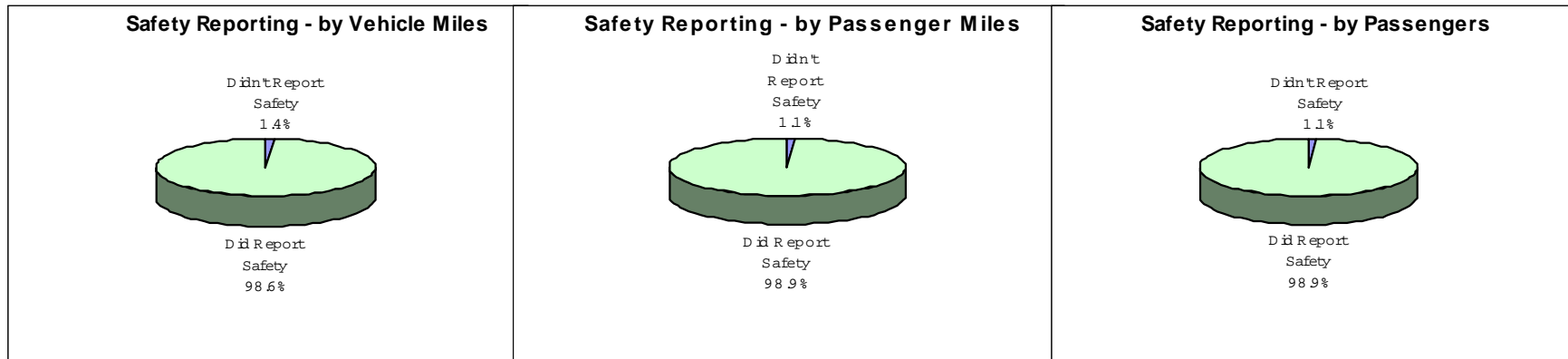
	Operational Statistics		Safety Data		No Safety Data		Security Data		No Security Data	
	Form 406		Form 405 pg. 1**		Reported*		405 pg. 2**		Reported*	
	Agencies	Modes	Agencies	Modes	Agencies	Modes	Agencies	Modes	Agencies	Modes
Directly Operated	382	610	374	600	8	10	212	336	170	274
Purchased Transportation	290	404	284	394	6	10	175	254	115	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

158

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



*includes only Directly Operated modes