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Federal Transit
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Safety Management Information Statistics (SAMIS) 1993 Annual Report

U. S. Department of Transportation Research and Special Programs Administration John A. Volpe National Transportation Systems Center Cambridge MA 02142 May 1995 Final Report



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The <u>Safety Management Information Statistics 1993 Annual Report</u> is a compilation and analysis of mass transit accident and casualty statistics reported by transit systems in the United States during 1993, reported under the Federal Transit Administration's Section 15 reporting system.

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PREFACE

The <u>Safety Management Information Statistics (SAMIS) 1993 Annual Report</u> is a compilation and analysis of mass transit accident and casualty statistics reported by FTA-funded transit systems in the United States during 1993, reported under the Federal Transit Administration's Section 15 Reporting System.

This report was prepared under the sponsorship of the Federal Transit Administration, Office of Safety. The numbers for the tables and graphs are generated by the SAMIS System Software, developed at the Volpe Center in Cambridge, Massachusetts.

The authors wish to thank Judy Meade, Acting Deputy Director for the Office of Safety; Carole Ferguson, Transit Safety Specialist at the Office of Safety; William T. Hathaway, Senior Project Engineer at Volpe Center; and David A. Knapton, Technical Task Initiator at Volpe Center for their direction, guidance, and valuable comments during the preparation of this report.

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 (k) = 0.6 mile (mi)

AREA (APPROXIMATE)

1 square inch (sq in, in²) = 6.5 square centimeters (cm²) 1 square foot (sq ft, ft²) = 0.09 square meter (m²) 1 square yard (sq yd, yd²) = 0.8 square meter (m²) 1 square mile (sq mi, mi²) = 2.6 square kilometers (km²) 1 acre = 0.4 hectare (he) = 4,000 square meters (m²)

AREA (APPROXIMATE)

1 square centimeter (cm²) = 0.16 square inch (sq in, in²) 1 square meter (m²) = 1.2 square yards (sq yd, yd²) 1 square kilometer (km²) = 0.4 square mile (sq mi, mi²) 10,000 square meters (m²) = 1 hectare (he) = 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, ft³) = 0.03 cubic meter (m³) 1 cubic yard (cu yd, yd³) = 0.76 cubic meter (m³)

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 (m³) = 36 cubic feet (cu ft, ft³) 1 cubic meter (m³) = 1.3 cubic yards (cu yd, yd³)

TEMPERATURE (EXACT)

 $[(x-32)(5/9)] ^{\circ}F = y ^{\circ}C$

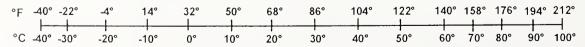
TEMPERATURE (EXACT)

 $[(9/5) y + 32] ^{\circ}C = x ^{\circ}F$

QUICK INCH - CENTIMETER LENGTH CONVERSION



QUICK FAHRENHEIT - CELSIUS TEMPERATURE CONVERSION



For more exact and or other conversion factors, see NBS Miscellaneous Publication 286, Units of Weights and Measures. Price \$2.50 SD Catalog No. C13 10286

TABLE OF CONTENTS

NARR	ATIVE	COMN	MENTS
		COLVER	

	Introduction Form 405 Glossary of Terms Transit Mode Definitions	3 5
HAI	RTS	
	Transit Safety Clock Totals of all Transit Mishaps	
T	rends	
	How Long Before a Collision, Derailment, Fire Occurs Collisions, Derailments, Fires (per time interval) Incidents Passenger Accidents Fatalities Injuries Property Damage Collisions, Derailments, Fires	17 17 18 18 19 20 21 22 23 23
Т	Collisions Personal Casualties Derailments/Left Roadway Fires Property Damage Passengers Vehicles	

TABLE OF CONTENTS (cont.)

G	ra	ıp	hs

	Vehicle Accidents	39
	Passenger Accidents	1(
	Passenger Fatalities	
	Passenger Injuries	
	Passenger Accidents and Passenger Distribution	
	Incidents, Fatalities, Injuries (by Cause)	14
	Collision Incidents, Fatalities, Injuries (by Type)	1:
	Personal Casualties Incidents, Fatalities, Injuries (by Type)	10
	Fire Incidents, Fatalities, Injuries (by Type)	1′
	Fatalities (from all causes)	18
	Injuries (from all causes)	19
	Collision Rates	
	Incidents of Collision	
	Fatalities Resulting from Collisions	
	Injuries Resulting from Collisions	
	Personal Casualties Rates	
	Incidents of Personal Casualties	
	Fatalities Resulting from Personal Casualties	
	Injuries Resulting from Personal Casualties	
	Incidents of Fires	
	Injuries Resulting from Fires	
TABL	ES	
	Collisions	5 3
	Personal Casualties	
	Fires	
	Derailment/Left Roadway	
	Operating Statistics	
	Totals	
	Totals of All Organizations in Form 405 Format	
	Transit Agencies by State	
	Transiting on the control of the con	•

NARRATIVE COMMENTS

INTRODUCTION

Now in its fourth year of publication, the Safety Management Information Statistics (SAMIS) report continues to provide uniformly-collected comprehensive safety data from approximately 400 transit agencies throughout the country. Most agencies own and operate more than one mode of transportation, thus bringing the number of transit services to approximately 600¹. Last year, for the first time, SAMIS Report presented trend analyses summarizing three years of SAMIS data. Several improvements have been made to this year's report as well.

The 1993 SAMIS Annual Report contains twice as many Trend Analysis graphs as last year. New graphs/tables include Collisions, Personal Casualties, Derailments, Fires, and Property Damage per specified period of time (day, hour, minute). There are also 18 new Trend Analysis graphs and tables by individual transit mode. There are 6 completely new graphs. Four of them are breakdown percentages (pie charts) of Collisions, Personal Casualties, and Fires (complete with each category's incidents, fatalities and injuries) by type and the remaining 2 are the stack bar graphs for Fire-related mishaps. There is a one-page "Transit Safety Clock" which shows the time intervals before an incident occurs. Finally, there is a list of transit agencies whose data are used to produce this year's report.

The safety data presented in this report are collected via Form 405 of the Federal Transit Administration's Section 15 Reporting System. To facilitate the reader's understanding of the information presented in this report, Form 405 is shown on page 3. This safety information is collected separately for each transit mode an agency operates (e.g., an agency which operates bus and light rail will submit two Form 405s).

Transit safety data are collected in four basic categories: Collisions, Derailments/Left Roadway, Personal Casualties, and Fires. Each of these categories are further delineated in order to gather detailed information on the exact nature of the incident. For each incident that occurs, any associated injuries or fatalities must be noted as well. SAMIS reports these safety statistics for the following transit modes: Motor Bus (MB), Automated Guideway (AG), Commuter Rail (CR), Heavy Rail (HR), Light Rail (LR), Demand Response DR), and Van Pool (VP).

¹Only data for <u>Directly Operated</u> Transit Modes are included here. Data for transit services which are under contract to recipients or beneficiaries of Section 9 funds, i.e. <u>Purchased</u> Transportation are not included in the calculations.

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 that for aviation and trucking. When comparing modes of transit, keep in mind their differences. 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 of the 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, consider that the reporting thresholds, assumptions, and definitions may be very different. For example, SAMIS reports property damage when the damage exceeds \$1000, while other transportation industries use thresholds that may be lower or higher.

NOTE: The 1990 and 1991 figures presented in this year's report may differ slightly from former SAMIS reports due to the use of enhanced edit checking and correction criteria incorporated in the SAMIS System software, which produces the numbers for graphs and tables. The software was applied to the 1990 and 1991 safety data so that a meaningful comparison can be made among all four years.

FORM 405

Or	Org. id FORM 405 Fiscal Year: 12/31/93 Transit Safety				
	Mode				
a		b	С	đ	
Line	Items	Incidents	Fatalities	Injuries	
	COLLISIONS				
01	Collision with other vehicles				
02	Collision with objects				
03	Collision with people				
03a	(Attempted/successful suicides)	()	()	()	
	NON-COLLISIONS				
	Derailments				
04	Derailments/buses going off road				
	Personal casualties				
05	Inside vehicle				
06	Boarding and alighting vehicle				
06a	(Associated with lifts)	()	()	()	
07	In Stations/bus stops				
07a	(Associated with escalators)	()	()	()	
	Fires (no-thresholds)				
80	In vehicles				
09	In stations				
10	Right of way & others				
	TOTALS				
12	Transit property damage	Dollar A	100000000000000000000000000000000000000		
	Date Prepared: / /	 Date Updated			



GLOSSARY OF TERMS

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 roll-overs. Reports are made for all occurrences.

Fatality

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

GLOSSARY OF TERMS (cont.)

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.

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. There are no thresholds; all injuries are reported.

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).

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 Casualty 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.

GLOSSARY OF TERMS (cont.)

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 Casualty in Stations/Bus Stops.

Suicide

A person ending 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.

TRANSIT MODE DEFINITIONS

AG - Automated Guideway

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

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.

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.

LR - Light Rail (Streetcar)

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

VP - Vanpool

Public sponsored commuter service operating under pre-arranged 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 MODE DEFINITIONS (cont.)

MB - Motor Bus

Rubber tired passenger vehicles that operate on roadways. Motor bus service implies fixed routes and schedules. The SAMIS graphs descriptions LMB (large motor bus), MMB (medium motor bus), and SMB (small motor bus) 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 LMB, if the agency operates less than 100 buses, they are called SMB, and anything in between is known as MMB). 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 [note that since the 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 a graph where the motor bus statistics would have considerably dwarfed the other transit modes].

The data for TR (Trolleybus) mode is combined with the Motor bus data.

There are other Transit modes, which are omitted from this report. They are CC (Cable Car), FB (Ferryboat), IP (Inclined Plane), JT (Jitney), MO (Monorail), PB (Publico), TR (Aerial Tramway), and OR (Other).

The statistics for the aforementioned transit modes are not shown because they are not yet "significant" and will clutter the graphs (for example, the total figures for these transit modes are as follows: 411 Incidents, 1 Fatality, 383 Injuries and \$191,174 in Property Damage).

CHARTS

Transit Safety Clock

1993

One Collision*

One Incident*

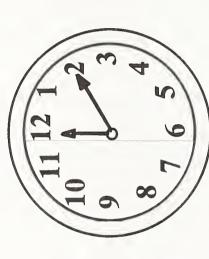
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with care. The mode of display should not be taken to imply a regularity in the occurrence of incidents, rather, it represents the annual The Transit Safety Clock should be viewed ratio of incidents to fixed time intervals.

* Collisions, Personal Casualties, Fires,

8 Minutes

and Derailments/Left Roadway



One Fatality*

every

One Derailment*

(not including suicide attempts) * with Vehicles, Objects, People

17 Minutes

every

40 Hours every

* Derailments/Left Roadway

One Injury*

* from Collisions, Personal Casualties, Fires, and Derailments/Left Roadway

31 Hours

every

10 Minutes

* from Collisions, Personal Casualties, Fires, and Derailments/Left Roadway

Property Damage every Hour \$5128 in

One Fire*

every

99 Minutes

* in Vehicle, Stations, Rights-Of-Way/Road

Totals of all Transit Mishaps by Year

	1990	1991	1992	1993
Incidents*	90,163	83,139	73,831	64,986
Fatalities	339	300	273	281
Injuries	54,556	52,125	55,089	52,668
Collisions**	57,726	46,238	36,202	30,338
Suicides (attempts)	126	74	98	98
Personal Casualties	25,212	30,352	31,352	29,036
Derailment/Left Road	276	229	178	221
Fires	6,823	6,246	6,001	5,296
Property Damage (\$)	37,972,669	37,476,192	37,454,950	44,924,732

* This is the total incidents of Collisions,

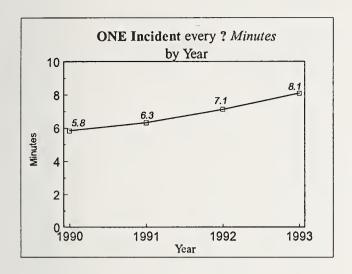
Personal Casualties, Derailments, and Fires

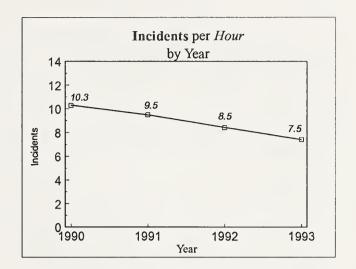
** Not including suicide attempts

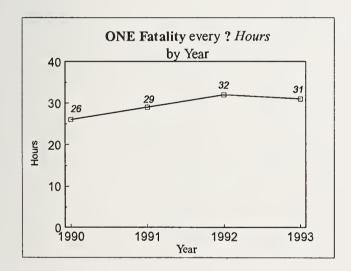
A look at SAMIS data from 1990 through 1993 (All Modes Combined)

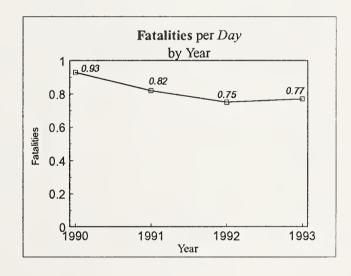
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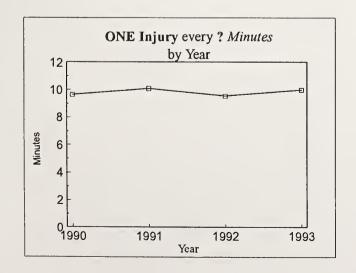


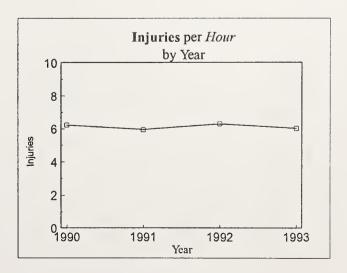


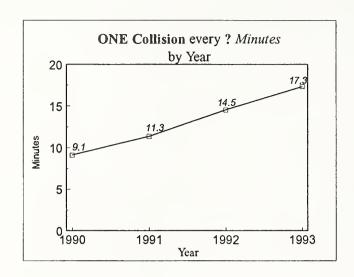


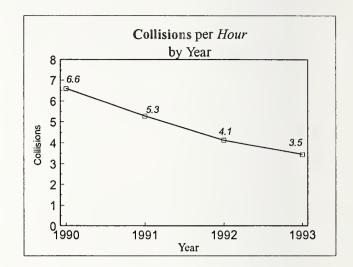


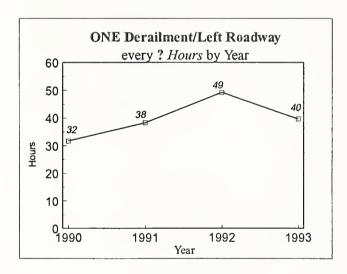


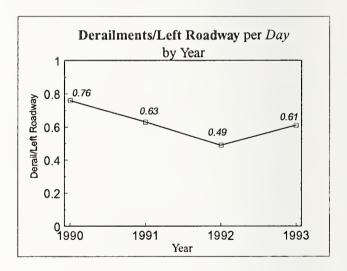


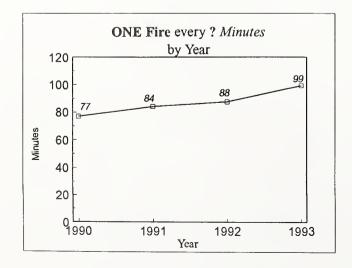


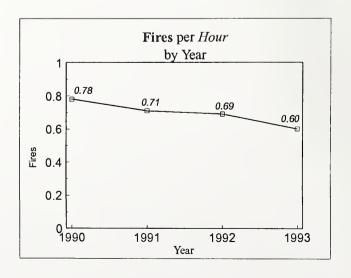


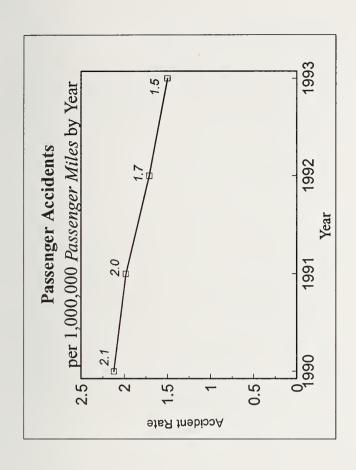


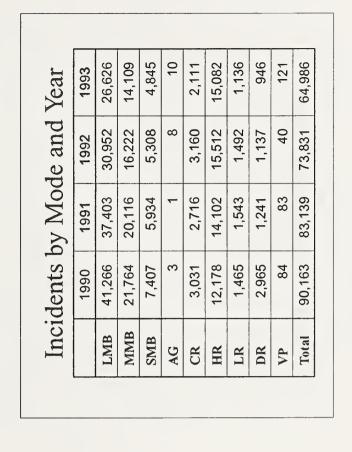


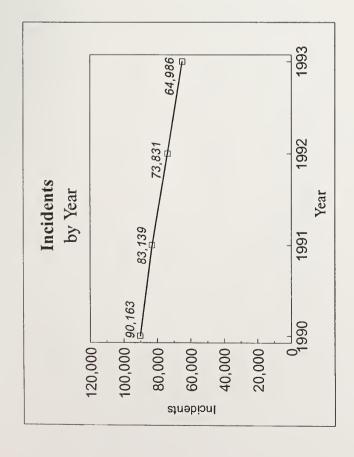


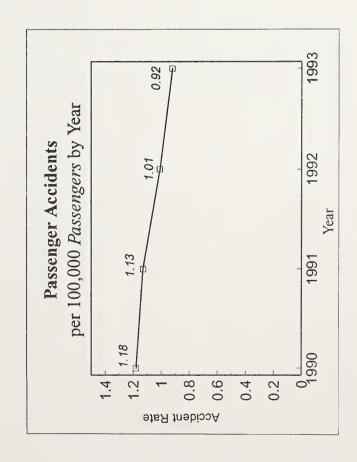


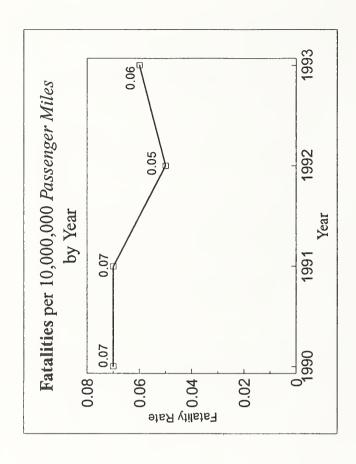


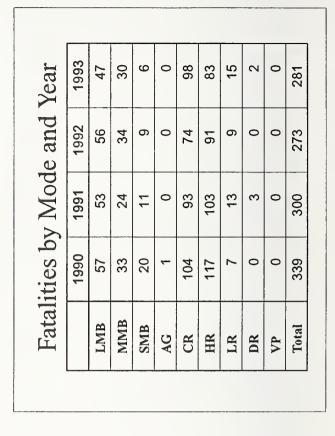


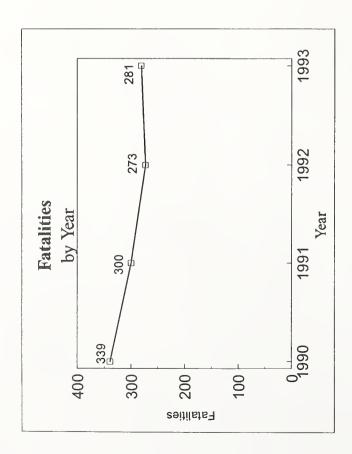


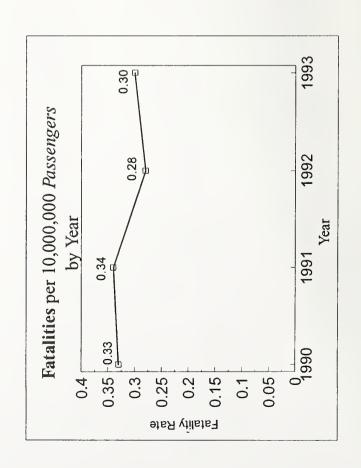


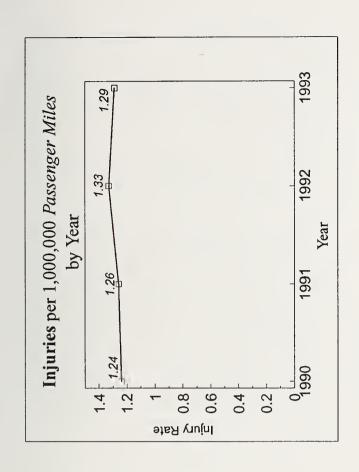


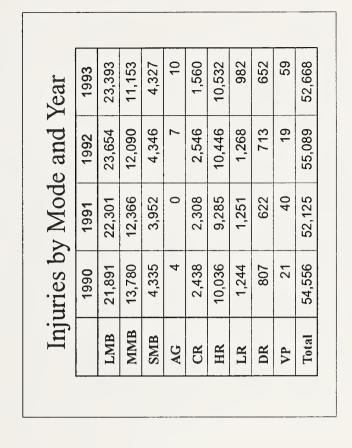


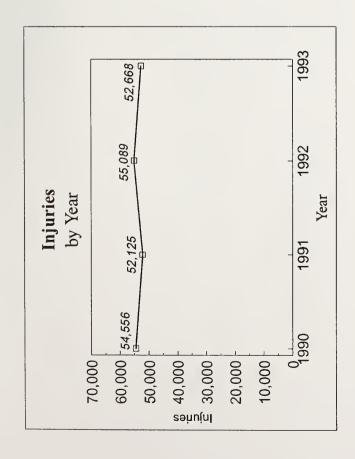


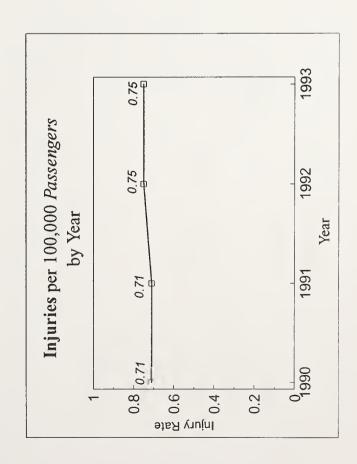


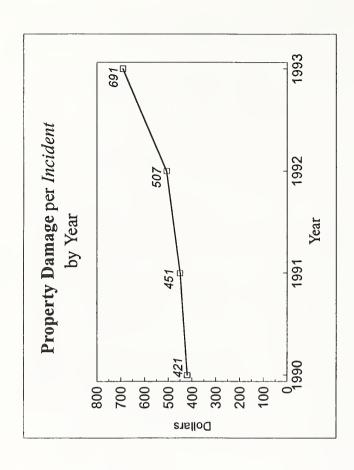


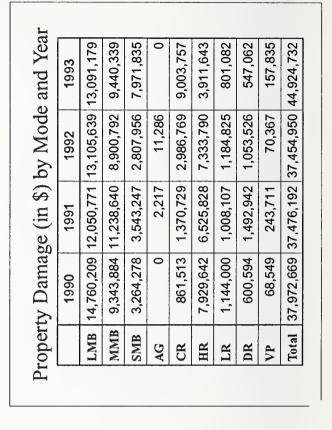


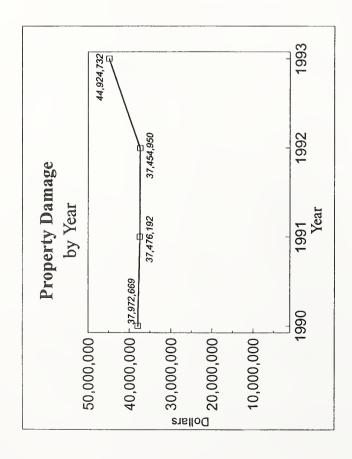


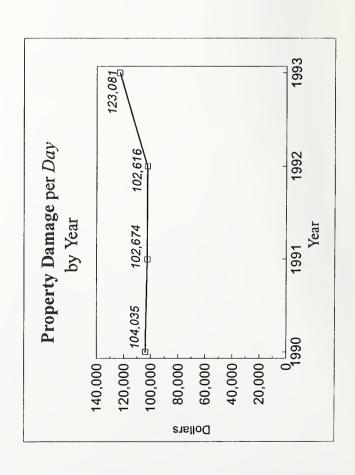


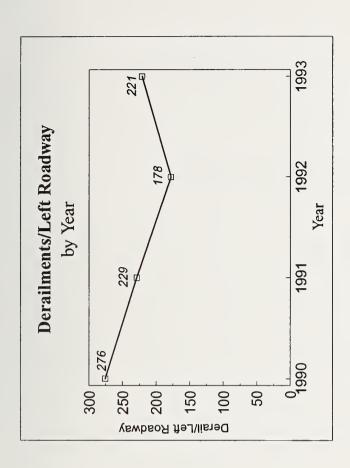


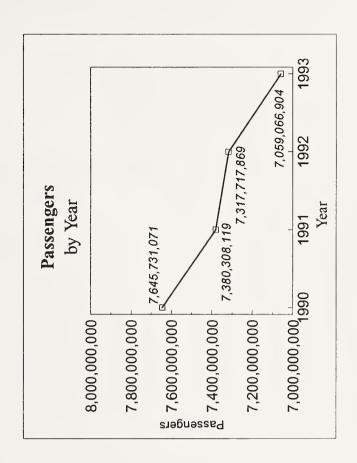


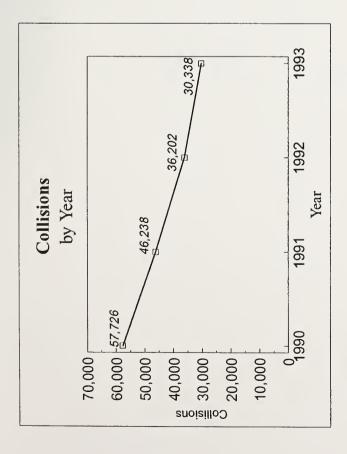


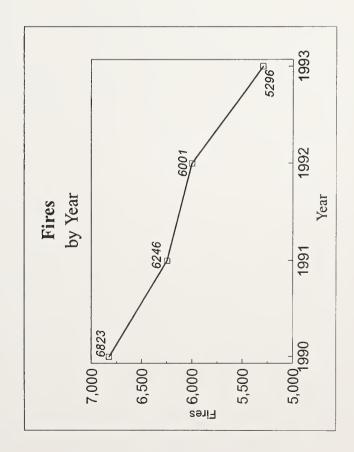












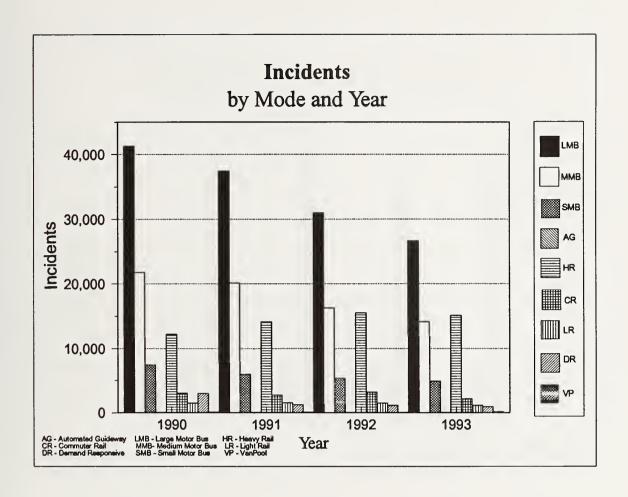
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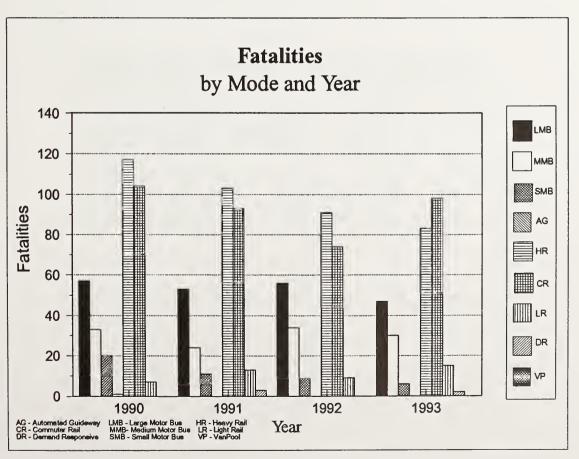
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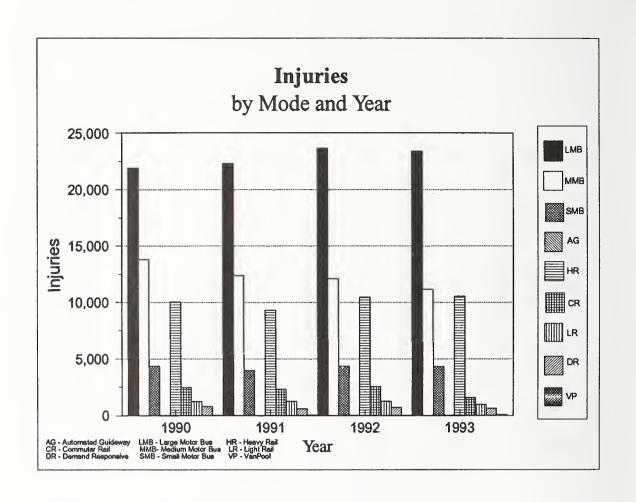
A look at SAMIS data from 1990 through 1993 (Individual Transit Modes)

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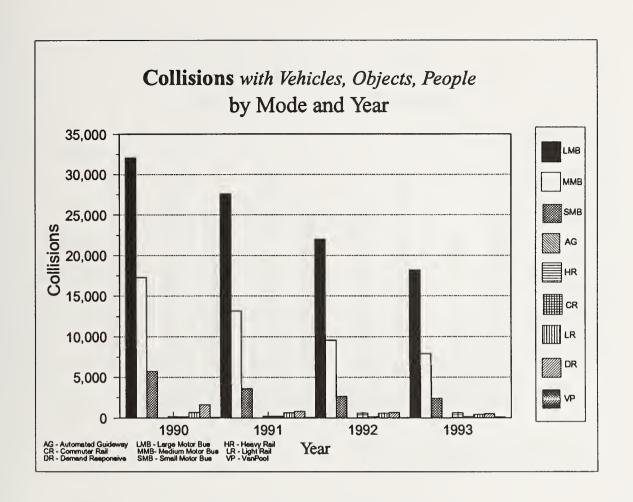






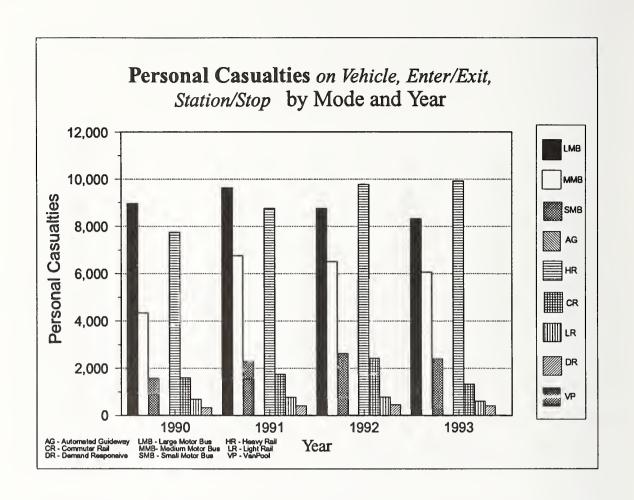
Totals of all Modes by Year

	1990	1991	1992	1993
Incidents	90,163	83,139	73,831	64,986
Fatalities	339	300	273	281
Injuries	54,556	52,125	55,089	52,668



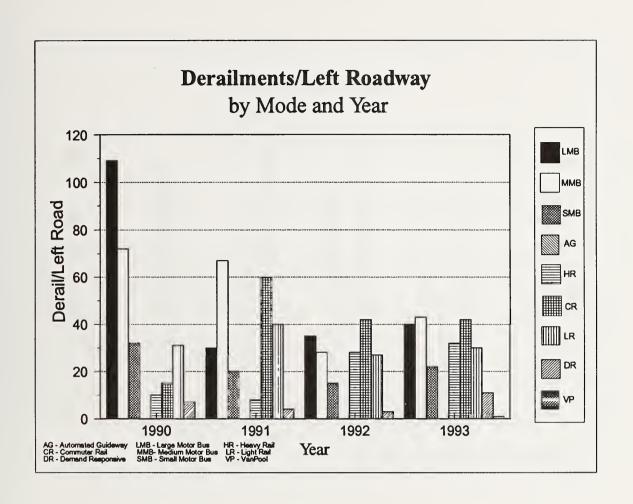
Collisions by Mode and Year

	1990	1991	1992	1993
LMB	32,057	27,608	21,994	18,177
MMB	17,282	13,159	9,576	7,904
SMB	5,737	3,583	2,634	2,410
AG	1	0	1	1
CR	160	188	139	166
HR	134	180	585	630
LR	668	631	573	419
DR	1,606	810	665	513
VP	81	79	35	118
Total	57,726	46,238	36,202	30,338



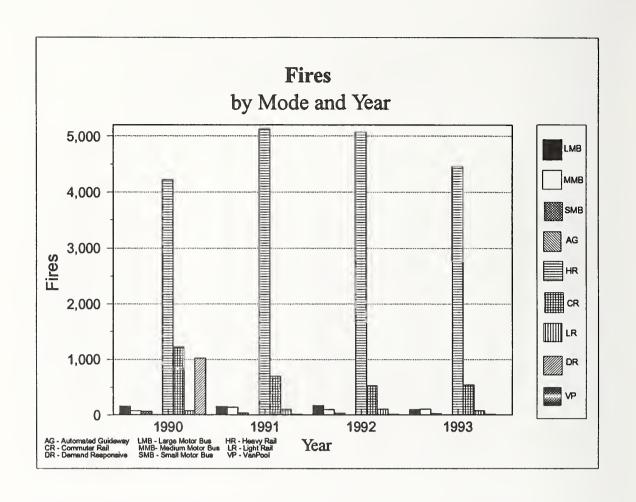
Personal Casualties by Mode and Year

	1990	1991	1992	1993
LMB	8,949	9,618	8,753	8,309
MMB	4,335	6,753	6,514	6,062
SMB	1,569	2,294	2,628	2,394
AG	2	0	7	9
CR	1,592	1,751	2,429	1,326
HR	7,740	8,743	9,766	9,916
LR	692	774	789	607
DR	330	415	461	412
VP	3	4	5	1
Total	25,212	30,352	31,352	29,036



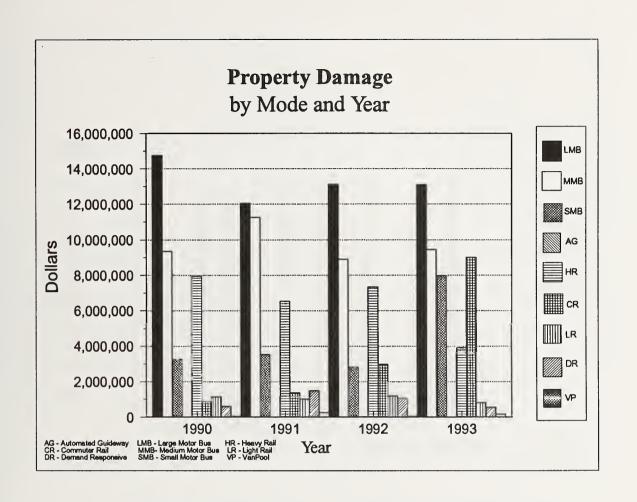
Derailments/Left Roadway by Mode and Year

	1990	1991	1992	1993
LMB	109	30	35	40
MMB	72	67	28	43
SMB	32	20	15	22
AG	0	0	0	0
CR	15	60	42	42
HR	10	8	28	32
LR	31	40	27	30
DR	7	4	3	11
VP	0	0	0	1
Total	276	229	178	221



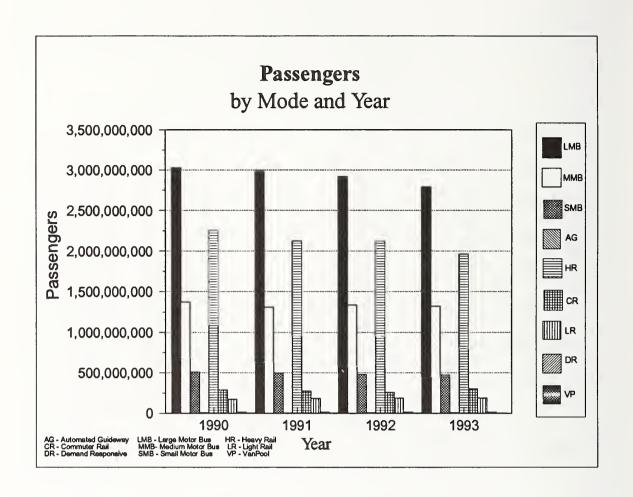
Fires by Mode and Year

	1990	1991	1992	1993
LMB	151	146	168	99
MMB	73	136	98	100
SMB	62	36	31	19
AG	0	1	0	0
CR	1,226	695	527	540
HR	4,217	5,124	5,068	4,452
LR	72	96	101	75
DR	1,022	12	8	10
VP	0	0	0	1
Total	6,823	6,246	6,001	5,296



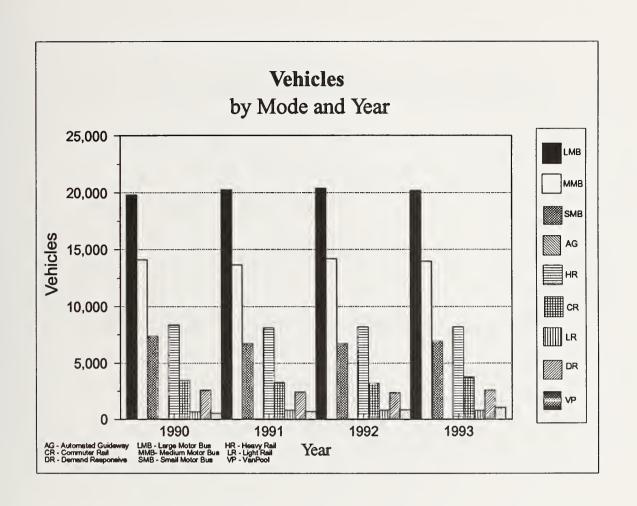
Totals of all Transit Mishaps by Year

	1990	1991	1992	1993
Collisions	57,726	46,238	36,202	30,338
Personal Casualties	25,212	30,352	31,352	29,036
Derailment/Left Road	276	229	178	221
Fires	6,823	6,246	6,001	5,296
Property Damage (\$)	37,972,669	37,476,192	37,454,950	44,924,732



Passengers by Mode and Year

	1990	1991	1992	1993
LMB	3,029,861,563	2,978,584,127	2,915,883,332	2,792,806,711
ММВ	1,371,209,547	1,309,022,201	1,334,447,953	1,318,147,322
SMB	510,598,687	492,859,837	477,450,141	473,672,717
AG	5,882,047	3,534,327	5,499,402	5,163,965
CR	285,861,662	273,938,924	261,870,040	302,598,857
HR	2,252,462,303	2,123,182,878	2,118,769,679	1,960,305,314
LR	174,000,077	183,563,959	187,321,032	187,336,419
DR	13,829,398	13,296,991	13,221,090	14,814,835
VP	2,025,787	2,324,875	3,255,200	4,220,764
Total	7,645,731,071	7,380,308,119	7,317,717,869	7,059,066,904



Vehicles by Mode and Year

	1990	1991	1992	1993
LMB	19,808	20,230	20,383	20,184
MMB	14,091	13,634	14,178	13,971
SMB	7,358	6,723	6,712	6,904
AG	15	11	21	18
CR	3,444	3,266	3,182	3,755
HR	8,347	8,106	8,180	8,187
LR	661	808	769	769
DR	2,588	2,424	2,374	2,588
VP	520	697	846	1,029
Total	56,832	55,899	56,645	57,405

Number of Reporting Agencies by Year

	1990	1991	1992	1993
Transit Agencies	410	384	383	396

Agencies which have not provided both Safety and Operational data for a transit mode (either one is missing) are not included in the calculations

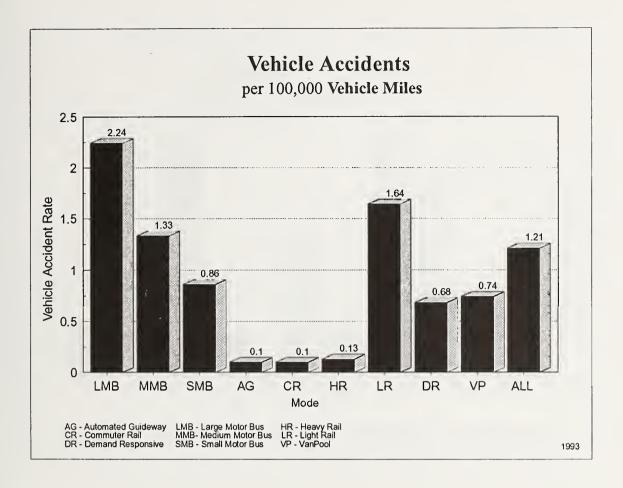
Number of Reporting Agencies which Operate each of the Transit Modes by Mode and Year

	1990	1991	1992	1993
LMB	19	20	20	20
MMB	68	65	67	66
SMB	265	247	249	255
AG	3	2	3	3
CR	9	8	7	9
HR	12	12	13	14
LR	13	14	15	16
DR	166	160	170	173
VP	16	13	18	18
Total	571	541	562	574

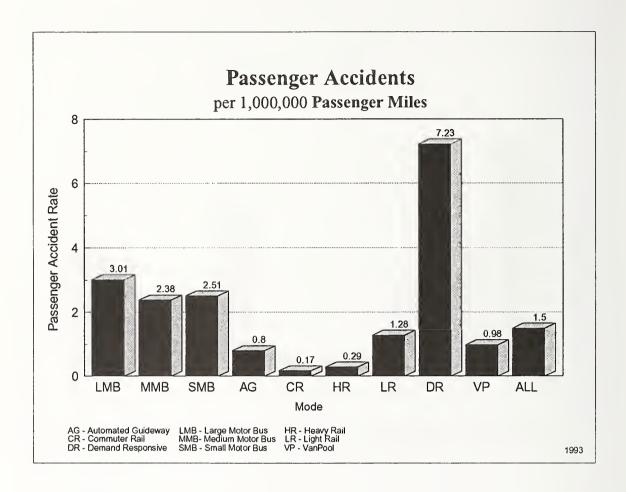
Column totals are the number of transit services not the number of transit agencies, because most agencies operate more than one transit mode

The 1993 SAMIS data presented as

GRAPHS

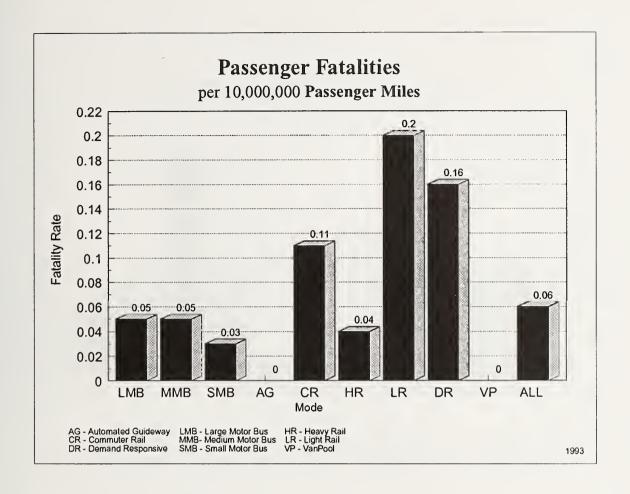


This graph shows the accident rate which is based on the number of <u>vehicle</u> accidents (incidents). These include all vehicle incidents resulting from **Collisions** [with vehicles, objects, people (not suicides)] and **Derailments** (vehicle derailed/left roadway). The number of vehicle miles includes 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.

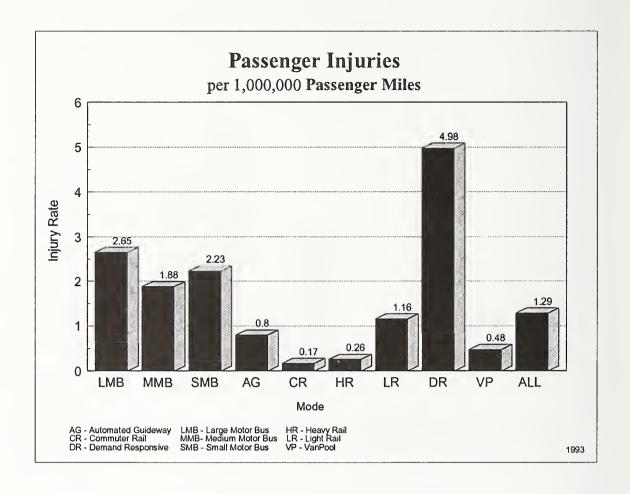


This graph shows the number of accidents (or incidents) *involving passengers* based upon the number of miles traveled by passengers. Passenger *incidents* include **Collisions** [with vehicles, objects, and people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on 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 passenger incident rate.

This graph differs from the previous page in that it includes **Personal Casualties** and is indexed on Passenger Miles.

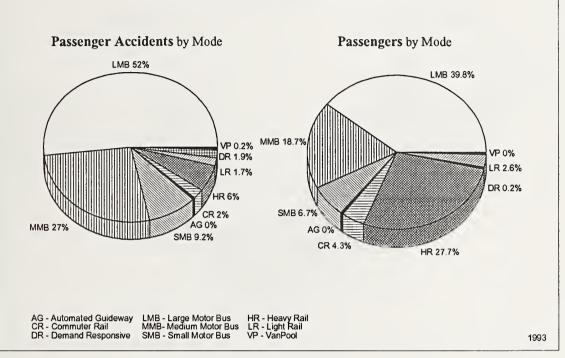


These statistics represent <u>passenger-on-vehicle</u> fatalities. They are *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on the vehicle and entering/exiting the vehicle).



These statistics represent <u>passenger-on-vehicle</u> injuries. They are *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (on the vehicle and entering/exiting the vehicle). This chart may be compared with Number of Passenger Accidents and Number of Passenger Fatalities (two previous graphs) to get a feel for the probability of dying or being injured in an accident.

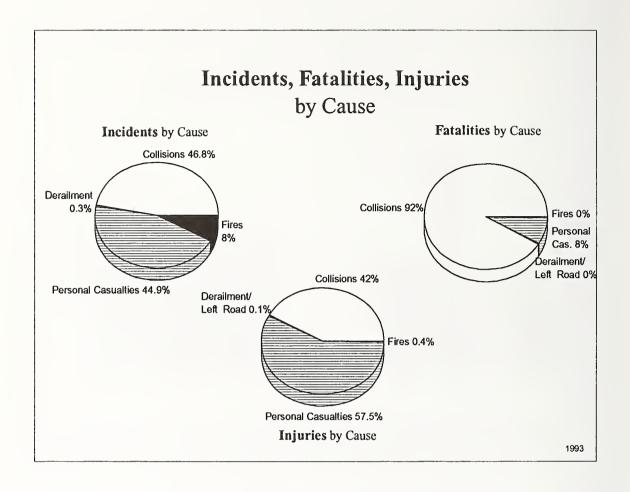
Passenger Accidents and Passenger Distribution by Transit Mode



The pie chart on the left shows the percentage of passenger accidents (or incidents) reported by each mode. The Passenger Accidents include Collisions, Derailments, and Personal Casualties categories. When compared, these pie charts give another view of accident rates, e.g. with about 30% of transit passengers Heavy Rail has only 5% of the total accidents. If all transit modes were equally safe, the numbers for a given transit mode would be the same in both pie charts.

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

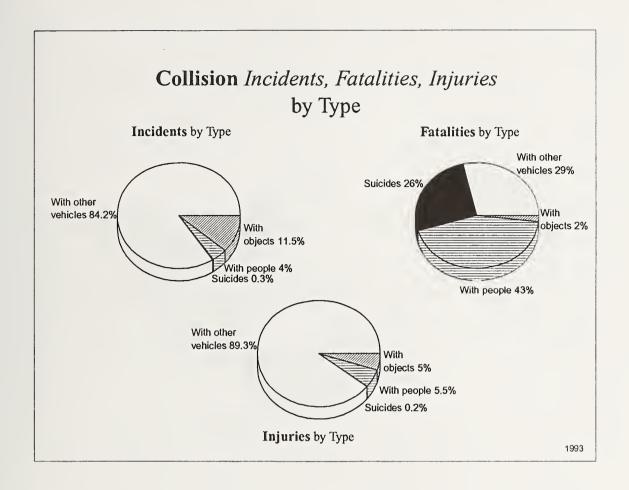
In both charts, the percentages given as 0% are rounded and actually mean less than 0.1%.



The pie chart on the left shows the percentage of individual incidents from all causes (Collisions, Derailments, Personal Casualties, and Fires).

The pie chart on the right shows the percentage of the Fatalities and the pie chart in the middle shows the Injuries from all causes (Collisions, Derailments, Personal Casualties, and Fires).

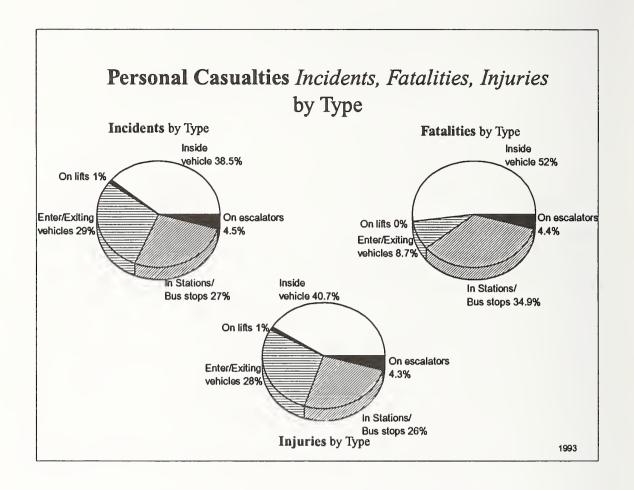
The Fatalities chart shows that Collisions are the single most contributing cause of fatalities.



The *pie chart on the left* shows the percentage of various types of *incidents* resulting from **Collisions** (with other vehicles, objects, people and suicides).

The *pie chart on the right* shows the percentage of *Fatalities*, and the *pie chart in the middle* shows the percentage of *Injuries* from various types of **Collisions** (with other vehicles, objects, people and suicides).

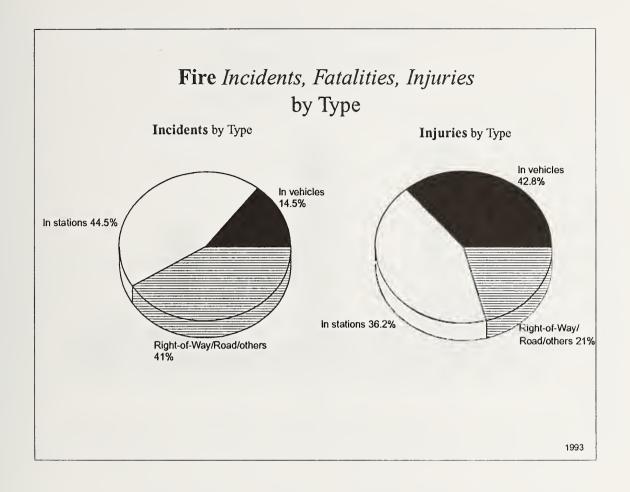
Comparing the three charts gives more insight into the causes of incidents, injuries, and deaths from **Collisions** (e.g., although suicides constitute negligible amount of Collision Incidents, they account for one quarter of all fatalities from Collisions). On the Injuries chart, 0.2% injuries resulting from attempted suicides shows that nearly all the suicide attempts are successful (result in death).



The pie chart on the left shows the percentage of various types of **Personal Casualty** incidents [inside vehicles, entering/exiting (associated with lifts), in stations/bus stops (associated with escalators)].

The pie chart on the right shows the percentage of Fatalities, and the pie chart in the middle shows the percentage of Injuries from these incidents.

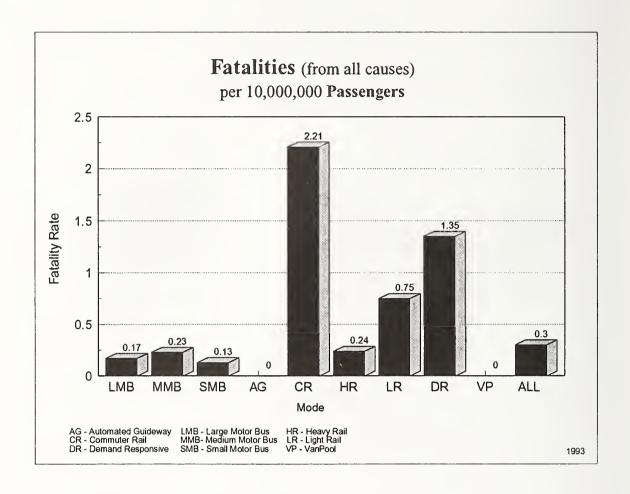
Comparing the three charts gives more insight into the causes of incidents, injuries, and deaths from **Personal Casualties** categories (e.g., the almost identical incident and injury percentages, suggest that each incident of Personal Casualty results in an injury; consistent with the definition of Personal Casualties).



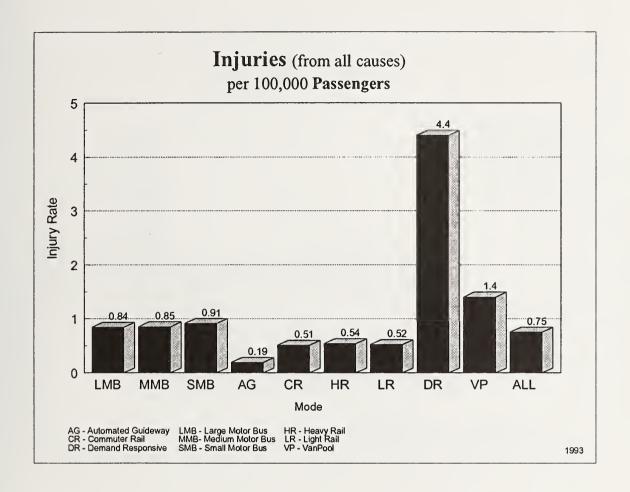
The *pie chart on the left* shows the percentage of various types of **Fire** *incidents* (in vehicles, in stations, and on right-of-way/other).

While there were no Fatalities from Fires, the pie chart on the right shows the percentage of Injuries from these incidents of Fires.

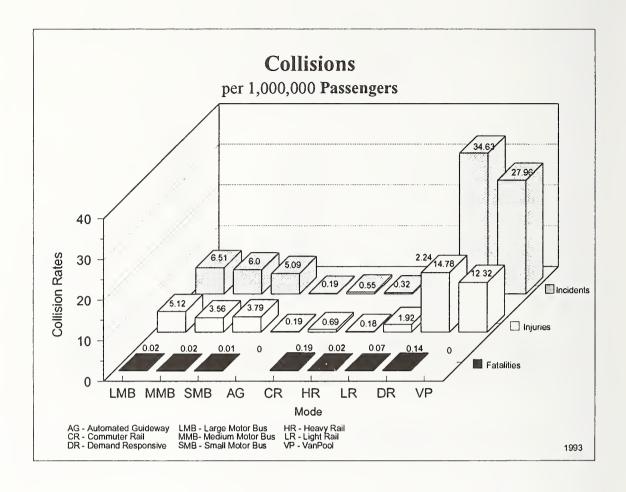
Comparing the two charts gives more insight into the types of Fires and the causes of injuries from them (e.g. a fire inside the vehicle results in more patron injuries than a fire on the road).



This graph depicts the passenger fatality rate, from all causes (except suicides), i.e., Collisions, Derailments, Personal Casualties, and Fires Categories.

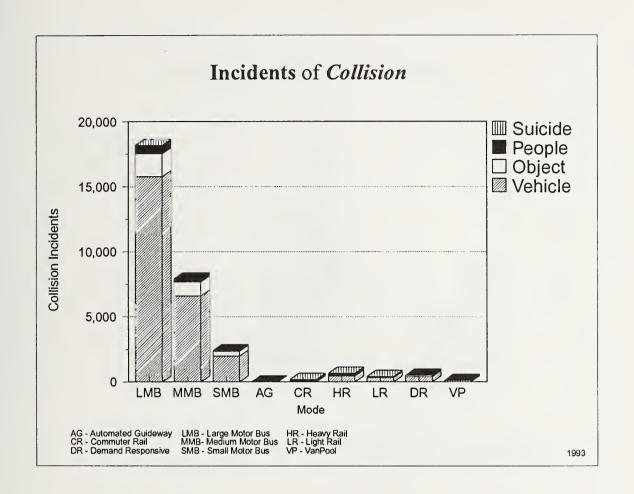


This graph depicts the passenger *injury* rate, from <u>all causes</u> (except suicides), i.e., **Collisions**, **Derailments**, **Personal Casualties**, and **Fires** Categories.

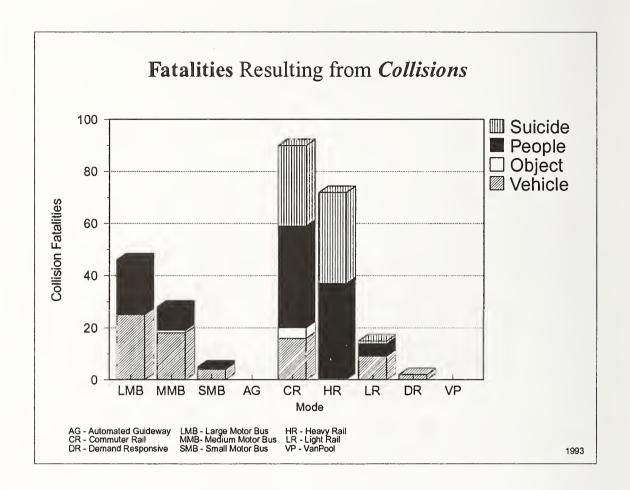


This graph shows the rates of *incidents*, *injuries*, and *fatalities* (except suicides) for the **Collisions** category of Form 405.

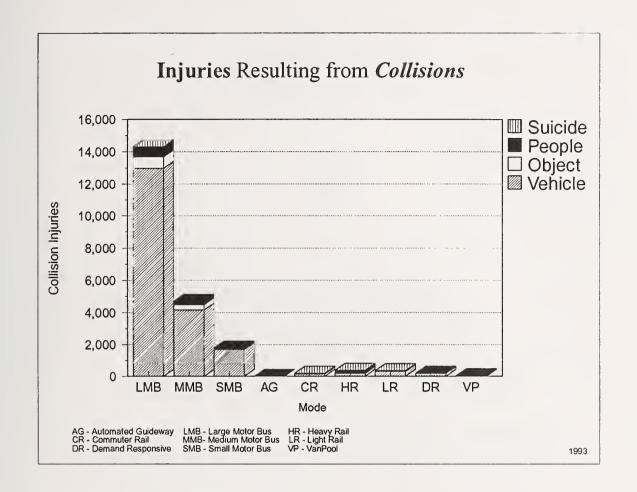
The rates show how often incidents, deaths, and injuries occur, based on passenger exposure to risk. These rates should be kept in mind when looking at the next three figures which give only raw numbers. The raw numbers alone do not give a full idea about relative safety without data on exposure which is provided here.



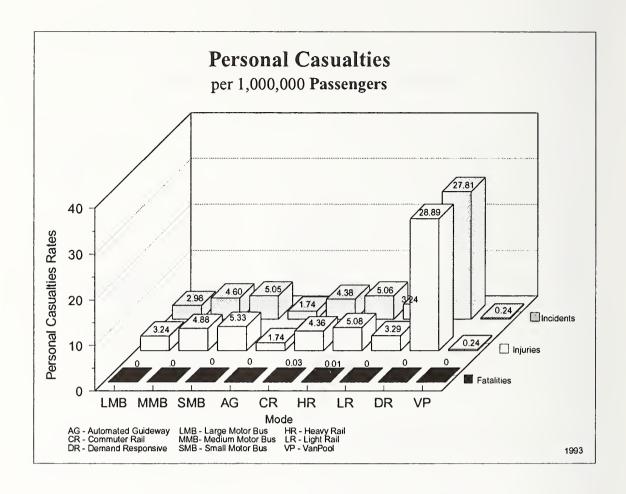
This graph breaks down by type the *incidents* resulting from **Collisions** (with vehicles, objects, and people).



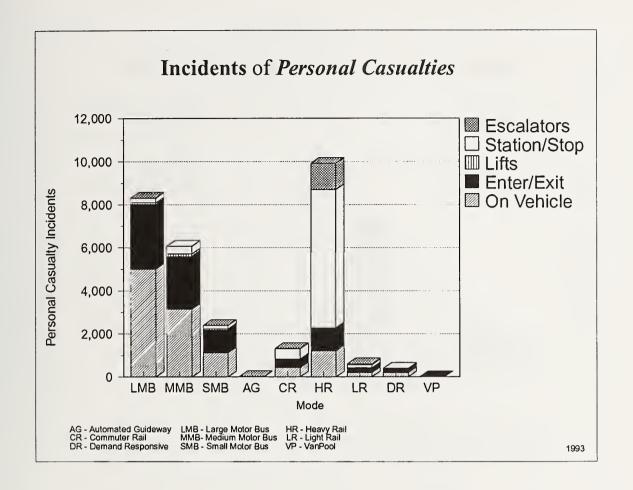
This graph breaks down by type the *fatalities* resulting from **Collisions** (with vehicles, objects, and people).



This graph breaks down by type the *injuries* resulting from **Collisions** (with vehicles, objects, and people).

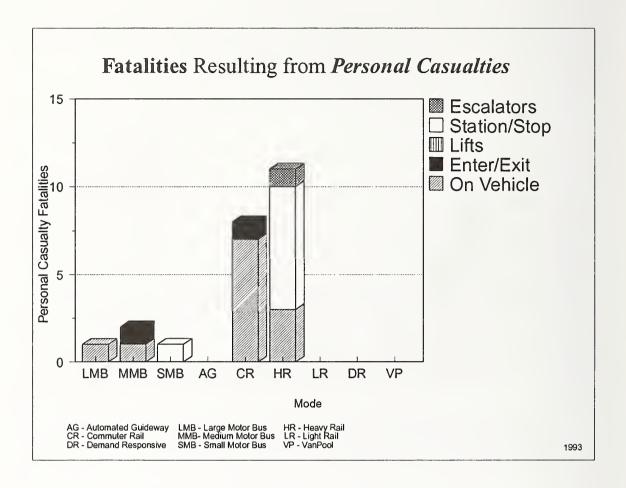


This graph provides the rates by transit mode for *incidents, fatalities*, and *injuries* classified under the **Personal Casualties** category of Form 405. Keep in mind that **Personal Casualties** is a transit mishap *category* (in Form 405) where people are hurt but <u>not</u> as a result of Collisions,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



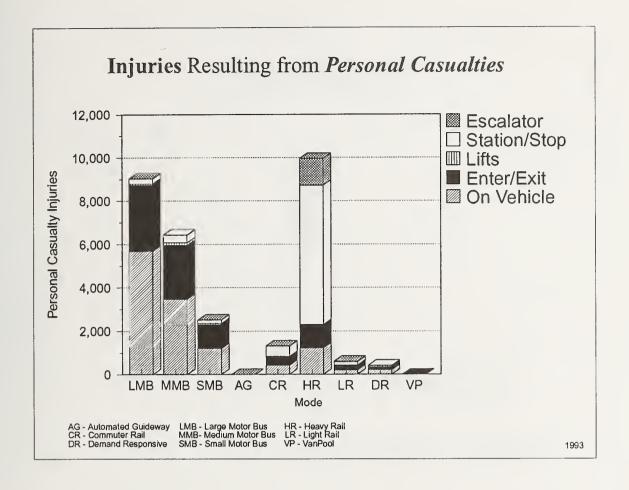
This graph breaks down by type the *incidents* that are classified under the **Personal Casualties** category of Form 405 (on vehicle, entering/exiting, lifts, station/stop, escalators).

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



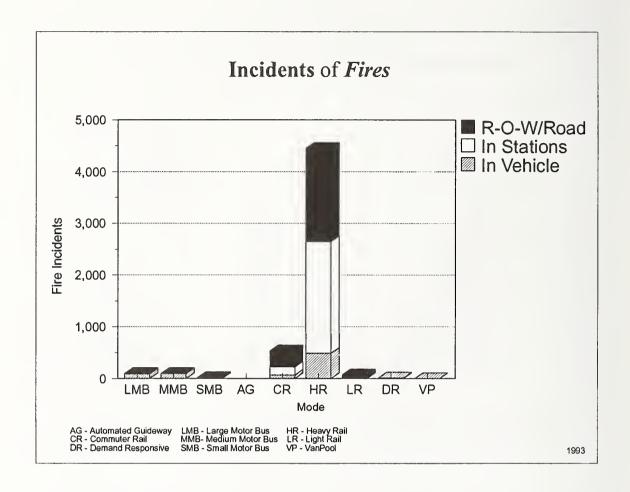
This graph breaks down by type the *fatalities* that are classified under the **Personal Casualties** category of Form 405 (on vehicle, entering/exiting, lifts, station/stop, escalators).

Although at first the title of the graph may seem awkward, keep in mind that **Personal Casualties** is a transit mishap *category* (in Form 405) where people are hurt but <u>not</u> as a result of Collisions, Derailments, or Fires.

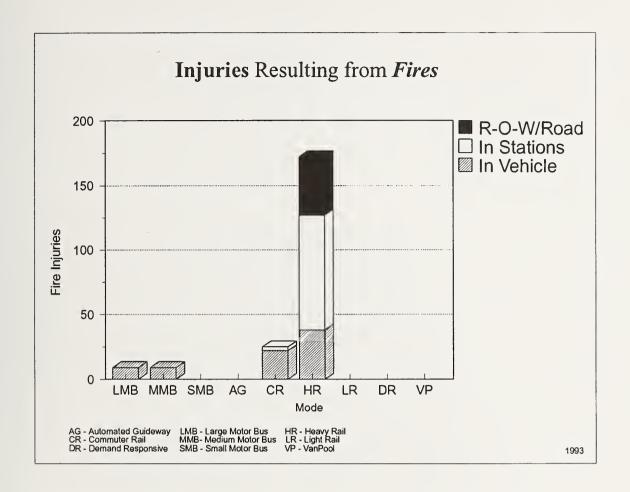


This graph breaks down by type the *injuries* that are classified under the **Personal Casualties** category of Form 405 (on vehicle, entering/exiting, lifts, station/stop, escalators).

Although at first the title of the graph may seem awkward, keep in mind that **Personal Casualties** is a transit mishap *category* (in Form 405) where people are hurt but <u>not</u> as a result of Collisions, Derailments, or Fires.



This graph breaks down by type the *incidents* of **Fires** (in vehicles, in stations, and on Right-of-Way/Road and others). While there were relatively few incidents of Fires, this graph clearly shows that the vast majority of them occurred in Heavy Rail (mode) Stations and Right-of-Way.



There is no graph of fatalities from Fires because there were no fatalities resulting from Fires.

The above graph breaks down by type the *injuries* resulting from **Fires** (in vehicles, in stations, and on Right-of-Way/Road and others).

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1993 SAMIS data in

TABLES

COLLISIONS

by Mode

INCIDENTS

Mode	Vehicle	Object	People*	Suicide
LMB	15,759	1,753	666	1
MMB	6,580	1,079	245	0
SMB	1,973	368	69	0
AG	. 0	0	1	0
CR	56	35	112	37
HR	443	77	162	52
LR	331	35	58	5
DR	391	111	11	0
VP	105	12	1	0
ALL	25,638	3,470	1,325	95

FATALITIES

Mode	Vehicle	0bject	People*	Suicide
LMB	25	0	21	0
MMB	18	1	9	0
SMB	4	0	1	0
AG	0	0	0	0
CR	16	4	70	31
HR	0	0	72	35
LR	9	0	6	1
DR	2	0	0	0
VP	0	0	0	0
ALL	74	5	179	67

INJURIES

Mode	Vehicle	Object	People*	Suicide
LMB	12,973	703	636	1
MMB	4,151	316	228	0
SMB	1,679	53	63	0
AG	0	0	1	0
CR	148	12	55	5
HR	192	13	189	32
LR	305	7	51	4
DR	189	19	11	0
VP	50	1	1	0
ALL	19,687	1,124	1,235	42

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

^{*} People figures include Suicides.

PERSONAL CASUALTIES

by Mode

INCIDENTS

Mode	On Vehicle	Enter/Exit*	Lifts	Station/Stop**	Escalators
LMB	4,998	3,082	69	229	5
MMB	3,136	2,570	108	356	0
SMB	1,112	1,115	57	167	3
AG	4	0	0	5	2
CR	427	411	0	488	21
HR	1,205	1,075	0	7,636	1,221
LR	185	247	6	175	33
DR	196	192	47	24	0
VP	0	1	0	0	0
ALL	11,263	8,693	287	9,080	1,285

FATALITIES

Mode	On Vehicle	Enter/Exit*	Lifts	Station/Stop**	Escalators
LMB	1	0	0	0	0
MMB	1	1	0	0	0
SMB	0	0	0	1	0
AG	0	0	0	0	0
CR	7	1	0	0	0
HR	3	0	0	8	1
LR	0	0	0	0	0
DR	0	0	0	0	0
VP	0	0	0	0	0
ALL	12	2	0	9	1

INJURIES

Mode	On Vehicle	Enter/Exit*	Lifts	Station/Stop**	Escalators
LMB	5,670	3,130	71	238	5
MMB	3,459	2,611	116	357	0
SMB	1,208	1,145	57	174	3
AG	4	0	0	5	2
CR	421	411	0	488	21
HR	1,211	1,078	0	7,674	1,239
LR	193	247	6	177	33
DR	204	200	52	24	0
VP	0	1	0	0	0
ALL	12,370	8,823	302	9,137	1,303

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

^{*} Enter/Exit figures include the Lift figures.

^{**} Station/Stop figures include the Escalator figures.

FIRES by Mode

INCIDENTS

Mode	Vehicle	Station	R-O-W/Road
LMB	89	3	7
MMB	90	6	4
SMB	14	4	1
AG	0	0	0
CR	66	157	317
HR	487	2,159	1,806
LR	11	19	45
DR	10	0	0
VP	1	0	0
ALL	768	2,348	2,180

FATALITIES

Mode	Vehicle	Station	R-O-W/Road
LMB	0	0	0
MMB	0	0	0
SMB	0	0	0
AG	0	0	0
CR	0	0	0
HR	0	0	0
LR	0	0	0
DR	0	0	0
VP	0	0	0
ALL	0	0	0

INJURIES

Mod	e Vehicle	Station	R-O-W/Road
LM	В 9	0	0
MM	B 9	0	0
SM	В 0	0	0
AG	0	0	0
CR	22	3	0
HR	38	89	45
LR	0	0	0
DR	0	0	0
VP	0	0	0
AL	L 78	92	45

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

DERAILMENT OR LEFT ROADWAY

by Mode

Mode	Incidents	Fatalities	Injuries
LMB	40	0	34
MMB	43	0	22
SMB	22	0	5
AG	0	0	0
CR	42	0	0
HR	32	0	3
LR	30	0	2
DR	11	0	5
VP	1	0	6
ALL	221	0	77

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

OPERATING STATISTICS

Mode	Vehicle Miles	Passengers	Passenger Miles	Property Damage
LMB	812,012,373	2,792,806,711	8,735,111,887	\$13,091,179.00
MMB	595,797,608	1,318,147,322	5,747,356,634	\$9,440,339.09
SMB	282,306,693	473,672,717	1,859,062,717	\$7,971,834.93
AG	957,742	5,163,965	6,276,663	\$0.00
CR	206,398,036	302,598,857	6,210,811,478	\$9,003,757.00
HR	517,685,338	1,960,305,314	10,129,682,552	\$3,911,643.00
LR	27,395,870	187,336,419	688,961,513	\$801,082.21
DR	76,793,858	14,814,835	126, 183, 364	\$547,062.09
VP	15,988,994	4,220,764	122,923,428	\$157,835.00
ALL	2,535,336,512	7,059,066,904	33,626,370,236	\$44,924,732.32

TOTAL* OF INCIDENTS, FATALITIES, INJURIES & PROPERTY DAMAGE

Mode	Incidents	Fatalities	Injuries	Property Damage
LMB	26,626	47	23,393	\$13,091,179.00
MMB	14,109	30	11,153	\$9,440,339.09
SMB	4,845	6	4,327	\$7,971,834.93
AG	10	0	10	\$0.00
CR	2,111	98	1,560	\$9,003,757.00
HR	15,082	83	10,532	\$3,911,643.00
LR	1,136	15	982	\$801,082.21
DR	946	2	652	\$547,062.09
VP	121	0	59	\$157,835.00
ALL	64,986	281	52,668	\$44,924,732.32
				. Personal Casualties & Fire

TOTALS OF ALL ORGANIZATIONS IN FORM 405 FORMAT

TODY 405 Pines 1 Vacuu 10 (21 (02											
Org. id ALL FORM 409											
	Mode ALL Totals of All Organizations										
a		b		С		d					
Line	Thomas			Incidents		Fatalities		Injuries			
PINE	Items										
	COLLISIONS			25, 620							
01	Collision with other vehicles			25,638		74		19,687			
02	Collision with objects			3,470		5		1,124			
03	Collision with people			1,325			179		1,235		
03a	((Attempt	ted/successful suicides)	(95)	(67)	(42)
		иои	N-COLLISIONS								
	Derail	lments									
04	Der	railment	ts/buses going off road	221			0	-		77	
	Person	nal casu	ualties								
05	Ins	side veh	nicle	11,263			12		1	.2,370	
06	Воа	arding a	and alighting vehicle	8,693			2			8,823	
06a		(Asso	ociated with lifts)	(287)	(0)	(302)
07	In	Station	ns/bus stops	9,080			9			9,137	
07a		(Asso	ociated with escalators)	(1,285)	(1)	(1,303)
	Fires	(no-thi	resholds)								
08	In	vehicle	es	768			0			78	
09	In	station	าร	2,348		0		92			
10	Rig	ght of v	way & others	2,180		0		45			
11		Т	TALS	64,986			281		5	2,668	
			Dollar Amount								
12	Transit property damage			\$44,924,732.32							
Date Prepared: 03/22/95 Date Updated:											

Transit Agencies by State*

Alabama	Birmingham-Max Gadsden-Dial-A-Ride Huntsville Mobile-MTA	California	Santa Rosa-City Bus Simi Valley Transit Stockton-SMART
	Montgomery-Autauga Montgomery-Community Montgomery-MAT NW Alabama COLG Tuscaloosa-CP&TA	Colorado	Colorado Springs Transit Denver-RTD Fort Collins-Transfort Greeley-The Bus Pueblo-CityBus
Alaska	Municipality of Anchorage	Connecticut	Bridgeport-VTD Danbury-HART
Arizona	Peoria Transit Phoenix-Glendale Phoenix-Phoenix TS/ATC Phoenix-Sun Cities-SCAT Phoenix-Surprise Tucson-Sun Tran		Greater Bridgeport TD Hartford-CT Transit NY-Carey Transportation New Britain-Dattco, Inc. New Haven-CT Transit New Haven-NET New London-SEAT
Arkansas	Fayetteville-CRG Fayetteville-Springdale Little Rock-CAT		Norwalk-Wheels Stamford Dial-A-Ride Stamford-CT Transit
	Pine Bluff Transit		Westport Transit District
California	Bakersfield-GET Davis-UNITRANS Fresno-FAX	Delaware	Delaware-DAST Wilmington-DART
	LA-Commerce LA-Culver City	Dist. of Col.	Washington-WMATA
	LA-Gardena Bus Line LA-LACMTA/SCRTD LA-La Mirada LA-Laguna Beach LA-Long Beach Transit LA-Montebello LA-Norwalk LA-OCTA LA-Santa Monica LA-Torrance Merced Modesto-MAX Monterey-MST Oakland-AC Transit Oakland-County Connection Oxnard-SCAT Palm Springs-SunBus Riverside Special Trans. Riverside-RTA SF-Golden Gate SF-SamTrans	Florida Georgia	Bradenton-MCT Brevard-SCAT Clearwater-Pasco Shuttle Daytona Beach-STS Daytona Beach-VOTRAN Ft. Lauderdale-Bct Ft. Myers-LeeTran Gainesville-RTS Jacksonville-JTA Miami-MDTA Okaloosa County Orlando-LYNX Panama City-Bay Council Pensacola-ECTS Sarasota-SCTA St. Petersburg-PSTA Tallahassee-TALTRAN Tampa-Hartline West Palm-CoTran Albany-ATS
	Sr-Samirans Sacramento-RT San Bernardino-OMNITRANS San Diego Transit San Diego- The Trolley San Diego-NCTD San Francisco-BART San Francisco-Muni San Jose-SCCTD	ьеог д га	Attany-Als Athens-ATS Atlanta-Douglas County Atlanta-MARTA Augusta-APT Columbus-METRA Rome-Transit Department Savannah-CAT
	Santa Barbara-MTD Santa Cruz-METRO	Hawaii	Aloha-State Tour & Transp Honolulu-DTS

The data in this report are collected from these transit agencies.

Hawaii	Honolulu-HDOT-Mayflower	Maine	Bangor-The Bus Lewiston-Hudson Bus
I daho	Boise Urban Stages Pocatello Urban Transit		Lewiston-Western Maine Portland-METRO Portland-RTP
Illinois	Bloomington-Normal		
	Champaign-Urbana-MTD	Maryland	Annapolis Public Transit
	Chicago-Metra/BN RR		Baltimore-ColumBus
	Chicago-Metra/C&NW RR		Baltimore-Maryland-MTA
	Chicago-RTA-CTA		Cumberland-ATA
	Chicago-RTA-Metra		Hagerstown-Commuter
	Chicago-RTA-Pace Decatur-DPTS		Maryland-Ride-On
	Peoria-GP Transit	Massachusetts	Boston-MBTA
	Peoria-Pekin Municipal	riassaciiuse ets	Lowell-LRTA
	Rock Island-Metro Link		New Bedford-SERTA
	Rockford-Loves Park		Worcester-WRTA
	Rockford-RMTD		
	Springfield-SMTD	Michigan	Ann Arbor-AATA
			Battle Creek-BCT
Indiana	Bloomington-BPT		Bay City-Metro Transit
	City of Kokomo		Benton Harbor-Twin Cities Detroit-D-DOT
	Evansville-METS Fort Wayne-PTC		Detroit-D-DO
	Indianapolis-Metro		Detroit-SMART
	Lafayette-GLPTC		Flint-MTA
	Muncie-MITS		Grand Rapids-GRATA
	NW IN-East Chicago		Jackson-JTA
	NW IN-GNS		Kalamazoo-Metro
	NW IN-Gary-GPTC		Lansing-CATA
	NW IN-HYC NW IN-Lake County		Muskegon Area Transit Saginaw-STS
	NW IN-NICTD		Say maw-S1S
	NW IN-Portage	Minnesota	Duluth-DTA
	NW IN-Porter County		Minneapolis-St. Paul-MTC
	NW IN-SCMH		St. Cloud-Metro Bus
	NW IN-Trade Winds Rehab		
	NWIN-LCEOC, Inc.	Mississippi	Gulfport-Coast
	North Township DAR		Jackson-Jatran
	South Bend-Transpo Terre Haute-TU	Missouri	Columbia-CATS
	Terre made to	M 330di 1	Kansas City-KCATA
Iowa	Cedar Rapids-The Bus		Springfield-CU
	Davenport-Bettendorf		St. Joseph Express
	Davenport-CitiBus		St. Louis-Bi-State
	Des Moines-Metro		
	Dubuque, IA-KeyLine	Montana	Billings-MET
	Iowa City Transit Iowa City-CAMBUS		Missoula-Mountain Line
	Iowa City-Coralville	Nebraska	Lincoln- StarTRAN
	Sioux City-STC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Omaha-TA
	Waterloo-MET		
		Nevada	Las Vegas - Citizens
Kansas	Topeka-TMTA		Las Vegas Transit
	Wichita-MTA		Las Vegas-EOB Reno-Citifare
Kentucky	Cincinnati-TANK		Keno-Cititale
	Lexington-Fayette-LexTran	New Jersey	NJ Transit (Contract)
	Louisville-TARC	,	NJ-NJTC/Academy
	Owensboro-OTS		NJ-NJTC/Hudson Transit
1	Alamada arraya		NJ-NJTC/Rockland
Louisiana	Alexandria-ATRANS		NJ-NJTC/Suburban
	Baton Rouge-CTC Lafayette-COLT		New Jersey Transit Philadelphia-PATCO
	Lake Charles		Rockland Coaches, Inc.
	Monroe-MTS		
	New Orleans-LA Transit	New Mexico	Albuquerque-Sun Tran
	New Orleans-RTA		Las Cruces-RoadRUNNER
	New Orleans-Westside		Santa Fe-Sr. Citizens
	Shreveport-SparTran	New York	Albany-CDTA
Maine	Bangor-Eastern Transp.	New TOPK	Broome County
	zago. zaotern munop.		5. 5 Sine 6 Gairty

New York Buffalo-NFTA Buffalo-Niagara Scenic Elmira-Chemung County Glens Falls-GGFT Ithaca-TOMTRAN 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-Command Bus NYCDOT-Green Bus NYCDOT-Jamaica Bus NYCDOT - Queens NYCDOT-Triboro Port Authority-PATH Poughkeepsie Poughkeepsie-LOOP Rochester-RTS Rome-VIP Transportation Syracuse-RTA-Cayuga Syracuse-RTA-Centro Utica-UTA North Carolina Asheville-City Coach Charlotte-CTS Durham-Chapel Hill

Durham-DATA Fayetteville-Fast Gastonia Transit System Gastonia-Gaston Hickory-Piedmont Wagon High Point-Hitran Raleigh-CAT

Wilmington-WTA Winston-Salem-WSTA

North Dakota Fargo-MAT Grand Forks-City Bus

Ohio Akron-Kent State Akron-Metro Canton-The ProLine Cincinnati-SORTA Cleveland-LAKETRAN Cleveland-RTA Columbus-COTA Dayton-RTA Lima-ACRTA Middletown-MTS Springfield-SCAT

Steubenville-SVTC Toledo-TARTA Youngstown-WRTA

Oklahoma Oklahoma City-COTPA Tulsa-MTA

Eugene-LTD Oregon Medford-RVID Portland-Tri-Met Salem-Cherriots

Pennsylvania Allentown-Lanta Altoona-AMTRAN Erie-EMTA

Pennsylvania 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

Rhode Island Providence-RIPTA

South Carolina Charleston-SCE&G Columbia-SCE&G Florence-PDRTA Greenville-GTA 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

Abilene-AT Texas Amarillo-ACT Austin-Capital Metro Beaumont-BMT

Brazos Transit System Brownsville-BUS Corpus Christi-The B Dallas - Handitran Dallas-DART Dallas-DART/ATE Dallas-Grand Prairie

Dallas-Mesquite El Paso-Sun Metro Fort Worth-The T Galveston-Island Transit Houston-Metro

Laredo-El Metro Lubbock-Citibus Port Arthur-PAT San Angelo-Antran San Antonio-VIA Waco Transit System Wichita Falls

Utah Salt Lake City-UTA

Vermont Burlington-CT

Virginia Charlottesville Transit

Charlottesville-Jaunt Danville-DTS Lynchburg-GLTC Newport News-Pentran Norfolk-TRT

Petersburg Area Transit

Richmond-GRTC Roanoke-Valley Metro Washington

Bellingham-WTA

Bremerton-Kitsap Transit Longview-Community Urban

Olympia-IT

Richland-Ben Franklin Seattle-Everett

Seattle-Metro

Seattle-Snohomish-Commun. Seattle-Snohomish-Senior

Spokane-STA

Tacoma-Pierce Transit Vancouver-C-Tran Yakima Transit

West Virginia Charleston-KRT

Huntington-TTA

Parkersburg-Easy Rider

Wheeling-OVRTA

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

Wyoming

Cheyenne Transit





